DELIVERABLE 10.4



Risk Communication Tool Box Beta Version

Due: Month 36

Completed: Month 60

Deliverable Description

D10.4 provides the detailed description of the COMPARE Risk Communication Toolbox Beta Version released. The toolbox is hosted at <u>https://www.riskcommunication-compare.eu/</u> and is dynamically linked with the Compare Hub (<u>https://www.compare-europe.eu/</u>). The toolbox is structured around 8 main sections, and sixth level subsections, including external links, downloadable texts and spreadsheets, videos, programs, and boxes.

- 1) **COMMUNICATION MODEL**, which aims to provide the user with the main notions of the COMPARE Risk Communication Model and its high-level architecture
- 2) NARRATIVE MESSAGE MAP, which aims to drive the user from the general theory of message mapping, through the notions of epidemic imaginary and communication-action framework, to the creation of narrative message maps
- 3) **PERIODIC TABLE OF EPIDEMIC NARRATIVE**, which provides 175 links with tropes, symbols, plots and characters, relevant to epidemic narrative
- 4) MANUALS, which includes 4 main COMPARE manuals (a) Communication Theories and Models;
 (b) Health and Risk Communication;
 (c) Message Map Methodology;
 (d) Face to Face Communication
- 5) SPREADSHEET TOOLBOX, which includes 6 collections of spreadsheets, (a) Stakeholder analysis;
 (b) COMPARE Stakeholders; (c) Communication-Action Framework; (d) Message Mapping; (e) Narrative Messages; (f) Evaluation Tools
- 6) EDUCATIONAL MATERIAL, which includes educational videos, papers and booklets devoted to (a) Cultural Analysis for Health Risk Communication; (b) Credibility and Digital Trust; (c) Frames and Mental Strata; (d) Listening and Speaking; (e) Narrative Communication; (f) Risk Communication and Perception; (g) The Risk Semantic Field; (h) Vaccine and Magic Think
- 7) **RESOURCES**, which provides seminal papers and documents under three main headings, (a) COMPARE Risk Communication Methodology; (b) COMPARE Risk Communication references; (c) Selected Papers and Documents
- 8) **COMPARE ECOSYSTEM**, which provides 12 links with the overall COMPARE social media ecosystem

To these pages must be added a registration page for members and a FORUM page.

D10.4 was delayed as a consequence of the delay of D10.3. However, the development of the Toolbox was not jeopardised, and it was still aligned to the development of the whole COMPARE project.

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1. COMPARE RISK COMMUNICATION TOOLBOX

The COMPARE RISK COMMUNICATION TOOLBOX supports development of communication messages about findings, outbreaks, and new opportunities discovered and/or generated through COMPARE, addressing different sub-populations, in diverse EIDS and geographical, cultural, and temporal contexts. The COMPARE RISK COMMUNICATION TOOLBOX BETA VERSION is the development of COMPARE RISK COMMUNICATION TOOLBOX U.1 created in Task 10.3. The COMPARE RISK COMMUNICATION TOOLBOX V.1 created in Task 10.3. The COMPARE RISK COMMUNICATION TOOLBOX BETA VERSION must be considered as a release candidate (RC), because it has the potential to be a stable product, ready to be released unless significant bugs emerge. In this stage of product stabilization, all product features have been designed and tested. Notably, we have developed the fourth level structure of the toolbox and populated all the document repositories. The toolbox is hosted at https://www.riskcommunication-compare.eu/ and is dynamically linked with the Compare Hub (https://www.compare-europe.eu/).

2. The Sixth-Level Structure of the TOOLBOX

The toolbox is structured around 8 main sections,

- 1. **COMMUNICATION MODEL**, which aims to provide the user with the main notions of the COMPARE Risk Communication Model and its high-level architecture
- 2. NARRATIVE MESSAGE MAP, which aims to drive the user from the general theory of message mapping, through the notions of epidemic imaginary and communication-action framework, to the creation of narrative message maps
- 3. **PERIODIC TABLE OF EPIDEMIC NARRATIVE**, which provides 118 links with tropes, symbols, plots and characters, relevant to epidemic narrative
- 4. **MANUALS**, which includes 4 main COMPARE manuals (a) Communication Theories and Models; (b) Health and Risk Communication; (c) Message Map Methodology; (d) Face to Face Communication
- 5. **SPREADSHEET TOOLBOX**, which includes 6 collections of spreadsheets, (a) Stakeholder analysis; (b) COMPARE Stakeholders; (c) Communication-Action Framework; (d) Message Mapping; (e) Narrative Messages; (f) Evaluation Tools
- 6. EDUCATIONAL MATERIAL, which includes educational videos, papers and booklets devoted to (a) Cultural Analysis for Health Risk Communication; (b) Credibility and Digital Trust; (c) Frames and Mental Strata; (d) Listening and Speaking; (e) Narrative Communication; (f) Risk Communication and Perception; (g) The Risk Semantic Field; (h) Vaccine and Magic Think; i) Pandemic Game
- 7. **RESOURCES**, which provides seminal papers and documents under three main headings, (a) COMPARE Risk Communication Methodology; (b) COMPARE Risk Communication references; (c) Selected Papers and Documents
- 8. COMPARE ECOSYSTEM, which provides 12 links with the overall COMPARE social media ecosystem

Each primary section is further structured in subsections, variously interlinked to each other, to external websites, to videos, and to downloadable documents in order to create a rhizome provided with a sixth-level extension. In the next pages of this report, we will describe it in detail.



3. HOME PAGE

The HOME PAGE provides a synthetic description of the COMPARE project and a link with the COMPARE primary web site (<u>https://www.compare-europe.eu/</u>). The horizontal menu allows to navigate through the main section of the toolbox. From the right side of the screen it is possible to access to the whole COMPARE ecosystem.



4. The Toolbox

This section illustrates both the rhizomatic theoretical approach (through various subpages) and the overall architecture of the TOOLBOX, offering the possibility to access to other sections too.



Through this page it is possible to access to the TELLME Risk Communication Model, which is the model on which we have built the COMPARE Risk Communication Model, was it was originally conceived in the TELLME project (TELL ME Consortium 2013) and further developed by the Health and Risk Communication Center at Haifa University (Gesser-Edelsburg 2014) (Gesser-Edelsburg and Shir-Raz 2017). The page also provides relevant links with the definition of "One Health". Finally, through this page one can access the whole theoretical section devoted to the rhizomatic model as adapted to the COMPARE project.



The subsection devoted to the rhizomatic theory and model is structured in two further levels. At a first level it presents the essential theoretical elements of the model and provides links with a video, which explains the structure of a rhizome compared with the structure of a network, and a manual devoted to rhizomatic learning. A further link allows to download Deleuze's and Guattari's book in which the rhizomatic theory was first illustrated (Deleuze and Guattari 1987). At a second level this page offers a gate to access 1) a detailed discussion of the 4 principles of the rhizomatic model - (1) connection and heterogeneity; (2) multiplicity; (3) asignifying rupture; (4) cartography and decalcomania – and their adaptation to health and risk communication; 2) the 3 specific perspectives that we used to tailor the rhizomatic model on health and risk communication, notably (1) the notion of Digital Public Sphere; (2) the theory of the Digital Unconscious; (3) the metaphor of the Global Theatre.

Home T	he Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narrative	s More
phenomena li market interco and so on. L environmenta hierarchical: (ke epidemics onnectivity, fin ikewise, the (I issues. A ne (3) distributed	and pandemics from a one ancialization of world econo One Health model emphas w risk communication focus (4) global transcending s	 health perspective. Global in omy, electronic currencies, per ises the strict interconnection sed on EIDs, and EEs must pecific territories, but also w 	k communication model, aiming to add terconnectivity goes beyond the Interne cople global mobility and migrations, inter n between human and animal health, be, (1) interconnected; (2) decentralise ith a local reach; (5) real-time, synchro met. Decent and the above mununication Centre at Haifa Universit b include all the above.	et, including erculturality, as well as ad and non- onous and
the middle of under the gro able to clone description m psychoanalys its rhizome. It G., 1965, p. p theory, "The absolutely diff	the 19th cen und. People om a single g itself, giving lakes sense I t Carl Jung, w s true life is ir o.1). This is qu world has be ferent from ro	tury (Gartler, 2017). It ind mistake their visible, seaso enetic individual. Each clon rise to another identical c occause it is due to their ho wrote in the introduction visible, hidden in the rhizor jotle inspired French philos come chaos, () A systen ots and radicles. Bulbs and	icates a vast category of he nal, foliage, for stems, and c le keeps the same ability, sc olony, Ginger, ins, and rhub particular form of life that ri of his book of memories "life me () What we see is bloss opher Gilles Deleuze and cli n of this kind could be calle I tubers are rhizomes () Ex	modern scholars. The term originates i baceous plants whose stem runs horiz onfuse their perennial stems with roots each thizome can be detached, contir arb are well-known thizomes. This brie hizomes were used as a metaphor by has always seemed to me like a plant in on, which passes. The thizome remain nical psychoanalyst Felix Guattari to de d a thizome. A thizome as subterrane ene some animals are, in their pack for vasion, and breakout. The thizome itse the weed" (Cleance & Guattari, 1967, p.	contally just . Rhizomes huing being of botanical of swiss the hat lives on lis" (Jung C. evelop their ian stem is m. Rats are
disciplines, in and the Interr studies (Joh 2014); neuro 2006), (Yu J. political studie	cluding, e.g., net (Broadhur nson, 1997), (science (San E., 2013), (R es (Vayo, 2010	literature and literary critic st & Machon, 2012), (Arono Jones, 1997); media studie npson, 2017) economy, (Au ubenstein-Montano, et al., I), (Bey, 1991); war studies	cs (Snyder, 1997); ethnicity ; switz, Martinsons, Menser, & s (Poster, The Second Media raya & Peters, 2010), (Brand 2001); system modelling (F (Stone A. R., 1996).	atic theory and model to a variety of co and cultural studies (Guattari, 1995); or Routledge, 1996), (Dirkke, 1995); corn Age, 1995); teaching and learning (Col de, 1996); business and management, lood, 1987); surveillance studies (Bog	cyberspace imunication le & Masny, (Yu J. E., ard, 1996);
communication burdened with (Honan E., 2	on and health n significant o 007), (Masny	communication, and with perational consequences - & Waterhouse, 2011) and t	the experience developed was the scarcity of real-life eaching (Lourdes, Nery-Cura	d with established models of network ar by TELL ME. The main problem that applications, except in the area of litera t, & Guzman, 2018), (Murris, 2017). To 1 ferent contexts and disciplinary areas, to perthodological questions turned out es of nice political activism. This is also sed in following Deleuze and Guattari's nd applications (Honan & Sellers, 200 y to make more "fashionable" on old, es estantations of reality; what matters with filtes. We searched to avoid this flaw by trictical framework into more detailed au titically espouse Deleuze and Guattari's	t we met - ary analysis be sure, we
	he Toolbox	Communication Model	agmatic and anti-ideological	Periodic Table of Epidemic Narratives	More
so, we choose constitute its of the Globa complementa feature to be (Sloterdijk, 22 sphere is the Hamlet. The r The worldwid projection of fictionalize he of neurons cc individuals. H today, virtual Through thes	e three comp ioundational p I Theatre. Th ry points of v rooted in the D16), (deKerdk stage of the eal world and le web is at c individual and r life (Debord, alled "mirror n urman beings reality has bee	rich theoretical framework, y leting perspectives on glot iniciples, (1) the notion of D ey allow putting into prac- iew on the same reality de tension, integral to the dig thove & Viseu, 2004), (McI world (Castells, 2008); so, the virtual world have becc nice a virtual community (collective archetypes) (B 1967/1995). Deep biologics urrons" activated both whe are "theatrical" (Burke K, orme the most real reality, cettives, we aim to provide	pai interconnectivity, which a trigital Public Sphere; (2) the thight is the theory liscribed by the theory (Figur ital society, between present uhan, 1970). The Internet the digital citizen has been me like two mirrors facing ee Habermas, 1991), a space (rock Schafer, 2016), and a l reasons contribute to this p n individuals act and when t 1963/1964) in their inner neu	culated in order to become fully operatic re at the origin of the rhizomatic mode heory of the Digital Unconscious, (3) the because they are ultimately three diff a 8). These three perspectives share t re and reference, appearance and repri- is a stage (Quiring, 2014), and the dig captured within a play into the play, like ich other, a global mise-en-abyme (Tinn of coexistence (Stoterdijk, 2016), the h global stage (Tinnell, 2011) where eve henomenon, as shown by the discovery hey observe the same action performe rological constitution. This explains why mmunication with proper instruments to	el and still metaphor erent and the critical esentation jital public e actors in ell, 2011). olographic ryone can of a class d by other for many,
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More

The Toolbox

Communication Model

Narrative Message Map

Periodic Table of Epidemic Narratives

Connection and heterogeneity

Any point of a rhizome can be connected to anything other and must be (...) A rhizome ceaselessly establishes connections between semiotic chains, organizations of power, and circumstances relative to the arts, sciences, and social struggles. A semiotic chain is like a tuber agglomerating very diverse acts, not only linguistic, but also perceptive, mimetic, gestural, and cognitive: there is no language in itself, nor are there any linguistic universals, only a throng of dialects, patois, slangs, and specialized languages. There is no ideal speaker-listener, any more than there is a homogeneous linguistic community (Deleuze & Guattari, 1987, p. 8) (...) the rhizome connects any point to any other point, and its traits are not necessarily linked to traits of the same nature; it brings into play very different regimes of signs, and even non-sign states (Deleuze & Guattari, 1987, p. 21).

EXPLANATION: The rhizome expands through multiple connections, and it is not crossed by established modes of communication, or paths, or direction lines. Communication is not based on the structured, directional, transmission of pieces of information, because there are no established points or positions, directional lines, arrows, and nor stable networks to be crossed. Each communication receiver is contemporaneously a sender. The rhizome is an ongoing labyrinith, which progresses through proliferation of new offshoots and clones (e.g., blogs, web sites, FB pages, social media, etc.). Communication is continuously subject to a quantum-like effect, including enlanglement and counterfactual phenomena. There are not ordinate series of events, chronological sequences; everything is "synchronically" asynchronous, because each element has its own internal clock and there is no external, absolute, time; the system has only short-term memory, everything is volatile.

CHALLENGES TO RISK COMMUNICATION: Connection and heterogeneity challenge the cornerstone of traditional risk communication, say, the distinction between certainty and uncertainty, predictability, and unpredictability.

EXAMPLE: Till a few years ago, pandemics were classified by insurance companies as "acts of God", the legal formula used in the English-speaking countries to indicate non-insurable natural disasters. They were considered unpredictable. In 2014, the <u>Munich</u> <u>Reinsurance Company</u> (Münchener Rück), a world's leading reinsurance company, started a strategic partnership with <u>Metabiola</u>, a San Francisco-based global company using "near-real-time data collection and comprehensive risk analytics for epidemics". In 2015, Munich Re accepted to reinsure against MERS the <u>Korean government</u>, which wanted to offer insurance coverage to international travellers and tourists. This led, in May 2016, the World Bank and the World Health Organization in to launch the <u>Pandemic Emergency Financing Facility (PEF)</u>, a global insurance scheme for epidemics and pandemics risks, offered to 77 low-income countries. <u>Munich Re, Swiss Re and GC Securities</u> accepted to reinsure the World Bank for this program, so making it feasible. This was not because we can now predict epidemics with more certainty than in the past, but because of a shift in the collective mindset. Today, we "think" of epidemics in a radically different way. In less than three years, the world has changed more than over centuries.

COROLLARY: global hypertext The Internet is made up of material, physical, objects, computers, cables, transmitters, and so, but it is much more than the sum of its parts. "The World Wide Web is already an emergent property of networks" (deKerckhove & Viseu, 2004). The digital world can be conceived as a huge, global, unique, hypertext. Digital networks work thanks to programmes, which slandardize them, allowing interconnection and exchange of information. The Internet is global in dimension, but it needs local programmes to work, it is decentralised but not anarchic, it is ruled by codes. Networks and codes create the hypertext (deKerckhove e Viseu 2004), which is much more than interconnection between several texts. The main features of the global hypertext are, (1) language hybridization; barriers between audio and visual (and tomorrow also haptic and olfactory) sensory modalifies are overcome, as well as barriers between different linguistic codes and verbal/non-verbal communication; (2) simultaneous capacity for synchronous and asynchronous communication, the time of the Internet is a property of its nodes, which can release or retain communication in any moment; in the digital sphere time is an issue of pertinent retrieval, the "timeless time" (Castells 2007); (3) human-machine hybridization, knowledge and memory are processed by machines and humans coupled together, (4) privatization of global matters, publicization of private subjects: global events are perceived as though they were private occurrences, and very private, intimate, events are divulged as though they were public facts; (5) shared cognition and shared memory, nothing can be truly forgotten once it has been digitalised, and nothing can be no longer private and individual, the digital is shared by definition.

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There are no points or positions in a thizome, such as those found in a structure, tree, or root. There are only lines. When Gleon Gould speeds up the performance of a piece, he is not just displaying virtuosity; the is transforming the musical points into lines, he is making the whole piece proliferate. The number is no longer a universal concept measuring elements according to the dimensions considered () (Deleuze & Guattari, 1987, p. 9) The ritizome is reducible neither to the One nor the multiple. It is not the One or the multiple derived from the One, or to which One is added (in + 1). It is composed not of units but of dimensions, or rather directions in motion, the neither beginning nor end, but always a middle (milieu) from which it grows and which it overspills (Deleuze & Guattari, 1967, p. 2).	Home The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
 only lines. When Glenn[*] Gould speeds up the performance of a piece, he is not just displaying virtuosity; he is transforming the musical points into lines, he is making the whole piece proliferate. The number is no longer a universal concept measuring elements according to their emplacement in a given dimension but has itself become a multiplicity that varies according to the dimensions considered () (Deleuze & Guuttari, 1987, p. 9). () The rhizome is reducible neither to the One nor the multiple. It is not the One that becomes Two or even directly three, four, five, etc. It is not a multiple derived from the One, or to which One is added (n + 1). It is composed not of units but of dimensions, corrather directions in motion. It has neither beginning nor end, but always a middle (milieu) from which it grows and which it overspills (Deleuze & Guuttari, 1987, p. 22). EVELANTION: In the rhizome - in la multiple dimensions, languages, and symbolic codes - no roles are established in advance. In early flenalistance, most university scholars and uter made the momentus milate not to realize that the world was entering the calculary. In yot di concerptend that the prime graduation truth always on the one but the world was entering the calculary. In yot di concerptend that the prime graduation truth always on and on Public health and the prime of a scientific, who were not academicians and methodition and makes traditional forme and and one prime and the prime and the prime and the prime of a scientific, who were not academicians and methodition and makes traditional one way the sages, based on rigit criteria of scientific vidence, obsoleta. CHALLENGES TO RISK COMMUNICATON: Multiplicity of languages, technologies, values, cultures, sources, points of view, chalenges the standard description of the risk communication cocyste		Μ	ultiplicit	ty	
 early Renaissance, most university scholars and rulers made the momentous mistake not to realise that the world was entering the "Gudenberg Galaxy", they did not comprehend that the printing revolution would have overturned traditional forms of intermediation, established routes of information, modes for transmitting knowledge, criteria to assess the truth and to identify trustworthy sources. The consequence was that they were ultimately replaced by a new generation of scientists, who were not academicians and institutional authorities, rather genial "amateurs", like Galileo, Pascal, Fermat, Descartes, Newton, and so. Public health authorities and experts run today a similar risk if they do not realize that the world browser nullifies expert intermediation and makes traditional one way message, based on nigid-critical of scientific evidence, obsolete. CHALLENGES TO RISK COMMUNICATION: Multiplicity of languages, technologies, values, cultures, sources, points of view, chalenges the standard description of the risk communication ecosystem, based on weil-segmented stakeholders, olear-out layers of governance, and an ordered flow of communication involving genets, policymakers, health care professionals and the public. More than fact telling, contemporary risk communication needs story-telling. EXAMPLE: Since 24 June 2016, a day after Britain voted to leave the European Union, a map has been circulating around the Web showing that there is an overlap between areas which were more affected by bovine spongtiorm encephalopathy (mad cow disease) during the 1992 epidemics, and areas where most olvers vide a flexed (https://www.snoge.com/mad-cow/wersus-beavt). This new was clearly a satire, as it was enough to search for a true map showing the distribution of mad cow crass in the UK to realise that the map showing an overlap between mad cow ultreak and Breat was a fake. Yet, some journalists and economists book it very seriously, the take map circulated around Twitter (https://goo.g	only lines. When G he is transforming no longer a univer- but has itself becc Guattari, 1987, p. that becomes Two which One is adde It has neither begi	Alenn Gould speeds up the musical points into sal concept measuring ome a multiplicity that 9) () The rhizome is o or even directly three od (n + 1). It is compos nning nor end, but alw	the performance of a b lines, he is making th elements according to varies according to the reducible neither to th b, four, five, etc. It is no red not of units but of di	piece, he is not just displaying virt e whole piece proliferate. The num their emplacement in a given dime dimensions considered () (Dele e One nor the multiple. It is not th t a multiple derived from the One mensions, or rather directions in m	uosity; nber is ension euze & e One , or to notion.
EXAMPLE: Since 24 June 2016, a day after Britain voted to leave the European Union, a map has been circulating around the Web showing that there is an overlap between areas which were more affected by bovine spongiform encephalopathy (mad cow disease) during the 1992 epidemics, and areas where most voters voted the "Bresti"(<u>https://www.snopes.com/mad-cow-versus-bresti</u>). This news was clearly a satire, as it was enough to search for a true map showing the distribution of mad cow cases in the UK to realise that the map showing an overlap between mad cow outbreak and Brexit was a fake. Yet, some journalists and ecconnists took it very seriously, the fake map circulated around Twitter (<u>https://goo.gl/Qipt48</u>) and Facebook (<u>https://goo.gl/Qibt48</u>) collecting several mentions. Why was this fake news so successful? Because it told a story which embodied people's opinion that the EC, as well as the overall international community, overlooked peoples' needs and citizens' life during the Mad Cow crisis. People were scarcely interested in whether maps were true or false, or if the distribution of voters for Brexit truly overlapped with the distribution of people who suffered from the economic backdash caused by the outbreak. The most important fact was that, in 25 years, only 229 people have been diagnosed with the variant Creutzfeltt-Jakob Disease (vCJD) worldwide, while the impact of the measures taken to contain the bovine outbreak caused a loss of £3.2bn a year in UK (0.5% of UK GDP), of 130,000 working places (0.5% of total employment), with a total negative economic impact between 0.1% and 0.2% of UK and income (GDP) (https://go.gl/anA84t). To our best knowledge, there are no studies investigating the impact of vCJD outbreak. CORCLAPY: Immanenee In the digital world, one knows only what one can retrieve; digital knowledge is retrieving. Knowledge is impermanent. In the printing era, texts were supposed to be in the "final form", once printed, abook is locked up, by ontrast, digital texts are fluid, they are n	early Renaissance, most "Gutenberg Galaxy", the established routes of infit The consequence was institutional authorities, r and experts run today a one-way messages, base CHALLENGES TO RIS challenges the standard governance, and an order	t university scholars and rul y did not comprehend that t ormation, modes for transmi that they were ultimately r ather genial "amateurs", like similar risk if they do not re ed on rigid criteria of scientifi K COMMUNICATION: Multi description of the risk comm ered flow of communication,	ers made the momentous mi the printing revolution would itting knowledge, criteria to a eplaced by a new generation e Galileo, Pascal, Fermat, De alize that the world browser in c evidence, obsolete. iplicity of languages, techno unication ecosystem, based involving experts, policymak	stake not to realise that the world was ent have overturned traditional forms of interm ssess the truth and to identify trustworthy so no of scientists, who were not academic scartes, Newton, and so. Public health at nullifies expert intermediation and makes to plogies, values, cultures, sources, points on well-segmented stakeholders, clear-cut	ering the vediation, sources. ians and uthorities raditional of view, layers of
In the digital world, one knows only what one can retrieve; digital knowledge is retrieving. Knowledge is impermanent. In the printing era, texts were supposed to be in the "final form", once printed, a book is locked up; by contrast, digital texts are fluid, they are never definitive, they are always potentially in progress. Counterintuitively, digital communication is much more emotionally rich than written/printed communication, in fact, it is so much close to orality, that Watter Ong speaks of "second orality" or "electronic orality" (Ong, 1982). Electronic texts, thanks to their volatile nature and interconnectedness, can register interiority more than printed texts. Printed communication isolates, electronic communication incorporates. Whereas printed material situates the observer outside, at a distance, the screen tends to be immersive. When you interact with digital media, you are never passive, you continuously manipulate the text (be a written page or a picture or a video) and the context, navigating simultaneously on several pages and enlarging, reducing, changing the visual focus, of the main text. You can decide to save or not save the page, and you can enter the text to modify it. You can take a screenshot, and you can decide to share the text on global scale or only with a few selected persons, or only one individual, using a variety of social media, or the email. Communication is produced, processed, disseminated and stored	EXAMPLE: Since 24 Jun showing that there is an during the 1992 epidem news was clearly a satir that the map showing an seriously, the fake map mentions. Why was this f overall international con interested in whether ma who suffered from the e have been diagnosed wit the bovine outbreak can employment), with a tot To our best knowledge, t	he 2016, a day after Britain overlap between areas which ics, and areas where most e, as it was enough to search overlap between mad cow overlap between mad cow oriculated around Twitter (fake news so successful? Be mmunity, overlooked people ups were true or false, or if the conomic backlash caused bit the variant Creutzfektl-Jak used a loss of £3.2bn a al negative economic impact there are no studies investig	voted to leave the European sh were more affected by box voters voted the "Brexit"(<u>htt</u> sh for a true map showing the outbreak and Brexit was a fail (<u>https://goo.gl/Qibl4x</u>) and Fi ecause it told a story which er s' needs and ctitzens' life of the distribution of voters for E the distribution of voters for E the distribution of voters for E by the outbreak. The most im tob Disease (vCJD) worldwide year in UK (0.5% of UK of the thetween 0.1% and 0.2% of tating the impact that such ar	rine spongiform encephalopathy (mad cow ps://www.snopes.com/mad-cow-versus-brea e distribution of mad cow cases in the UK t e. Yet, some journalists and economists to acebook (<u>https://goo.gl/U3u5em</u>) collecting mbodied people's opinion that the EC, as w furing the Mad Cow crisis. People were read truly overlapped with the distribution of portant fact was that, in 25 years, only 22 e, while the impact of the measures taken to GDP), of 130,000 working places (0.5% UK national income (GDP) (https://goo.gl// n economic disaster had on health conditio	disease) <u>cit/</u>). This to realise to realise
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		Asigni	fying ru	ıpture	
on n territe cons duali Guat its di multi confe and repro	ew lines. () orialized, orga tantly flees. (. sm or a dich tari, 1987, p. mensions, an plicity underg used with line positions. Ur pduction as i ealogy. It is a	Every rhizome conta anized, signified, attribu-) These lines always lotomy, even in the rr 10) () the rhizome is d the line of flight or of oes metamorphosis, of ages of the arboresce like the tree, the rh mage-tree nor intern short-term memory or	ains lines of segmentar uted, etc., as well as lin s tie back to one anoth udimentary form of the s made only of lines: line deterritorialization as the changes in nature. Thes nt type, which are mere izome is not the obje al reproduction as tre	tart up again on one of its old linee rity according to which it is stratii es of deterritorialization down whi er. That is why one can never pos o good and the bad () (Deleuz es of segmentarity and stratification e maximum dimension after which se lines, or lineaments, should no by localizable linkages between po ect of reproduction: neither exter e-structure. The rhizome is an a ome operates by variation, expans	ied, ch it sit a e & the the the rnal anti-
rhizom commu one co they ar printing concep	e; consequently inication because rrespondence be e the original rhiz revolution herak	the rhizome can occupy of the entanglement effect tween segments and territo ome. Search engines are th ded the birth of a new class on media, the search engin	simultaneously two or more . This implies that the digital r pries, because entities genera le plastic representations of the of media, newspapers and m	orted everywhere, keeping on being the of e distant territories, as it happens in qui hizome is de-territorialized, there is not a of ated by segmentation are not colonies or of he ongoing proliferation of the rhizome as w agazines, the digital revolution has created nternet users as the most important and it	antum one-to- copies; vith the a new
challen the dig provide digital networf and reg	ges risk commun ital world and th d in the past the communication i ks, the main goal generated. The go	ication because it calls in q e ways in which communic overall framework for risk c s much less disturbed by was to prevent information bal is thus to drive transform	uestion standard models of n ation propagates. Big data a communication. Noise is a pro noise, and this radically chi loss and degradation, in the ation processes through the c	ing segmentarity owned by the digital rt etwork analysis and linear models for inter re qualitatively different from traditional st oblem which typically affected analogue sy anges communication rules. While in tra- rhizomatic web information is continuous nygoing proliferation of new offshoots; the p in multiple languages, codes, and frames.	preting atistics stems, ditional cloned
search caused over th publish search issue o outbrea (https:// moreov influen; disease improve prophe would semina	queries to detect by a strain of H ⁺ e world, causing ed a paper in Na queries. This pa f pandemics unpip daks, and affer a 1 /goo.gl/7JCgNB). ver, scientists did za, and consequ es. Google's sciel e its search algo cy" effect. Google have caused fur l mistake to ove	t an online sign of flu epidei IN1 influenza virus, the sam the fear that it could caus ture, demonstrating that the per raised enthusiasm and of redictability. Yet, after such a spectacular failure in 2013 What did happen? Google not realize that normal peo ently most people, suppos ntists also overlooked a ma rithm, recommending seard a laso introduced a number ther, unpredictable, framing	mics. A few months later, a sw he strain responsible for 1918 e a deadly pandemic. In such ey could have detected the ou- expectation, and for a couple of in initial performance, Google (missing the flu peak by 140 Flu Trends algorithm was quiple are not interested in the side do search for influenza-re- ssive framing effect caused bit ches based on Google Flu Ti of new health-based add-ons g effects (https://goo.gl/fipeFlg d underestimate their volatili	movative initiative for aggregating and an wine flu outbreak made its appearance in N "Spanish" pandemics. Soon, the virus spr h a highly emotional context, Google's sci itbreak two weeks earlier by focusing on p of years it looked like big data could overco Flu Trends was always wrong in detecting in %), Google decided to discontinue the p inte vulnerable to seasonal terms unrelated cholarly distinction between flu-like diseas elated terms, were instead searching for y Google itself, which used Google Flu Tre rends results, so creating a sort of "self-f a, and Google's scientists did not realise th 5). In conclusion, Google's scientists ma ity (Lazer, Kennedy, King, & Vespignani,	Nexico, ead all entists cople's me the new flu ogram to flu; es and flu-like rnds to ulfilling at they de the
Assemi 2013). synthes events	It means a mod sis rather than gl and to "resonate	shift away from tree-like au el where one search things obal analysis. A rhizomatic " them on a global scale. Fo	s and people with deliberate model must assist health co or instance, instead planning a	based on binary oppositions (Clarke & Pa equality. The rhizome progresses through mmunicators in capturing the big picture of global communication strategy on flu epic mamics within local outbreaks of flu, and t	local of local emics,

2013). It means a model where one search things and people with deliberate equality. The mizome progresses through local synthesis rather than global analysis. A mizomatic model must assist health communicators in capturing the big picture of local events and to "resonate" them on a global scale. For instance, instead planning a global communication strategy on flu epidemics, the mizomatic model suggests studying in-depth mental and communicational dynamics within local outbreaks of flu, and then to project results on global scale, which is not, pay attention, to generalise findings. Generalization implies the idea that the same findings gotten on local scale can be transposed ipso facto on global scale; communication patterns are, ultimately, myths and protomyths (Burke K , 1966), (Lule, 2001).

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С	arto	graphy	and de	ecalcoman	ia
gene leave repro betw witho conn can l forma as a back syste dece	tic axis or dee as of a tree. T aduce an unco een fields, the out organs on ectable in all be torn, rever- ation. It can be meditation ("to the same ms with hier ntered, non-h	ep structure () The t he rhizome is altoget onscious closed in up e removal of blockage to a plane of consiste of its dimensions; it is sed, adapted to any k e drawn on a wall, cor) A map has multiple e." (Deleuze and Guat archical modes of co hierarchical, nonsignif	ree articulates and hie ner different, a map ar on itself; it constructs s on bodies without or ency. It is itself a part detachable, reversible, kind of mounting, rewo neeived of as a work of e entryways, as opposi- ttari 1987, 11) () In communication and pri- ying system without a	model. It is a stranger to any id rarchizes tracings; tracings are li nd not a tracing ()The map do the unconscious. It fosters conne- gans, the maximum opening of to of the rhizome. The map is ope susceptible to constant modifica- brked by an individual, group, or fart, constructed as a political ac ed to the tracing, which always of contrast to centred (even polyce eestablished paths, the rhizome a General and without an orga states (Deleuze and Guattari 1987	ke the es not octions oodies in and tion. It social tion or comes entric) e is a unizing
the rhi physic	zome, no matter	how marginal one believes t lains why it is practically imp	o be. There is not an "outside	nowhere, it means that one is always in t s", as the world browser is going to coincid ligital sphere once one entered, and inforr	de with the
as in t inform hardly often i	the rhizorne any ation campaigns, tenable. Local (marginalised. This	place is at the same time designed at national and su communication is increasing is also for a deeper reasor	local and global. The tradition pra-national levels, and imple ly having a significant globa n, it is because people rely of	global risk communication makes little se onal notion of risk communication, based amented at local level by health care profes al impact, while global communication is ir n personalized messages, they want to fe lobal and generic, the less people trust in t	on global ssionals, is creasingly sel unique,
(<u>http://</u> comm comm Seymo Interna stories mostly	www.bbc.com/net unication failures unication hardly pur, Fish, Robins et "individuals fro of interest and b generated in We	<u>ws/world-africa-29603818)</u> , , and used both traditional followed any structured rout on, & Zuckerman, 2017) de m around the world shaped oy clicking on stories shared st Africa – where the epider	Institutional communicatio and innovative tools (https: e or established pathway, A 2 monstrated that Ebola perce the conversations with their by others". These stories,	to "irrational attempts of the public to avoid n was mostly well done, aware of //goo.gl/loc34hc). The point was that ac 2017 study carried out by Roberts and coll aption was globally driven by social medi r social engagements within the network chiefly including personal emotional narral enetration was - according to Robert and ad experts.	previous tual Ebola . (Roberts, a, and the by sharing tives, were
A rhizi one sh the wh rhizom eleme Huffin worldw before be wa	nould be able to m note model so that natic model, what nts beyond close gton Post journa vide events in rea had to physically tching television 1	st be explorable from where nove from place to place, fro t one might move from any p is backwards is also forwar reach and proximity. Brief, t list and international busin I-time and in synchronization travel to another country to to get breaking news. Millen	m idea to idea, and from con point to another. All connectic rds. One should be able to a he model should schematica ess expert, Valerie Bersel n, and in ways very different experience its culture, Millen nials get notifications from t	mined point of departure. Within a rhizom cept to concept. Internal interconnections i nos are two ways; there are no point-of-no- analyse the whole model locally without r illy represent the world so efficaciously de i-price: "Millennials categorically have e from their parents. Where people just one nials need only to Skype. Where their pare heir back pockets. Where generations bef a few presses of a thumb. Where informa	must cover return in a esorting to scribed by cperienced generation ents had to ore had to
be vet	ted before it was t	broadcasted, now the burder	n of determining truth is on th	e person digesting if (Berset-Price, 2015).	



The Digital Unconscious

Signund Freud did not "invent" the notion of the unconscious mind, but he was the first to propose its dynamic nature (Ellenberger, 1970). According to Freud, some mental contents and affects are not only merely unconscious, but they are actively repressed by opposing mental forces. To Freud, the unconscious includes both elements which have never been conscious and elements which were once conscious and subsequently repressed. Among elements which have never been conscious, Freud includes what he calls urphantasien (primordial fantasies) (Freud, 1990), remote collective memories, shaped in narrative form and inaccessible to consciousness, which are transmitted (either genetically or culturally) through generations. Carl Gustav Jung, who was much more interested than Freud in collective mental structures, proposed the theory of the collective unconscious, shutch is close to Freud's urphantasien (Jung C , 1959). To Jung, the collective unconscious is a paperiension" – in Jung's words – belonging to a remote past, at the very origin of the human species. Human beings look at themselves, their life and their world, through the lens of these archetypes, which frame the human mind at personal and collective levels. Many other psychanalysts addressed the issue of unconscious collective mental formations. Those inspired by Jung's theories chiefly focused on archetypes, which are no longer understood in almost metaphysical terms, as Jung did "Jung saw the collective unconscious as a container for the whole spiritual heritage of humankinds' evolution born anew in the brain structure of every individual" (Fariss, 2011), contemporary Jungians see archetypes chiefly as cultural patterns, transmitted through cultural means (e.g., verbal and non-verbal languages, implicit and tact education aris, music, etc.).

Transgenerational transmission of experiences

"Ottspring of those exposed to early life trauma are at elevated risk for psychiatric disorders. This phenomenon has also been demonstrated in indents. For example, transmission of the effects of stress across generations has been observed after exposing male mice to a wide variety of psychological stresses, including social defeat, chronic physical restartint, multiple variable perturbations in adults, social instability beginning in adolescence, and early maternal separation" (Dickson, et al., 2018). Since the 1980s (Rosenteck & Nathan, 1985) (Solkoft, 1982) (Westerink & Giarnatano, 1999) (Daud & PA, Children in families of torture victims: transgenerational transmission of parents' traumatic experiences to their children, 2005), a vast clinical and empirical literature has showed the possibility of transgenerational transmission of psychological, collective and individual, experiences, notably traumatic experiences and capacity for resilience. Controlled studies (Dekel & Goldblatt, 2008) (Braga, Mello, & Fiks, 2012)offered mixed evidence, without rejecting, however, the hypothesis of such an occurrence. Actually, the inheritance of acquired characters is incorriguous with the central dogram of molecular biology, and schokars were quite sceptical to the idea of finding a genetic component in intergenerational transmission of personal and collective experiences. Researchers: [Daud, Klinteberg, & Rydelius, 2006] considered alterations in parent's interactions with their children, and the child's elaboration parent's history, to be the likely causal explanations of reported cases and observational studies.

Since the 2010s, evidence has been, however, accumulating that there could also be a molecular component in transgenerational transmission of merital contents (Franklin, 2010). Changes in sperm DNA methylation induced to traumatic experiences, correlated to the transmission to the offspring of peculiar attitudes, have been demonstrated in mice (Arai, Li, Hartley, & Feig, 2009) (Bohacek, Gapp, Bechara, & Mansuy, 2013) (Saavedra-Rodriguez & Feig, 2013). In addition, the accumulating evidence of small RNA species in sperm seems to indicate other possible mechanisms of transmission both in mice and humans (Gapp, 2014), (Bohacek & Mansuy, 2015), (Andolina, Di Segni, & Ventura, 2017), (Dickson, et al., 2018).

		S	ocial Unconscious		
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Sociology and social psychology have also addressed the "social unconscious", it is worth mentioning XIX century French polymath, Gustave Le Bon, who suggested the crowd is almost exclusively driven by unconscious drivers, which would explain, to him, phenomena such as panic, impulsiveness, inability to "reason", mental contagion (Le Bon, 1895). Le Bon's theory provided the theoretical foundation for Nazi and Fascial propaganda. Other social scientists who studied the social unconscious include Gabriel Tarket, a French scholar contemporary to Le Bon, who proposed unconscious imitation and repetition as vital mental and social functions, structuring groups and individuals (Tarket 1890). Gilles Deleuza and Felic Guatari re-discovered Tarde's apprach and used it in their elaboration of the rhizomatic theory (Candea, 2010). More recent social scientists who studied the social unconscious were Nobert Elias (Elias, 1991) and Pierre Bourdieu (Bourdieu, 1991), whom both described it in terms of unaware habits of mind, carried out by symbols.

Finally, in the last two decades, also cognitive sciences and heuroscience nave addressed the notion of the social unconscious (lighta), Lemm, & Caprenter, 2001, p. 150). Cognitive sciences have focused on the relational, interpersonal, nature of the human mind. In their 1968 seminal paper, Clark and Chalmers (Clark & Chalmers, 1989) advanced the idea of the extended mind "Cognitive processes ant feffect, explanatory methods that might once have been thought appropriate only for the analysis of "nner" processes are now being adapted for the study of the outer, and there is promise that our understanding of cognitive processes and the sent of the version of externalism unpalatable. One reason may be that many identify the cognitive with the conscious, and it seems far from plausible that conscious, sent it is widely accepted that all sorts of processes beyond the borders of consciousness extends outside the head in these cases. But not very cognitive process, at least on standard usage, is a conscious process it is widely accepted that all sorts of processes are processes are outside that consciousness extends outside the head in these cases. But not very cognitive process, at least on standard usage, is a consciousnes of the isotation of the external processes are external where consciousness process to beyond the borders of consciousness play a crucial role in cognitive processes are external where consciousness of the energe jointy from brain and body activity as well beyond the physical brain. To Siegel, the mind is a complex system, open to interactions, randomly distributed, non-linear, which includes both internal (neural) and external (solicity to so some psychiatris) processes. In neuroscience, the discovery of mirror neurons by Giacout Res Jondard as provad and obligical basis to some psychiatrien (Brenery 2017), notably in the so-caled formal, collective, events can be internalized by the human mind) and to theories such as Tarde's hypothesis on mintarian (del do the this to so some psychiatriendo.

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		Dig	ital Unconscious				
	Expressions like "digital unconscious", "social digital unconscious", "digital social unconscious" have been recently used by various scholars to describe the under-the-threshold-of-awareness interactions occurring among human individuals and digital objects,						

including the Internet, and way in which a collective mindset is emerging from these interactions, beyond the awareness of single users. If social groups have a social unconscious, then it is logical to assume that also Internet users have a "digital unconscious", as far as they constitute a global community, further segmented in a huge number of subgroups and subcommunities. Given that Internet users tend to coincide with the global population, the emergence of the digital unconscious is one of the most conspicuous phenomena of our epoch, which plays a pivotal role also in health communication.

Canadian sociologist, and former assistant of the late Marshall McLuhan, Derrick de Kerckhove, first used the term "digital unconscious" (deKerckhove, The Skin of Culture: Investigating the New Electronic Reality, 1995) to mean the huge amount of personal information unwarily shared on the web, "The DU is everything that is known about you that you don't know. It is all the data that purposely or unwittingly we accumulate in ubiquitous databases all interconnected in Big Data. It is hidden, as in Freud's notion of the unconscious, but it is potentially more determining. Indeed the more is known about us, the more other agencies than ourselves can condition or influence our life-and other minor-choices. What we need is not a psychologist but a good hacker to regain some measure of personal control over our destiny" (Boemio, 2013). In 1999, Open University professor of electronics, John Monk, provided a similar, and even richer, definition "Electronic technologies maintain effigies, of which we are dimly aware. Changes made to databases all industry. Nourished by ignorance of a recorded persona that others observe, copy, distribute, manipulate and invent, the aggregate disparity in beliefs might be said to be caused by the digital unconscious (...). The digital unconscious is disembodied, distributed, collectively constructed and substantive. It creates a concealed persona and triggers unanticipated, inexplicable, occasionally rovide explanations for events. The search needs not a psychotherapist, but a computer specialisf (Monk, 1996, pp. 094-00). Also, American media scholar, Mark Poster, used the term "digital unconscious" to designate the "self embedded in digital databases (...) beyond the ken of individuals" (Poster, 2006, p. 92). In 2010, Lydia H.Liu, W.T.Tam Professor in the Humanities at the lunsticute for Comparative Literature and Society, Columbia University and director of the Center for Translingual and Transcultural Studies at unconscious. In 2015, Mireille Hildebrandt provided an extensive definit

From his initial understanding, de Kerckhove developed later a wider view, conceptualising the "digital unconscious" as collective intelligence emerging from the whole information shared online (deKerckhove, 1998), (deKerckhove, 2004) (deKerckhove, 2010). "When communicating through the Internet, people connect their minds and share thoughts, composing a kind of digital unconsciousness', said Kerckhove, introducing what he claimed to be his contribution to the theory of Freud. The sociologist said that while there is no way to prove the existence of the unconsciousness, 'the digital unconsciousness is there, composed of all that is known about anyone on the network'. For him, this phenomenon is becoming as crucial in the lives of people as paternal and maternal influences. The digital unconsciousness would, according to the speaker, arise from a hybridization between real and virtual, marked by reduced interiority, connected to the self, and an extended externality linked to the networked world. For Karckhove, it is the result of new emotional anxiety. 'What is Web 2.0 but the entry of the excitement factor in an environment where there was only information? People want to share news and also feelings, tips, thoughts, opinions', he said' (Meckien, 2018).

Kendehove's theory, the concept of "W al 2004 essay "The Wisdom of Crowe conomies, Societies and Nations" (Su socious", shaped on the Jungian notion nool of Information Management at Vice isdom of Crow s: Why the Ma owiecki, 200 m as hist formulated by A re Smarter Than the Fe ong a similar is Co i. 2004) Along a sir ng a similar line of the onscious. For instance llington, confronted Ju ory of n Ca arstood as a n ing the emerg red by tin ks. un C ts and interacts h, 2017). In 20 e of the in r (Lu r, 2016), "Jung eq ubt that this media fer, 2016, p. 232). In 2016, Itali io Bi **(B)** dk Sc of Mi on <u>"The Di</u> tal U e, based on the ide of J

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-		Exploring	the Digital Uncor	nscious	
social groups of the second se	up and cultural a ne in individual p 1964). The invest us representation ations transmitted g collective mean es, traditions, loca stored – so-to-si- por conveying nual as it happens with transgeneration that and in very or don't have a do one emotions to pool in which have a do one emotions to eavy interesting and , 1982) has conv arily similar to the mmunicators are ns. Yet, if they wa many ways to do o develop the abi- y create message strated by Umbe	rea (Weinberg, 2007). It ca sychodynamic psychotheraj igation focused on people al ns; to explore the transge d across generations, they in nings. Collective production: al folklore, architectural form beak – into verbal and non-in nced and multi-layered syml in individual fantasies, dream ts are meaningful for other , Mozart's Don Giovanni v ill significant today for many ulian, but they still enjoy th al and transcultural, mean different cutures. Other artis eep knowledge of, traditiona every spectator, it means th y were created. The study of helpful to those who invest incingly argued that the wa a way in which the same pro- not obviously expected eith nt to communicate effective o so, and there are no univer- ity for mixing different langu- es for the audience. It is imp to Eco (Eco, 2000), the key	In be done both by exploring by (Wurmser, 2007) – and by llows exploring the horizontal enerational, vertical, dimens include both collective products is are, for instance, myths, le s, etc. These various cultural verbal formulas and pre-set e bolic meanings. Also, individu is, memories. Yet, as far as arf human beings beyond their was elequent and evocati to who could even ignore XVIII e music. This suggests that f ings that can be understo tic productions can be less ge at also this form of art embod f storage and transmission of igate digital communication. I y in which information is stor cesses used to occur in oral her to become psychiatrists of ly with their audience, they i sal recipes. They must cultiva ages and codes, both when th bortant not to confuse a rigore for a successful communication.	arratives, shared by people belonging to t r personal narratives, dreams, memories - observing group interactions, like in group dimension of collective implicit communica- tions and individual creations, which succ- gends, tales as well as rituals, religious manifestations share the nature of being of expressions; their relative richness dwells al artistic creations are capable for universaliza- creator, they become tools for storing th ve not only for its author but also for century culture and music and cannot un Mozart's music is succeeded in embody one and appreciated by human beings li eneral. For instance, it is difficult for those v oreciate No theatre, yet, as far No theatre i lies collective meanings, which transcend the social unconscious through cultural print in his seminal essay on Orality and Literac ed, transmitted and retrieved in the digital cultures and human communities rued by or to develop a scholarly knowledge of all need to develop some forms of cultural sis the curiosity for any cultural manifestation, ney interpret messages corning from the p ous methodology with a snobbish approact ion dwells in the ability for hybridizing high ca Cola jingle can be much more evocativ	- as it is analysis tion and cultural eeded in and civil ollective esocial Mozart's derstand g some ing two ho don't s able to he place poduction y, Walter world is orality. cultural ensitivity, and they ublic and
	rg's quartet.				
			Representations shared by people belonging to the same social group and cultural area		
		HORIZONTAL	shared by people belonging to the same social group	VERTICAL	
		ream, Group	shared by people belonging to the same social group	Collective Invidual	e than a artistic (high and

Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
		D · · ·			

The Digital Public Sphere

The starting point of the COMPARE Risk Communication Model is the notion of public e-sphere. In choosing this approach, we took inspiration from the TELL ME model of risk communication and the way in which it was further developed by researchers at Haifa Health and Risk Communication Centre (Gesser-Edelsburg, et al., 2015), 'in the public sphere, the word of health organizations—even central organizations with international authority such as the WHO —is equal to the word of charismatic bloggers and other Internet users. Unofficial posts and blogs can have an influence equal to or greater than organizations' assessments and recommendations. However, crisis situations such as pandemic outbreaks present a challenge to the idea of the public sphere. On the one hand, a dialogue between equals, or two-way communication, has the optential to enhance organizational relationships with the public and help them achieve their goals. On the other hand, the organizations are still the ones who have the professional knowledge, and they are the ones who manage the crisis" (Gesser-Edelsburg, et al., 2015, p. 451).

The idea of "public sphere" originates from prominent German philosopher, Jürgen Habermas who first spoke of public sphere as "a virtual or imaginary community which does not necessarily exist in any identifiable space" (Habermas, 1991, p. 171). To Habermas, the public sphere has three main features, (1) it is non- hierarchical; 2) it is a field of concern and interest; 3) it is inclusive.

In 2001, French philosopher, Pierre Lévy, translated Habermas' public sphere into a digital dimension, speaking of a hypersphère publique (Lévy, 2011), say, a digital ecosystem where humans communicate and interact. A quite similar approach was also chosen by German sociologist, Udo Thiedeke, who spoke of hyperöffentlichkeit and virtuelle Gemeinschaften (Thiedeke, 2004). Finally, in 2005, Swedish writer, Karl-Erik Tallmo, first introduced the concept of digital public sphere (Tallmo, 2005).

The idea that the global communication system is central to the public sphere has also been advanced by influential Spanish sociologist, Manuel Castells (Castells, 2008) (Box 2). According to Castells, the main feature of today public sphere is its autonomy from national authorities and, from any sovereign power[1]. Such autonomy is due to concurrent factors, 1) the weakening of national institutions due to globalization processes; 2) the decentralised and dispersed nature of the global public sphere. Castells argues that there are four main trends that are driving the development of today global public sphere, 1) the growth of local associations, such as grassroots organizations and regional communities, with a global reach; 2) the emergence of non-governmental organizations operating at global level; 3) the upsurge of social movements considering global publics and governance as their political arena; 4) the establishment of a global public opinion created by the global media system. Castells' theoretical construction goes beyond the mere description of the "indistinct mass" of global consumers, and subjects often evoked by other authors, rather it tries to capture the deepest structure of the global civil society and its inner articulations.

German philosopher, Peter Sloterdijk, (Sloterdijk, 2014), (Sloterdijk, 2016) argues that humans create, inhabit, and share, "spaces of coexistence", that he calls, with Habermas, "spheres". Sloterdijk takes from Castells the seminal idea that current globalization is based on localism rather than on universalism. To Sloterdijk, globalization is essentially a process of overcoming distance. He argues that there have been three distinct globalization waves, the first was the metaphysical globalization of the Greek cosmology, which was based on the idea of philosophical universalism, the second was the maritime globalization of the 15th century, which was based on the idea of geographical universalism, that he calls "cosmopolitan globalization"; finally, the third wave is today globalization, that he calls "global provincialism". While the two first waves were both based on the idea of creating a unique macrosphere (space of human coexistence), the third wave is creating countless social and cultural microspheres, in which the search for, and the illusion of, a fundamental, self-structuring totality of meaning — religion, myth, science, art, and so — has dissolved. Sloterdijk likens the contemporary global sphere to a "foam", made of anarchic, decentralized, networks of contiguous spheres, which grow like a rhizome, without any established direction or plan. To Sloterdijk, the global public sphere - crossed by a web of physical and virtual, interconnected, communications - is a map, where space and time are collapsing. In this map, everything happens simultaneously, and time has been completely turned into space. The notion of space has lost the fourth, temporal, dimension, becoming purely three-dimensional, say, the global world is an immanent and infinite sphere, existing in an ongoing, never-ending, present, whose centre is everywhere and whose circumference is nowhere (Sloterdijk, 2016, pp. p.121-124). Ultimately, Sloterdijk's description of contemporary global public sphere owes a lot to Renaissance prominent



Hame The Tablack	Communication Model	Nalvative Moscoge Map	Periodic Table of Epidemic Narrative:	More
Theatrum Mundi, the theat	a of the world, is both a lite	Iobal TI	for burning communication, many art a	enformance,
albeit sui generis. The me Fortuna, or the Destiny – i literature (Hoffmeister, 2009 became a favourite literary Gran Teatro del Mundo (T) 2014). Today, it is once mor	taphor of life like a stage s quite ancient. Its roots ()). The metaphor survived trope - e.g., Jacques' spec re Great Theater of the W a gaining momentum, althout	 where humans play the rol can be traced in Greak early in mediaval literature, to reviv och in Shakespeare's "As You orld, 1666 - 2004) - and a i ugh revisited from the perspec. 	e assigned to them by a mighty produc philosophy, and they were already clic e in the Renaissance and Barogue peri Like M [*] (II, 7), and Calderon de la Ba cosmological and anthropological conce tive of new media.	ser, be God, had in Latin ods, when it rca's play El apt (Quirring,
At the origin of the modern dramaturgical approach), a	version of this perspective though Goffman was hardly	a, there is Kenneth Duva Bur y interested in wider scenario	te, and his "dramatism", who influences s. The huge difference between Burke a ris of human society, say, theatre comes o anticipate it. To Goffman instead, we reted as though it were theatre (but he v cisty as though we were a director obse- ocial action is always dramaturgical act be more concrete and pragmatic, we coherent with current neuroscience. In logist, Jeffray C. Alexander, edited a b of the spectacle" owes to both Burke at However, the real father of the mode.	Goffman's' nd Goffman
			of the spectacle" owes to both Burke at However, the real faither of the mode planet is enclosed in a manmade envir the result of living inside of a proscer a grease () the global village has been 's thing" (McLuhan, 1970, p. p. 12). In his it describing the global electronic theat actors and public. The reportory of su ast. McLuhan's view was ahead his tin tage was usually understood in relation yes and dreams, 'and our little life is no bord and McLuhan, were hardly fascina newer of the world-store motarhor. Th	
The second se	the second s	the rest of the second s	stage was usually understood in relation was and dreams, "and our little life is no bond and McLuhan, were hardly fascina power of the world-stage metaphor. Th d political life (Ouring, 2014), often in fi so to criticize contemporary society. Yet and paradoxically, "accompanied by a c	
(Baudrillard, 1995) and Ca not actually happen, as the sure, Baudrillard was subtle reality was forever shadow	adian academic author Mi real' war replaced by a bi r than his critics at the time ed by virtuality. Facts exis	chael Ignatieff (Ignatieff, 2000 roadcasted 'copy' war – a hug supposed. He never argued th ted somewhere – he though	990s thanks to French philosopher Jean). In 1965, Baudrillard argued that the sillusory, video game to please the p nat combats had not been real, raiher he - but once turned into a TV broadcas f, who went more in-depth with the noti Baudrillard's argument), but they are act have disappeared. Communicators, beca field combatants could even be robots be easily extended to all major crises the abasis of the allegation of being a n lia system (Gesser-Edelsburg, et al., 201	Gulf war did ublic. To be argued that t, they were
The idea that the new glob and entertainment do not a	al media system is turning t zist any longer, and every	he world into a global stage, i one – willingly or unwillingly -	A system (sesser-consoling, et al., 20) where borders between communication, - plays before a global, digital audience dini, 2018). Many scholars contend that nist and influential social theorist Jerem emphasise digital mobility (Evans, 20 77). (Castells, 2008). Ferninist scholars h notion of presence. Annette Markham (995), writes "Having a sense of prese ecomes a more complicated concept la entification of contents are nhon unch	information, , is become
play out in settings and tir temporal performative elem	nes far removed from the lent that emerges in the dy	origin of interaction. Agency i mamic interplay of people an	s not the sole property of individual er d their technologies for communication	tities, but a (Markham,
may become actors in thi anything in the world to fur both of which are constant the global theater of world b	s tootage at any given mor iction as a virtual-actual lin y changing and able to mak rowsers multiplies the stage	nem—intentionally or not. (k, a dynamic site of intersecti e those changes perceptible t as on which media content and	In a lowser, which is likely to be one theatre (.), the world serves as a s ive footage, people live with the awaren world browsers condition the possibilit on between digital information and phys o us in real-time. Through a radicalizatio o online networks can perform "(Tinnell, :	y for almost ical place— n of the link, 2011).
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5. The Communication Model

This section provides a general description of the COMPARE Risk Communication Model, notably the concept of narrative communication, and links with slides which illustrate the model in detail. Slides provide further links with internal sections of the toolbox and allow to download relevant documents.

_	The Toolbox	Communication Model Ne	rrative Message Map	Periodic Table of Epidemic Narrative	es Mo
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The COMPARE Risk Communication Model is chiefly for establishing new connections (both mental and operational) in all actors involved, rather than for transferring existent information from "knowledgeable" experts to the "uninformed" public. It is scalable, easy to use, it does not require major efforts and it is cost-effective.

The COMPARE Risk Communication model conjugates the focus on EIDs and emerging epidemics, with a rhizomatic approach, one of the most advanced approaches to today complexity. The <u>rhizomatic approach</u> - first advocated by Gilles Deleuze, a French philosopher, and Félix Guattari, a French psychoanalyst - was originally tested in the EC funded project TELL ME and was further developed by the <u>Health and Risk Communication</u> <u>Centre at Haifa University</u>. We will detail the three main components of this model, (1) the notion of <u>Digital Public</u> <u>Sphere</u>; (2) the theory of the <u>Digital Unconscious</u>; (3) the metaphor of the <u>Global Theatre</u>. These three, completing, perspectives share the critical feature to be rooted in the tension, integral to the digital society, between presence and reference, appearance and representation. The Internet is a stage and the digital public sphere is the stage of the world; so, the digital citizen has been captured within a play into the play. The real world and the virtual world have become like two mirrors facing each other, a global mise-en-abyme. The worldwide web is at once a virtual community (Habermas, 1991), a space of coexistence (Sloterdijk, 2016), the holographic projection of individual and collective archetypes ((Brock Schafer, 2016), and a global stage (Tinnell, 2011) where everyone can fictionalize her life. Deep biological reasons contribute to this phenomenon, as shown by the discovery of a class of neurons called "mirror neurons" activated both when individuals act and when they observe the same action performed by other individuals. Human beings are "theatrical" (Burke K., 1963/1964) in their inner neurological constitution. This explains why for many, today, virtual reality has become the most real reality.

Through these three perspectives, we provide COMPARE Health Risk Communication with proper theoretical instruments to apply the rhizomatic theory to narrative health risk communication.



5.1 Slides

The slides summarise the whole risk communication model and the narrative message map methodology.













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me	The Toolbox	Communication Model	Narrătive Messa	ige Map	Periodic Table of Epidemic Narratives		
		CONTAMINATIO			CONTAGION		
AGENT		The pollutant can be any object or person or action		The agent is a powerful force, either human or supernatural, or			
- Addition		The point and and adjust at particular action		natural			
ORIGIN		The pollutant is out-of-place, there is always a border- trespassing event in magic contamination		Humans challenged the powerful agent/force putting in contact sacred and profane			
RESPONSIBILITY		Border-trespassing can occur both involuntary and voluntary; there is no need for voluntary transgression or sin to generate impunty			The challenge is always generated by any form of hubris		
DOSE		Impurity does not depend on the nature and dose of the contaminating event			Contagion does not depend on the nature and dose of the contagious event		
BAD AND GOOD		Impurity resists to purification; the bad is stronger than the good;			There is no shield against contagion; the bad is stronger than the good;		
TRANSMISSION		A contaminated object or person makes impure other objects and persons, but objects and persons made impure in such a way are not necessarily transmitting impurity outside			Contagion is a chain, where each link links another link		
DISSEM	INATION	Contamination spread at a distance through the "miasma"; the "miasma" is invisible, dispersed, and ubiquitous, like a poison gas; the "miasma "is generated by any processes of decaying, both physical and moral					







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lome	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
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	_				
			EMES OF CONTAGION AND CO	NTAMINATION	
	Anger Mo	b	Airborne	Animals	
	Artow		Ashes	Asymptomatic carrier	
	Atonemer		Black	Blindness	
	Body fluid		Carrion	Claustrophobia	_
	Confined spaces Corpses		Contact through sympathy	Covenant	
			Cosmos vs Chaos	Crazy Mob	
	Crime, fault, pun	ishment	Demoniac	Dose independent	
	Dove		Everlasting effect	First wave	
1	Flood		Foodborne	Fortress	
1	Fury		Hot Zone	GMOs	
1.	Grease		Hidden infected	Life vs death	_
	Hybris		Insanity	Miasma	
	Light vs Da		Magic transformation	Nirvana	
A	Monaster	Y	Moral crisis	Outer world	
	Ocean, se		Order vs. disorder	Paranoia	
2	Out-of-Plac	ce	Panic	Pesthouse	
-	Parasite		Patient zero	Plague	
	Physical change with		Physical contact	Quarantine	
1	Purificatio	n	Punity vs Impunity	Red	
	Rainbow		Rebirth	Sacrifice	
	Redemptio		Rescue	Scapegoating	
-	Safe harbo		Sanctity	Shaman	
1	Sense vs. Non	sense	Sexual contacts	STDs	
1	Sinner		Snake, poison	The seer	
	The endless f		The evil ruler	The trap	
	The strang		The tragic hero	Tragic transformation	-
	The wise m		The Sorcerer's Apprentice	Universal destruction	
	Transmission of c		Disease X	Wrath of God	_
	Untouchability, impl	an atrability	Villa	Zoonosis	









tome	The Tool	xod	Communicat	ion Mod	el Nerrativ	ve Messa	ge Map	Periodic Table o	f Epidemic Nerratives	More
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COllaborative Management Platform for detection and Analyses of (Re-) emerging and foodborne outbreaks in Europe

COMPARE Audience Spectrum Profiles

The main purpose of Audience Spectrum Profiles is to provide health risk communication with a shared language for understanding the different audiences, with the aim to targeting them more precisely, engaging them and building a two ways communication. Audience Spectrum Profiles are designed to be more refined, granular, and advanced than existing health segmentations. They are based on people's emotions and mental models, which define frame people attitudes, health risk perception, and protective behaviour. The eight profiles are distinguished from one another by being each of them a peculiar combination of several variables. This mix is expected to enable health communicators to better understand motivations and develop tailored messages. Profiles have highly practical applications. They are fully integrated with COMPARE Message Map, where they are linked to segmentation based on salience as well, Audience Spectrum Profiles can also be used to recruit focus group and build panels to test health risk communication campaign.



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Home The Tool	box Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	Mon
ommitted & Sav	v			
OMMITTED & SAVVY				
ANTIBIATOR RESISTONCE	The group Committed & Savvy inclu	ides people and institutions who	share the scientific-medical model of infectious	outbreak
			s through participatory communication. The grou	
			st civil society organisations. Also, patients and u	
· 21/2/25			ople of this group regress, they tend to adopt adju	
-	of the notion of magical contagion a	and disease as a deserved punishin	nent. E.g., EIDs are partly due to human disregar	ding majo
Contraction of the second second	social and environmental issues.			
and the second second				
takeholder segment	Compare Partners			
otentially effected	European Institutions			
	International Governance			
	Global Epidemiological Networks			
	National Health Institutes and Nation	nal / Regional Stakeholders		
	Health care Professionals			
	Civil Society (NGOs, charities, trade u	inions, professional associations, e	tc.)	
Digital Profiles	Any in particular			
compliance types	Persuaded			
Magical Thinking Mode	Contagion			
e Outbreak	A MARK THE COMPANY OF THE OWNER OF THE			
oundational Mytha	JOURNEY TO THE AFTERLIFE			
To an a state of the	THE HYDRA			
Exemplar Narratives	Daniel Defoe, A Journal of the Plague			
	Peter Paul Rubens, The miracles of S	t. Francis Xavier		
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Content & Comp	liant			
CONTENT & COMPLIA				_
a contract of the second s		includes health care professionals a	nd patients, who are happy with information receiv	bet be
Stop measles with just one shot.		the second s	t want to know more and comply with preventive me	BLC20057
			milarly, both contamination and contagion views, p	
See Marry			they might show beliefs and behaviours informed to	
	contamination and by magical contagion	theories. E.g., EIDs are caused by ov	erpopulation, pollution, genetic experiments, etc.	
here i				
Real Property in the local division of the l				
Stakeholder	Health care Professionals			
segments	Patients / Users			
potentially affected				
Digital Profiles	Any in particular			
Compliance types	Persuaded			
	Obedient			
	Conformists			
Magical Thinking	Any in particular			1
Model of Outbreak				
Foundational Myths	THE SCAPEGOAT			
	THE BRIGADA			
Exemplar Narratives	David Wu, The Plague City: SARS in Toron	24		-

Hermann Hesse, Narcissus and Goldmund

ome The Too	lbox Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
		-		-
				_
ealthy & Indep				
HEALTHY & INDEPEN				
			ly involved in their own health, but scarcely interes ir value. They are circumspect when they need to de	
Contraction in			collective in nature. Both brend advocates and mille	
CURCUMIA			nation and magical contagion forms of thinking can an	metEe
VIII n Con	E.g., EIDs are not a risk for people livin	ig in amuent countries or beionging to	amuent groups	
Stakeholder	Social Media Influencers			
egments potentially				
affected	Specialised Press			
Digital Profiles	Brand Advocates			
	Millennials			
Compliance types	Persuaded			
Magical Thinking	Free riders Any in particular			_
Model of Outbreak	way to parocear.			
Foundational Myths	THE PLAGUE-SPREADER			
	THE BRIGADA			
Exemplar Narratives	The Plague Inc. evolved			
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Exemplar Narratives	The Plague Inc. evolved	od Death		
Exemplar Narratives	The Plague Inc. evolved	od Death		
	The Plague Inc. evolved Edgar Alan Poe, The Masque of the Re	od Death		
trenght & Hono	The Plague Inc. evolved Edgar Alan Poe, The Masque of the Re Uf			
trenght & Hono	The Plague Inc. evolved Edgar Alan Poe, The Masque of the Re UI R The group Strength & Honour is the gr	oup of those who like the Decide, Anni	ounce; Defend (DAD) model of health communication.	
trenght & Hono	The Plague Inc. evolved Edgar Alan Poe, The Masque of the Re UF R The group Strength & Honour is the gr view outbreak prevention as a war a	oup of those who like the Decide, Anne gainst infectious agents. Both individ	uals and institutions can belong to this group. Journal	alists,
trenght & Hono	The Plague Inc. evolved Edgar Alan Poe, The Masque of the Re UF A The group Strength & Honour is the gr view outbreak prevention as a war a health care professionals and also so	oup of those who like the Decide, Ann gainst infectious agents. Both individ me patients might prefer DAD to part	uals and institutions can belong to this group. Journ Scipatory communication styles. In fact, DAD patern	alists, alistic
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trengint & Honor STRENGTH & HONOU Traiter Threater Bols And Anno Anno Anno Stakeholder segments socientially affected Digital Profiles Compliance Types Megical Thinking	The Plague Inc. evolved Edgar Alan Poe, The Masque of the Re UF The group Strength & Honour is the gr view outbreak prevention as a war a health care professionals and also so approach can be felt reassuring. How and magical contagion images can en The world needs order. National Health Institutes and Nation Journalists Health care Professionals Patients / Users How-to-video users Obedient	roup of those who like the Decide, Ann gainst infectious agents. Both individ me patients might prefer DAD to par to-video users are not rare in this gro herge, E.g., EIDs are due to globalisatio	uals and institutions can belong to this group. Journ Scipatory communication styles. In fact, DAD patern up. When people in this group regress, both contamin	alists, alistic ation
trengint & Honor strength & Honor Trever et al. The ver et al. Solution of the verses Wegical Thinking Wodel of Outbreak	The Plague Inc. evolved Edgar Alan Poe, The Masque of the Re UF A The group Strength & Honour is the gr view outbreak prevention as a war a health care professionals and also so approach can be felt reassuring. How and magical contagion images can em The world needs order. National Health Institutes and Nation Journalists Health care Professionals Patients / Users How-to-video users Obedient Conformists	roup of those who like the Decide, Ann gainst infectious agents. Both individ me patients might prefer DAD to par to-video users are not rare in this gro herge, E.g., EIDs are due to globalisatio	uals and institutions can belong to this group. Journ Scipatory communication styles. In fact, DAD patern up. When people in this group regress, both contamin	alists, alistic ation
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Exemplar Narratives	The Plague Inc. evolved Edgar Alan Poe, The Masque of the Re UF The group Strength & Honour is the gr view outbreak prevention as a war a health care professionals and also so approach can be felt reassuring. How and magical contagion images can en The world needs order. National Health Institutes and Nation Journalists Health care Professionals Patients / Users How-to-video users Obedient Conformists Any in particular THE POSSESSION	roup of those who like the Decide, Ann gainst infectious agents. Both individ me patients might prefer DAD to par to-video users are not rare in this gro herge, E.g., EIDs are due to globalisatio al / Regional Stakeholders	uals and institutions can belong to this group. Journ Scipatory communication styles. In fact, DAD patern up. When people in this group regress, both contamin	alists, alistic ation

raditionalist & Cau				_
THE PHARMACENTICAL INDUSTRY SOCC. NOT CALLET COURS THEY COREATE CUSTOM HAS	The group Traditionalist & Cautious in and must be carefully examined befor Some institutions might show behavio of the precautionary principle); actu- profiles can belong to the group. Wh	e being accepted. Patients, consu ours apparently dictated by the sa ally, institutions are more often r en people in this group regress, t	ation and believe that novelty is always potentially di imers and also health professionals, may belong to th ime motivations of the group (e.g., an exasperate sp uled by blame avoidance than true traditionalism. soth contamination and magical contagion forms of ind by manipulated food, that weaken the immune s	nis group oplicatio All digiti I thinkin
Stakeholder segments potentially affected	Health care Professionals Patients / Concumans Civil Society (NGCs, charities, trade in	wons, professional associations, e	te.)	
Digital Profiles	Any in particular			
Compliance types	Obediant Conformists Denialist and Avoider			
Magical Thinking Model of Outbreak	Any in particular			
Foundational Myths	THE LAST MAN THE FLOOD			
Exemplar Narratives	Eugène Ionesco, Rhinoceros John Christopher, The Death of Grass			

nature's station of the second	Hesitant & Naturalist is the group including people distrusting, or at least hesitating to use, "official medicine". They are supporters of alternative medicine. Within conventional scientific approaches, they strongly support one health and ecological approaches, which are perceived chiefly in moral and symbolic ways. Institutions are hardly dominated by this perspective, which is instead present among patients and civil society organizations. Among digital profiles, digital moms are more likely to be Hesitant & Naturalist. This group tends to perceive the world according to the categories punity/impurity. They tend to interpret infections through the notion of contamination, adjusted to various contexts. E.g., EIDs are due to the contamination of the environment by GMOs and genetically modified animals.
Stakeholder segments potentially affected	Social Media Influencers Patients / Users Civil Society (NGOs, charities, trade unions, professional associations, etc.)
Digital Profiles	Digital Moms
Compliance types	III-informed Denialist and avoider
Magical Thinking Model of Outbreak	Contamination
Foundational Myths	THE PLAGUE-SPREADER THE SCAPEGOAT
Exemplar Narratives	Stephen King, Cell Gabriel García Márquez, One Hundred Years of Solitude

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	The Toolbox	Communication Model	Nametive Message Map	Periodic Table of Epidemic Narratives	Mo
-	-		-		-
-					-
	nt & Scared				-
Lennan	andemic threat	chiefly dictated by fear. The group general press, which might find mo and paranoid reactions. It is not rar in this group tend to regress very r	includes health institutions when do we profitable to sell fear rather than e that digital mores, as well as how-	ho show avoidant behaviours, and whose decisions minated by blame avoidance mechanisms; specialise rationality; patients and consumers; often showing p to-video users; belong to this group. People and instit ooth on contamination and on magical contagion. E.g who bring us their diseases.	id and phobic utions
Stakeho	Ader segments	National Health Institutes and Nat	ional / Regional Stakeholders		
	ally affected	Specialized and General Press Patients / Consumers	and a large set of the set of the		
Digital P	rofiles	How-to-video users Digital Moms			
Complia	ince types	ill-informed Denialist and avoider			
Magical of Outb	Thinking Model	Conformist Any in particular			
	tional Myths	THE PLAGUE-SPREADER			
Exempla	ar Narratives	Friedrich W. Murnau, Nosferatu Nicolas Poussin, The Plague at Ash	dod		
aranoi	ar Narratives id & Cynic	Friedrich W. Murnau, Nosferatu	dad		
Parano	Id & Cynic	Friedrich W. Murnau, Nosferatu Nicolas Poussin, The Plague at Ash Paranoid & Cynic is the group of the ew over-powerful industrial actor batients, and in the civil society. It o tow-to-video users and Millennial upporters. To interpret infectious	ose who are convinced that moder a (e.g., big pharma). This group is an also be represented among poli s might belong to this group, which	a medicine is chiefly market-driven and is dominate present among social influencers (including celeb cymakers, politicians, and journalists. Among digital a also includes anti-vaxier activists and conspiracy t magical contagionist views, chiefly in their paranoid ; germs.	rities), users, theory
arano PARANO MONS Internet Stakehol	id & Cynic ID & CYNIC SANTO S IN G HORE AND Ger segments S bly sifected B	Friedrich W. Murnau, Nosferatu Nicolas Poussin, The Plague at Ash Paranoid & Cynic is the group of the ew over-powerful industrial actor batients, and in the civil society. It o tow-to-video users and Millennial upporters. To interpret infectious	se who are convinced that moder s (e.g., big pharma). This group is an also be represented among poli s might belong to this group, which butbreak, this group tend to adopt	present among social influencers (including celeb cymakers, politicians, and journalists. Among digital n also includes anti-vaxxer activists and conspiracy i magical contagionist views, chiefly in their paranoid	rities), users, theory
arano PARANO MONS Internet Stakehol	id & Cynic Id & Cynic SANTO SANTO Ider segments Ider segments Ity affected Ity affected	Friedrich W. Murnau, Notferatu Nicolas Poussin, The Plague at Ash Paranold & Cynic Is the group of thi ew over-powerful industrial actor patients, and in the civil society. It o tow-to-video users and Millennial supporters. To interpret infectious ise, EIDs originated by - malicious social Media Influencers Patients / Users	se who are convinced that moder s (e.g., big pharma). This group is an also be represented among poli s might belong to this group, which butbreak, this group tend to adopt	present among social influencers (including celeb cymakers, politicians, and journalists. Among digital n also includes anti-vaxxer activists and conspiracy i magical contagionist views, chiefly in their paranoid	rities), users, theory
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			UDIENCE PROFILE CO			-
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Messaj	te Mapping				
larther dev ipproach i if the aud	eloped (Crivello V . 3 COMPARE goalis to cr ence. To be sure, an	eate a sequence of messages, w experienced communicator, W	lo V., 2016). We have cross-fertilise with can mobilize the despest amotio to masters nervative mussage motio	In the 1980s by Covello (Covello & Alen, 1980), an of conventions) mostage mapping with the nerrativ and reportant and reframe the emotional perception infology, will not protably need the map. However, hithly exploit the map to be guided along the whol	n 1
P95815 TB	e map a laiped on se	fundamentil theps, [1] Recon; (2) Opening, (3) Malching; (4) MtdB4.	Ung: (1) Universit; (6) Charang -	
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igid guidel	nes, rather, shay have webs of recarings. In	chiefly an implication el value. N	errative mustages are inherently thiss	further stones. These features must not be taken a smalls; they are purposely created to convey numer costume []arroc], and estential to process successfu	9
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The Canovaccio

The "Canovaccio" bridges between Recon and content creation. The "Canovaccio" aims to answer an obvious problem posed by narrative messages, say, usually health communicators and officers are not – and are not expected to become – professional storytellers. It is rare that non-professional storytellers succeed in creating good narrations; they tend to provide just "embellished" facts or simple allegoric accounts, which often ring false. This is not a minor problem, because the poor narration is not only ineffective, but it can be even counterproductive. The "Canovaccio" aims to meets this problem by providing health communicators and officers with a database of stories from which they can take inspiration, or that they can directly use for their specific purposes.

In the history of theatre, the convoccio was a scenario used by commedia dell'arte players in the XVI and XVII centuries. It consisted of concise descriptions of typical characters, acts and scenes, including standard jokes and gags (the *lazt*). Based on the convoccio, actors then improvised on stage, apparently only thanks to their creativity, actually following established and experimented schemes (Rudlin J., 1994). Likewise, health communicators and officers might create their canoscic for health communication. An ideal health "canovaccio" includes a vast collection of stories, scenes, characters elicited from a number of narrative sources, ranging from high to low culture, embracing novels, movies, videogames, music, comics, websites, blogs, etc., also according to communicators' preferences and competencies (e.g., someone who totally ignores Greek mythology should avoid collecting. Greek myths). The golden rule is that health communicators tailor their canovaccio on themselves, including materials that they know how to handle. For this reason, it is helpful that canovaccio are shared by many individuals and teams, as it happened in the commedia dell'arte. Shared canovaccio are richer than individual ones, and they allow adopting a pluralistic and multicultural approach, mitigating the risk of cultural parochalism and biases.

It is paramount that the "canovaccio" also comprises real-life stories, which can be found on the internet, on printed media, on television, or, simply, by listening to people. The main problem with real stories is that we rarely perceive them. They are a sort of background hoise that we do not notice any longer. Artistic and literary stories have often the power to awaken our sensitivity for narratives, enabling us to see stories in real life. Artistic and literary narrations collected in the canovaccio are not only a tool in themselves, but they are also a probe to search real-life stories.

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*impo on chi instrut 1) Edu	irtant risk perception, a Ildren, morality, origin	utrage and fear factors such as trust, and familiarity" (Covello V., 2002 or additional and more important, g	benefits, control, voluntariness, drea	d, fairness, reversibility, catastrophic potential, effects s is, thus, wider than only informing. Information is	
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6. Narrative Message Map

This section is further articulated in four subsections, (1) Message Map Methodology; (2) Epidemic Imaginary; (3) Communication Framework; (4) Narrative Messages.



Each subsection includes further levels, providing internal links with relevant pages of the toolbox, videos, downloadable documents and external links. Overall this section is a gate to enter the world of message maps and narrative messages, therefore it plays a pivotal role in the toolbox

6.1 Message Map Methodology

The subsection Message Map Methodology is further structured in three sections, (1) references; (2) templates; (3) methodology.



6.1.1 References

The section References provides the fundamental references for message mapping and relevant examples of maps, this section is organised in twelve subsections.

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6.1.2 Templates

The section Templates provides a link to download the original twelve message map templates for risk communication as originally designed by Covello (Covello 2002) (Covello 2009).

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Message Map Help, Rules and Guidelines

Message Map Field Help

Question or Concern

Specific questions and concerns are identified in Step Two of the message mapping process – "Identify stakeholder questions and concerns." Only one question is addressed per message map. return to message map

Map Number

Message map number is for identification, storage, and retrieval of the map. Use a consistent identification scheme in order to find maps quickly during an event.

return to message map

Date

The date cell is for classification purposes. Many organizations use this area to note the date of the last revision to the map during the development process. Others use this field to note when a map was completed and stored for later retrieval.

return to message map

Opening Statement

The opening statement is used to express empathy. Use the opening statement to acknowledge a tragedy, express commonality, or convey that you wish to answer the question, but <u>can not</u>. An opening statement is not always used and is not required to complete a message map. You may not know what the opening statement should be until you hear how the specific question is asked.

Message Map Field Help

Risk, High Concern Issue, or Subject

Risk, High Concern Issue, or Subject is usually 1 to 3 words that id the concern. This usually refers to the overarching problem statement. Many organizations use this categorization area to find maps quickly during an event.

return to message map

Category

Category is for identification of the message map. This usually refers to the question or concern. Many organizations use this categorization area to find maps quickly during an event.

return to message map

Stakeholder

Specific stakeholders are identified in Step One of the message mapping process – "Identify stakeholders for specified emergency or disaster events." Usually, only one stakeholder is addressed per message map.

return to message map

Likely Conditions For Use

This field identifies possible scenarios where you may find this completed map useful.

return to message map

Key Messages

Key messages are the main points that you want to convey with the message map. In high-stress situations, a typical message map, with a few exceptions, will have three key messages. In low stress situations, a message map may have seven key messages.

return to message map

Message Map Field Help

Supporting Information

Supporting information/facts provide reinforcement and credibility to your key messages. These may be quotes, statistics, images, or even stories.

return to message map

GUARANTEE TEMPLATE Use when a ked to guara or outcome an event Steps

- Indicate that the question is about the future
- Indicate that the past and the present help predict the future •

 Bridge to known facts, processes or actions
 Example: (1) "You've asked me for a guarantee, to promise something about the future; (2) The best way I know to talk about the future is to talk about what we know from the past and the present; (3) And what we know is..." OR "What I can guarantee [assure; promise; tell

you] is...^

YES/NO TEMPLATE

- Use when asked a yes/no question that cannot be answered yes or no Steps Indicate you have been asked a yes/no
- question Indicate it would be difficult to answer
- . the auestion ves or no
- Indicate why it would be difficult to answer the question yes or no
- Respond to the underlying concern

IDK (I DON'T KNOW) TEMPLATE when you don't know, can't answer, or aren't best source Use

- Steps Repeat the question (without negatives) Say "I wish I could answer that"; or "My ability to answer is limited by ...;" or "I don't know" .
- Say why you can't answer
 Provide a follow up with a deadline
- Provide a tollow up with a deadline
 Bridge to what you can say
 Example: (1) "You've asked me about...; (2)
 I wish I could answer;; (3) We're still looking into it; (4) I expect to be able to tell you more by ...; (5) What I can tell you is..."
- FALSE ALLEGATION TEMPLATE

- Use when responding to a hostile question, false allegation, or criticism Steps Repeat/paraphrase the question without repeating the negative; repeat instead the opposite; the underlying value or concern, or use more neutral language Indicate the issue is important
- Indicate the issue is important
 Indicate what you have done, are doing, or will do to address the issue
 Example: (1) "You've raised a serious question about" xr", (2) "x" is important to me; (3) We are doing the following to
- address"x."

important items or points first and last RULE OF 3 TEMPLATE

27/9/3 TEMPLATE

Use when responding to any high stress or emotionally charged question

Recommendation: Be brief and concise in your first response: no more than 27

words, 9 seconds, and 3 messages

PRIMACY/RECENCY TEMPLATE Use when responding to any high stress or emotionally charged question

Recommendation: Provide the most

Use when responding to any high stress or emotionally charged question Recommendation: Provide no more than three messages, ideas, or points at a time

Example: My three main points are: (1) ...; (2)....; and (3)....

MESSAGE MAP

TEMPLATE: Basic 27/9/3

Question or Concern:				2	Мар	Number: Date:	2
Insert Question or Concern here.					Inser	Map Number here. Insert Date here.	
Risk, High Concern Issue, or Subject:	Cat	egory:	2	Stakeholder:		Likely Conditions Enr Use:	2
Insert Risk, High Concern Issue, or Subject here.	Inse	ert Category here.		Insert Stakeholder here.		Insert Likely Conditions Eor Use here.	
Opening Statement:							2
Insert Opening Statement here.							
Key Message 1:	2	Key Message 2:			2	Key Message 3:	2
Insert Key Message 1 here.		Insert Key Message	2 here			Insert Key Message 3 here.	
Supporting Information 1-1:	2	Supporting Informa	ation 2	-l:	2	Supporting Information 3-1:	2
Insert Supporting Information 1-1 here.		Insert Supporting Inf	formati	on 2-1 here.		Insert Supporting Information 3-1 here.	
Supporting Information 1-2:	2	Supporting Informa	ation 2	-2:	2	Supporting Information 3-2:	2
Insert Supporting Information 1-2 here.		Insert Supporting Inf	formati	on 2-2 here.		Insert Supporting Information 3-2 here.	
Supporting Information 1-3:	2	Supporting Informa	ation 2	-3:	2	Supporting Information 3-3:	2
Insert Supporting Information 1-3 here.		Insert Supporting Inf	formati	on 2-3 here.		Insert Supporting Information 3-3 here.	

Risk Communication Templates* Use these templates to create effective messages in high concern, high stress situations CCO TEMPLATE Use when asked a question with high-	BRIDGING TEMPLATES Use when you want to return to your key points or redirect the communication 1. "And what's most important to know is "	1N=3P TEMPLATE (ONE NEGATIVE EQUALS THREE POSITIVES) /BAD NEWS TEMPLATE Use when breaking bad news or stating a negative
emotion Steps: Compassion Conviction Optimism Example: (1) "I am very sorry to hear about; (2) I believe that;(3) In the	 "However, what is more important to look at is" "However, the real issue here is" "And what this all means is" "And what's most important to remember is" "With this in mind, if we look at the bigger picture" 	Recommendation: Balance one bad news or negative message with a least three or more positive, constructive, or solution oriented messages
future, I believe that "WHAT IF" TEMPLATE Use when asked a low probability "what if, what might happen" question Steps: • Repeat the question (without negatives)	 "With this in mind, if we take a look back" "If we take a broader perspective," "If we look at the big picture" "It we look at the big picture" "Let me put all this in perspective by saying" 	AGL-4 TEMPLATE (AVERAGE GRADE LEVEL MINUS FOUR TEMPLATE) Use when responding to any high stress or emotionally charged question
 Repeat the question (without negatives) Bridge to "what is" State what you know factually Example: (1) "You've asked me what might happen if; (2) I believe there is value to talk about what is, what we know now; (3) And what we know is" 	 "What all this information tells me is" "Before we continue, let me take a step back and repeat that" "Before we continue, let me emphasize that" "This is an important point because" "What this all boils down to is" 	Recommendation: Provide information at four or more grade levels below the average grade level of the audience.
*Source: Dr. Vincent T. Covello , Center for Risk Communication, Copyright 2007		

MESSAGE MAP

TEMPLATE: Bad News

Question or Concern:			? Map Numb	en	2 Date:	2	
Insert Question or Concern here.			Insert Map 1	Numbe	r here. Insert Date here.		
Risk, High Concern Issue, or Subject:	2 Category:	2	Stakeholder: ?	ikely.	Conditions For Use:		
Insert Risk, High Concern Issue, or Subject	t here. Insert Category here.		Insert Stakeholder here.	nsert L	ikely Conditions For Use here.		
Opening Statement:						2	
Insert Opening Statement here.							
Key Message I: 2	Key Message 2:	2	Key Message 3:	2	Key Message 4:	2	
Insert Key Message 1 here – a message that conveys the situation or bad news.	Insert Key Message 2 here – a messa that is positive.	age	Insert Key Message 3 here – a mess that is positive.	age	Insert Key Message 4 here – a mess that is positive.	age	
Supporting Information 1-1:	Supporting Information 2-1:	2	Supporting Information 3-1:	2	Supporting Information 4-1:	2	
Insert Supporting Information 1-1 here.	Insert Supporting Information 2-1 her	e.	Insert Supporting Information 3-1 her	e.	Insert Supporting Information 4-1 he	re.	
Supporting Information 1-2:	Supporting Information 2-2:	2	Supporting Information 3-2:	2	Supporting Information 4-2:	2	
Insert Supporting Information 1-2 here.	Insert Supporting Information 2-2 her	e.	Insert Supporting Information 3-2 her	e.	Insert Supporting Information 4-2 he	re.	
Supporting Information 1-3:	Supporting Information 2-3:	2	Supporting Information 3-3:	2	Supporting Information 4-3:	2	
Insert Supporting Information 1-3 here.	Insert Supporting Information 2-3 her	e.	Insert Supporting Information 3-3 her	e.	Insert Supporting Information 4-3 he	re.	

6.1.3 Methodology

The section Message Map Methodology provides links with a slide entirely devoted to the technique of Message Mapping, processes, users, audience, messages and methods









Message review process [see handout] Within team Among teams In organization but outside team



...

Be sure to cross-check maps with other documents under development

Decide who else should have your message maps before you begin delivering messages

Conduct audience research with draft messages

Appropriateness Comprehension Gaps TEAM ACTION: MESSAGE MAP DEVELOPMENT #1

alempane.

Key Message 1	Key Message 2	Key Message 3
Most important message here.	Least important message here.	Second most important message here.
Supporting Information	Supporting	Supporting Information
1-1	Information 2-1	3-1
Supporting information should add detail to overarching and key messages.		
Supporting information	Supporting	Supporting Information
1-2	Information 2-2	3-2
Supporting Information	Supporting	Supporting Information
1-3	Information 2-3	3-3

DRAFT OVERARCHING MESSAGE MAP FOR (INSERT TOPIC HERE)

 Title of Map (Should refer to topic of map and also timing, e.g. Pandemic Flu Pre-Event Messages, Map #1

 <u>Stakeholder</u>: General Public (could be any group, e.g., policymakers, media)

· Question or Concern: (e.g., what should we know about pandemic influenza as of 3/16/05?)

· Overarching Messages (short form):

 This message should contain three sentences and three related concepts at most. It should requin roughly 27 words. It should be stated as simply as possible.



- Fact Sheets [see handout]
 - Title: stakeholder concern
 - ¶ 1: Introduction = 3 key messages
 - ¶ 2: Key message 1 + its supporting facts
 - ¶ 3: Key message 2 + its supporting facts
 - ¶ 4: Key message 3 + its supporting facts
 - ¶ 5 Conclusion = repeat 3 key messages
 - Include visual aids



- Title of the map: [insert]
 - Pandemic Influenza, pre-event messages
- Stakeholders (or target audience): [insert]
 - Teams identify a target audience for map exercise
- Question or concern: [group brainstorm]
 - Discuss data sources for audience questions or concerns
 - What questions are predictable?
 - Where can you get data to help identify trends?
 - Primary research? Secondary research?
 - SME's, role playing
 - Sort concerns into manageable chunks (see handout)
 - Concerns become questions that you need to prepare answers for



- Overarching messages
 - · Function as a sound bite
 - Written so that it can be easily understood (U.S. 6-8th grade reading level)
 - Readability testing



- 3 Key Messages
 - 27 words (9 seconds) total
 - Order of importance: 1/3/2
 - 4 grade levels below audience average
 - Avoid unnecessary absolutes
 - Avoid unnecessary negative terms, images
 - Each can stand alone

[Teams write 3 key messages, 1-3-2]









 TV talk show, newspaper feature article

3 key messages

- Key message 1 with its supporting facts
- Key message 2 with its supporting facts
- Key message 3 with its supporting facts
- Conclude with 3 key messages
- Use "signposting"



Title panel: stakeholder concern

- 3 panels
- Each with 1 key message and its 3 supporting facts
- Handouts on table below panels



Maximum 3 speakers Maximum 20 minutes <u>total</u> Maximum 3 key messages

 With supporting data

6.2 Epidemic Imaginary

The section Epidemic Imaginaries provides an overview of the notion of epidemic imaginaries and its application to the COMPARE Project. Given that it represents one of the main features of COMPARE WP10 approach to health and risk communication, as well as the basis for narrative communication and narrative message mapping, it deserves a more-in-depth description and justification.

The social imaginary¹ is the "enabling but not fully explicable symbolic matrix within which a people imagine and act as world-making collective agents" (Gaonkar 2002, 1). The social imaginary refers to the collective web of images, through which each society represents itself (Castoriadis 1975/1987). The social imaginary is a specific form of social representation. The concept of "social representation" is a wider notion which describes "structured contents that serve various functions for the communications systems; and their embodiment in different modes and mediums" (Sammut, Andreouli, et al. 2015, 7). This notion, which was first proposed by Moscovici (Moscovici 1961 /1976), (Moscovici 1988), is likely to be "one of the most important recent developments in European social psychology" (Billig, 1991, p. 57).² The social imaginary is "the imaging dimension in a social representation" (Arruda 2015, 130). Arjun Appadurai (Appadurai 1996) argues that the imaginary dimension is paramount in globalised, digital, societies, "No longer mere fantasy (...), no longer simple escape (...), no longer elite pastime (...) and no longer mere contemplation (...), the imagination (...) is now central to all forms of agency, is itself a social fact, and is the key component of the new global order" (33). Archetypes, myths, stories are integral to the digital world. In his seminal essay on Orality and Literacy, Walter Ong (Ong 1982) speaks of "second orality" or "electronic orality" (Ong, 1982). "This new orality has striking resemblances to the old in its participatory mystique, its fostering of a communal sense, its concentration on the present moment, and even its use of formulas" (Ong 1982, 133). As in oral cultures, today "people are always in context, they live in a kind of extended present, even when referring to events that occurred in the past" (deKerckhove and Viseu 2004, 5). The expression "digital unconscious" has been used by various scholars (Monk 1998), (deKerckhove 1995), (Poster 2006) (Liu 2010), (Boemio 2013), (Meckien 2013), (Brock Schafer 2016) to describe the Internet as a vast, interconnected, repository of fantasies, images, imaginaries, identities, and memories. The term "digital imaginaries" has also been used to describe "social constructions consisting of a set of cultural notions, predicaments, and anxieties expressed in and circulated by, digital media" (Nardi and Kow 2010).

One the most influential scholar who investigated, and pioneered research on, the notion of social imaginary (that he calls "collective") was French professor of Sociology and Anthropology, Gilbert Durand, who wrote in 1960 a seminal book on "*Les Structures anthropologiques de l'imaginaire*" (G. Durand 1960). Durand thinks that initial formations of the collective imaginary are simple patterns based on polar oppositions. From those general archetypes originate more complex metaphorical narratives, built around specific themes. Then, progressively, we create larger and larger families of archetypes and symbols, from which we draw myths, legends, tales, collective rituals; ultimately, this matrix contributes to generating artistic (i.e., fine art, music, literature, theatre, film, and so) creations. Thus, social imaginaries include collective productions - e.g., myths, legends, tales, rituals, ceremonies, traditions, folklore - as well as artistic products. As long as artistic products "speak" to other people beyond their

¹ Some authors **Invalid source specified.**, (Bachelard 1976), (Morin 1956/ 1985) use the expression "collective imaginary"; following the majority of other ^{authors} (Castoriadis 1975/ 1987), (Taylor 1989), (Arruda 2015), ¹ will use the expression "social imaginary", which emphasises the societal dimension of the imaginary.

² Eventually, Moscovici owes mostly to Durkheim the notion of collective representation.

authors, they are also communications systems and are used by social groups to figure their social spaces and express themselves. The arts provide symbols and motifs to objectify human experience; they give people "the words to say it," providing figuration, symbols, narratives, which mirror and fulfil inner fears, anger, fantasies, aims, wishes, and hopes. Artistic forms reveal social groups and cultures (in the anthropological, not aesthetic sense). Also, popular - "low" - cultural artefacts must be considered fullyfledged symbolic representations, part of social imaginaries. B-movies, comics, popular fiction, pop music, applied arts, and so, elucidate cultures as well as "high" cultural products (Eco 2000), (Grazian 2010), (Storey 2015). To scholars of social imaginaries, Netflix series have the same dignity of Fellini's movies (Fruoco, Rando-Martin and Laimé 2017). Social imaginaries are a well-established field of studies in France (Bachelard 1976), (Morin 1956/ 1985), (G. Durand 1964), (Corbin 1964), (Castoriadis 1975/ 1987), (Callois 1974), (Ricoeur, Lectures on Ideology and Utopia 1986), (Maffesoli 1993), (Chelebourg 2000), (Fédier 2009), (Wunenburger 2003); in Latin America (Baczko 1991), (Barbier 1994), (Canclini 1997), (Augras 2000), (Arruda 2015); and, recently, also in the Anglo-American area (Jameson 1981), (Taylor 1989), (Burnet 1995), (Bassok 2012), (Sammut, Andreouli, et al. 2015). They have been explored from many different disciplinary perspectives (W. Mitchell 1986), (Le Goff 1988), (Canclini 1997), (Gaonkar 2002), (Kahn 2001), (Monneyron and Thomas 2002), (Arruda 2015), (Flichy 2007), but, to our best knowledge, they have never been studied in connection with health communication, misinformation, and infectious outbreaks.

Mainstream approaches consider misinformation caused by a few malicious agents, bending of the truth, and a mass of uneducated and ignorant people. Misinformation (incorrect information) would then depend on "disinformation" (intentionally false information) and lack of correct information and scientific literacy. Consequently, interventions have focused on operations for contrasting malicious sources and informing and educating the larger public. Yet, notwithstanding health institution worldwide efforts, misinformation shows no signs of abating; indeed, it is increasing everywhere (WHO 2019) (Kraft, Lodge and Taber 2015) (National Academies of Sciences, Engineering, and Medicine 2015), in the U.S. (Schaffer 2019), (Wilson 2019), in Africa (Powell 2019), in Europe (WHO 2019), (WHO 2018), in Asia (WHO 2019), (Tobin 2019), (Holliani Cahya 2019). People ignorance and gullibility are not, or are only to a small extent, the explanation of the prevalence of misinformation (Brendan and Reifler 2015). Indeed, growing research (Brewer, et al. 2007), (Clay 2017), (Lewandowsky, Gignac and Oberauer 2013), (Hornsey, Harris and Fielding 2018), (Lorini, Santomauro and Donzellini 2018), (Larson, de Figueiredo, et al. 2016), (Auld 2003) suggests that often those who believe in, and spread, misinformation belong to scientifically educated and informed groups.

Epidemics are diseases that "falls upon people" (in Greek, *epi* means "upon or above," and *demos* "people"). They strike indiscriminately and are episodic and unpredictable, *"the invisible pathogen is an embodiment of the unknown, existing in intimate contact with us, yet beyond the boundaries of our senses"* (Verran and Aldana Reyes 2018). As a result, epidemics are highly visible and much more frightening, and thus have a unique cultural salience (Rosenberg 2008). Memories of previous epidemics are expressed in various cultural representations. They are depicted in many historical monuments and architectural creations throughout the world, in paintings, in sculptures, in engravings, and photography, and rendered through music and dancing. They are also present in literature, as well as in art, theatre, and cinema (Vidal, Tibayrenc and Gonzalez 2007). Epidemics, as they are articulated in all these artistic expressions, symbolize our sense of helplessness in the face of uncertainty and death, as well as the arbitrary nature of life and death themselves. They represent society's internal chaos, the social, political, even theological ills (Price-Smith 2008). Epidemic social imaginaries refer thus to collective images of epidemics. No imaginary exists in isolation, if forms part of a network of meanings, a reticulation of interlinked significances. Just as light placed within a circle of mirrors is reflected in each mirror and

thence re-reflected into every other mirror, so similarly the meanings contained in each imaginary are reflected in every other imaginary; these imaginary reflect back and forth to form a mesh-like pattern that we call "social" or "collective" epidemic imaginary. We argue that the knowledge of this epidemic imaginary is paramount to understand misinformation and health and risk communication.

The history of epidemics as a symbolic motif starts with the oldest written texts we know. There is a sort of universal mental representation of the scourge, that extends from the Bible, Homer, Thucydides, and Lucretius, to Defoe, Rubens, Poussin, Manzoni, Wagner, and Camus. The collective experience of epidemics seems to be clustered into a core of representations destined to recur each time a new outbreak emerges. Studies on narrative representations of epidemics are mainstream, in the literature and in the arts (Crawfurd 1914), (Keys 1944), (Dubos 1952), (Penzer 1952), (Reece 1953), (Vanderbilt 1968), (Brody 1974), (Steel 1981), (Lerner 1981), (Bashford and Hooker 2001), and in the cinema (Pappas, et al. 2003), (Vidal, Tibayrenc and Gonzalez 2007), (Burns and Bhella 2017), but they have been often confined in the areas of literary and artistic criticisms and the history of medicine. New approaches, aware of Foucault's teaching, began to appear only in the 1980s. AIDS epidemics opened a new wave of studies on AIDS itself (Swenson 1988), (Sontag 1989), (Brandt 1991), (Palmer 1997), (Erni 2006), epidemics (DeAlmeida 1991), (Cipolla 1992), (Anselment 1995), (Fabre 1998), (Otis 1999), plague (Goodman 1985), (Stephanson 1987), (Calvi 1989), (Fass-Leavy 1993), (Currarini 1995), (Boeckl 2000), (Litsios 2001). A second wave of studies was heralded by SARS in 2002. Prevalent themes included globalisation, contagion, quarantine (Christensen 2005), (Totaro 2005), (P. Wald 2008), (Gilman 2009), (Adam et Rovel-Marzouk 2012), (Bezio 2013), (Ding 2014), (J. Lee 2014), (P. Mitchell 2014), (Nixon and Servitje 2016), emotional contagion and fear (Alcabes 2009), (Delaurenti 2016), movies and media (Cooke 2009), (Levina 2015), (Abeysinghe 2016), (Gesser-Edelsburg and Shir-Raz 2016), science fiction and horror stories (DePaolo 2014), (Groom 2018), zombie epidemic³ (Munz, et al. 2009), (Servitje and Vint 2016), (Comelles 2017), (Lauro 2017), (Serrano 2018). From the early contributions (Crawfurd 1914) to the last ones (Verran and Aldana Reyes 2018), there has been a progressive shift from pure scholarly curiosity, to increasing attention to the symbolic dimension of communicable diseases. The study of contagion as a metaphor has become more and more prevalent (Goodman 1985), (Fass-Leavy 1993), going through the morbid wave of curiosity for zombies (Comelles 2017), (Lauro 2017) and vampirism (White 2000), (Groom 2018). In parallel, there has been increasing attention to categorisation, interpretative grids, typologies. Crawfurd's 1914 "Plague and Pestilence in Literature and Art" was an enjoyable scholarly book (with a subtle analysis of paintings and sculptures), but it was far from any attempt of systematization. On the contrary, many of the last contributions (Fabre 1998), (P. Wald 2008), (Gilman 2009), (Adam et Rovel-Marzouk 2012), (Vidrutiu 2014), (J. Lee 2014), (Gesser-Edelsburg and Shir-Raz 2016), (Verran and Aldana Reyes 2018), try to systematize material, identifying themes, tropes, symbols, and patterns. Wald (2008) distinguished between "outbreak narrative" (the master story of all outbreaks) and its variants that she called "outbreaks narratives." She identified several archetypical motifs, including inter alia the coming plague, the Chinese doctor, the superspreader, the mask, the primitive farms, the airport, the Yellow Peril, the healthy human carrier, Typhoid Mary, the archetypal stranger, Patient Zero, The Last Man, the scapegoat, the ultimate stranger, fence, quarantine, the city, the disease detective, and many others. In 2012, Cristina Vidruțiu, a Romanian researcher, received a Ph.D. in philology with a thesis on "Epidemic imaginary. Historical and metaphorical representations of plague in literature", published in Romanian in 2014 (Vidrutiu 2014). Vidruțiu developed the notion of "pattern of plague representations" structured around six main parameters, epidemics, miasma, contagiousness, quarantine, pest house, and black. Also, she spoke of

³ The <u>Zombie Research Society</u> defines a zombie as 'a relentlessly aggressive human or reanimated human corpse driven by a biologic infection' (Verran and Aldana Reyes 2018)⁻
"the epidemic imaginary," that she defined "first, as a sum of the epidemic representations, secondly as an area ruled by a dynamic of representations very similar to the plague itself." In 2013, within the scope of FP7-IDEAS, the European Research Council awarded the project "Visual Representations of the Third Plague Pandemic" with a 5-year Starting Grant⁴. The project, led by Christos Lynteris, senior lecturer at the Department of Social Anthropology at the University of St Andrews, was hosted by Centre for Research in the Arts, Social Sciences and Humanities (CRASSH) of the University of Cambridge. The project "showed that the emergence of epidemic photography played a pivotal role in the formation of scientific understandings and public perceptions of infectious disease epidemics in the modern world and contributed significantly the formation of the concept of the "pandemic." Dr. Lynteris has investigated aspects of "visual plaque" in China, with a particular focus on Hong Kong and Manchuria. On a global scale, his research engages in comparative analysis, focusing on regimes and practices of epidemic visibility and invisibility" (Department of Social Anthropology 2019). Jon D. Lee (D. Lee 2014) carried out a comprehensive analysis of how stories and myths shape our perception of infectious diseases, focusing on AIDS, SARS, and H1N1 pandemics. Lee proposed a typology of themes including over a hundred entries, ranging from African People to Witchcraft.

TYPOL	OGY OF DISEASE NARRATIVES ((Lee, 2014)
APPROPRIATE ACRONYMS	AIDS, H1N1, SARS
CURES AND PREVENTATIVES	Ace of Spades showing Saddam Hussein's Face; Adjuvants; Alcohol; Altered Sexual Practices; Antibiotics; Bathing and showering; Bleach; Blockading of Villages; Campbell's Chicken Noodle Soup; Communion Bread; Covering the Face; DayQuil; Disinfectants; Energy Fields; Face/Surgical Masks; Firecrackers; Fresh Air; Gloves; Green Bean Soup; Hand Sanitizer; Herbs; Hospital Gowns; Hydrogen Peroxide; Hygiene; IMOD; Kaletta; Money, burning of; Mung Beans; Open Spaces; Overworking Oneself; Plants; Prayer; Public Spitting; Quarantines; Radio Frequencies; Sacramental Wine; Schlenzbath; Sex with a Virgin; Shaking Hands; Smoking; Sorcerers; Sprite; Teas; Thermometers; Tyvek Suits; UV Blood Irradiation; Vaccines; Vinegar; Vitamins; Vodka; Washing Clothes; Washing Hands; Windex; Withdrawal before Orgasm.
JOKES AND HUMOR	Hanford Nuclear Reservation; Hansen's disease; Intersexed Individuals; Theater Artists;
LOCATION AND PLACES	Airports, airplanes; Bo Ky Restaurant; Buses; China Pearl Restaurant; Chinatown; Church's Chicken; Churches; Funeral Parlors; Gas Pumps; Gyms; Hawaii Supermarket; Hong Kong; Hospital; Karaoke bar; Malls; Movie Theaters; Pacific Mall; Payphones; Public Transportation; Robart's Library; Ruby Chinese Restaurant; Sam Woo Barbecue; Subways; Tourist Shops; Villages; Welco Supermarket.
ORIGINS	African People; Airlines Spraying Pesticides; Animals; Badgers; Bats; Bioweapons; Bioterrorism; Birds/poultry; Cats; Chemicals; Chemtrails; Chickens; China/Chinese People; Church's Chicken; CIA; Civet Cats; Cockroaches; Coughing; Dogs; Donald Rumsfeld; Ducks; Ferrets; Fleas; Flies; Garlic Sauce; Geese; Gerbils; God, punishment of, Government Conspiracies; Haitian People; Hemophiliacs; Homosexuals; Horseshoe bat; Hypodermic Needles; Immigrants; Insects; Italian People; Jewish People; Ketchup dispensers; K-Y Jell; Lambs; Middle East; Monkeys; Mosquitos; Mutated Virus; Needles; New World Order; Outer Space; Pangolins; Poor/lower class; Public Water Supply; Raccoon Dogs; Rats; Saddam Hussein; Saliva; Sewage; Sheep; Snakes; Sneezing; Solvents; Superbugs; USA; Vibration Frequencies; Wild Animals; Witchcraft.
SUPERSPREADERS	AIDS, SARS

⁴ https://cordis.europa.eu/project/rcn/110238/factsheet/en

In 2016, Gesser-Edelsburg and Shir-Raz (Gesser-Edelsburg and Shir-Raz 2016) carried out the social dramaturgical analysis (Goffman 1959) of epidemics⁵, building on J.Lule's work (Lule 2001), who proposed a typology of mythic characters in media communication, based on seven archetypes, 1) The Victim; 2) The Scapegoat; 3) The Hero; 4) The Good Mother; 5) The Trickster; 6) The Other World; 7) The Flood.

COMPARE WP10 fundamental theoretical hypothesis is that epidemic imaginaries deeply affect, and model under the radar, health communication and misinformation about epidemics, infectious outbreaks, and vaccination. When sources are not trusted, and people perceive ambiguous and threating situations (Shibutani 1966), when social groups feel "an acute need for security" (Difonzo and Prashant 2007, 20), they resort to stories to make sense of their experience, "a novel, a story, a myth or a tale (...) impart order to the disorder of human perception and the perceived 'chaos of human experience'" (Taleb 2007, 69-70). Stories are symbolic processes of sense-making. Misinformation is received and spreads because people, vis-à-vis epidemic threats, are searching for meaning. Social groups draw from social imaginaries -which are boundless repositories of narratives – the stories that might allow them coping with epidemic unheimlich. I argue that, deliberately or not, misinformation uses social imaginaries to play upon people's fears and emotions. Imaginaries - as rooted they are in deep collective memories (Castoriadis 1975/1987), (Dalal 2011), (Borch 2019) - are powerful instruments of persuasion (Levy 1959), (Packard 1974), (Sarbin 1985), (Venkatesh 1992), (Costa, Hirschman and Holbrook 1993). There is evidence (Robin, et al. 2017), (Clifford and Wendell 2016), (A. Amin, et al. 2017), (Hausman, et al. 2014), (Nyhan and Reifler 2015), (Lorini, F., et al. 2018), (Larson 2018) that archetypes and myths tend to recur in misinformation, conspiracy theories, urban legends; and one of the most effective campaigns carried out by the U.S. Center for Disease Control was 2016 "Zombie Preparedness" (Verran and Aldana Reyes 2018), based on zombie imaginary epidemiology. One of the main flaws of current research has been to focus only on literature and films, at most including media. There is a regrettable lack of studies on other expressive forms as well as non-western cultural productions. Imaginaries can be articulated in different languages, e.g., iconic, linguistic, musical, and so (W. Mitchell 1986), (Bal 1991): "les imaginaires se disent au pluriel, ils se développent à partir de tous les segments de l'expérience humaine, des rites et de croyances" (Wunenburger 2003, 86). People, through the Internet, can easily access an immense, interconnected, repository of fantasies, identities, and memories, expressed in images, voices, music, videos, texts; a novel, holistic, approach is thus needed. COMPARE explores and comparatively analyses all segments of epidemic social imaginaries: collective productions - e.g., myths, legends, tales, rituals, ceremonies, folklore - as well as high and low cultural products. The arts provide symbols and motifs to objectify human experience, offering figurations and narratives, which mirror and fulfil inner fears, anger, wishes, and hopes. The same holds for popular cultural artefacts. B-movies, comics, popular fiction, pop music, applied arts, elucidate social imaginaries as well as "high" cultural products (Eco 2000), (Grazian 2010), (Storey 2015) (Fruoco, Rando-Martin and Laimé 2017). Also, we have collected health information and education material as well as anti-vaxx propaganda.

⁵ Geddes Smith, was one of the first author to carry out a dramaturgical analysis of epidemics (Smith, 1948). He searched for the "formula for epidemics", or "the plot of an epidemic", that he identified in the detective story.



For centuries the communication strategy adopted by authorities dealing with infectious outbreaks was based on initial denial and reassurances – to avoid panic and social turmoil - followed by the adoption of restrictive measures (quarantine, isolation, compulsory hospitalization) and sanctions, arriving till death penalty, for non-compliant individuals (Markel 1988). As the most frightening epidemics of the 19th century, such as smallpox and cholera, regressed, coercive measures became more limited in scope and less frequent (Brown 1997). The increasing recognition that human behaviour critically influences infectious disease transmission led to concentrate efforts on education and prescriptive messages. Recommendations were soon recognized to be insufficient (Galdston 1929), the focus shifted on

persuasion, "health is a saleable commodity", famously wrote in 1927 Herman Bundesen, the president of the American Public Health Association, then adding "every health worker should be a health salesman" (Bundesen 1928). In the 1960s – the period in which infectious diseases looked almost defeated by sanitation, hygiene, better life conditions, vaccines, and antibiotics - epidemic health communication was dominated by behavioural and cognitive theories, like the Health Belief Model (HBM) (Rosenstock 1966) and the Theory of Reasoned Action (Fishbein and Ajzen 1980), which gave birth, in the 1980s, to a most sophisticated version, the Theory of Planned Behaviour (Ajzen 1991).

Everything changed with the 21st century, "old diseases - cholera, plague, and yellow fever - have returned, and new ones have emerged - SARS, pandemic influenza, MERS, Ebola, and Zika" (WHO 2018). AIDS first, and then SARS, heralded this new era. Epidemic health communication was not immediately aware of the need of a paradigm shift, traditional approaches – based on the concepts that (1) the only "enemy" is the disease, (2) the right course of action is obvious, and (3) the expertise will not be questioned – were mainstream still for a long period. To be sure, new models were also developed, they chiefly draw from crisis management theory such as the Three-Stage Model (Ray 1999) and Fink's Four-Stage Cycle (Fink 1986). They were, however, still structured in linear, hierarchic terms, downplaying cultural aspects. Few models of crisis management attempted to address the cultural aspects of crises, such as Turner's Six-Stage Sequence of Failure in Foresight (Turner 1976). Other models have focused on two-way communication between health organizations and the public (Courtney, Cole and Reynolds 2003), and transactive communication (Pechta, Brandenburg and Seeger 2010). SARS crisis led the WHO to develop the WHO Outbreak Communication Guidelines (WHO 2005), advocating five overarching principles for epidemic health communication: trust, announcing early, transparency, listening to the public, and planning. Yet, theoretical efforts did not prevent one of the most blatant communication failures, the 2009 Flu Pandemic. During the 2009 Flu Pandemic, the messages intended for the general population were either misunderstood or did not reach the target audiences; health communication was a major failure and, as a result, population compliance was much lower than expected (ECDC 2012), (Gesser-Edelsburg, Stolero, et al. 2015). The 2009 pandemic was dramatically affected by the convergence between the entertainment industry and the media, which packaged together stories and information in a way that recreated reality in narrative terms (Horney, et al. 2010). The final result was that people felt - to rephrase the title of a famous Baudrillard's essay -that "the 2009 Flu Pandemic did not take place"; the 2009 pandemic was called a "false pandemic" (Schnirring and Roos 2010), scepticism about vaccination increased, health institution credibility decreased (Gesser-Edelsburg, Stolero, et al. 2015). The 2009 Pandemic communication campaign drew attention to the role of the Internet and social media in health communication. Such increasing attention unavoidably drove also to focus on fake news and misinformation. In the 1980s, the Soviets played a key role in spreading fake rumours about the HIV epidemic (Qiu 2017). The disinformation campaign (Operation INFEKTION) was particularly successful, and still today many people (in the West and in Africa) believe that the spread of HIV infection was due to bacteriological experiments conducted by the U.S. Central Intelligence Agency. Today, things are much more complex than in the pre-Internet era. By exploiting online communication, disinformation campaigns can be created and carried out also by small groups of disaffected people and even by single individuals (Tavernise 2016). Anti-vaxx themes have become part of the ordinary conversation on childhood vaccination, and social media is often employed to popularize anti-vaccination theories (Larson 2018), (Schneier 2019). Conspiracy theories are endemic, including urban legends on Emerging Infectious Disease outbreaks caused by germs escaped from military research facilities or deliberately created to reduce the size of the world population (Byford 2015). In 2013 (World EconomicForum 2013) and in 2017 (Wolrd Economic Forum 2017), the World Economic Forum listed online misinformation among the main threats to our society, and in 2016 the Oxford Dictionaries selected post-truth as the word of the year

(The Oxford Dictionaries 2016). "In the post-truth era we don't just have truth and lies, but a third category of ambiguous statements that are not exactly the truth but fall short of a lie. Enhanced truth it might be called" (Keyes 2004). Mainstream health communication has often explained misinformation only in cognitive terms (Gesser-Edelsburg and Shir-Raz 2016). The public has been portrayed "irrational", "emotional", ignorant, scientific illiterate. To this perspective, misinformation (incorrect information) would only, or chiefly, depend on "disinformation" (intentionally false information)⁶ plus lack of correct information and scientific literacy. Consequently, interventions have focused on operations for contrasting malicious sources and informing and educating the larger public (Gesser-Edelsburg and Shir-Raz, Risk Communication and Infectious Diseases in an Age of Digital Media 2016). Yet, notwithstanding health institution worldwide efforts, misinformation has shown no signs of abating; indeed, it is increasing everywhere (WHO 2019) (Kraft, Lodge and Taber 2015) (National Academies of Sciences, Engineering, and Medicine 2015), in the U.S. (Schaffer 2019), (Wilson 2019), in Africa (Powell 2019), in Europe (WHO 2019), (WHO 2018), in Asia (WHO 2019), (Tobin 2019), (Holliani Cahya 2019).

In fact, "irrational" and "emotional" reactions (Frazer 1980), (Mauss 1972) do not depend on the degree of scientific literacy, they are universal human responses, well-illustrated by beliefs in "magic contagion" (Kramer and Block 2011), (Newman and Bloom 2014). Literate people may fear to be "infected" by someone who is affected by cancer (Nisbett and Wilson 1977). Psychological experiments show that typical persons are extremely reluctant to use objects previously used by, e.g., murders or criminals, as though they were infected by the "evil" (Rozin and Nemeroff 1990). People - independently from their scientific literacy and education - feel very unease to inhabit a place where a bloodshed scene took place (Rozin and Nemeroff 1990) as there were a dangerous "miasma". Many common preventive behaviours - rationally justified by people in terms of hygienic norms - are actually irrational (Rozin, Markwith and McCauley 1994), (Golec de Zavala, Waldzus and Cypryanska 2014), (Zhong and Liljenquist 2006), (Rozin, Markwith and McCauley 1994) (Kilgo, Yoo and Johnson 2018), (Bennet 2008), (Jamain 2012). The tension between purity and impurity is essential to understand people perception of infectious outbreaks (Robin, et al. 2017). In two recent correlation studies, Amin and coll. (A. Amin, et al. 2017) found that concerns about purity were significantly associated with vaccine hesitancy, they " found that medium-hesitancy parents were twice as likely as low-hesitancy parents to highly emphasize purity (...). High-hesitancy respondents were twice as likely to strongly emphasize purity". Disgust is another important component of people "irrational" beliefs about communicable diseases (Stein and Nemeroff 1995), (Rozin, Ashmore and Markwith 1996). According to Clifford and coll. (Clifford and Wendell 2016) "greater sensitivity to disgust is associated with (...) anti-vaccination beliefs". Disgust for impure animals in Islamic countries played an important role to cause the spreading of the 2009 Swine flu outbreak in the Middle East (Malik 2009). Disgust against vaccine contaminated with pig cells is still one of the major reasons for failures of measles vaccination campaigns in Pakistan and Indonesia (Ahmed, et al. 2018). Disgust connected to animal infestation influenced health campaign to prevent ZIKA (Ribeiro, et al. 2018). Eventually, "irrational" and "emotional" responses as well as "magic" beliefs, are evidence that representations of epidemics and infectious outbreaks are rooted in the deepest strata of the human mind, they represent "the dilemma that inspires the most basic of human narratives: the necessity and danger of human contact" (P. Wald 2016, 2). Thus, people ignorance and gullibility are not, or are only to a small extent, the right explanation for the prevalence of misinformation (Brendan and Reifler 2015). Indeed, growing research (Brewer, et al. 2007), (Clay 2017), (Lewandowsky, Gignac and Oberauer 2013), (Hornsey, Harris

⁶ An Eurobarometer Survey in March 2018 Invalid source specified. and, in the same year, the report of the High-Level Group of Experts of the European Commission Invalid source specified. addressed the issue of online disinformation, yet they hardly dealt with the wider issue of misinformation, which includes also misleading information which has not been deliberately generated, and the way in which disinformation is metabolised by the public.

and Fielding 2018), (Lorini, Santomauro and Donzellini, Health literacy and vaccination: A systematic review 2018), (Larson, de Figueiredo, et al. 2016), (Auld 2003) suggests that often those who believe in, and spread, misinformation belong to scientifically educated and informed groups⁷. Stories are symbolic processes of sense-making⁸. Fear and chaos spread together with epidemics (Borch 2019), of which they are almost the *doppelganger*, contributing to their *unheimlich* nature (Cunningham 2008), *"epidemics of catastrophic diseases loom as the potential terror of destruction and possible annihilation"* (P. Wald 2016, vi-vii). When social groups feel themselves threatened by fear and chaos, when they feel *"an acute need for security"* (Difonzo and Prashant 2007, 20), they resort to stories that make sense of their experience; *"a novel, a story, a myth or a tale (…) impart order to the disorder of human perception and the perceived 'chaos of human experience'"* (Taleb 2007, 69-70). Misinformation is received and spreads because people, vis-à-vis epidemic threats, are searching for meaning. Stories not only organizes information and events for people but are an instrument for people to infuse them with collective meaning (Bruner 2002), (Ricoeur, Time and Narrative 1984).

6.2.1 Epidemic Imaginaries

The subsection on epidemics imaginaries is structured in four third level sections.

The first one is devoted to THEORY and it allows to download the COMPARE research paper devoted to Epidemic Imaginary.

The second one is devoted to archetypes. General archetypes are simple, polar, oppositions, substantive archetypes are wider metaphors and symbols. There are two fundamental archetypes used for conceptualizing communicable diseases: (1) contamination; and (2) contagion **Invalid source specified.**, **Invalid source specified.**, (Adam et Rovel-Marzouk 2012), **Invalid source specified.** (Error! Reference s ource not found.).

Contamination is generated by the simple polar opposition purity/impurity. According to Mary Douglas Invalid source specified., purity/impurity is, in turn, the transformation of an older binary couple of chaos/cosmos. These couples generate a myriad of similar couples (e.g., sea=chaos, earth=cosmos, thus sea vs earth, etc.) which share the characteristic feature of opposing an ordered totality to an indistinct magma. Contamination is a breach in the ordered universe, the breaking of the indistinct (chaos, death, disease, impurity, and so) into an uncontaminated, well-ordered, world. The idea of "magic transformation" - a radical change which is due to any magic - is inherent to the metaphor of contamination. Today "patients feel supported in their hope for magical transformation by the spirit of our civilization, where the ancient dreams of mankind have been transformed into outer reality to an astonishing degree by translating immediate experience into symbolic systems of highest complexity, and these in turn by mastering things through technical manipulation" Invalid source specified.. In other words, technology is often perceived and used by people (and sometimes also by scientists and technologists) as though it were magic. This is not always evident, more frequently the surface is still shaped by scientific rationality, but it is enough to dig a little deeper to discover that the power of technology is perceived in magic terms (e.g., acting through similarity and magic contact). The fundamental icon of contamination is the "miasma", the impure air, which spreads and creeps everywhere, infecting people with its deadly power.

⁷ Atul Gawande even argues that the more one is educated, the more will be sceptical towards scientific truths and will believe in stories and conspiracy theories, because education leads "people to be more individualistic and ideological".

⁸ Wagner and coll. call "collective symbolic coping" the processes used by social groups to make sense of new and unexpected events, that menace their societal life and worldviews.

Contagion is generated by the polar opposition sacred/profane. Contagion implies a fundamental tension of moral-religious nature, which generates several other polar couples including atonement/resentment, guilt/atonement, death/rebirth, sin/salvation, restoration/redemption, shame/purification, secluded/public, etc. Central to contagion is the idea of the wrath of God or gods. The idea of "tragic transformation" – "a process of profound change brought about by suffering, through massive inner conflict (particularly conflicts of conscience), through insight, and through action, or active work, in behalf of somebody else or in the service of a great cause" Invalid source specified. - is inherent to the metaphor of contagion. Tragic and heroism, as well as sacrifice and re-birth, are fundamental themes of all contagion narratives. The icon of contagion is the snake/arrow, that is simultaneously the poisoned arrows (they are an attribute of healing gods in most human cultures; e.g., in all Indo-European cultures, but it is also by Moises in the desert) and the Hydra, the many-headed serpent of Greek mythology, which cannot be ever totally defeated. Contagion is a double-edged metaphor, including both the idea of healing and the idea of spreading: Apollo, who is the most important healing god in Greek religion, is also the god who generates epidemics by means of his poisoned arrows, which hit people like snakes.

Contamination and Contagion are not totally distinct perspectives; they are not mutually exclusive; instead, they must be conceptualised as a nuanced continuum. In fact, they often operate jointly. In myths, narratives, stories, created by human cultures across the world and along the centuries, these two archetypes of transmissible disease variously mix, diverge and converge, but they can be almost always discovered. In contemporary, techno-science, society, contamination and contagion do not provide (or provide very rarely) the explicit, conscious, framework for representing outbreaks. Yet, they are often the implicit horizon of health communication, affecting both communicators and the audience and profoundly conditioning communication itself.

Being able to recognize these archetypal frameworks is thus twofold important, (1) it allows a more indepth understanding of implicit nuances of the communication flow; (2) it allows anticipating potential communicational issues and addressing them in advance. Communicators should become acquainted with the way in which contamination and contagion are crystalized in existing myths, stories and narratives in each cultural context. They must learn to recognise them also in digital communication, being aware that old themes and terms are often tailored in modern shapes and words.

The third sub-subsection is devoted to myths. Myths are core mental representations shared by large cultural areas and stable enough along time, although they change over time, according to many variables. Myths are meta-narratives generated by fundamental archetypes and correspond to what Ball calls "*Fabula*". These core representations filter perception of risk and shape health communication in a critical way. They are thus central to risk communication. Effective health communication needs to integrate appropriate myths and metanarratives in the messages. The relationship between the presence of an integrated myth/metanarrative and health communication effectiveness is chiefly attributable to the capacity of myths for the production of meanings. Meanings or sensemaking refers to how communication provides the audience with a point of view perceived as plausible and coherent, mirroring and fulfilling their inner fears, anger, fantasies, aims, wishes, and hopes. Sensemaking allows integrating new events into a general plot (metanarrative), by which they become understandable. Myths do not argue, they explain.

Myths produce meaning through the establishment of causal chains; they explain the future in terms of the past; they provide the present with purposes, ends, goals, and causes. They provide reality with a master story that addresses the ultimate concerns and purposes of people. Digital communicators need to be able to anticipate plausible end states and create a vision for the future that makes sense to the audience (even catastrophic end states, like the Last Man or the Flood myths, are more palatable to human mind than uncertainty). In-depth, people need to believe that a comprehensive explanation of

totality exists; this is also the foundation for magic thinking and the mystic. This belief is the opposite of scientific thinking, which is always local thinking; modern science is not interested in "totality". Myths generate meanings by providing a temporal frame, so reassuring the audience that facts happen at a given moment in time and in a particular context. Time in the digital sphere is quite different from the time in literate societies. The Internet lives in a perennial instant; the future always seems unplanned and unstructured. Myths offer the frame of reference to interpret events in time; they share with the Internet a relative condition of atemporality, but they provide this atemporality with the inherent time of their story. Eventually, in peoples' mind, myths and stories help to generate the feeling of history. Myths generate meaning through interpretation. The process is circular; myths create an interpretive framework in which the part may be understood in reference to the whole (according to the fundamental principle of the hermeneutic circle). In turn, the whole is interpreted through myths. Health communicators need ongoing integration between myths and worldviews. The digital audience seeks information that brings meaning and enrichment to their lives. If communicators fail to do so, they are perceived as trivial, superficial, lacking conviction, principles and values. Finally, they can be even accused to hide conflicts of interests. In fact, many stories on alleged conflicts of interest in the health sector originate by the perception that health communication does not transmit values and purposes.

Finally, we extracted 14 fundamental core-structures, or myths, from our primary sources. They were further examined and validated by confronting them with secondary sources, only those which were also mentioned, in any form, in secondary sources were finally selected. Ultimately, we selected 8 myths, 4 related to contamination (The Plague Spreader, The Scapegoat, The Possession, The Last Man), and 4 related to contagion (The Journey to the After Life, the Hydra, the Flood, the Brigada).

	1. CONTA		
	PURE-IN	NPU	
_	A. THE PLAGUE-SPREADER	-	C. THE POSSESSION
	Jürg Federspiel, The ballad of Typhoid Mary	1	Euripides, The Bacchae
	Bram Stoker, Dracula	2	Jack Finney, The Body Shatches
_	André Brink, The Wall of the Flague	- 1	Fyod or Dostoevsky, Crime and Punishment (Roskolnikov's Final Dream
_	Frank Herbert, The White Plague	4	Friedrich W. Mulmau, Nosferatu
_	John le Carré, The Constant Galdener	5	George Romero, Night of the Uving Dead
	Norman Spinred, Journals of the Plague Years	6	Rat-Catcher of Hamelin (popularisgend)
	The Plague Inc. evolved	.7	Joe Hill, The Fireman
	David Wu, The Plague City: SARS in Toronto	4	Stephen King, Cell
	B. THE SCAPEGOAT	-	D. THE LAST MAN
_	Sophocles, Oedipus Rex	1	Mary Shelley, The Last Man
	Lars von Trier, Epidemic	2	Eugène Ionesco, Rhinòceros
_	Randy Shilts, And the Band Played On	3	Reine James, This Time of Dying
	Karel Čapek, The White Disease	4	Richard Matheson, I Am Lagend
	Gabriel Garcia Márquez, One Hundred Years of Solitude	5	Pieter Bruegel, The Triumph of Death.
	Richard Wagner, Parsifal	6	Greg Beer, Darwin's Radio
	Alessandro Manzoni, The Betrothed And History of the Column of Infamy	7	Jack London, The Scarlet Plague
_	Eugène Sue, The Wandeting Jew	8	George R. Stewart, Earth Abides
	2. CON FAULT-PU		5-41-5-5
	A. JOURNEY TO THE AFTERLIFE		C. THE FLOOD
ł.	Thucydides, Peloponnesian War (the Plague of Athens)	1	Genesis 6-9 (Noah's Ark)
1	Albert Camus, The Plague	2	Stephen King, The Stand
5	Antoine Jean Gros, Bonaparte Visiting the Plague Victims of Jaffa	3	Danny Boyle, 28 Days Later
	Daniel Defoe, A Journal of the Plague Year	4	José Saramago, Blindness
č	Luchetius, De Rerum Nature (the Plague of Athens)	5	John Christopher, The Death of Grass
7	Geraldine Brooks, Year of Wondles: A Novel of the Plague	6	Chris Adrian, The Children's Hotoital
1	Yun Herrera, The Transmigration of Bodies	7	Gore Vidat, Kalki
5	W. Somerset Maugham, The Painted Veil		Em Crace, The Petchouse
_	B. THE HYDRA	-	D. THE BRIGADA
2	The Iliad (Apollo's plague on the Achians)	1	Giovanni Boccaccio, The Decameron
2	Exidus, 7.14-12:35 (the plagues of Egypt)	2	William Maxwell, They Came Uka Swallows
1	Creig DiLouie, The Thin White Line	3	Philip Roth, Nemesia
1	Samual 2, 24, 10-17 (David's plague)	4	Hermann Hesse, Narclasus and Gold mund
	Peter Paul Rubens, The Imracles of St. Francis Xavier	5	Sjón Moonstone, The Boy Who Never Was
	Nicoles Poussin, The Plague at Ashdod	6	Edgar Alan Poe, The Masque of the Red Death
5	Michael Crichton, The Andromeda Strain	7	Steven Konkoly, The Jakarta Pandemic
		8	Thomas Mann, Death in Venice

The fourth third-level section is devoted to sixty-four paradigmatic stories.

Home	The Toelbox	Communication Model	Nerrotive Message Map	Periodic Table of Epidemic Nerratives	Mare.
	E	pidem	ic Imag	linaries	
	01			HEORY Its Epidemic Imaginaases	
	02			HETYPES	
	03			YTHS antial Namative Patterns OPEN	
	04			TORIES anadigmatic Stories OPEN	

6.2.2 The Theory

From this subsection is possible to download the COMPARE Research paper in the Collective Imaginary, which provides a full theoretical discussion of this topic and its application to Emerging Infectious Diseases and Emerging Epidemics.



6.2.3 Archetypes

This subsection provides a comprehensive a discussion of the two main archetypes of communicable diseases, (1) contamination; (2) contagion. It also includes eighty-seven contagion and contamination tropes. We built on this previous work, searching for core patterns of outbreak representations generated by the two fundamental archetypes contamination and contagion. We operationally identified 84 tropes and themes that we used to probe core stories and to select them. The whole procedure was circular, based on recurrence. Once we found a story which could become a potential candidate for being selected as a myth, we analysed it in depth, to identify repertoires and tropes, and we tested it against other stories. This procedure was repeated again and again.

Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
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Archetypes

There are two fundamental archetypes used for conceptualizing communicable diseases: (1) contamination; and (2) contagion (Siegal, 1988), (Manetti, Barcellona, & Rampoldi, 2003), (Adam & Rovel-Marzouk, 2012), (Mitchell, 2017) (Figure 10).

CONTRAMINATION Contamination is generated by the simple polar opposition purity/impurity. According to Mary Douglas (Douglas, 1966), purity/impurity is, in turn, the transformation of an older binary couple of chaos/cosmos. These couples generate a myriad of similar couples (e.g., sea=chaos, earth=cosmos, thus sea vs earth, etc.) which share the characteristic feature of opposing an ordered totality to an indistinct magma. Contamination is a breach in the ordered universe, the breaking of the indistinct (chaos, death, disease, impurity, and so) into an uncontaminated, well-ordered, world. The idea of "magic transformation" - a radical change which is due to any magic-is inherent to the metaphor of contamination. Today "patients feel supported in their hope for magical transformation by the spirit of our civilization, where the ancient dreams of mankind have been transformed into outer reality to an astonishing degree by translating immediate experience into symbolic systems of highest complexity, and these in turn by mastering things through technical manipulation" (Wurmser L. , 2000). In other words, technology is often perceived and used by people (and sometimes also by scientific rationality, but it is enough to dig a little deeper to discover that the power of technology is perceived in magic terms (e.g., acting through similarity and magic contact). The fundamental icon of contamination is the "miasma", the impure air, which spreads and creeps everywhere, infecting people with its deadly power.

Contagion is generated by the polar opposition sacred/profane. Contagion implies a fundamental tension of moral-religious nature, which generates several other polar couples including atonement/resentment, guilt/atonement, death/rebirth, sin/salvation, restoration/redemption, shame/purification, secluded/public, etc. Central to contagion is the idea of the wrath of God or gods. The idea of "tragic transformation" – "a process of profound change brought about by suffering, through massive inner conflict (particularly conflicts of conscience), through insight, and through action, or active work, in behalf of somebody else or in the service of a great cause" (Wurmser L. , 2000) - is inherent to the metaphor of contagion. Tragic and heroism, as well as sacrifice and re-birth, are (indamental themes of all contagion narratives. The icon of contagion is the snake/arrow, that is simultaneously the poisoned arrows (they are an attribute of healing gods in most human cultures; e.g., in all Indo-European cultures, but it is also by Moises in the desert) and the Hydra, the many-headed serpent of Greek mythology, which cannot be ever totally defeated. Contagion is a double-edged metaphor, including both the idea of healing and the idea of spreading: Apollo, who is the most important healing god in Greek religion, is also the god who generates epidemics by means of his poisoned arrows, which hit people like snakes.

Hama The Toolbox Communication Model	Narrative Message M	ep Periodic Table of Epidemic Nerretives	Marie
ODNTAMINATION		CONTAGION	
The <u>AGENT/POLLUTANT</u> can be any objer person or action	tor The	CONTAGIOUS AGENT is a powerful other human of superhatural, or natu	force, ral
The <u>POLLUTANT</u> is out-of-place, there is alv border-trespassing event in contaminati	vaysa The g	ONTAGIOUS AGENT causes a mix b sacred and profane items	etween
There is no need for voluntary <u>transgresser</u> ain to generate impunity.	mor The	hallenge is always generated by any <u>hubris</u>	form of
Impurity does not depend on the nature dose of the contaminating event	and <u>Cor</u>	tagion does not depend on the natu dose of the contagious event	re and
Impurity resists to purification; the bad stronger than the good;	is The	e is <u>no shield against contagion;</u> the stronger than the good;	bad is
A contaminated object or person makes in other objects and persons, but objects a persons made impure in such a way are necessarily transmitting impurity outsid	tot	a <u>gion is a chain,</u> where each link links another link	
Contamination spread at a distance throug " <u>miasma</u> ";	h the Cont	agion spread through contact, like <u>p</u> <u>arrows</u> and poisonous snakes;	<u>pisoned</u>
Southerson And And And And And And And And And And		ADDRESS OF	1

me	The Toolbox	Communication Model	Nárrative Message Map	Periodic Table of Épidemic Narratives	More
	CONT	AGION AND	CONTAMIN	ATION TROPES	
	1	ROPES AND THEME	S OF CONTAGION AND	CONTAMINATION	
	Anger Mo	6	Airborne	Animals	
	Arrow		Ashes	Asymptomatic carrier	
	Atoneme	at.	Black	Blindness	
	Body fluids Confined spaces		Catrion	Claustrophobia	
			Contact through sympathy		
	Corpses	0	Cosmos vs Chaos	Crazy Mob	
	Crime, fault, pur	ishment	Demoniac	Dose independent	
	Dove		Everlasting effect	First wave	
	Flood		Foodborne	Fortress	
	Fury		Hot Zone	GMOs	
-	Grease		Hidden infected	Life vs death	
	Hybris		Insanity	Miasma	
	Light vs Da	tk	Magic transformation	Nirvana	
	Monaster	Y	Moral crisis	Outer world	
	Ocean, se	a	Order vs. disorder	Paranola	
	Out-of-Pla	ce	Panic	Pesthouse	
	Parasite		Patient zero	Plague	
Ph	ysical change wit	hout effect	Physical contact	Quarantine	
	Purificatio	in .	Purity vs Impurity	Red	
	Rainbow	5. C	Rebirth	Sacrifice	
	Redemptie	n	Rescue	Scapegoating	
	Safe harbo	ur	Sanctity	Shaman	
	Sense vs. Non	sense	Sexual contacts	STDs	
	Sinner		Snake, poison	The seer	
	The endless	light	The evil ruler	The trap	
	The strang	er	The tragic hero	Tragic transformation	
	The wise m	an	The Sorcerer's Apprentice	Universal destruction	
1	fransmission of c	ontagion	Disease X	Wrath of God	
Unt	touchability, imp	enetrability	Villa	Zoonosis	





6.2.4 Myths

This subsection comprises 14 fundamental core-structures, or myths, elicited from our primary sources. They were further examined and validated by confronting them with secondary sources, only those which were also mentioned, in any form, in secondary sources were finally selected. Ultimately, we selected 8 myths, 4 related to contamination (The Plague Spreader, The Scapegoat, The Possession, The Last Man), and 4 related to contagion (The Journey to the After Life, the Hydra, the Flood, the Brigada). The subsection includes the 8 fourth-level sections, each one of the them contains some exemplar narratives related to the main myth.

Hama	The Taolbax	Communication Model Nervetive Mass	age Map Periodic Table of Epidemic Narras	ivos Maro
	<u>c</u>	Contaminati	ion Myths	
a series of		THE PLAGUE SPREADER		
		THE LAST MAN		
Beene		Contagior	n <u>Myths</u>	
	10	JOURNEY TO THE AFTER LIFE		
R	New	THE HYDRA		
	1999 N	THE FLOOD		
		THE BRIGADA		

















6.2.5 Sixty-four Paradigmatic Stories

This subsection provides an overview of sixty-four paradigmatic stories (from novels, short novels, creative non-fiction, musical play, theatre, videogames) illustrating the myths. Each entry is linked to an external site, which provides the main details on the paradigmatic story.



6.3 Communication-Action Framework

The third sub-section is devoted to Communication-Action Framework, a comprehensive and integrated notion which takes over in the COMPARE Risk Communication Model the simpler, conventional, notion of context. The Communication-Action Framework emphasises the idea that in the digital society, communication is actionable, and action and communication are anything but the two sides of a same coin.



The Communication-Action Framework is made up of three dimensions, (1) Physical; (2) Communicational; (3) Mental. To each one of them is devoted a third-level section, which are further structured in fourth-level sub-sections.

E	The Commun	lication-Action Framework is mad	e up of three components, (1) phys	ical; (2) communicational; (3) mental.	
	Dimension	PHYSICAL	COMMUNICATIONAL	MENTAL	
	WHERE	The tangible world	Electronic infrastructure	Human minds	
	WHAT	Actual individuals, relevant groups of individuals, physical objects, places and communication tools	Created by the interaction of the mental and physical dimensions	Individual and social consciousness and unconscious	
	FOR WHAT	Providing physical support to communication; Generating information	Collecting, processing, disseminating information and communicating	Understanding, deciding, acting	
	CONTENTS	Actors, stakeholders, digital users, physical infrastructures	Information (factual, non-factual) symbols, signs, behaviours, Implicit / explicit Text / Metatext	Values, beliefs, emotions, perceptions, dreams, myths, narratives, decision making	

6.3.1 The Physical Dimension

This subsection provides access to a fourth-level section which illustrates the physical dimension in detail.

As per the PHYSICAL DIMENSION of the communication environment, one should consider communication competences, physical infrastructure, and languages.

- Communication competencies include
- Public health officers
- Public health professio
- Health personnel involved in response to an outbreak (including medical and veterinary doctors, nurses, laboratory staff)
 Non-health public officers involved in response to an outbreak (administrative staff, law enforcement and police, local
- Institutional health communicators (crisis communicators, health agency spokespersons, journalists hired by the health agency, other relevant authority spokespersons)
- Informal staff volunteers, NGOs, religious charities involved in response to an outbreak
- Medical journalists, Investigative journalists and writers
- Professional bloggers and other professional online commentators (e.g., professional YouTube video makers, Instagram Lifestyle publishers, etc.)

Each specific, actual, situation is made up of a mosaic of these competencies, which mix each time in unique way. Public health officers and professional communicators (spokespersons and journalists hired by the health agency) must balance the use of different competencies, such as scientific knowledge, epidemiological information, acquaintance with journalists, familiarity with social media, in order to communicate the intended message(s) to the target audience with an understanding of possible second and third-order effects on the rest of the global digital audience. One of the main keys to successful communication today is to remember that, in the digital public sphere, time and space are condensed, and everything happens synchronously and ubiquitously. Messages must thus be thought as though they were focused on a specific audience and, simultaneously, as though they were universal. Health authorities can use all communicational competencies to implement their communication strategy. Different competencies, whether smartly employed in crisis, are an essential enabling activity that facilitates development of an effective health risk communication.

Physical infrastructure is made of things, physical networks, and places that allow communicating. The development of digital technology is making physical infrastructure less and less important. Today, one could communicate globally without the need to possess sophisticated instruments or specific places. from where to broadcast. This must always be considered by health communicators (e.g., a local press conference, an informal conversation, can easily become global events, it is enough that someone captures a video and stream it), the standard distinction between different types of health communication (e.g., press conference, face to face, interview, informal conversation, TV and Radio broadcast, newspaper article, etc.) made sense in the past less and less today. Today, any type of communication can seamlessly turn into another type. The message should be shaped in such a way not to be misunderstood if framework conditions change. In the digital sphere, there is no longer a context but always a hypertext.

Finally, the physical dimension of the communication framework also includes languages, say, the overall system of symbolic representations, verbal and non-verbal, of a given social group or community.

The <u>COMMUNICATIONAL DIMENSION</u> of the Communication-Action Framework concerns the actual flow of communication and the main variables that must be considered to analyse it, which are (1) certainty; (2) credibility; (3) consistency; (4) kairos; (5) the story.

Certainty is the first variable of the communication-action framework. "Truth" refers to absolute, unconditional, statements about the totality (e.g., "every triangle has three vertices"), while statements subject to local, contextual, conditions (e.g., "it is raining" when? where?) could only be certain, they must be verified empirically. Certainty is both a psychological state and a criterion to assess scientific predictions. Uncertainty is not the opposite of certainty, but it concerns "the resultant of two psychological forces (...) doubt and ambiguity" (Weisberg, 2014, p. p.10). Both certainty and uncertainty depend on doubts, but uncertainty also includes a degree of ambiguity. So, in analysing the communicational dimension of the Communication-Action Framework, health communicators must address doubts and ambiguity. The more messages are dubitable and ambiguous; the more communication will transmit uncertainty.

The second variable of the communication-action framework is <u>circularly</u>. In the digital culture, credibility depends on three main variables, (1) the volume of people; (2) direct, personal, experience; (3) trustors. The concept of volume has little to do with majority and minority; rather, it regards the magnitude. If you are perceived to be supported by a large number of users, you increase your credibility. Another element which increases credibility is to be experienced or affected by the issue. In the online world, the opinion of a mother whose child has been vaccinated counts more than an experise opinion. Also, trustors are important in the digital world. Trustors are testimonials, credible people who "borrow" their credibility to another person. Non-credible trustors transmit lack of credibility to their trustees, so they can jeopardise someone's else credibility. Health communicators must self-assess their credibility. Itaking into considerations all these variables.

The third variable of the Communication-Action Framework is <u>consistency</u>. Consistency is directly linked to credibility. One is consistent as long as she is narratively coherent, according to the criteria provided by Fisher. Health communicators must always consider whether health messages are plausible for their audience, that is to say, whether values and experiences related to the message are consistent with the message itself.

The fourth vanable is <u>tarrow</u>. Karos is the perception of timing, the time opportune for communicating. The digital world is simultaneously in the past, in the present, and in the future. This makes the notion of kairos paramount. Health communicators must always consider that their messages will reach the target asynchronously because it is impossible to predict when they are received. Health messages must be thus designed to be effective in diverse temporal circumstances. This challenges the standard phasing of health communication in epidemics. For instance, a health campaign planned in the midst of an epidemic crisis will remain active on the Internet also when the crisis ends, and it must keep on making sense also with changed conditions.

The fifth variable of the Communication-Action Framework is the <u>IIOY</u>. The story – or the implicit meta-story – is assessed by people according to good reasons, as per Fisher's definition. The good reasons are 'those elements that provide warrants for accepting or adhering to advice fostered by any form of communication", in practice they are the elements categorised by Fisher as "narrative rationality", say, all those features which make people to believe and enjoy a story (e.g., fidelity, probability, plausibility, coherence, etc.). Health communicators must be aware that, behind any communication – even pure, factual, messages - there are always implicit stories, which work under-the-radar. Messages will be perceived and assessed by the public also through the filter of these stories.

			ld consider communication competencie	
school autr	(antipes)		veterinary doctors, nurses, laboratory stat e stall, law enforcement and police, local a okespensors, journalists hired by the heal o an outbreak lessional YouTube video makers, Instagra	
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different compo- social media, communication synchronously simultaneously, communication development of A torest social	stancies, such as scientific knowle in order to communicate the inter- today is to remember that, in the and ubiquitously. Messages mus- as though they were universal. H stategy: Different competencies, w an effective health risk communica- tes is a remun choreen for authority.	edge, epidemiological informe inded messaga(s) to the larg e digital public sphere, time a t thus be thought as though lealth authorities can use all inhether smarthy employed in cr trion. • They include conventional s	which mix each time in unique way. Pu d by the health agency) must balance i tion, acquaintance with journalists, fami et audience. One of the main keys to dispace are condensed, and everythin i they were focused on a specific audi communicational competencies to imple test, are an essential enabling activity that takeholders and digital audience. We has telences is most effective when employ al bloggers are employed to convince mil- allow communicating. The development	liarity with successful g happens ence and, ment their t facilitates we already
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Finally, the physical dimension of the communication framework also includes languages, say, the overall system of symbolic representations of a given social group or community. Verbal and non-verbal signs, including words, are real entities, belonging to the physical world, and they should be considered as such.

6.3.2 The Communicational Dimension

This subsection provides links with five further fourth-level sections, (1) certainty; (2) credibility; (3) stories; (4) kairos; (5) consistency.

hievement	of an objective (e.g., n-action framework criti Certainty/uncertain	al communication needs, and so. Each dience; (2) communicational infrastructu effect → increasing social responsi cally depends on some variables.	actual actors, competences, infrastructures, on communication-action framework must incl re; (3) identification of desired effects to supp bility; objective → increasing vaccination rat	lude (1) port the te). The
mmunication	of an objective (e.g., n-action framework criti Certainty/uncertain	effect → increasing social responsi	pility, objective \rightarrow increasing vaccination rat	te). The
	Certainty/uncertain			
<u>ertainty</u>				
	state a k a sada		on-action framework. Certainly is both a psych	
	not only the oppos	ite of certainty, but it concerns a danger	criterion to assess scientific predictions. Uncer whose odds of coming to be cannot be calculat	ted. The
			forces. The horizontal axis represents our de perceive. () uncertainty increases according	
	'amount' of doubt a	ind ambiguity" (Weisberg, 2014, p. p. 10).		
	incomplete or in consequences an	sufficient scientific understanding of d/or magnitude of an event Enistemic	(Guokman, 2016) Epistemic uncertainty is du the danger, including ignorance about pro uncertainty can be addressed by advancing s ity of the hazard (e.g., the emergence of a n- sonsidered stochastic or deterministic depends aking, we are, however, obliged to consider coin. We can cope with natural variability only variability - i.e., statistical uncertainty - is unan- t uncertainty has been recently emerging	bability,
	knowledge. Statisti strain) The docisi	ical uncertainty is due to natural variabil	ity of the hazard (e.g., the emergence of a new monoidered stachastic or deterministic the emergence of a new monoidered stachastic or deterministic the stachastic of a new monoidered stachastic or deterministic or deterministic of a new monoidered stachastic or deterministic or deterministi or deterministic or deterministic or de	ew viral
	philosophical pers	pective we choose. Pragmatically spe	aking, we are, however, obliged to consider	natural
	variability as thoug statistics (Kaznatch	h it were at random, like when we toss a heev, 2014). Uncertainty due to natural	coin. We can cope with natural variability only variability - i.e., statistical uncertainty - is unav	through voidable
			of uncertainty has been recently emerging, unc as uncertainty, which is false. In fact, Big Data in	
	uncertainty in two	o senses (Maugis, 2016). First, it inc	reases epistemic uncertainty because it in znatcheev, 2013) (i.e., we unravel meaningful p	creases
	but we still ignore v	why they are meaningful). Second, Big Da	ta increases also statistical uncertainty because	e data is
	Data are biased	m (although in huge quantity), and we h	cessarily ignore whether models generated fr	rom Big
		CONVENTIONAL STATISTICS	BIG DATA ANALYTICS	
	WHO	CONVENTIONAL STATISTICS Statisticians, actuarial experts, social scientists	BIG DATA ANALYTICS Data analysts (physicists, computer scientists, mathematicians)	
	WHO	Statisticians, actuarial experts, social scientists ON Structured data collected on the basis	Data analysts (physicists, computer scientists, mathematicians) Vast, heterogeneous, data sets mined in search	
		Statisticians, actuarial experts, social scientists	Data analysts (physicists, computer scientists, mathematicians)	
		Statisticians, actuarial experts, social scientists ON Structured data collected on the basis of theoretical models (e.g., social	Data analysts (physicists, computer scientists, mathematicians) Vast, heterogeneous, data sets mined in search of patterns, trends, correlations and emergent	
	SEARCH	Statisticians, actuarial experts, social scientists ON Structured data collected on the basis of theoretical models (e.g., social classes, citizenship, etc.)	Data analysts (physicists, computer scientists, mathematicians) Vast, heterogeneous, data sets mined in search of patterns, trends, correlations and emergent moods Data generated anyway by individuals,	
	SEARCH	Statisticians, actuarial experts, social scientists ON Structured data collected on the basis of theoretical models (e.g., social classes, citizenship, etc.) Data purposely collected in specific groups	Data analysts (physicists, computer scientists, mathematicians) Vast, heterogeneous, data sets mined in search of patterns, trends, correlations and emergent moods Data generated anyway by individuals, or sensors, throughout the world	
	SEARCH	Statisticians, actuarial experts, social scientists ON Structured data collected on the basis of theoretical models (e.g., social classes, citizenship, etc.) Data purposely collected in specific groups	Data analysts (physicists, computer scientists, mathematicians) Vast, heterogeneous, data sets mined in search of patterns, trends, correlations and emergent moods Data generated anyway by individuals,	
	SEARCH	Statisticians, actuarial experts, social scientists Structured data collected on the basis of theoretical models (e.g., social classes, citizenship, etc.) Data purposely collected in specific groups Fixed scale of analysis (e.g., nation, region, city, etc.) Settled categories (e.g., blue collars,	Data analysts (physicists, computer scientists, mathematicians) Vast, heterogeneous, data sets mined in search of patterns, trends, correlations and emergent moods Data generated anyway by individuals, or sensors, throughout the world No fixed scale of analysis (e.g., mobile phone users, Googie users, etc.) No settled categories (e.g., brand advocates,	
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	SEARCH WHAT THROUG HOW FOR DOI WHAT	Statisticians, actuarial experts, social scientists ON Structured data collected on the basis of theoretical models (e.g., social classes, citizenship, etc.) Data purposely collected in specific groups H Fixed scale of analysis (e.g., nation, region, city, etc.) Settled categories (e.g., blue collars, farmers, industrial managers, etc.) NG Picture of the past and/or the present	Data analysts (physicists, computer scientists, mathematicians) Vast, heterogeneous, data sets mined in search of patterns, trends, correlations and emergent moods Data generated anyway by individuals, or sensors, throughout the world No fixed scale of analysis (e.g., mobile phone users, Googie users, etc.) No settled categories (e.g., brand advocates, millennials, digital moms, etc.) Insights across large populations and trend identification	
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Home	The Toolbo	ox Communication Model	Narrative Message M	ap Periodic Table o	f Epidemic Narratives	More
	ico cor cor the put for cal (Eu tran Epi unc whi	lay there is a growing interest h an approach 'It is lampting to clusion to be true given the ob- clusion. However, to produce a set assumptions would have to life regulators (such as Europe Disease Provention and Com Lutation (Coman, Hauth, & Life Disease Provention and Com Jugeton Food Satty Authonity apparency in policy decisions. demiss and pandemiss have all comiss and pandemiss have all containty Uncertainty of predict	In making uncertainty a o reduce uncertainty to a bserved data; or convers my such number, assum be quantified too, leadi an Food Safety Authority, rol) and policymakers a stedt, 2017). In 2016, th r (EFSA), 2016) to be ways been considered to ions concerning infectiou de initial uncertainty the set initial uncertainty is set in the set initial uncertainty is set in the set i	quantizative variatore. If single number, quantify tely quantifying how risi pion will have to be ma- ing to a circular argume. European Medicines A re increasingly asking e EFSA produced guid followed by researcher tally unpredictable and u s outbreaks is due to th to prevents orefred followed	Here are strong objection ing how likely is the rear- ky it is to trust the prop- de, so that the uncertain ent" (Maugis, 2016, p. 3 gency, and European C scientists to provide su- scientists to provide su- scientists to provide su- ance on uncertainty and so uncertainty and so with the aim to inco- noreventable, and source e very nature of the profi- e very nature of the profi- e oredictions. In fact.	ns to consed try of). Yet entre cich a alysis rease ses of blem, initial
	Cor base view poor cirre (sine ke cirre cirre ke cirre cir cir cir cir cir cir cirre cir cir cir cirre cir cirre cir cir cir cir cir cirre cir cir cir cirre cir cir cir cirre cir cir cir cir cir cir cir cir cir cir	separency in policy decisions." demics and pandemics have all arrainty threatenity of predict ch is based by an indiminal activity the policy of the policy ween contacts, which is an ever ween contacts, and power and all the innovelegation provem radii in the innovelegation provem radii the innovelegation provem radii the innovelegation provem radii and the innovelegation provem radii postici scholars (Perelman plat suggested the subjective contailer or useless. The basis c contailer or useless the basis of contailer and the subjective munication demands that a po- ace space and part of the statistic tradition of the subjective herein an A Otherother Typica. I that radii communication. Outle o tradition of the subjective radii was (a.g., vaccome has a space and part of the statistic s devices to dalogue with the s devices to dalogue protein a dalogue to dalogue protein the s devices to dalogue protein the s devices to dalogue with the radii the islatogic process (10	break are not complicible or complex, but also because ant of probabilistic nature element. Gorgas was it in the communication particular by the truth, or that there communication although by the truth, or that there explosed give to, and real converse explosing the second second on give some important to be observed that was non-give some important to be observed that was words bayrout question 969, p. 16). In fact, this short, health officers and sted in listening to their last transmissions.	a fand thus find quantifiat use the assence of com and thus uncertain. For first to amphasise th for the first to amphasise th in opposite senses. I, a to no proste senses. I, a to no proste senses. I, a to not truth to know, or one of the sense and the calor of the the sense calor for the sense calor of the main source of the main source of the main sense and the sone of the main source on the them sense and the interfocutors, notably who interfocutors, notably who interf	ble in terms of odds) not largine disease is in sy som a communication po- that both utter ignorance that both utter ignorance conversation becomes a forme of the second second approximation of the second approximation of the approximation of the approximation of the approximation of the approximation of the approximation of the second of the second of the second of the second of the second of the second of the second	r only straad alled alled alled in a and in a and in and blue blue blue blue blue blue blue blue
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	He offi pro der rati me cor in s	ann communicators are often to communicate fessional reporters, including jo nanding, and difficult to be turn set than on words, rapid, highly ssages, is still less capable immunicated by analogy, say, th uch a war to transmit uncertain	empted to oversimplify to their uncertainty, it is the unralists, often find it dif ed into simple, catching, condensed, addressed to condensed, addressed to to fransmitting nuano rough evocative means. I tv.	educing the degree of u he audience that tends ficult to report uncertain statements. Digital comi to mobile users who ofte res and uncertainty. U Messages must be ence	ncertainty, Even when h to deny it. Occasional ity, as nuanced concept munication, based on im n pay little attention to s Incertainty should be upsulated into stories sh	leann I and sare iages ingle thus vaped
	The con be	second variable of the con nmunications, actions of health the most powerful influence of	nmunication-action fram authorities - at internati f credibility of health me	ework is credibility. In onal, national, regional : ssages. Audiences <u>una</u>	actual, specific, h and local levels - are like voidably compare h <u>ealt</u>	ealth ely to a risk
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Home	The Toolbox The t	Communication Model hird variable of the commu ed in health risk communica p understand a precise situe stantial and specific Brief d y understand a precise situe unicate. Usually, manuals p t handle them communication interconnectivity, com seed in various part of the unication - based on three three media have been toda	Narrative Message lication-action framew lion, should construct tion, its problems, and tonisa are used to vis n-action rimework. Th resent a long list of a denset gaze time, as dakes little sense to do densed space-time, as is report. What realt material media, (1) sp y incorporated into the	e Map Periodic Ta appropriate narratives solutions. Stories mi ualize the effects hange il possible media and so today. Decause of amless shift between so today. Decause of amless shift between giptal sphere.	ble of Epidemic Norro authorities, as well , relevant to the inter- site teid to actions; the relevant heath a videpends on the m the way in which co different media, etc.) different media, etc.) these tundamental m electricity – and the	atives More
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Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
<u>Kairos</u>	betwe which the rig judicia distan flow to start ti we are not no techno hypert	en communication and action the evidence should be shou ht moment, the place, the sit il speeches, to persuade the ce or making it irrelevant, Into a pliable variable in everyd me in the midst of a conversa e, in effect, manipulating time tice, by the interface we're to logies make it easy to keep lext (Sheridan, Michel, Ridolfi	n. To Aristotle, the main funct wn to the hearers. To Aristotli uation, to shift from words to re e court). Kairos is the inheren ernet technologies can disrup ay interactions. Once a novelt ation to consider and adjust o to suit our purposes. Time is using, the quality of our netw the past present" (Markham, to b, & Michel, 2012).	iros, which provides the focus for synchron tion of kairos was to identify the right mone e the perception of kairos is central to rec material proof (Aristotle was speaking of k t time of the digital world. "As well as coll t time, shifting it from an unchanging or un y, we now take for granted the ability to st ur interactive choices. Most of us don't noti s also shifted in ways we cannot control ar oork connection, and other factors. For ex 2013, p. 291) The digital kairos is the time moment and instant. "Moment" comes fro	nent in ognise airos in apsing iversal op and ce that d may ample, : of the
	Latin 1 oscilla pendu Biolog always asynci are al which means mind 4 () fu "collec events arises Intern	verb moveo, to move. The "r tions. The mental experienn lum-like mechanisms in our l ically speaking, we don't ker s simultaneously in the pa hronised clocks. Our body is ways obliged to choose the means "to be present", "to is very difficult to put into we s grasping the critical time, as something similar when he w difiled by the here-and-now (tive symbolic coping", the s t that threaten their worldvie around the event, conversa et. In these processes, repre-	noment" is a spatial quantity i ce that shapes the notion of brain. Our body is full of these ptime, we keep several time st, in the present, and in it made up of moments, each of pertinent moment, which is t urge". The "instant" is thus a ords, is central to the digital a sy, recognizing and seizing the prote that human history is i Jetztzeit)" (Benjamin, 1974). I sensemaking processes by w ws, like an infectious outbrea ations between individuals, n isentations of the event are of	that we use to represent time, like pendult of the moment is the process of a num e biological clocks, which beat at different seat the same time (Buonomano, 2017) V) the future because our body includes a one differently located in space and time. I he "instant". "Instant" comes from a Lati compelling presence. The idea of "presend to the notion of "virtuality". Living in the e kairo's (Cacciari, 1994). Watter Benjamin Tormed not in homogenous and empty tiin This is particularly relevant to the process hich social groups interpret novel or unex k.t It is accomplished via the communication acconstructed and diffused. These represen e used as conceptual anchors for the novel	Im-like ber of paces. Ne are several So, we in verb ence", instant had in he, but called, pected on that all, the tations
	Aware diverg. (e.g., i and au and n norma an epi the fou stages four si	ness is when an issue ema ence stage, multiple and of is swine flu a real deadly risk mit-viral drugs?). In the conv educing uncertainty about t lization stage the event has isode of a long story of cross ur stages of the model is not s if new information is upcom	erges as a public concern (e ten incompatible discourses for humanity or is it a "false p ergence stage, a single domi he event (e.g., swine flu is been integrated into common s-species transmission of flu v necessarily linear and that ind ing. The kairos of health and coping. Communication exploi	s, divergence, convergence and normali a.g., media reporting swine flu outbreak), emerge, creating ambiguity about the si pandemic? created by big pharma to sell va nant discourse emerges, suppressing the a serious but limited incident). Finally, sense and everyday life (e.g., swine flu w virus). It should be noted that the progres tividuals may go back and forth between d risk communication must be measured or ts the kairos as long as it is in tune at ind	In the tuation ccines others in the as just sion of ifferent these
<u>Consist</u>	risk or groups corres health distrus shouk Effecti dialog	ommunication, there is often s. In the case of emerging or ponding informational intents authorities should not cor st in the audience, rather they d seek two-way understandii we health risk communication	a tension between the broutbreaks, there are always may (e.g., the tourism industry contrast contradictory message must integrate their competing with these stakeholders an always requires an effective.	hal consistency among communicators. In had message and engaging specific stake any different interests at stake, which then i uld tend to mitigate risks of epidemics). As s, which would immediately create a fee encies with other stakeholders. Health auth nd listen to what they think and want to a broad message and engaging all stakehol using communication to give a broad me	tholder lead to s such, ling of norities chieve. ders in
	profes staket engag same of me comm import an err people aware emplo health	sional communicators. The olders and digital audience e stakeholder groups and di of the risk message address ssage and are driven only lurication and action, which lant point is a gap between in terging outbreak. Institution e are involved in both. Yet, in ness, to avoid communical yed which adversely affect the agency spokesperson state	controlled message does Spokespersons and journal gital actors (e.g., the risk me ed to brand advocates). Yet, i by marketing considerations, is – as we mentioned – one nstitutional communication and al communication and crisis stitutional communication ar tion conflicts. Communication the audience, preventing the p s that the agency position is	message and allowing for complete freed not allow for real, timely communicatio ist working for health agencies must be issage addressed to digital moms cannot f professional communicators have total fir there is the high risk to create a gap be the worst communicational mistakes. A d communication directly involved in respo communication are related, and often the d crisis communication must maintain a d n fratricide (Box 5) occurs when message lositive effects of concurrent messages (e. to make measles vaccination mandatory i ant parents to vaccinate their children volur	n with free to be the eedom eween further onse to : same distinct es are g., the y law,





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iros is an ancient Greek word that means "the right moment" or "the opportune." The two meanings of the word apparently or m two different sources. In archery, it refers to an opening, or "opportunity" or, more precisely, a long tunnel-like aperture thro ich the archer's arrow has to pass. Successful passage of a kairos requires, therefore, that the archer's arrow be fired not curately but with enough power for it to penetrate. The second meaning of kairos traces to the art of weaving. There it is "the cri e" when the weaver must draw the yam through a gap that momentarily opens in the warp of the doth being woven. Putting o meanings together, one might understand kairos to refer to a passing instant when an opening appears which must be drough with force if success is to be achieved.

gias of Leontini gias of Leontini (c. 483-376 BC) puts persuasion and persuasive communication at the hearth of his philosophical sy gias philosophical approach is surprisingly close to some aspects of the General Definition of Information (GDI) (0). According gias, 1) no-thing exists, and 2) even if something exists, nothing can be known about it; and 3) even if something can be at it, knowledge cannot be communicated to others; finally, 4) even if it can be communicated, it cannot be understood. W communication? Anything but persuasion, Gorgias answers. Gorgias argues that human mind is intrinsically passive sivity is manifested by two processes: the receptiveness to impressions coming from senses and the openness to the lang suasion, peivhy is charm and seduction, it is not communication. According to Gorgias persuasion is made of three efferter rital influence, that he calls the powerful speech ; an internal disposition, that he calls the opinion (doxa); and the right mo he calls the opportune time (kairos). This

on (doxa) is what we would call "uncertainty", it is an opaque and ambiguous state o lete ignorance and positive knowledge, both unquestionable, although in opposite sense sion that arises because one cannot choose between alternatives, and decision-making would not be persuasion. Humans - Gorgias argues - are in an endless search for points choices and, eventually, their life. Yet, ironically enough, the sole "certainty" that they ac ful symbols, the logoV dunasthV. literally the powerful speech. To Gorgias, the esser al arguments nor in emotional appeals (although they can be both used), rather it is in ful speech is artistic narrative, coded in several ways (e.g., theatrical, poetical, musica restances and the needs of the moment. Sometimes it can be explicit, more often it is dis al scientific. te of half-knowledge, which pr enses. Doxa, opinion, indicates circumstances and the needs of the moment. Sometimes it can be explicit, more often it is disjuised under the appearances political, scientific, philosophical, and so, arguments. The third, essential, element to persuade – concludes Gorgias - is ind right moment according to the circumstances, the time opportune, kairoV Persuasion reaches its target only if it hits the audience at the time opportune. Kairos is like "timing", tempo, in music; it is both the relative pace of a piece, and the synchronise it to an ensemble, intuitively searching for the best duration of sounds and pauses in relation to other sounds and to the overall context, and the audience. Kairos is the genius of the moment. Being able to "feel" it, is paramount to communicators, musicians, comedians, performers, political leaders, managers, and so. In a word, it is what makes declared effective, be it playing a sound, uttering a word, or giving a command (Sipiora and Baumlin 2002). ry
an inc. d be incl s Cr ontroventible, positive, premises (as so cluded in effective human communica communicators, Aristotle pragmatically on, th

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authority. Only a trusted communicator is believed, no thority building should be always the first step for an s in this aspect also stylistic elements, this means thi d a nd pa It is as lar as it is d. but it v ld be m



6.3.3 The Mental Dimension

This subsection includes four fourth-level sections devoted to the main cognitive biases, notably, (1) information overload; (2) not enough meaning; (3) need to act to fast; (4) memory overload. Each fourth-level section provides a comprehensive list of entries which are linked to relevant websites and examples.

	e Toolbox (communicatio	on Model	Narrativ	ve Message (Map P	eriodic table i	of Epidemic Narratives	Mor
								aspects of the comm (1) information overload	
	ning; (3) need to					mouny co	initia notation,	(i) mornianon overload	, (ב), 110
Information C this situation		to psychologi	ical difficultie	es to deal	with too man	ny pieces o	f information a	and various selection bia	ases thai
	d to interpret in							data. Psychologically s ething happened and v	
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implies a for these menta information lo	m of informatio I issues relate bad by merging	n overload ar	nd a loss of	f informati	on due to the	e need to	reduce the m	errory load. It is to not errory load. It is to not es. In fact, stories red is values that drive actio	e that al
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INFORMATION OVERLOAD

r we perceive something, the theory says that what we perceive is not objective reality, but rather the brain's best guess as to using the sensations impinging on the body" (Buonomano, 2017, p. 8). Sensations are generated by differences, by lack of in the sensory field, say, information. what's

l is full of information, in ear orld. All these stimuli are the ch given insta en further pro d by our b re they cr

health officers and communica eaks, and so. Similarly, they co I so. To be sure, we are not arg ors put too much emphasis uld tend to put too much er uing that bealth officers and

- at the best - pessimistic merging – to most it mea <u>obasis on "</u>new" germs, d to th virus is e

s, risks to instil the sed conflicts of inte that th

(e.g., the "business when the today it is could still ming an outi the watchw c.), in f t the b e is to

ce governme delsburg, Mo c did not occ ed to get swine flu s, & Grec for H1N1

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Theorem and the second seco



information and to communicate: "we need to reduce the dimension of matters so they can get into our heads. The more information is, the grouter the dimensionality and thus the more difficult to summatice. The more you summarize, the more you summarize the more you summarize the more you summarize the more you summarize the more you summarize. The more information is, the inter software the same condition that makes us simplify publics us to think that the world is less random makes and the simplify public of our need to reduce dimensional million to mean effect and the second second

Stereotypical stor

Stories used to communicate health risk can take inspiration from veryday life and news, as well as from movies, theating allogs, morels, paintings, and so in all cases, hery must be short and rapid, and visual in nature (rap, they should not be necessarily presented in yourd format, but ringy must be merelarly visualisably, they must exist a universally human experimence, embedded in (interruphical bornet), Mr-Ken, 1977). Strensbyrd all bornes are poor, right experiment and interpretext settings of the larger advector. Interruphical bornet, Mr-Ken, 1977). Strensbyrd all bornes are poor, right experiment and interpretext settings of the and financipal cases. If the address test born to achieve their communicational goal and to please the audience. In the end, the audience is the main versible, because if the audience fields the interruphical bornet of the reactions of the address. They audience previous almost timediately without a nameline is an and/only allow. Which dows on the rocks and the audience reactions allowed the previous any approximation of the audience.

The first mistake which drives to stereotypization is to eliminate uncertainty, ignorance, and randomness from stories. Too linear stories sound false. To be sure, policymakers, public health decisionmakers, administrators, public officers, journaliste, and the public search for clear explanations and don't like too many nuances.

To be over tilling is the second mistake, which may produce strenotypical stories as well. Too much explanation highmen up stories. Overstilling is always a sign of communicator's insecurity and lack of autohrly Placing too much emphasis on minor details, or on details which are relevant only to scientists or health officers, but not to the autoince, kills the message. Audiences are nerely interested, and certainly never convinced when they are located to laten toops, buring, medical explanations. As a nucle of hum-hous should the audience only what the audience needs and wants to know and no more. In fact, there is nothing less eloquent than somence computery trying to be despent.

Out-of-sync stories

Time (timing, latino) is essential to storytelling. We have already mentioned some of the specific problems related to timing in the decriment sphere. Nor of the mann communicational aller meganing times is the "Law of Diminishing Returns" (Saboha, 1940), (Saboha, 1940), Saboha, Sabo

ack of awareness of second, third, and so, order storie

they are sided by "matcal learnoistic," any and here involves a sportune of softwars. The text is the spoke's content of the sumaritie, what we read, favore, see . Subtract as the stories used that subtracts about his fail and incommunication, many is some share and the spoke of the stories and the stories contained and any integration of a share that contained and and explicit stories always imply some second in the and incommunication is always integrated and explicit stories always imply some second in the and in a stories. Then are not of movemable, the spokes in the stories and the spoke of the stories and the spokes and the spokes and explicit stories always imply some some a short when the message used the stories and the stories are always in the stories and the



	Ноте	The Toolbox	Communication Model	Narrative Message Map	Periodi	c Table of Epidemic Narratives	More	
	NEE	D TO AC	T FAST					
	Counter hazard	intuitively, a ha concerns a very	zard recently occurred is not rare, unlikely, event. In such a	perceived riskier; on the co case, its occurrence reinforc	ntrary it is es risk per	of risk and the occurrence of the s perceived less risky, except wi rception. e news about a myriad of unlikely	tien the	
	 is turn crises of outbreat have the global ef enough 	ning all health c ccur in any give ks (be animal a e potential to h Sphere perceiv that this news (ommunication into an ongoing an moment. In the very instant and human) are occurring work ave) a global impact. The "but e it. Rather independently wi porters into resonance with the	crisis communication. In the in which this author is writin dwide. Local events are imm terfly effect"[1] dominates th either a local outbreak is go digital sphere to produce im	e global w ig these li ediately g ne global bing to ha imediate c	ortd, notably in the digital public nes, or the reader is reading the lobal in the public eSphere and t eSphere, or, at least, inhabitants we a major epidemiological impe global effects. Today information s	sphere, m, tens ave (or s of the act, it is aproads	
	The nee	ester man epide enon goes well od to be reactive perspective. Per eaningful scene	mics, causing even more ora beyond standard risk amplifica a often implies being focused o ople put up better with uncerta trio. The need to act fact can d	matic and momentous impa tion theory. In the immediate, and conse- inty (and would accept it ea rive health communicators to	quently be sier) if un	pulation than biological outprease eing unable to provide the audien certainly concerns events frame to know what the audience is t	ks. This ice with d into a thinking	
	and un underst be simp terms (e	derstanding, wh bod, over more le and clear, oft a.g., vaccines ar	lich is often misleading. So, e complex, nuanced, messages en turn out to be misunderstoo e sate).	communicators choose me s. Simplicity is always good, d or to trigger idiosyncratic re	issages ti oversimpli aactions b	hat they guess to be simpler filoation rarely is. Messages bell y depicting reality in too black an	to be eved to d white	
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<u>Sys</u> Thii <u>Trai</u> Uni		ification, n effect, on bias,						



6.4 Narrative Messages

This subsection includes links with educational materials on narrative communication, four fourth-level sections -(1) recon; (2) opening; (3) messaging; (4) closing - and, finally, with selected online resources for narrative communication.



6.4.1 Narrative Communication

Educational materials on narrative communication consist in (1) eight videos, including four original videos created within the scope of COMPARE Risk Communication; (2) an overall introduction to the narrative paradigm; (3) detailed description of the main criteria of Fisher's paradigms; (4) two main examples of narrative for health communication (*The Zika Communication Toolkit*, and *The Zombie Preparedness Campaign*).





Introduction

Arrative is one of the most fundamental and powerful elements of human cognition. We are, as a species, storytellers, and the ories we tell—either personal ones that shape our perception of ourselves or collective ones that shape social interactions—are an iduring part of human behaviour" (Rejestio, 2005). we so-called 'inamative paradigm' was proposed in the early 1980s by Walter Fisher (Fisher W. R., 1985). Namative – Fisher argues - a primary meaning-making tool in culture, the mediator between individual sense-making and collective beliefs, canons, and inspectives. According to Fisher, we experience and understand life as a senies of origoing namatives. By this, he means not so uch that we always tell, or listen to, stories, mather he anyoes that namative provides the conceptual fame that accounts for the hole human communication. Logical arguments, mathematical formulae, musical compositions, paintings, novels, performances, are perceived by human beings as though they were namatives, although each one of these languages has its own scope, its own inclure. is a p

ructure. here is a spectrum of explicit and implicit namatives in cultures, nanging from national founding myths to the highly personal proto-anatives of our night dreams. "Behind even the abstractions of science – writes Walter Ong - there lies narrative of the observations in the basis of which the abstractions have been formulated. Students in a science laboratory have to 'write up' experiments, which is say, they have to narrate what they ofd and what happened when they did it. From the narration, certain generalizations or abstract anclusions can be formulated. Behind proverbs and aphorisms and philosophical speculation and religious ritual lies the memory of uman experience strung out in time and subject to narrative treatment. Lyric poetry implies a series of events in which the voice in e lyric is embedded or to which it is related. All of this is to say that knowledge and discourse come out of human experience at the elemental way to process human experience verbally is to give an account of it more or less at it really comes into being and dists, embedded in the flow of time. Developing a storyline is a way of dealing with this Row" (Ong, 1982, p. 138). There is a s

dists, embedded in the flow of time. Developed an intriguing theory for explaining the namative paradigm. His theory is especially assim Nicholas Taleb (Taleb, 2007) developed an intriguing theory for explaining the namative paradigm. His theory is especially alwant to communication about highly urgredictable and uncertain events such as infectious outbreaks. In a nutshell, Taleb argues at namativity and causality – that is to say, the tendency to shape communication into storylines, and chaining events to each other trough a series of causes and effects – are two sides of a coin. To Taleb, our natural repugnance for randomness is one with our andency to see stories everywhere and to perceive the world as though it were a collection of stories. We are storytellers – he gues - because we are cause-seekers, and vice versa. Humans continuously search for causal explanations, which are ultimately torias. Taleb provides a nice namative to explain this theory; he writes 'We (...) have a hunger for rules because we need to reduce the dimension of matters so they can get into our heads (...) The more random information is, the greater the dimensionality, and thus he more difficult to summarize. The more you summarize, the more order you put in, the less randomness. Hence the same condition hat males us simplify pushes us to think that the world is less random than it actually is (...) Both the artistic and scientific nerprises are the product of our need to reduce dimensions and inflict some order on things. Think of the world and shield us from its randomnese http:// unit. and you will find yourself tempted to weave a thread into what you are saying. A novel, a tory, a myth, or a tale, all have the same function, they spare us from the complexity of the world and shield us from its randomneses hybis impart order to the disorder of human perception and the gueen died'. Compare it to the world and shield us from its randomnese here, consider the following statement. The king died, and the queen died'. Com

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Storie	88				

Stories are a peculiar kind of narration; they are usually based on a typical structure, which was first outlined by Aristotle, known as "Freytag's pyramid". The Freytag's pyramid describes how a well-structured, formal, narrative needs to progress, (1) it starts with an ascending action, which builds tension, rising to a (2) climax, which consists often of a recognition or other incident bringing about a reversal of action, and which is followed by a (3) dénouement or resolution, in which the problem that generated the action is solved.

Teversal of action, and which is followed by a (3) denouement or resolution, in which the problem that generated the action is solved. Digital stories – given the hypertextual structure of the media – tend to disregard the rigorous temporal sequence. Starting in 'the middle of things', in the centre of the action, is often the inevitable way to tell stories on the Internet, given the erratic, instantaneous, fragmented, nature of the audience. Digital stories report a situation and only much later if ever, explain how it came to be. Digital stories get immediately to where the action is. Of course, to some extents, also digital narrative has to do with temporal sequence of events, also in digital narrative there is a storyline, but this storyline must not be strictly chronological (i.e., past → present → future). Instead, it must start from the core, to go then back and forth across time. The digital storyteller is not greatly concerned with exact sequential parallelism between the sequence in the narrative and the sequence in extra-narrative referents. Digital stories must 'hook' the audience almost immediately because they are 'consumed' in fragmented and erratic way. Detailed stories are time demanding, while the Internet can offer only fragmented, although redundant, attention. The overall story needs to be torken in smaller repisodes. Each episode must not be too long and should fit with the use and the context in which it will be used. What makes a good storyteller today is not mastery of a climactic linear plot, but mastery of an episodic, dispersed, hizomatic, structure. Digital stories must be short, simple and focused. Confusing and ambiguous terms must be avoided, and details must be used chiefly to convey emotions. It is essential that the audience might identify themselves with the story. Stories are not informing or conveying messages in the oriculate autonomously and to undergo to the several permutations, as it used to happen with stories in oral civilization; they will become, s

The Narrative Paradigm

The narrative paradigm is the framework that we use in COMPARE to create risk and health communication messages. For this very reason, it is important to clarify a few fundamental definitions that could be misunderstood by those who are not familiar with the theory.

- NARRATION: (with this term) "I do not mean a fictive composition whose propositions may be true or false and have no
 necessary relationship to the message of that composition. By "narration" I mean symbolic actions words and/or deeds that
 have sequence and meaning for those who live, create, or interpret them (...) So understood, narration has relevance to real as
 well as fictive creations, to stories of living and to stories of the imagination" (Fisher W., 1987, p. 58).
- GOOD REASONS: "I take good reasons to be those elements that provide warrants for accepting or adhering to advice fostered by any form of communication" (Fisher W., 1987, p. 57). "The logic of Good Reasons (...) is attentive to reason and values (...) narratives are moral constructs" (Fisher W., 1987, p. 68).
- WALUES: "In short, good reasons are the stuff of stories, the means by which humans realize their nature as reasoning-valuin animals" (Fisher W., 1987, p. 65). "It is not the individual form of argument that is ultimately persuasive in discourse. That is important, but values are more persuasive, and they may be expressed in a variety of modes, of which argument is only one" (Fisher W., 1987, p. 48).
- RATIONALITY: "Narrative rationality does not deny the limited but necessary use of technical logic in assessing inferences (...) such assessments become useful only insofar as the discourse is considered as a whole, as part of a storied context" (Fisher W. , 1987, p. 48). "Rationality (...) invokes principles of narrative probability and narrative fidelity. These principles contrast with but do not contradict the traditional concepts or constituents of rationality. They are, in fact, subsumed within the narrative paradigm. The rational-world paradigm implies that rationality is a matter of argumentative competences (...) Traditional rationality prescribes the ways people should think when they reason truly or toward certainty (...) Narrative rationality is, on the other hand, descriptive; it offers an account, an understanding, of any instance of human choice and action, including science (...) The narrative paradigm can provide a radical democratic ground (...) [because it implies] that the people judge the stories that are told for and about them and that they have the rational capacity to make such a judgement" (Fisher W. , 1987, pp. 69-67). "Narrative rationality is (...) logic. The essential components of this logic are the following. Human communication is tested against the principle of probability (coherence) and fidelity (truthfulness and reliability)" (Fisher W. , 1987, p. 47).
- PROBABILITY (COHERENCE): "Is assessed in three ways: by its argumentative or structural coherence; by its material coherence, that is, by comparing and contrasting stories told in other discourses (...); and by characterological coherence (...)* (Fisher W., 1987, p. 47). "The principle of coherence brings into focus the integrity of a story as a whole" (Fisher W., 1987, p.
- CHARACTER: "Central to all stories is character. Whether a story is believable depends on the reliability of characters (...) [a] character may be considered an organised set of actional tendencies. If these tendencies contradict one another, change significantly, or alter in strange ways, the result is a questioning of character. Coherence (...) requires that characters behave characteristically. Without this kind of predictability, there is no trust (...) and trust is the foundation of belief' (Fisher W. , 1987, p. 47
- FIDELITY: "The principle of fidelity pertains to the individuated components of stories whether (...) they constitute good reasons for belief or action" (Fisher W., 1987, p. 105).



Narrative for Health Communication

According to the Narrative Paradigm, all messages are narrative, be implicitly or explicitly. Communication is always narrative both because the sender cannot avoid including narrative subtexts in any message he produces, and because the receiver cannot avoid interpreting the message through narrative schemes. Both sender and receiver are not necessarily aware of the narrative nature of their communication, because they both expect that narratives are recognisable stories, and they do not consider implicit narratives, which are instead most of the narratives embedded in communication.

Communication in the digital era is ruled by the same fundamental laws which ruled oral communication. As in oral cultures, also in the digital culture, people want stories, they want someone who helps them to make sense of events such as an outbreak; they need emotional communication rather than mere information. The goal of effective narrative communication in the digital world is to drive the audience to search for the proper information and process it by themselves. The convincing power of information found by yourself is unparalleled. In the digital world, people bypass any form of intermediation; they don't want experts to educate them, they think to be able to find the necessary information by themselves; instead, they ask for sense and sense-making stories.

Two CDC campaigns are good examples of a narrative approach to health risk communication, the "Zika Communication Toolkits" and the "Zombie Pandemic Preparedness".

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6.4.2 Narrative Messages

Narrative messages include four main fourth-level sections, each one links to a new subsection, (1) recon; (2) opening; (3) messaging; (4) closing. Each of these fourth-level subsections includes further fifth-level sections. Overall, they provide a comprehensive guidance to narrative messages for health and risk communication



6.4.2.1 Recon

The section Recon (Reconnaissance) provides entries for further four sections, which overall allows to pave the way for the message mapping exercise They are (1) target audience; (2) communication phase; (3) communication action; (4) canovaccio. A further link connects with the main relevant templates to be used in the Recon section.



Communication Phases

This fifth-level subsection presents the four stages of collective symbolic coping.







Communication Action

This fifth-level section connects to the Communication-Action Framework.



The Canovaccio

This fifth-level section provides a comprehensive description of the main tool to be used in the Recon phase, say, the "Canovaccio".



Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epid	emic Narratives	More
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-	BARRATIVES	METABARRATIVES	STHERE, METAPHON, ARCHETTPES, TROPES	EMARACTERS	HOUMES	
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The section consists in the theoretical explanation, including a video on the Canovaccio in the Italian Renaissance Theatre (*Commedia dell'Arte*), plus relevant templates

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Templates

This page allows to download templates relevant to the Recon phase, notably, (1) eight templates to assess stakeholder engagement; (2) two templates to describe the communication-action framework; (3) two templates to be used to sketch the message maps (both standard and narrative)



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A B C D E F G H I J



COMPARE STAKEHOLDER ANALYSIS MATRIX

		How could thi	s stakeholder			Level of		What are the	What level of engagement and
Stakeholder Team or Individual)	Role	impact the communication?	be impacted by the communication?	Level of influence	Matrix	support for project	Issues raised by this stakeholder	stakeholder's expectations?	communication will the stakeholder need?
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STAKEHOLDER-MESSAGE ANALYSIS TEMPLATE

			000
itakeholder name:		2	
Stakeholder Group	Progress	Quick wins	Long ferm issues/concerns
Target Audience Segment]		[identified]	
Communication Requirements)		[Gap sinit/ysis mapped to requirements]	
Master story]		[Macterstory chosen]	
Opening }		(Decided)	
Key Meccagat 1]		[Supporting Messages 1.]	1
Key Messages 2 [Supporting Messinges 2.1	
Key Messages 3 [(Supporting Messages 31)	
Closing]		(Decided)	
Evaluation)		[ionis]	

Stakeholder 1 Stakeholder 2 Stakeholder 3 Stakeholder 4 Stakeholder 5 Stakeholder 6 Stakeholder 7 Stakeholder 8 Stakeholder 9 🕞 👔

Aliana Network Notes and the second of the	ARCHETYPES	TROPES	YES or NG	TROPES	YES or NO		
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NVTDS Number Number Number Base And Base And B		Atenement		Partheura	Y	Andes Drink, The Wall of the Plague	Antaino Joon Graz, Banaporto Tiriting the Plague Victimz af Jaffa
NUTLIS Institution Protect CONTAGION Environmentation Environmentation Environmentation CONTAGION Environmentation Environmentation Environmentation Environmentation CONTAGION Environmentation Envir		Dleck	Y	Physical change uithaut effect		Frank Harbart, The White Plaque	Devial Dafes, A Javreal of the Plague Tear
CONTAGION Borins Peritors is services Sectors that is sectors that is services <td></td> <td>Blindness</td> <td></td> <td>Physical castect</td> <td>Y</td> <td>John Is Carro, The Constant Gardener</td> <td>Lucrotiur, Do Roran Hatura (the Plague of Athene)</td>		Blindness		Physical castect	Y	John Is Carro, The Constant Gardener	Lucrotiur, Do Roran Hatura (the Plague of Athene)
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CONTAGION Desize the graph of the field of		Claurtraphabia		Purity or. Impurity		Devid Wa, The Plague City: SARS in Terente	W. Samerrot Hougham, The Pointed Veil
NUTION Second Seco		Confined spaces		Querentine		Suphuelor, Ondipur Rox	Apulla's plague on the Achiene
NUTLIS Generation End of the second of the	CONTAGION	Contact through sympathy		Reinbau		Laur van Triar, Spidanie	Eccudur, 7:14-12:26 (the plaquer of Equpt)
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NYTHS Gain, and, nutilized Scatting Baseling Baseling <td></td> <td>Covenant</td> <td></td> <td></td> <td></td> <td>Gebriel Gercí a Márquez, One Hundred Ye erz af Salitude</td> <td>Poter Paul Rubore, The miracles of St. Francis Navior</td>		Covenant				Gebriel Gercí a Márquez, One Hundred Ye erz af Salitude	Poter Paul Rubore, The miracles of St. Francis Navior
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Algebra Algebra Base and output Formation Algebra Base and output Algebra Base and output Base and output	SCAPIGOAT	Fury		The endless fight		Mary Shelley, The Last Man	Ginvanni Buccaccia, The Decemeran
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				AUDIENCE AN	ALYSIS		
SALIENCE	POWER		URGENCY	DIGITAL CONSUMER PROFILE	COMPLIANCE	MAGICAL MODELS	AUDIENCE SPECTRUM PROFILES
DORMANT	High	Low	Low	Brand Advocates	Persuaded	Contagion	COMMITTED & SAVVY
DISCRETIONARY	Low	High	Low	Digital Moms	Conformist	Contamination	CONTENT & COMPLIANT
DEMANDING	Low	Low	High	How-to Video User	Obedient	Mixed	STRENGHT & HONOUR
DOMINANT	High	High	Low	Millennials	Ill-informed		HEALTHY & INDEPENDENT
DANGEROUS	High	Low	High		Negativist		PARANOID & CYNIC
DEPENDENT	Low	High	High		Free-Riders		AVOIDANT & SCARED
DEFINITIVE	High	High	High				TRADITIONALISTS & CAUTIOUS
POTENTIAL	Low	Low	Low				HESITANT & NATURALIST







	PHYSICAL				COMMUNICATI	ONAL		ACTION
IMPETENCIES (select)	INFRASTRUCTURE (describe)	LANGUAGES (describe)		KAIROS (describe)	CREDIBILITY (select)	CONSISTENCY (select)	THE STORY	ACTIVITIES (describe)
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							HATROMALITY FLAUSBOLTYT	
							FIDELIN	
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			MASS MEDIA COVERAGE		INTERNET SENTIMENT	SOCIAL MEDIA VOLUME	FACTS	
							RELEVANCE	
							CONSEQUENCE	
							CONSISTENCY TRANSCENDENCY	
							(Instanting)	
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			MENTAL					
INFORMATION OV	EREDAD Edesoribei	NOT ENOUGH HE	MING (describe)	NEED TO ACT TO	00 FAST Idesonite1	MEMORY D	ERLIAU (described	
							L	

COMMUNICATION-ACTION FRAMEWORK	ARCHETYPES, MYTHS, TROPES	STORIES	TARGET AUDIENCE ANALYSIS	CANOVACCIO	(+)	

STAKEHOLDERS	Pauer L	eaitimecr	Urgancy	Selience	Communication Moods	AUDIENCE SPECTRUM PROFILES
ekalder Graup 1: INTERNAL	ucu u	1 CH	9169	Definition	Information and meaning	COMMITTED & SATUR
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rhalder Grang St International Organizations	.00 W	IIGH	1.9%	Discolingary	Planibility	uthersha, auguert mirulifia rearanda, and are annuilled la preural spidenina theough participatory annuanization. The group includes all healt incliditions and agroupes, bealth ages professionals and multipith uniets regarizations.
						The group includes all healt includions and agencies, health care professionals and used sinil unsiely organizations. Also, patients and users might belong to this group. All digital profiles was be funned in the group. If prople of this
				+ +		group regrees, they lead to adopt adjusted forms of the unition of maginal unitagion and disease as a deserved
						panisharal. E.g., ElDa are partly due to human diarreparding major annial and ranironmental innorm.
						CONTENT & COMPLIANT
DIGITAL PROFILE D		cation Tips	Incore	Hyth	Havier & Havels	The group Content & Compliant chiefly includer health care professionals and patients, who are happy with information received and with the overall scientific medical approach to
They are been the management, these fibers had the been they and they must be bell. marked wheat it: They are walking asking along you, such, in successor, they are provided over the the st Minist har will assessor as a successor. It has been ask	Gern Hern in H	aleal; bicarcalae;	The keen, the leader, the monocolic	The Perigada, the Lant Han	ladiana Janen, Haey Skelley'n "The Laol Han"	infection watereals. They dan't want ta know more and comply with preventive measures, although a bit parvicely. All digital perfiles are represented in this group. Similarly, bath contamination and contagion view, properly adjuted, are represented in the group. When people in this group represent, they mightchaw beliefs and behavior informed bath by contamination and by majecia contagion theories. E.g., IDD are as word by wavepopletion,
Dienee.						pollution, genetic experiments, etc.
						The years floren it is the year if the year of the weak first in the birth, formation, beford (1960) and a first the birth, formation, beford (1960) and a first the birth, formation, beford (1960) and a first the birth of the second
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COMPLIANCE WITH HEALTH MEASURES				EATURES		
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	aflaraar) if a	aralealiar ar ar	raraliar behavior	er leigi, nanninale ahilde	en sysical measles) is prearised to be	The group Societael I Succed in made up of people and institutions who also consident behaviours, and whose deviations were also filly dislated by frare. The group instates health institutions when dominated by blane considerate werk coincer
	annial anna,	then these people	ere likely booke	ope and adjust.		apeniatized and general press, which might find more penfilable to well fear eather than eatimatily; patients and
						aaaaaneen, often abawing plakin and paranoid ceanlinns. Il in ool eare lkal digital moon an well as how-lo-niden overn
						kelang la thin yenny. Penyle and inutifations in thin yenny lead la segrena nerg sayidig. They alwas resultann kaned batk an analanination and an maginal analagina. E.g., EDD are named by humanematationing sada/Africanat Chinese
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L-INFORMED						professionals, way belong to this group. Some institutions might along behaviours apparently distated by the same
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	1. CONT/	AMI	NATION
_	A. THE PLAGUE-SPREADER		C. THE POSSESSION
П	Jürg Federspiel, The ballad of Typhoid Mary	9	Euripides. The Bacchae
П	Bram Stoker, Dracula		Jack Finney, The Body Snatchers
Ø	André Brink, The Wall of the Plague	2	Fyodor Dostoevsky, Crime and Punishment (Roskolnikov's Final Drea
Ø	Frank Herbert, The White Plague		Friedrich W. Murnau. Nosferatu
	John le Carré, The Constant Gardener		George Romero, Night of the Living Dead
	Norman Spinrad, Journals of the Plague Years	2	Rat-Catcher of Hamelin (popular legend)
2	The Plaque Inc. evolved	Ø	Joe Hill. The Fireman
2	David Wu, The Plaque City: SARS in Toronto	3	Stephen King, Cell
			we provide a second
	B. THE SCAPEGOAT		D. THE LAST MAN
Ø	Sophocles, Oedipus Rez	1	Mary Shelley, The Last Man
Ø	Lars von Trier, Epidemic		Eugène Ionesco, Rhinoceros
2	Randy Shilts, And the Band Played On		Reina James, This Time of Duing
2	Karel Čapek, The White Disease		Richard Matheson, I Am Legend
2	Gabriel García Márguez, One Hundred Years of Solitude	2	Pieter Bruegel, The Triumph of Death
2	Richard Wagner, Parsifal	2	Greg Bear, Darwin's Radio
	Alessandro Manzoni, The Betrothed And History of the Column of In	V	I Jack London. The Scarlet Plague
2	Alessandro Manzoni, The Betrothed And History of the Column of In Eugène Sue, The Wandering Jew 2. COI		Jack London, The Scarlet Plague George R. Stewart, Earth Abides GION
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COMPARE STANDARD MESSAGE MAP

Question or Co	ncern:					Map Nu	mber:				2	Date:		
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Key Message 1:		2	Key Me	isage 2:			2		Key Mes	sage 3:				2
lasert Key Messa	ge 1 here		Insert K	ey Messa	ige 2 here	. .			lasert Ko	ey Messa	ige 3 here			
Supporting Inform	ntinn 1-1:	2	Support	ing Inform	atian 2-1:		2		Supporti	ng Inform	ation 3-1:			2
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6.4.2.2 Target Audience

This fourth-level section is further structured into six fifth-level sections, which provide a comprehensive description of audience segmentation in COMPARE Risk Communication.



research, surveys, imerviews, narratives, etc.) but, sin more simply, they can be also created on the basis of communications practice and then empirically validated. Finally, noiher personas not audiofence profiles are objective, scientific, descriptions; instance practical tools whose aim is to drive effective, tailored, communication (Wedel & Wagner, 2000). In fact, target audience profiles are a typical marketing tool, which has been extensively used also in health communication (Chapman Walsh, Rudd, Monykens, & TW, 1993), (Young, 2016) and health risk communication (Yun, Gevender, & Mody, 2001) (Slater, 2006), (Turner, Rimal, Monison, & Kim, 2006).

In the health sector, segmentation per disease categories has been widely used, too (Zuckerman & Johnson, 2002). However, the most promising results have been achieved through behavioural segmentation.

Health User Segmentation

This subsection illustrates the concept of audience segmentation in health communication through some examples.

Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
EX	AMPL		EGMENTA IMUNICAT	TION IN HEAL ION	TH
in the lat	e 1990s the PAT	pting to Health (F	chographic model (PATH In	stitute, 2019) of audience profiles based	on health
populatio capacity identificat	ns, and across (by predicting bel tion of behavioura	geographic regions of the haviours and linking specifi	U.S., on about 250,000 adu c disease risk to detailed a	s and status; (2) trust in medical professi (H) model has been validated over tim ults. The model allows enhancing comm titudinal patterns. The model claims to g optimizing medical interventions and co	allow the
 Avoid Gene Famil Tradif Loyal Read 	ler — refrains fror eric — tends to ba ly-Centred — put tionalists — willin list — characteriz ly User — actively	ed by moderation in health c seeks and uses health care	until very sick or injured h a concern for quality er matters I tends to use the same provi are opinions and behaviours		
		Patter	ns of Adapting (PATH)	to Health	
		No	PATH 1: Critically Discerning	PATH 2: Health Contented	
			High health involvement Noderate nealth involvement	PATH 4: Traditionalist	
			Ithcare iven PATH 5: Family Driven	Family Centered	

		C. M. Solding C.	201			1
Dela	itto's Hoali	h Consume	San	mente		
Delo	ille s i lean	in consume	Jey	<u>Inerita</u>		
					alysis of U.S. health consumers based or alysis, Deloitte described 4 main audience	
	onsumer					
				wellness, willing to share da	ta) usted advisors, willing to use technology)	
 Hon 	nesteaders (reser	ved, cautious traditio	onalists)	to change, unengaged)	usica consolo, mining to use too moregy)	
• Dys	tanuers (complac		Cələtdi II I	io change, unengageo)		
	Del de			0.	a distant design and a	
		e's four consumer s care system	egments	s reflect distinct approache	es to navigating the	
			No. Alter			
		Trailbiaran	+ Most will	trentiators ling to share their tracked health int		
		Trailblaters	purpose	wy, use technology more than any s s we had a virtual visit with a doctor ai		
	Di	emographic profile	 Most like recommission 	ely to follow a healthy diet, exercise endation, and practice meditation		
	• 3	/oungest segment lighest income group	- M(2)	g behavlor. Likely to look up report card/scened	and of physicians, hospitally, and	
	• 8	More men than wolmen Most likely to be in		th insurance companies (likely to change doctors if dissatisf)	ed with communication	
		excellent freath				
		-		rentiators ely to share tracked health informat	on with a diactor	
		Bystancers	* Least will	lling to share data from an EMI (eler ble device		
			· Least like	ery to use technology for health care ery to follow a healthy diet or exerci-	se according to the doctor's	
		emographic profile Didect segment	 Shopping 	rendation; unlikely to practice medit g behavior:	a complete set on the state of	
	*L +3	nwest income group Nore women than men	1754/1	t likely to look up quality ratings for rance companies in choosing a doctor, most likely to c		
		Vost likely to be in poor neukly	CONV	enant hours t likely to change doctors or health p		
		-	Key diffe	rrentiators		
		Prospectors	share D		and a second	
		30%	fitness	most likely segment to use technolo		
		emographic profile	· in the m	o try virtual care visits (tied with Tra- iddle when it comes to following a h rcloing regularly		
	+5	Second youngest group Second highest income	· Shoppin	g behavior. n looking for a new physician, they p	orefer to ask their pomary	
	• Å	Nen and women in Youal percentages	heav	doctor or health professional for a r ily on word of mosth and friends w	hen making decisions	
		dam ber an angles	- Seco	nd most likely to look up quality rat th insurance companies	logs for physicians, hespitals, and	
		-	ney dirte	rentiators		
		Homesteaders	any segr	ly to share tracked health informati ment to share EHR or wearable data	with any organization	
		40%	/less inte	lowest segment to use testmology to srested in virtual visits		
		emographic profile	meditari	average when it comes to following ion, and exercising regularly g behavior.	a newrold pleat huncir line	
	15	Second oldest group Second lowest incisme troup	- Less Iseait	likely to look up quality racings for p th insurance companies; unlikely to	look up hospital-ranking data	
		Nore women than men	key t	n choosing a doctor, convenient loca considerations. Less concerned about		
			- Gess	gs likely to change doctors when dissa	undied with communication style	

Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More

ECDC Classification of Hesitant Parents

Target audience profiles are available also in the area of health risk communication on infectious diseases. In 2001. Scott Halperin (Halperin, 2000) presented a classification of hesitant parents based on his clinical practice, which had a large diffusion, and was later adopted also by the ECDC (ECDC, 2016). Halperin distinguishes between (Halperin, 2000, p. 64)

Uninformed but Educable These typically are parents who have been told by friends or relatives that they should not immunize their infant but do not yet hold those views themselves. They are looking for information and often are seeking help in countering the arguments of those giving them contrary advice. The chance of achieving a positive outcome (immunization) for infants of these parents is high. They are misinformed but Correctable. Parents in this group have more information than the preceding group, often obtained from a television or radio talk show, a parenting magazine, or the Internet. They typically have not been presented with the "other side of the story" and often are unaware that there is a counter-argument. Although occasionally resistant to giving up these new-found beliefs (the first information) learned about an issue is often the best-learned), they slowly may moderate their position, and frequently consent to immunization—if not they don't then dive them acto lottering. not that day, then at a later visit.

Well-Read and Open-Minded These parents typically have been exposed to the anti-vaccination information but have explored the issues more thoroughly through additional reading. They come to you for further discussion and for assistance in putting the proper weight on each argument. They appreciate your assistance in pointing out the fallacies or false logic of many of the statements and "facts" they have read, particularly on certain Internet Web sites. One needs to be well prepared for discussions with these parents, although, utimately, they will agree to immunization. Interestingly, these parents often provide phased agreement to immunization (i.e., they first consent to immunize with certain antigens and, over time, agree to the use of others).

Convinced and Content Parents in this category are convinced that immunization is bad for their children and are content with their decision. The only reason they find themselves in your office is to please someone else, such as their parents, who have badgered them to at least discuss the issue with their physician. As a paediatric infectious disease consultant, the author often is referred parents in this category, who agree to the referral so as not to jeopardize their relationship with their family physician. Success is unusual, and the most one can hope for is to plant a seed of doubt that may lead them to re-examine their position in the future. Extensive discussion with this group of parents is seldem productive is seldom productive.

Committed and Missionary These parents are typically "card-carrying" members of the anti-vaccination movement and come to your office, not to discuss the role of immunization, but rather to convince you that immunization is evil and that you should no longer immunize any of the children in your practice. A good clue that parents are in this group is that they rarely bring their children to the office visit. Parents in this category probably will cling to their beliefs and not appreciate the value of immunization; therefore, the extensive discussion is non-productive

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COMPARE Stakeholder Segmentation

This subsection provides the overall segmentation of COMPARE Stakeholders as well as the possibility to download the COMPARE Stakeholder Spreadsheet Registers.

that organizati plain organizat the last years tably in commi keholder grou janization and	on and its sha ional dynamics scholars hav unication theo ps - send an	areholders. This theory, v s in the public and mixed e been increasingly inte ry (Paul, 2015). Organiza	which was initially developed sectors (COMPARE W10, 20	pply stakeholder theory in other discipli	ised also t
the last years, ably in comm keholder grou janization and	scholars hav unication theo ps - send an	e been increasingly inte ry (Paul, 2015). Organiza	rested in the possibility to a	pply stakeholder theory in other discipli	
ably in comm keholder grou anization and	unication theo ps - send an	ry (Paul, 2015). Organiza			of the local division in which the local division in which the local division is not the local division of the local division in the
sical chord, b erpretations of ds are not at a MPARE stake re a direct rela en they partici	d groups, as w ut, more frequ messages rec ill rare in large sholders incluo ationship with pate in the CC	older group are both sen ell as for individuals withi uently, the whole messa areived, are internally diss organizations and stakel de internal and external, the COMPARE project a OMPARE consortium, or en nay be further impacted COMPAR	ders and receivers of mess n these subsets. These web ges emitted by an organizat orant, even openly or covert holder groups (Manning, 1992 and primary and secondary, nd are directly affected by it external, say, future users of C upon by COMPARE, throug IE Stakeholder Spreadshee	stakeholders. Primary Stakeholders are s outcomes. Primary stakeholders could COMPARE platform services. COMPARE gh primary stakeholders. By default, the	ets of thes istent, like and double actors whe be interna Secondar
		COMPA	RE STAKEHOLDER CATEGO	RIES	11
Primary	Internal	Compare Partners			
Primary	Internal	Compare Partners EC DG SANTE			
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	External	EC DG SANTE European Institution International Govern European Associatio Global Networks Global Info Resource Web Surveillance Social Media Influen National Health Insti	nance ns / Federations / Alliances es cers tutes and National / Regio onals		

Home Th	ie Tool	box	Comn	nunicat		COMPA		tive Me			-			pidemic	: Narra	tives.	Mor
		COMMISSION		NU AGE MERTS		TURDTEAN ASSOCIATIONS		EUROPIAN PHI WE		HATTCHAL HT ALTH INSTITUTIONS		NATIONAL HEALTH STAKEHOLDERS		CLOBAL HETWORKS		FOCIAL HEDDA	
Attributes	Weight	Rating (1-5)	Value	Rating (1-5)	Value	Rating (1-5)	Value	Rating (1-5)	Value	Rating (1-5)	Value	itating (1-5)	Value	Rating (1-5)	Value	Rating (1-5)	Value
Scientific Collaboration	Ø. J	3	0.05	à,	0.35	2	0.2	D	a	5	0.3	1	0.1	1	0.1	٥	0
Allocate resources / support research	6.3		0.45)	q	0	a	ñ	Q.	à	0.1	4	6,05	ø	0	e	ø
Share Data	0,1	2	o	1	0,05	0	E.	u	0	5	0,2	1	1,0	i.	0,2	2	D +1
Disseminate Information	0.1	Q.,	0.2	3	0.1	3	£,0	30	0.4	5	0.5	2	0.25	1	0,1		¢.9
Channel contents to secondary stakeholders	¢.2.	ā.	0.1	4.	0.2	,ą	a.2	4	0.5	Ĵ.	Ø.1	ż	0.3	ż	0.3	4	0.5
Provide Feedback	0.05	.2	a.1	i.	0.3	5	a.z	2	0. <i>1</i>	5	0.2	4	.v.¥.	2	0.3	- 1	0.1
Imposing Sauctions	0.05	2	0.1		ė.	-ú	-	π	e.	0	.0	0	ū	8		Ð.	ū
Total (Weight must total 1.0)	1.0		1.0		1.0	-	1.0		1.0		1.0		1.0		1.0		1.0

	SALIENCE	POWER	LEGITIMACY	URGENCY	TODO
LATENT	DORMANT	High	Low	Low	Keep them regularly informed and monitor their needs
LATENT	DISCRETIONARY	Low	High	Low	-
LATENT	DEMANDING	Low	Low	High	
EXPECTANT	DOMINANT	High	High	Low	Engage them and, if unsuccessful, isolate them
EXPECTANT	DANGEROUS	High	Low	High	
EXPECTANT	DEPENDENT	Low	High	High	
HIGH SALIENCE	DEFINITIVE	High	High	High	interact with them, learn from their feedback
POTENTIAL STAKEHOLDER	POTENTIAL	Low	Low	Low	Keep them in the loop


iome The Toolbo	Comm	unication Model	Narrative Message M	ap Periodic	Table of Epidemic Narratives	Mo			
Power/influence of stakeholders	 Iny to in gosilive crocial i 	& consult on intere crease level of inter messages		 involve in g 	ts on this group jovernance/decision making bodie consult regularly. rmetion	95			
	e keep in			(risk • meet their needs • consult on critical areas • discuss strategies • review results					
I	Stakeholde	r Interest				>			
EUROPEAN COMMISSION		IN FAVO	UR N	IEUTRAL	POTENTIAL BARRIER				
EUROPEAN AGENCIES WHO OIE		IN FAVO			POTENTIAL BARRIER				
EUROPEAN AGENCIES WHO		IN FAVO			POTENTIAL BARRIER				
EUROPEAN AGENCIES WHO OIE WTO, FAD, UNICEF, WORLD B	ASSOCIATIONS MIS				POTENTIAL BARRIER				
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												Opposite Neutral Positive	Relevance	Description	Score	Narrative						
EC, DG Hoalth and Consumers		http://ca.curata.cu/faad/animal/diresportsdarfindex_on.ht B	Leu	Hiqh	Leu	Dircrotionary	Latent	Hiqh	High	High												
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N2 Ministry for Primary Industries		http://www.hipre.curity.apvt.pz/baste/curvmamilyury	Leu	High	Lou	Dircrotionary	Latent	Hiqh	Hiqh	High												
UK Animal and Plant Health Agency		http://app.al/sUis/W	Leu	High	Leu	Dircrotionary	Latent	Hiqh	High	High												
N2 Ministry for Primary Industries		http://www.kipre.surity.apvt.pz/payte/survmam//wre	Leu	High	Lou	Dircrotionary	Latent	High	High	High												
British Calumbia Contro far Disoaro	o Cantral	http://www.haada.co/ahaut	Lou	High	Lou	Dircrotionary	Latent	High	High	High												
US Contors for Discore Control and Prevention		http://www.eds.amv/ht/sz/	Leu	Hiqh	Lou	Dircrotionary	Latent	Hiqh	Hiqh	High												
Canadian Faud Inspection Agency		http://ang.al/Xalu1)	Leu	High	Lou	Dircrotionary	Latent	Hiqh	Hiqh	High												
Swedich Board of Agriculture		http://ann.al/VomHxX	Leu	Hiqh	Lou	Dircrotionary	Latent	High	High	High												
EMEA		http://ann.al/UsCvKF	Leu	High	Lou	Dircrotionary	Latent	High	High	High												
DARTNot Instituto		http://www.dottopt.info/	Leu	Hiqh	Lou	Dircrotionary	Latent	Hiqh	Hiqh	High												
Univerzität Hahenheim		http://aps.all/20HzS	Leu	Hiqh	Lou	Dircretionary	Latent	Hiqh	Hiqh	High												
• • … Glob	oal Networks Internationa	al NGOs and Donors Global In	nfo Res	ources	Blog	js Web	Surveilland	e To	p Influenc	ers 🏻 🕅	lational an	d Regional	l Hea	lthRiskCom	munication	Expert	Stakeholde	r Table Risk	Communic	ation Strat		: •

Health Digital User SWOT

This subsection describes that four categories of digital users identified by GOOGLE barometer and illustrates their role in the health market, carrying out a SWOT analysis of their function. Each group is also provided with movie examples.



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Brand Advocates

Brand Advocates are extroverted, trustworthy, and extremely well-networked. Their strong presence and high standing in social networks enable them to influence the rise and fall of products and brands. The fact that almost 1 in 3 Internet users worldwide claims to be a Brand Advocate suggests the size - and relevance for marketing - of this vocal and well-informed group. Every single day, 50% of Brand Advocates comment or like posts and blog contributions, and 40% share content or links with others. These numbers show how communicative they are - and what makes them attractive, relevant partners for brands. Brand Advocates are an essential part of the purchase process. These are people who love talking to others about their favorite brands and do so both on - and offline. They like to stand out from the crowd, and others to become aware of new products through the Internet, and they research extensively about products and brands before making a purchase decision - almost 50% spent at least a few days researching their last purchase; nearly 3 in 4 spent at least a few hours. Moreover, they are open to many brands: 70% consider at least two brands. Moreover, where do Brand Advocates turn for information? 2 out of 3 Brand Advocates when researching a potential purchase - brand websites are an essential research tool when making a purchase decision. These websites are used by 31% of Brand Advocates, six percentage points above the average. The importance of brand resources carries over to social networks over twice as often as non-Brand Advocates keep track of trends at a far higher rate than non-Brand Advocates to be asked for fashion and technology trends - they are even 50% more likely to keep an eye on new movie release. Moreover, so an essential research moments, they are found on brand pages within social networks over twice as likely to keep track of trends at a far higher rate than non-Brand Advocates to be asked for fashion and technology trends - they are even 50% more likely to keep an eye on new movie r



Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
1. They 2. They 3. They Brand add in many of Brand add they are health; br Brand add population connectin advocates Brand add paramour public hea hardly equ	are health-consider are active online like to share their vocates are quite concurrent platform vocates are usual great testimonial ief, they are considered vocates could re- n and consumers ig people, and the s if they espouse vocates are trend it to present the alth because the pected to search	ious, they (think to) live heat shopper, and, on average, th thoughts and purchases ac influential; they are usually ms. Some brand advocates a ully more interested in wellin is for vitamins, supplements urners of "individual health." esult in powerful public heat , their advocacy could be ink ey want to be known for th the cause. Isetters; they do not like to for m new approaches and sol y do not like collective ente information on "obvious" inst	thily, and they want to tell the hey represent one to the weal ross multiple platforms. trusted because they are ver are celebrities (e.g., actors, si ess rather than in "hard" heal s, and over-the-counter med lith advocates, and since the credibly valuable. They are the eir valuable insights. For inst willow known paths and search utions, they must "discover." rprises and prefer to represe futional web sites.	thiest health consumer groups on the Inter y active online, highly networked, and are ngers, fashion-bloggers, sports stars, etc.). th issues, like epidemics and infectious of cines, but they tend to be disinterested by extend their reach to many different g e active and prolific creator of information. T ance, brand advocates can become great for trivial answers. If you want to capture th This can be particularly challenging in the nt themselves as free riders; brand advoc	net; present itbreaks; in public roups of hey love vaccine vaccine
Create ar you	nd Distribute Mea	iningful Content, Personaliz	æ their service; Keep them ir	the loop; Keep them happy, they will adv	ocate for
The hero,	the leader, the c	<u>oxswain</u>			
Movie Indiana Je	ones				
Movel Mary She	elley's "The Last N	<u>fan"</u>			
	Raiders of the L		zene (1981)	Watch later	Share

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ly in peers

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Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	Mare
		Dia	ital Mo	me	
The gap	between trendy	and the second s		ese are the Digital Morns. This new gene	ration o
nothers i amily es:	is well-informed, I sentials and to fu	highly connected, and trend Ifil their potential as bloggers	y from head to toe. These mo	oms make constant use of the Internet to b ate or curate content online at least monthly	uy all th
vomen, t	he Internet is an i	integral part of their everyda	y lives and how they interact	rs spend their time online. It shows that, i with the world around them, including brand	is.
esearch	was more intensi	ive than that of other online	users, with 4 in 10 spend at I	research before making a recent purchase, least a few days on research. While comput al Moms - smartphones are playing an inc	ers wer
mportant smartpho	t role. Among mo nes were used t	oms with babies under a y throughout the purchase pr	ear, over 4 in 10 used a sm ocess, from looking for early	nartphone to research their product purch y inspiration to product comparisons and o e purchase, for example, by searching for	ase, an collectin
store.					
new baby situations	comes a new se	et of needs and concerns, a ith new babies turn to the I	nd the Internet acts as a vas	rchase, whether online, offline or both. Why t knowledge bank. When confronted with th retailer websites, and, importantly, other p	iese ne
		DIGITAL M	OMS AS HEALT	HUSERS	
Strength			Weskness		
	trusted	mfor	word word-of-	MOLTH) E	
	* *	····	K	self-referential communities	
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Opportunity		//	Threat i		
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S	OCIAL MEDIA			> mistrust institutional	

public health themes

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ONLINE REVIEWS

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n. If you build a st

orm to the opinion of other digital moms within the s salf-referential communities, they mester word-offer ed to receive first-hand information from them...", her millionnial moms, compared to only 35% of the ar. 2007) a ly 35% of them ve rendation of an 'e ked their opinion ng the re er more than they are in a it is very e sy to s ch o er m ing details. This informational ps that, once it has been infi Swaim, Opel, & Boom, 2018). r more self-confin of one of the gro uningham. Guilte ims are indea i m

es, and by other o milies; they are a c w-income countrie oms are considered trustworthy within their social circles, and by ot ing health choices and decisions for their children and families, they ar alth services and products, not only in high but also in low-income cou d by, online reviews and social media recommendations, they can be word-of-mouth. In the US, they account for 99% OTC pharmaceutical gment to be ca , 2014). Digital tries (Lewis, 2014). Digital monts me very receptive to public health nline purchases (M2Monts®, 2018)

ind third-wave faminism are very important to millennial mothers, even more so than previous generati is institutional communication that they feel foo male-oriented. They need to be contacted by other in from non-partisan, transparent, friendly, "temale," sources. <u>"Traditionally, moms have been put in o</u> cether as a working mom or a stay-at-home mom. Millennial moms haits times distinctions (...) So mi on, "why do I have to be either one?" They do not want to be identified as one of two moms and marke

Make Your Message Easy to Share; Be A 'Go-Giver'; Share Your Personality

The modern woman, the blogger, the busy woman

Antigona

Sex and the City

Gebriel García Márquez's "Love in the Time of Cholera"



Home	The Toolbax	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
	}	How-To	Video	Users	

Among the vast array of content on YouTube is a select set of how-to videos. This type of video offers opportunities for brands to present their products or let them be presented by consumers. The style of these videos is creative and free, ranging from branded or professional product reviews to user-generated reviews and unboxing videos. However, that is not all - consumers show others how to cook, how to build, or how to clean up the garden after a barbecue best. So, who watches this content? First of all - viewers of these videos love infotainment and being creative and are highly active online. They watch more (and longer) online videos than the average user, and they also curate and create their online content on a nearly daily basis.

Even more, How-to Video Users are a large group: around the world, 2/3 of internet users watch YouTube at least once a week - just over 1 in 10 of those who watched YouTube in the last week watched doit-yourself (DIY) or how-to videos. Moreover, all this makes how-to videos an appealing method for markelers and brands to find a focused and captive audience in the digital space. A custom analysis from the Consumer Barometer describes what content is most interesting to How-To Video users, how they access online content, and how brands can leverage this valuable group. In general, 23% of internet users watch online videos because the user wants to learn something new - a number that jumps to 53% among those who watch how-to videos. This highlights the basic need people have to learn, to grow, and to become an expert. People watch how-to videos are typically watched in response to a specific need or problem.



HOW-TO VIDEO USERS AS HEALTH USERS

Home	The Toolbax	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
1. They 2. They	are creative and k are smart shopp	ove infotainment; they like us ers; they search for the mo	consumers characterized by ser-generated contents and us st cost-effective product and		ions and
3. They			o advise other people; as the	ey are content users, they are also content	creators;
				can have a significant influence on other us otivated. They like to share their experience	

As "How-to Video Users" show enthusiasm and support for emerging technology, they are also tough critics toward false innovation, they don't like to be targeted by ads campaigns, even by social marketing; their reviews can become devastating if you try to cheat them or even only to manipulate their beliefs; they do like honest and transparent guidance, while they do not forgive conflicts of interest and similar opaque situations. Public health communication should always play the card of total transparency and consistency with them (Seymour, Getman, Saraf, & Zhang, 2015).

If you want to please these people, you should provide them with active roles in creating and executing solutions to problems and opportunities. Among "How-to Video Users," there is also most of the subpopulation of staff returning from epidemics areas (Yun-Ju Song & Gruzd, 2017). Returning staff is a crucial channel of informal communication. Most of them are likely to be active in the cybersphere and on social media; they might have Facebook pages, blogs, etc. Some of them could even think to turn their former mission in the epidemic area into a means to reach some popularity or gain some money by publishing books and alike. They can be very helpful communicators.

Do not rely too much on reputation with these people; they are more loyal to their experience than to brands. E.g., returning staff could also contribute to the tailure of public health campaigns. Professional staff is less at risk, although one can never exclude this possibility even with them: informal staff – volunteers. NGOs, religious charities, etc. – are instead a group at high risk for disseminating negative information, because they are unlikely to have been previously trained in considering their collective responsibilities as informal communicators and they could be hardly monitored by health authorities.

Create Value for Them, Show your Progress; Listen and Adapt to Their Needs; Empower Them to Create And Execute Solutions

The couch, the explorer, the inventor

Prometheus

Back to the Future

Herbert G. Wells "The War of the Worlds"



Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
		M	illenials		
Voune nr	anla da nation a			online daily What do they do? Catch up o	n nonial

Young people do not go online; they live online. Some 90% of 15 to 34-year-olds go online daily, what do they do? Catch up on social networks. Research and shop online. Watch videos. They live everyday lives with their offline and online worlds intertwined. So, what makes millennials tick? A custom analysis from the Consumer Barometer answers key questions about this younger audience.

Millennials are not just digital; they are mobile. Smartphones are becoming ever more important: 3 in every 4 Millennials already go online with their mobile devices at least as often as they do with a computer. 1 in 3 goes online more often via smartphone. This younger audience demands access to information where and when they want it - 1 in 4 claims to be constantly moving back and forth between their devices.

What types of activities do young people do on their smartphone at least as much as on their computer? Everything. They visit social networks (67%), look for information on search engines (62%), watch online videos (56%), look up directions (51%) and research potential purchases (43%). Regardless of the question, Millennials look for the answer online. Search engines such as Google are the first port of call.

Ask Millennials about their morning routine, and their first act of the day is likely to be checking social media. At least once a day, around half will comment on or 'like' a triend's post. However, they also share news about themsetves more frequently than any other generation - they have a pressing need to communicate, to be recognized by their peers. If their life is a play, social media is the perfect stage, and their lines are written in posts and comments. Millennials are not just a target audience; they are a generation.



MILLENIALS AS HEALTH USERS

Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	Mare
1. Living for ar 2. Being that h cause) in a condensed, swers from healti cause-driven an lealth institutions a	, virtual, space/time, among h services, and searching fo ad motivated to work for the consistently promote princi	st digital and real; they have or instant gratification; millenni : fundamental principles that i ples; millennials are likely to t	generation of health consumers character a peculiar perception of time and distance als expect immediate access to informatio underpin public health, provided that they e attracted to an institution which is in pu- s. They search for consumer-triendly s	e, looking vn; perceive ursuit of a
imme Strength	diately share, and	d they pay great attention to	content curation, more than to	o content creation.	
represent are less value of h	ing themselves a concerned with in realth decisions.	is awkward, bureaucratic, st	tructures. Millennials are more	public health institutions, if these instituti concerned with the advancement of a c health campaigns which emphasize the	ause and
factors; u openness friend, or	s are considered nfortunately, they both in the physic health profession	y are hard to reach becau sical and the virtual world; t nal. Millennials are easier th	se they do not like constrain hey search the internet for an	chronic conditions, unhealthy behaviours its and obligations. They look for free s iswers before seeking health advice from we in fake health news; most studies sug r parents or grandparents.	pace and a parent,
work both able to co This is a	synchronously a onnect personally	ind asynchronously, working ; and they want to be able t	on demand. Emotional attach	id, a decentralized, dispersed, system, wh iment is crucial for the millennials. "They v iso need to feel some attachment" (Diesir create very strong bonds.	vant to be
process. adopting	They dislike con generation-specif	nmunication barriers and (fic communication strategies	one-way communication, quit	hey want to be included in the decisio le independently from information conte t, 2018) because they feel immediately th for health institutions.	ints. Also
	rkable; Create Bu	iy-In Early On; Show Them 7	They are Part of Something, B	igger, Be Interactive	
	it, the role-playing	g garner, the zombie			
Dionysus					
Novia Peter Par	1				
Novel The Lord	of the Rings				
8	Peter Pan (1953	e) - Peter Best Moments H	łD	Watch later	Share
	5		i		
			4		

Compliance-Based Classification

This section is devoted the COMPARE segmentation based on health users' compliance. This segmentation originates from an application of the T11 model for compliance with law enforcement measures, issued in 1994 by the Dutch Ministry of Justice. COMPARE adaptation to health measures consists in six categories, (1) conformist; (2) persuaded, (3) obedient; (4) ill-informed; (5) negativist, (6) free rider. Each one of them is provided with a sixth-level section.

Hame The Toolbox Cammunication		Periodic Table of Epidemic Nerratives Mc
We carried out a further, operational, catego either when an outbreak is expected to start communicators with a tool specifically focuse must be understood chiefly as an instrument behaviours. In 1994, the Dutch Ministry of Justice devel 2004), including eleven dimensions (Table of enforcement and compliance with regulations	rization based on people compliance (e.g., flu pandemics), or once the out d on operational needs. As many sim to orientate decisions, rather than a people a model for compliance with lat Eleven - TTI). Although this mode , it can also provide some useful insi	Classification with measures aiming to prevent or mitigate in bitreak is in progress. Its rationale is to provide her illar classifications in this area, also this classificat is a rigorous system for categorization of people a we enforcement measures (Dutch Ministry of Justi a was originally thought ordy in connection with ghts on people compliance with recommendations if classification into six major types of behaviour
	COMPLIAN	т
01		NFORMIST sciously compliant people OPEN
02		RSUADED inecusity compliant people
03		BEDIENT ay enforcement or calculatingly compliant people OPEN

Home	The Toolbox	Communication Model	Nerrative Measage Map	Periodic Table of Epidemic Narratives	More
		NON	-COMPLI	ANT	
	04			INFORMED iously non-compliant people OPEN	
	0 5	6.		GATIVIST cously non-compliant people OPEN	
	0 6			EE-RIDER or calculatingly non-compliant people OPEN	



These people are compliant almost automatically because they imitate other's decisions and behaviours. In this group, individual decision chiefly depends on social influence; if a protective or preventive behaviour (e.g., vaccinate children against measles) is perceived to be a social norm, then these people are likely to change and adjust (Hogg, 2010).

The goal with this group is to change their minds because if the adherence to health recommendations is only dictated by conformity, they will be continuously at risk to revert, once social pressure decreases. With these people, it is essential to avoid over-prescriptive and too assertive messages, which would increase conformity. Likewise, one needs to be very cautious conveying messages focusing too much on uncertainty, which could generate anxiety in these people, who are, basically, insecure and avoidant persons. Instead, it makes sense to be reassuring, to transmit the feeling to be in control, trying to involve them in decision making (Hogg, 2010)





 \boxtimes







COMPARE Audience Spectrum Profiles

This fifth-level section illustrates the COMPARE Audience Spectrum Profiles, providing sixth-level sections for each profile. The COMPARE Audience Spectrum Profiles include eight major profiles, specifically focused on health risk communication in EIDs and EEs. COMPARE Audience Spectrum Profiles is a new, sector-specific, segmentation for health risk communication on infectious outbreaks. The main purpose of Audience Spectrum Profiles is to provide health risk communication with a shared language for understanding the different audiences, with the aim to targeting them more precisely, engaging them and building a two ways communication. Audience Spectrum Profiles are designed to be more refined, granular, and advanced than existing health segmentations. They are based on people's emotions and mental models, which define frame people attitudes, health risk perception, and protective behaviour. The eight profiles are distinguished from one another by being each of them a peculiar combination of several variables. This mix is expected to enable health communications. They are fully integrated with COMPARE Message Map, where they are linked to segmentation based on salience as well. Audience Spectrum Profiles can also be used to recruit focus group and build panels to test health risk communication campaign.



Home The Toolbox	Communication Model	Narrative Message M	lap Pi	eriodic T	able of E	Epidemic	Narrative	5 M
	Comme Judinic Section Fighters	Linkinker Linkinker						
Home The Toolbox The Toolbox	AVY HEAL THY & IN FEAL THY & IN 1. Dan't owneds, Understand their in 2. Yes can see both antipolog, page	plicit message 1. Raise awareness	DN NEEDS THENGHT & H , isstil deebte, at actaphors, spat contamination ()Bran State, biog de Rhyse Stote	INGUR rold ambiguity rols and images	1. Be da 2. Yos c 3. Takain Necess	ar, avoid ambig an use both met	IDANT & SCAR guity and doubte, tapkore, symbols tamination reached. W. Manas, A	be short tod intges
CONTENT & COMP CONTENT & COMP CONTENT & COMP Instruction of the senses of information Area as a control state senses of information Control of the senses of information Control (Dimensional Senses)	os 1. Provide focesed information, liste d'images 2. Cheilig une metaploos, symbols a cettaliantio	a, in extreme case ad images of extreme case ad images of extreme case a finages of extreme case extreme case	i metaphors, synt I costanination (1) Eugène Ionesco, A whof Gass	their influence rols and images	2. Chieff contai 3. Take in: <i>Straig</i>	Confrontation,	ANDID & CYNIC , lastil desbtz, do rr, sysbols and in School Grichen, 75c - Sar sw):	a't over seass rages of

Home The Toolbox Commu	cation Model Narrative Message Map Periodic Table of Epidemic Narratives More
	Committed & Savvy
<section-header><section-header><section-header></section-header></section-header></section-header>	are committed to preventing epidemics through participatory communication. The group includes all health institutions and agencies, health care professionals, and most civil society organizations. Also, patients and users might belong to this group. All digital profiles can be found in the group. If people of this group regress, they tend to adopt adjusted forms of the notion of magical contagion and disease as a deserved punishment E.g., EIDs are partly due to the disregarding of major social and environmental issues.
Stakeholder segment potentially affected	 Compare Pariners European Institutions International Governance Blobal Epidemiological Networks National Health Institutes and National / Regional Statisholders Health care Protessionals Givit Society (NGOs, charities, Irade unions, protessional associations, etc.)
Digital Profile	 Any sterafic
Compliance Profile	· Employed
Archetype	• <u>Derfagen</u>
Mythe	• <u>JOURNEY TO THE AFTERLIFE</u> • THE HYDRIA
	8



Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
Sto	p measle just one s	s with hot. FREE on your local abit authority diseas to this contag	ed in their health, but scarce due autonomy, putting it over need to deal with health ins les, which are collective. Both group. When people in this g	It is chiefly made up of individuals act ly interested in collective health. They ten any other value. They are circumspect w titutions and when they must face infect brand advocates and millennials might be proup regress, both contamination and may erge. E.g., EIDs are not a risk for people fi	id to vhen lious long gical
	holder segr tially affecte	nent . _{Pa}	aith care Professionals titents / Users		
Digita	I Profile	. Ar	ıy in particular		
Comp	ollance Profi	. <u>o</u>	<u>risuaded</u> oedient onformist		
Arche	itype	• Ar	ıy in particular		
Myths	5	: 표	<u>IE SCAPEGOAT IE BRIGADA</u>		
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Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
na ant	ture's ibiotic	Hesit to us conve ecolo institu amon mome world intect	e, "official medicine." They a intional scientific approache gical approaches, which are tions are hardly dominated g patients and civil society are more likely to be Hesitar according to the categori ions through the notion of cor-	alist cluding people distrusting, or at least heait are supporters of alternative medicine. V as, they strongly support one health perceived chiefly in moral and symbolic v by this perspective, which is instead pro organizations. Among digital profiles, d at & Naturalist. This group lends to perceiv es of purity/impurity. They tend to inter tamination, adjusted to various contexts. of the environment by GMOs and genet	Vithin and ways sent ligital e the rpret E.g.,
Stake	aholder segi atlally affecti al Profile	ment · S sd	ied animals, ocial Media Influencers atients / Users	trade unions, professional associations, etc	
Com	pllance Prof		-nlormed epairvisi		
Arch		• 1	ontamination HE PLAGUE-SPREADER		
Myth			HE SCAPEGOAT	×	



Hame The Toolbax Communic	on Model Nerretive Message Map Periodic Table of Epidemic Narratives Mi
	Avoidant & Scared
The pandemic threat	The group Avoidant & Scared is made up of people and institutions who show avoidant behaviours, and whose decisions seem chiefly dictated by fear. The group includes health institutions when dominated by blame avoidance mechanisms; specialized and general press, which might find more profitable to sell fear rather than rationality; patients and consumers, often showing phobic and paranoid reactions. It is not rare that digital mom, as well as how-to-video users, belong to this group. People and institutions in this group tend to regress very rapidly. They show reactions based both on contamination and on magical contagion. E.g., EIDs are caused by homoseouals/immigrants/Africans/ Chinese people/etc. who bring us their diseases.
Stakeholder segment potentially affected	 National Health Institutes and National / Regional Stakeholders Specialized and General Press Patients / Consumers
Digital Profile	How-to-video users Digital Morns
Compliance Profile	• Ill-informed • <u>Negativist</u> • <u>Conformist</u>
Archetype	Any in particular
Myths	• <u>THE PLAGUE-SPREADER</u> • <u>THE HYDRA</u>
	因

Homa	The Toolbox	Communication Model	Narrative Message Mep	Periodic Table of Epidemic Narratives	More	
		Traditio	onalist & Ca	utious		
	HE PHARMAC INDUSTRY NOT CREATE THEY CRI CUSTOM	DOES belie CURES exam prote dicta the p avoid When forms	we that novelty is always p inned before being accepte ssionals, may belong to this g ted by the same motivations of recautionary principle). Actual lance than pure traditionalism n people in this group regres	roup. Some institutions might show behaves of the group (e.g., an exasperate application applications are more often ruled by to n. All digital profiles can belong to the g ss, both contamination and magical conto , EIDs are caused by the amount of medic	efully iealth iours on of kame iroup. agion	
	eholder seg ntially affect	ment . F	teatth care Professionals Patients / Consumers Xivil Society (NGOs, charities,	trade unions, professional associations, etc	2)	
Digit	al Profile	• 4	• <u>A</u> ny in particular			
Com	pliance Pro	file : g	<u>Dbedient</u> l <u>egativist</u> conformist			
Arch	etype		vny in particular			
Myth	5	: <u>}</u>	HE LAST MAN HE FLOOD			

Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More						
	Paranoid & Cynic MONSANTO NOTICE SUBLE GERMENTA WED RETORS										
BOYCOT Bethem Bethe Environ Scotten Scotten Scotten Borna Area con Reference Area con Reference Scotten Borna Born	FOODS THAT USE MONS bar be bar be call bes bar be call bes bar be bar bar be bar bar be bar be bar bar bar bar bar bar bar bar bar bar	AITO PRODUCTSI Celleb term Dant Severi Jam be to analytic messis participation be to and the analytic messis participation and to and to and to any to and the participation the participation	rities), patients, and in the makers, politicians, and journ /fillennials might belong to this conspiracy theory supporters lopt magical contagionist vie	civil society. If can also be represent alists Among digital users, How-to-video group, which also includes anti-vaoxer ac To interpret infectious outbreak, this group ws, chiefly in their paranoid form. E.g., -manipulation of existing germs.	ed by users fivists otend						
	holder seg tially affect	ment , p	iocial Media Influencers Ialients / Users Iress								
Digita	d Profile		low-to-video <u>users</u> fillermials								
Com	pliance Prof	ile . <u>N</u>	legativiet								
Arche	stype	• <u>c</u>	<u>'ontagion</u>								
Myth:	8	Ξ	HE HYDRA HE FLOOD								
				×							

6.5 Opening

This is a second-level section which originates from the Message Map section. It illustrates the methodology to create the opening story. The section provides four entries, (1) archetypes; (2) myths; (3) paradigms; (4) seven story plots, and a link with a section devoted to characters' creation.

<section-header><text><text><text><text><section-header><section-header><section-header></section-header></section-header></section-header></text></text></text></text></section-header>	Home	The Toolbox	Communication Mode	l Narrative I	Message Map	Periodic Table of	Epidemic Narratives	More				
<text><text><text><section-header><section-header><section-header></section-header></section-header></section-header></text></text></text>	to) the a must refu audience elements dimensio This stor story, or "good re	The opening is a short story based on the outcomes of the Recon phase. Its goal is to be recognised and to orient (provide a direction to) the audience. If the story is properly chosen, it will be felt familiar and populated with details by the audience. The opening story must refer, directly or indirectly, to relevant aspects of a given Communication-Action Framework, addressing the specific target audience. To do so, the best strategy is to select a story in the canovaccio or to outline a new story by using the main canovaccio elements. Stories and elements must be chosen according the main variables previously listed (e.g., physical, communication-Action Framework; target audience profile and communication needs; archetypes and myths; etc.). This story will become the master story of each given Narrative Message Map. Each Narrative Message Map must have its master story, or a common storyline, which provides the map with consistency, internal coherence and narrative rationality, in a word, with "good reasons" (Fisher W., 1987). The master story of a communication campaign or a message map is the most delicate phase of the										
<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	whole pri interview The mas episodes series of the main	ocess. Success o s. ter story will neve . Episodes, or mi images; a short to features of the ta	hiefly depends on this o er be told as such; it will cro stories, are not neco video; a piece of creative rget audience, and healt	lecision. It is hig remain in the ba essarily texts or t e nonfiction; and h communicators	hly advisable to ackground, acting to be based on so. The decisior s' competencies	pre-test it by using g as a placeholder i verbal narrations. T i depends on the re and skills. One of t	g, e.g., focus groups or for creating smaller, frag hey can also be an im levant communicationa	in-depth gmented, age, or a I context,				
Simple patterns based on polar oppositions, good/bad, down/up, black/white, earth/sky, light/dark, animate/inanimate, etc. → More complex metaphorical namimate/inanimate, etc. → More complex metaphorical so. → → More complex metaphorical namimate/inanimate, etc. → → Article for the set of the se	communi in some metonym communi	communicators in an endearing way, suggesting that they are not just "expert", but they are experienced and directly affected, at least in some ways, by the issue. This objective must be pursued with great tact and caution by using symbols, metaphors, implications, metonyms. It can also be searched by using (1) non-verbal languages, e.g. body language and prosodic elements during face to face communication; (2) colours, fonts, layout, graphs in written and digital communication; (3) hypertexts, tags and keywords in digital										
oppositions, good/bad, down/up, black/white, earth/sky, light/dark, animate/inanimate, etc. → → → → → → → → → → → → → → → → → → →								_				
	opp dow ear	ositions, good/bad, n/up, black/white, th/sky, light/dark,	narratives, built themes such as i shadow, fall, bir	around specific mpurity, guilty, th, re-birth, and	novels, shor and drama, p	t stories, theatre aintings, music ,		ed				
		CHARACTERS										

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Arcł	netypes
1988), (Manetti, Barcellona, & Rampoldi, 2003), (Adam & Rove	
Contamination is generated by the simple polar opposition purities, in turn, the transformation of an older binary couple of chassea-chaos, earth-ecosmos, thus sea vs earth, etc.) which sindistinct magma. Contamination is a breach in the ordered u and so) into an uncontaminated, well-ordered, world. The idea is inherent to the metaphor of contamination. Today "patients fe civilization, where the ancient dreams of mankind have been immediate experience into symbolic systems of highest comarpulation" (Wurmser L., 2000). In other words, technole scientists and technologists) as though it were magic. This is solved it is contained and recept word many and magic contact). The fundamental and creept everywhere, infecting people with its deadly power.	sylimpurity. According to Mary Douglas (Douglas, 1966), purity/impurity os/cosmos. These couples generate a myriad of similar couples (e.g., nare the characteristic feature of opposing an ordered totality to an inverse, the breaking of the indistinct (chaos, death, disease, impurity, of 'magic transformation' - a radical change which is due to any magic- al supported in their hope for magical transformation by the spirit of our transformed into outer reality to an astonishing degree by translating mplexity, and these in turn by mastering things through technical gy is often perceived and used by people (and sometimes also by s not always evident, more frequently the surface is still shaped by cover that the power of technology is perceived in magic terms (e.g., icon of contamination is the "miasma", the impure air, which spreads
Contagion is generated by the polar opposition sacred/profan which generates several other polar couples including restoration/redemption, shame/purification, secluded/public, et of "tragic transformation" – "a process of profound change b conflicts of conscience), through insight, and through action, o cause" (Wurmser L., 2000) - is inherent to the metaphor of fundamental themes of all contagion narratives. The icon of co (they are an attribute of healing gods in most human cultures) and the Hydra, the many-headed scriptert of Greek mythody metaphor, including both the idea of healing and the idea of religion, is also the god who generates epidemics by means of	2. Contagion implies a fundamental tension of moral-religious nature, atonement/resentment, guit/atonement, death/rebirth, sin/salvation, . Central to contagion is the idea of the wrath of God or gods. The idea ought about by suffering, through massive inner conflict (particularly ir active work, in behalf of somebody else or in the service of a great contagion. Tragic and heroism, as well as sacrifice and re-birth, are tagion is the snake/arrow, that is simultaneously the poisoned arrows .g., in all Indo-European cultures, but it is also by Moisses in the desert) , which cannot be ever totally defeated. Contagion is a double-edged spreading: Apollo, who is the most important healing god in Greek his poisoned arrows, which hit people like snakes.
CONTAMINATION	CONTAGION
The <u>AGENT/POLLUTANT</u> can be any object or person or action	The <u>CONTAGIOUS AGENT</u> is a powerful force, either human or supernatural, or natural
The <u>POLLUTANT</u> is out-of-place, there is always a border-trespassing event in contamination	The <u>CONTAGIOUS AGENT</u> causes a mix between sacred and profane items
There is no need for voluntary <u>transgression</u> or sin to generate impurity	The challenge is always generated by any form of <u>hubris</u>
Impurity does not depend on the nature and dose of the contaminating event	<u>Contagion</u> does not depend on the nature and dose of the contagious event
Impurity resists to purification; the bad is stronger than the good;	There is <u>no shield against contagion;</u> the bad is stronger than the good;
A contaminated object or person makes <u>impure</u> other objects and <u>persons</u> , but objects and persons made impure in such a way are not necessarily transmitting impurity outside	<u>Contagion is a chain,</u> where each link links another link
Contamination spread at a distance through the " <u>miasma</u> ";	Contagion spread through contact, like <u>poisoned</u> <u>arrows</u> and poisonous snakes;

Home	The Tablbax	Cammunication Model	Naivative Message Map	Periodic Table of Epidemic Nerratives	Mare
	2	Contam	nination	<u>Myths</u>	
a series of		THE PLAGUE SPRE	ACIER .		
		THE GAMESONT			
		PORSESSION THE LAST MAIN			
		Conta	agion N	<u>lyths</u>	
	K	JOURNEY TO THE	AFTER LIFE		
X	New York	THE HYDRA			
T-NOR		THE FLOOD			
X		THE BRIGADA			





Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
● <u>1</u> P Y P B C ● ● P B C ● ● B C ● Gent H S Y II ● S Y II ● B U C ● B U C ● B U C ● S	acter collectio ung's Archetyp ropp's Dramat ogler's archety earson's heroi levins' family haracter types eroic character eroic character eroic character agical charact agical character agical character exual character ove characters outral character D and 3D char TEAL character he Fatal Flaw	ns <u>pes</u> <u>is Personae</u> <u>ypes</u> <u>c archetypes</u> <u>roles</u> <u>s</u> <u>proupings</u> <u>ers</u> <u>acters</u> <u>is</u> <u>ters</u> <u>acters</u> <u>is</u> <u>ers</u> <u>acters</u> <u>is</u> <u>ers</u> <u>acters</u>	haracter	rs	






6.6 Messaging

The second-level section Messaging consists in two main entries (1) key messages; (2) supporting messages. The third-level section Key Messages provides three further fourth-level section, (1) key message 1 (instructional); (2) key message 2 (mobilizing); (3) key message 3 (actionable).

The third-level section Supporting Messages provides three fourth-level section devoted to the first, the second and the third groups of supporting messages. Moreover, it connects with a comprehensive section devoted to Persuasion and Supporting Message Building, which includes videos, persuasion matrix, and persuasion tips.





















Build a resonant relationship	People do not believe in communication campaigns; they believe health communicators. Health communicators must be honest and sincere; this is chiefly built by showing that they are somehow affected by the issue. Sometimes it is enough to use a warm tone, some others one must show weaknesses, such as uncertainties and doubts. Developing a sincere interest in relationships and friendships with others is the first step in the persuasion process. Concern, caring, compassion, interest, and a desire for the wellbeing of the audience must be real. If communicators ring false, they will never persuade their target audience.
Use contents and processes	Open Situries should rever be neutral or "external". Fisting somes are stones which heads the audience because, in their contents or processes, there are elementa that the larget audience recognize. Use archetypical and mythical stones to solve themes that are lamitar to the audience.
Adopt the audience point of view	Oper. Stories must initially adopt the audience point of view. People must feel stories in tune with them. Only in a further phase, stories can diverge showing alternate outcomes to the same premises.

Share part of you with the audience	To create resonant relationships, it is very helpful to admit a weakness. Admitting a fault allows communicators to be viewed as far more credible. Supporting stories must explicitly point out any potential negative aspect of the health campaign. This accomplishes two important things. First, it makes communicators appear far more trustworthy, and second, it allows the target audience to be set at ease since communicators are doing their job of finding drawbacks in the health campaign. Techniques based on admitting weaknesses work only if they are sided by positive techniques. If they are used in isolation, they could be counterproductive.
Find a common enemy	Supporting stories must also be used for indicating a "common enemy". The common enemy can be an internal enemy (e.g., economic disruption due to an epidemics) or an external enemy (e.g., mosquitos) or a personal enemy (e.g., people who do not use condoms). The latter option is often chosen by the press and the public opinion, it is, however, rather dangerous because it frequently implies stigma and social/ethnic/cultural conflicts (e.g., the enemy is the plague-spreader. TRegardless of whom the enemy is, identifying him, her, or it will allow communicators aligning themselves with the audience against this enemy. Of course, the enemy must be carefully chosen among credible enemies.
Make people identify with the story	Supporting stories must provide elements for easy elemitication. They must be shaped on the larget sudience so that the public can easily see themselves in each operation Open

		l Narrative Message Map	Periodic Table of Epidemic Narratives	More
Induce reciproci	to	eturn with something of similar v ley become sincere as well. This	e, most people answer with sincerity and ho	sincere, less of
Be Precis			data and figures; people unconsciously feel	better
listen inten	isely			i neaim
	reciproci	Induce reciprocity Be Precise	Induce reciprocity they become sincere as well. This stories. The most they are credible Be Precise Supporting stories must provide when they think to the store stories must provide when they think to the istan intensely. Each fime that supporting stories for processes, they must explicitly refer	Induce reciprocity they become sincere as well. This principle can be used to test the effectiver stories. The most they are credible, most people answer with sincerity and ho Open Be Precise Supporting stories must provide data and figures, people unconsciously feel when they think to rever got extremely specific information. Be come sincere as used. This principle can be used to test the effectiver open Open Be come sincere as used. They think to rever got extremely specific information. Open Each time that supporting stories are created in the course of communicate presence. Their must previous previous are created in the course of communicate presence. Their must previous



Use testimonials and influencers; report rather than argue	Testimonials and influencers who endorse, or directly tell, stories transmit their personal credibility to the message. In any case, it is better to report instead of arguing. Rather than writing or stating "ZIKA is transmitted by mosquitoes, protect yourself", say or write "John Smith, distinguished Harvard professor who is investigating ZIKA in Brazil, argues that 'ZIKA is transmitted by mosquitoes' and warns to protect themselves". People tend to believe more in reported statements than in direct arguments.
Consider thought contagion	People tend to share behaviours and adopt group thinking. Supporting stories must induce people to identify themselves with groups and adopting collective behaviours when they are positive. When collective behaviours tend to the opposite (i.e., negative and disruptive behaviours), thought contagion must be contrasted by emphasizing individual action.
Use presupposition	The presupposition is an established hypnotic technique; it aims to get people to imagine the outcome communicators want. Imagining something is the first step toward getting it or avoiding it. Through presupposition communicators get the audience to come to a predetermined conclusion. The technique is based on accompanying messages to introduce supporting stories. They usually seem to be warning messages, like "this story would seem to be invented, " or "you will not believe this story true,", "You will not learn any lesson from this story, but ". These are implicit suggestion aiming at inducing what they apparently deny. People who are not protecting themselves against these suggestions often tend to follow them.

Use Outcome- Based Thinking	Supporting stories must be selected and cristed according to the outcome communicators can to achieve. The process of selecting stories must start from the desired outcome and their going backwards.
Inoculation	Supporting stories can be used to inoculate views in people. This is usually achieved by suggesting that these stories are not for convincing the audience, but they are tools communicators are providing the audience with. The implicit assumption is that the audience don't need to be convinced, but they need good arguments to convince their friends, families, colleagues, etc. While they get these stories as something they can use to convince others, they are unconsciously captivated by them.
Use Music to Persuade	Music has a biological connection to the mind and body that no one can fully explain. Music persuasive power has been well-known since Gorgias and Aristotle. Whenever it is possible, supporting stories must be accompanied, stressed, commented by music. This is particularly helpful in digital and hypertextual communication.

6.7 Closing

The third-level section of the section Messaging illustrates how sketch the closing story.

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Closing is again a short episode created within the scope of the master story. Closing story consolidates the 3 key messages, strictly associating them to the master story. The closing story must always be "projected" in the future, communicators must never onclude with stories which tell of the past or only of the present. The emotional tone of the closing must be in line with the tone of key message 3. The closing story must be chosen to have in mind the following questions, what precisely do we want out of the narrative message map? 9. What precisely do we want out of the narrative message map? 9. What is the least we will accept out of the narrative message map? 9. How will we deal with each one and, if possible, use the problem as a benefit for the audience?							
resolutior		nange and protective action;	; (3) crisis warnings and eme	rgency information; (4) problem solvir ② JOINLOGIN	g and conflict		
	THE GOOD MIEN PROJECT [*] The conversation no one else is having. [*]						
Home	/ Featured Content /	The Art of the Ending			_		
Th	e Art of t	he Ending		TRENDING POSTS			
The la	st word belongs t	o the reader.		Turning in my Man Card	3 Privacy 🗸		



6.8 Resources for Narrative Messages

The section Resources for Narrative Messages provides links with relevant external webpages devoted to narrative building and storytelling. Moreover, it connects with Linguistic Inquiry and Word Count", LWC2015, which is the gold standard for in this field (Tkaczyk 2010). LWC analyses texts extracting 80 different variables information about, 1) frequencies and percentage of total words, and their emotional colour; 2) analytical thinking, say, the degree to which the text uses words that suggest formal, logical, and hierarchical thinking patterns, and rational arguments; 3) clout, say, confidence, authority, and assurance that the text communicates; 4) authenticity, say the degree of honesty and deception in the text; and 5) emotional tone, resulting from the balance between positive and negative emotions that the text evokes.









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7. Periodic Table of Epidemic Narratives

The Periodic Table of Epidemic Narratives is a first-level section which connects with 118 tropes and motifs to be used in epidemic storytelling and narrative building. Each box links to an external web page.



8. Compare Manuals

COMPARE Manuals is a first-level section which provides links to download four original COMPARE manuals, (1) Communication: Theories and Models; (2) Health and Risk Communication; (3) Message Map Methodology; (4) Face to Face Communication.



9. Spreadsheet Toolbox

The first-level section Spreadsheet Toolbox allows to download all COMPARE spreadsheets, organised in six main sections, (1) stakeholder analysis (4 sheets); (2) COMPARE Stakeholder linking with Narrative message map (2 sheets); (3) Communication-Action Framework (3 sheets); (4) Standard Message Mapping (3 sheets); (5) Narrative Message Map (4 sheets); (6) Evaluation Tools (3 sheets).



10. Educational Materials

Educational Material is s first-level section which includes nine second-level subsections. Each second-level subsection consists in downloadable texts and spreadsheets, external links, one videogame devoted to pandemics, and overall 35 COMPARE educational videos.









10.1 Cultural Analysis for Health Risk Communication

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Social groups are both stable groups (e.g., demographic groups, such as being female or male; French or American; young or senior; etc.) and contextual groups, which "come in many formats—great and small—such as Rockets fans, Coca Cola drinkers, stay-at-home-pops, white supremacists, environmentalists, Republicans, Buddhists...(..)" (Brock Schater, 2016). Digitalization makes this scenario still more complex and nuanced because people belong now not only to a number of physical networks and groups but also to a large variety of digital networks and communities. The notion of "partial identity", developed within the context of digital identity management , provides an explanatory illustration of this new situation. Each partial identity corresponds to a group to which the individual belongs; some groups are stable enough, provided with a recognisable cultural identity (e.g., the group created by one's own family), some others are instead volatile and dispersed (e.g., the virtual group of VISA card owners), yet nowadays also the most dispersed groups and virtual communities share specific meanings among their members, thanks to digital communication and the Internet. In fact, today marketing techniques often target these very groups. Scholars also speak of "subcultures" to mean cultures shared within specific subgroupshaving beliefs or interests at variance with the larger group to which they belong.



However, the distinction between cultures and subcultures is largely matter of value judgment, e.g., usually no one speaks of "medical doctor" subculture, atthough medical doctors tend to share beliefs and behaviours within a wider culture; instead scholars speak habitually of, e.g., "punk subculture". Culture provides people with the overall framework to understand, and react to, events and other people around them. Culturel understanding is thus critical to mitigating risks to be misunderstood, notably in interconnected societies and during the times of crisis.

Culture shapes how people comprehend their world (worldview), and it is the filter through which they organise their experience. Even perceptions are – at least in part - culturally determined. Perceptions, information, experiences that are not consistent with people worldview trend to be voluntarily rejected or/and unconsciously distorted, or repressed, or denied. For instance, in an animistic culture, in which every object is perceived as provided with a soul, one is culturally legitimate to believe that inanimate objects have sandiments. In western culture, believing that objects might feel and act is considered a sign of instantity. Consequently, an adult western person would hardly admit attributing sentiments to objects. Nevertheless, most people immediate reaction - when, e.g. they shut their finger in the door - is to "blame" the door instead of themselves, in other words, repressed arimistic aspects emerge. Health communicators must be aware that experts' understanding might be quite different from people perception. If communicators assume that the audience will perceive infectious outbreaks the way they do, they are probably going to misunderstand people. This mistake is called "minor imaging". Minor imaging is dangerous because it leads communicators into thinking that their notions are shared by the population, rather than investigating people's point of view.

All cultural manifestations within a given culture are interconnected and mutually obterent. When facing misinformation and health false information, communicators may be tempted to think that the problem is that people are not enough informed or are scientifically illiterate. This is rarely true. People CAN be not enough informed and scientifically illiterate, yet the true point is that information and science literacy are necessarily filtered by people's worldview. So, for instance, if according to the standard cultural account, public authorities and policymakers are untrustworthy, it will become very difficult – it not impossible – to create trust in health communication. By acknowledging interconnections between different cultural aspects, communications can better assess how the target audience might near to their messages. For instance, when health communications fail to appreciate the overall cultural acreacy they may anticipate that suggesting people wash their hands will be perceived only as an obvious recommendation to reduce the spread of disease. Yet, hand washing is a gesture full of symbolic meanings in many cultures, and it has a ritual significance in many religions. Therefore, it might happen that a simple hygienic recommendation is charged with extra meanings, and followed or rejected chiefly because of these extra meanings, instead of its original series. So, quilte right, an important chapter of 2009 WHO Gaidelines on Hand Hygiene in Health Care (WHO, 2009) is devoted to "Religious and cultural aspects of hand hygiene".

Culture is transmitted through verbal and non-verbal languages, is learned through explicit and implicit training and education, is shared among individuals. Native people of a given culture are formed by that culture; they start learning it since birth, by being immersed in it. When one speaks, e.g., of "native digital", one means people who have been immersed in the digital environment since very early age. Culture is historical; it depends on actual people, is consistent with its spoch, and charges over time.

One of the kays to success (and failure) in health communication is realizing that citizer changes chiefly by overlapping cultural layers rather than by totally substituting them. Culture progresses through inclusion rather than through exclusion. A given social group, or a community, retains the memory of past cultural forms, and embraces several lavels, like an archaeological dig. For instance <u>latenting</u> and dancing mania are two blatant examples of menial contagion; they are today almost disappeared. Still in the 1950s, anthropologists had the possibility to study them in <u>country tileges in Southern table</u>. Scholars recognized in compulsory dancing and psychogenic symptoms, the remnants of ancient rituals and cultures dating back to Neolithic religions.

Past cultural layers, which operate at the level of the social unconscious, tend to emerge during crises. This notion contributes to explain the emergence of archetypal mental models of infectious disease, allowing to formulate a general law: the more people involved in an infectious outbreak (normal criticaris, but also journalists, public officers, and policymalers) are under stress, the more they will tend to regress to past ways of thinking, although dressed in modern terms and shaped in apparent scientific forms. As a rule of thumb, the more serious the crisis is perceived, the deeper such a regression will be. Communicators must pay great attention to these dynamics. They must be ready to switch rapidly, and go back and forth, from scientific to 'magic' negisters, always keeping an eye on non-verbal communication, that becomes more and more important as communication regresses to magical forms. Regression during outbreak crises can occur because of a number of factors, but probably the greatest cause is a rapid decline in security. As security declines, the threat of hospitalization, quarantine, isolation, economic disruption, death, forces people to resort to mental models which once proved to be effective in mitigating fear and arooty (both at individual and collective levels).

Communication planners and strategists need to recognize as soon as possible this phenomenon and plan for addressing it. For instance, during times of crisis, increasing fear and anxiety through warning messages is rarely a good idea, because this would immediately accelerate mental regression to magic thinking. It is instead important to find the right way to reassure the audience, listening them and using targeted, tailored, communication, although providing complete and proper information.

Cultural Variables

Many variables need to be considered in cultural analysis, the most important are (1) Beliefs, values, norms, symbols and religion; (2) Environment; (3) Socio-economic factors; (4) Cultural Leadership; (5) Social Unconscious.

bond individuals together, they are – with blood ties – the first, basic, structure of each social group. A family, a group of friends or colleagues, an organization, a religious community as well as the whole society, they all exist as long as every single member of these groups shares some specific and peculiar beliefs, values, norms and symbols with all other members of the same group. John Smith belongs to Smith family because he shares with other family members a set of micro values, beliefs, norms, symbols, which are peculiar of that family because he shares with other family members a set of micro values, beliefs, norms, symbols, which are peculiar of that family because he shares with other family members a set of micro values, beliefs, norms, symbols, which are peculiar tvalues, beliefs, norms, symbols; they might concern the way in which pasta should be cooked or what music is to be heard during Christmas, they could be idiomatic phrases, ways to say, terms of endearment, little things that one would hardly call "Culture" with a capital C, yet they are what provides an identity to that specific family [f a family – as well as any social group - does not share its own private, insignificant, culture, it exists only on paper. Then, John Smith belongs to the group made up of people working in the same office with him, also with these people he is sharing a number of specific values, beliefs, norms, symbols; the same happens with all groups to which John Smith belongs, till to the most is general ones, to be British, to live in the XXI century, to be human. People share different sets of values, beliefs, norms, symbols at each level of their social existence. The more these sets of values, beliefs, norms, symbols at each level of their social existence. The more these sets of values, beliefs, norms, symbols at each level of their social existence. The more these sets of values, beliefs, norms, symbols at each level of their social existence. The more these sets of values, beliefs, norms, s

Beliefs values, norms and symbols are transmitted through verbal and non-verbal languages, both implicitly and explicitly, within social networks (e.g., family, friends, colleagues, etc.) and between different networks belonging to the same wider cultural area. Understanding them is critical for effective health communication, Failure to respect or understand the beliefs of a social group of stakeholders can result in argumentativeness, even opposition, towards health institutions and health officers. The same, health communication failed in endingeness and books, and to talk to and listen, people Vet, the main cultural problems we are facing today do not concern either health officers in geographically remote areas, dealing with local communities; or health professionals working in an intercultural environment. These are very important issues, in fact, there is a large corpus, almost a plethora, of guidance, manuals, guidelines, handbools – some of them published by international agencies such WHO and UNESOC - devoted to transcultural and intercultural health communication. There is instaad little research on cultural issues in health risk communication on the Internet. Digital communication is usually conceived as 'rranscultural' in that is a form of communication which surpasses the distincion between dingragage. Moreity visual, which gives up subfietes of speak a language that is understood across cultures. Fone would loss nearosci. In almos, cartoon from The New Yorker, and no one knows your ethnicity, gender, age, social class, and so. Some authors as Lary (Lévy P. 1997), (Lévy P. 2013), and Fichy (Fichy, 2001) speak of the cybersphere as a visual community and a visual space. The function of the sciente than imagined by the seary of the Internet as a Transcultural' induced by its own cultural gracultures. The kone in Heiner, and so one knows your ethnicity, gender, age, social class, and so. Some authors as Lévy (Lévy P. 1997), (Lévy P. 2013), and Fichy (Fichy, 2001) speak of the cybersphere as a vistual

Health communicators need to think globally and to act locally; they fit perfectly with the glocal nature of the digital world. The first point of the digital culture that must be considered is that in the Internet, communication is much more about the way you communicate and how you each, rather than the messages that you sord. Failing to understand this fundamental nule of the digital sphere has generated homble mistales in health communication. Call it consistency to being trustworthy; ultimately, the audience's perception is that really is what really matters. The second nule of digital communication is that health communication as way that can be easily understood by their target, chiefly to build a positive perception about their messages on a global level. Today, health risk messages must be though on a global scale, because they address global problems as well as a global audience; at the same time, health risk messages end to persuade people living, and physical channels. "Global" thinking is thus the capacity to identify and familiarise with, signals coming from different cultures, so that one can intuitively fine-tune his global communication in a written language to another one. Messages resonate on the Intermet. In other words, each communication evokes a web of other texts and communications; this is the law which governs hypertexts. Misinterpretation is common on the Internet, notably when addressing local cultural force" to be effective. You can use either native language to another one. Messages resonate on the Intermet. In other words, each communication must be perceived geographically content sharing the way that geople in that area perceive egidemics. Also, observing metaphorical usage of words, each text. Communication must be perceived geographically close" to be effective. You can use either native language to another one. Messages necessages can be a window into understanding the way that geople in that area perceive egidemics. Also, observing metaphoris, sponty, nowls, movies, movies,

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consider hierarchi most Isl theologia <i>Muslims</i>	Religion used to be a significant force in shaping beliefs and behaviours concerning infectious diseases and epidemics. Today, in secularised western society, its influence on people health beliefs is marginal. The effect of religion needs to be more carefully considered in other cultural contexts, e.g. Islamic countries. One should also remember that most world religions do not have a hierarchical structure and official representatives, this means that the way they deal with health issues may widely vary. For instance, most Islamic leaders have affirmed that vaccination is consistent with Islamic principles and in 1995 a conference of Islamic theologians stated " <i>The transformation of pork products into gelatine alters them sufficiently to make it permissible for observant Muslims to receive vaccines containing pork gelatine</i> " (Institute for Vaccine Safety, 2010). Yet, some Islamic communities, e.g. in Indonesia, Malaysia, Nigeria, still object to vaccination.							
and regi living in commun access t al., 2014 quantitat ASSET (relations WHO O extensive Chagas other infi studies i difference issues n Abraham devoted COMPAI speech, Health c macro a commun	onal communities remote villages, ication. The litera o preventive mea 4) carried out a ive studies as we (ASSET, 2017). H hip between env utbreak Commun ely discussed in p (Ventura-Garcia, ectious diseases s that they tend t ies. The risk of ac ot addressed by in h in the WHO B to transcultural RE. Ding conclu vicious rumours, ommunicators ne nd micro levels a ication. The curre , is one of the micro	and a social groups such or in deprived areas, or in ture on these groups is huge sures such as vaccination, r systematic review devoted all as literature reviews; the i Most studies consider cultura ironmental context and cultur ication Planning Guide (WH4 bapers addressing communit et al., 2013), Ebola (Store) (Savoia, et al., 2008), (Sum o overlap culture with ethnici topping an approach based of the psychometric paradigm u ulletin in 2009. A scholarly information during SARS ef des her book warning again and racial discrimination again	the inhabitants of a city) and border zones, etc.). Some o a, although chiefly focused on ather than health risk commu- ather than health risk commu- l to strategies for reaching sue has been comprehensin Il barriers per se, or as a dire ure is hardly considered. It i O, 2008). Cultural barriers co- cation between indigenous pro- d, Chithis, Obregon, & Garris era & Suhail, 2016), (Culbert ity, treating cultural issues rai l only on the psychometric pa- under different headings (e.g. book authored by Huiling D pidemics (Ding, 2014), is ins host the risk of "systematic ra- gainst Chinatowns and Asian communication will impact ou- ment, which is an additional, ween health authorities and s	e. This holds true both at macro-level (e.g. d at micro-level (e.g., people in social hou f them are typically hard-to-reach-group in health care access during infectious outbr unication. In 2014, Bonevski and coll. (Bon the hard-to-reach, including 146 qualitat vely addressed also by the EC FP7 funded ct consequence of socio-economic conditis s, for instance, only marginally considered nnected with environmental conditions are population and health care providers in relat on, 2017), Zika (Peters, 2016), SARS ar son & Scholl, 2013). The main weakness sed by infectious outbreaks only in terms of radigm to explain cultural questions, cate , ethnicity, socio-economic, etc.), was sigr ing, professor at North Carolina State U stead fully in line with the perspective cf cisms in epidemics", "the widespread use communities during SARS" (Ding, 2014, utural aspects related to terrain, consider ubiquitous, environment that affects toda cientific experts, and the conversation in the ent is becoming increasingly relevant to he	ising, or n health eaks, or evski, et iive and project ons. The d by the instead tion with id many of these of ethnic gorising gorising gorising gorising gorising gorising alled by niversity, iosen in of hate p. 254). ing both y health ice public			

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example for inforr of a hor rest to b related to regard to because emerger For insta other pa	, press journalists mation, often look mogeneous mass icators need to u be drawn into povo o socio-economic hemselves and no povor conform to their t we are made ncies and epidemi ance, if contagion ance, if contagion	ory of COMPARE stakeh nee, in communication durin ing to outside health agenci of people; instead it is sta inderstand which category o wer conflicts among stakeho factors and power relations factors and power relations ow they are felt and recogni identifies in order to confl up of multiple partial ident is spreading among childre gital moms are also, e.g., lo	olders should be carefully g epidemics, it is essential th alists, TV journalists, Internet ies, because information mea- nuctured in different social ro f stakeholders held power in loders and possibly waving wi hips is that of identity, Identity sed by others. Identity, In turn rm them: identities are inher ities and there is not such i nphasize certain identities, su en, the identity of digital more wavers, teachers, melodrama	cultural perspectives. The overall social examined because it is unavoidably at communicators realize that differing gr informal reports and bloggers) may each res and functions. Notably during times the communicational field. Otherwise, the th their communication strategy. A conce is a general term used to describe how in , filters people's worldview. In other word ently circular. Understanding identity is a thing like a 'unique identity'. In time ich as one's profession, age, gender, fami will be probably emphasised at the exp lovers, per owner, etc.). Communication	affecting oups (for compete made up of crisis, y run the pt strictly dividuals s, people intricate of health ly status.
Another to identi public ex people of online le role at a commun which di were aw problem the issue trusted - because influence networks	important cultural fy in structured si on't view establic addership. In the d all. In some areas icator understane igital culture grea are of their role a viith them today e they are speaki a and often they a t they are not "l ers who are celeb s. Sometimes they i, notably when th	I feature concerns 'influence ocial groups because their aders, leading clinical docts shed scientific authorities, ligital sphere, people are infl s of health communication, d well the rationale of influe thy differs from the pre-digit and power, when they were is that people search for au ing about, in their life. Ever re not – they efficacy in driv ving thing', they don't sp rities, are also testimonials), y are not even aware of be y are motero-influencers (si	role is codified and often for recognized experts as legitin fuenced by a variety of group these informal leaders may nears' engagement in online al world. In the pra-digital we involved in health communics thenticity; they want to hear o n if official authonties and le ing the public opinion in the or eak personally. In fact, onlin , rather they are digital world-o ng "influences", in fact, they	specific outbreak. In are leaders and opinion-makers. They malized (e.g., newspaper editorialists, re- hate or effective, the more they resort to is and leaders, most of whom have no int have great influence. It is important th communication because this one of the ord influencers were recognised people and the second second second second printers from their peers who are facing, aders, and professional communicators, inter work would be arguable. They are n the influencers are hardly testimonials (<i>k</i> -mouth amplifiers, who spread informatic are rarely hired, or any way paid to dis kploit their influencing power is to engage	cognised The more informal stitutional at health points in and they iso. The or faced, were still ot trusted although, on in their seminate
indicator clicks, co engagen subject. who we some m	s (KPIs) such as onversions and wo nent; (3) content Usually, influence re famous before ega-influencers b	(1) volume of likes, shares, absite traffic coming from so sharing analytics, which a rs are empirically categoris.	, comments, followers and ret cial channels, which are a bit flows searching for the mos ed as. Mega-influencers, with	ncers, they include established key per tweets, which are simple and intuitive me richer parameters to measure the degree t popular contents being shared around n milions of followers. Usually, they are c and musicians, political leaders, etc.). Iso in "physical life". There are several th	trics: (2) of social la given elebrities
millions (mixed, c perform. that, 1) Male (2) Cong 3) Endor 4) Celeb	of people, who we elebrities can be i A meta-analysis (endorsers perform ruent endorsers p rsements of unfam	tch their movies or listen the more effective as they speal of 46 studies published unti n better than female endorse erform better than incongrue niliar objects perform better s perform best when compa	eir songs, but are their advice c of health problems that have I April 2016 involving 10,357 p ars do. ant endorsers do. than endorsements of familiar	re, celebrities are followed on the Internet going to be followed? Research findings a personally experienced, less when they o participants (Knoll & Matthes, 2017), confi objects do. perform less well compared to quality sea	are only rmed
1) Celeb were no 2) Actor: Instead,	average effects fo s perform better th the study rejected	s positively affect consumers or attitude toward the ad. han models, musicians, and d that,	TV hosts do.	d object when compared to no endorseme	ent. There
 Implic 	it endorsements p	effects of celebrity endorse effects of celebrity endorse perform better than explicit e y has no impact on consume		ess. ural intentions.	
are prof including people's - becau identify i commun from the commun	essional commun also people who choices more effi use they are felt h relevant online co	vicators (e.g., journalists, b b have only hundreds of fol ectively than mega and mac vonest and sincere by other mmunities and influencers	loggers, experts, and so). N lowers. Micro-influencers ca ro-influencers - e.g., micro-inf r users. To be successful in H and develoo strateoies to w	cers, they are digital native celebrities. O licro-influencers, with fewer than 100K i n get exceptional engagement, and they luencers who belong to "How-to Video Us wealth risk communication, health officers ork with each of them in order to increas th communication today is unlikely to gain e online popularity of single influencers a onitoring can be easily done using soci	followers, can drive er" group ; need to se health
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The notion of groups of ind	social unconsc ividuals living in	ious emphasises the idea n the same timeframe (th	that mental contagion is n hrough synchronization and	ot only a horizontal phenomenon, d/or desynchronization of gestures herations. From a biological point of	occurring within , voice prosody,
generation co generations a	orresponds to t is a relay race, i	he time necessary becau where before dying some	use an individual is taken one gives the baton to his s	over by his progeny. You should successor. Biologists consider the	imagine humar length of humar
generations - (the beginning	defined in such g of Western civi	terms - to be 70 years. It i ilization): 40 persons in ve	is then easy to calculate the ertical included Ulysses and	e distance between us and, e.g., M I us.	oises or Ulysses
the world he/	she comes into	contact with. All living b	eings, in fact, live in an alı	slowly transformed by the individua most osmotic contact with the en	vironment which
to the enviror prefabricated	environment wh	ort of reciprocal adaptation nich comes with a complex	n. The environment preceder c catalogue of messages ar	; at the same time, the person tries es the individual. Every human bei nd stimuli, which will influence her. embers according to its existentia th continuous interaction. The wor e emotional colouring of the soc	ng is born into a Each group also
expresses its individual rea individual fror	own social und cts to conditioni n the verv begin	conscious whereby it striv ing attempting, in turn, to nning: mother's fantasies.	es to shape each of its me condition the group throug father's words, but also the	embers according to its existential h continuous interaction. The wor e emotional colouring of the soc	l modalities. The ld acts upon the ial group, are all
of which he d	ch influence the efines himself i	newborn's perception, an n an inalterable dialectic to	id which contribute to the to ension. No one of us is an a	ormation of that constellation of va atom or a monad: on the contrary of	lues in the midst each one of us is
recapitulation anything but	 so to speak the matrix of inc 	 of past generations ar dividual human minds; this 	nd the point of arrival of se s matrix is embedded in the	rizontally and vertically. Each or veral human networks. The socia e ongoing, huge, almost infinite, w s sensorial stimuli (e.g., sounds,	l unconscious is eb of messages
are used to to	ons, etc.) and v ansmit various	types of information to er	fucate to teach to perform	all possible social actions. For a	small proportion
sensorial stim perceived by spotlight of	uli and linguist individuals und awareness. Imp	ic messages are explicit, ler the threshold of awa plicit sensorial stimuli are	the largest part of the mat treness, either because the e variously patterned toos	trix is instead implicit and is made y are subliminal or because they ther and with linguistic messag is timuli. Coded stimuli can be nor etc.) and verbal (words and sente	up of messages are outside the es. In fact, the
unconscious gestures use	is made up of s d to communica	ensations and linguistic n te, music, prosody, visual	nessages, which are coded communication and icons,	stimuli. Coded stimuli can be nor etc.) and verbal (words and sente	n-verbal (think of inces). While the
communicatio	in, via the same	mechanisms which expla nomena of mental contagi	in "mental contagion". A ho	nscious matrix is transmitted thro prizontal group made of 40 individu	uals can become
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We ar (transg long pe scientifi within 1	e not puzzled t enerational) grou riod, while they a ic explanation; it i	by these phenomena in h ps. Yet, this is only due to ou are quite a short period cak s enough to apply to vertical		tend to consider them quite odd andional distance. We imagine that 2 Dire does not need any special biolo groups our knowledge about what us	
Within r	e not puzzled t enerational) grou riod, while they ic explanation, it i iorizontal groups.	by these phenomena in h ps. Yet, this is only due to ou are quite a short period cal is enough to apply to vertical	norizontal groups, while we ur distorted perception of gene cutated in generation terms. C (historical, transgenerational) picin the nature and the gene	tend to consider them quite odd erational distance. We imagine that 2, one does not need any special biolo groups our knowledge about what us eic of the reconscious meetal matrix	s in vertical 800 years is a gical theory or ually happens
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Within r Horizoi emerge Messa conside them. I conver	e not puzzled i enerational) grou ic explanation, it i norizontal groups. ntal and vertical n as individuals. Y ges are shared irs both their hor jing lines. This i	by these phenomena in h ps Yel, this is only due to ou are quite a short period cals encupt to apply to vertical rental contagion together ex fel, they don't explain withy within actual networks. The izontal and vertical dimension one of us is thus offlue distinct makes us contemporarily e	norizontal groups, while we ar distorted perception of gene cutated in generation terms. C (historical, transgenerational) plain the nature and the gene re are individuals and not only re is a countless, almost in mon. Yet, every one of us belo from all other individuals be qual to all other human be	tend to consider them quite odd rational distance. We imagine that 2, One does not need any special biolo groups our knowledge about what ue sis of the unconscious mental matrix if the sum of given patterns. The ans finite, number of human networks, nego only to a imited, attrough still vi ause he originates from a unique of togs but also unique. He elements	s in vertical 800 years is a jical theory or ually happens from which we wer is simple. notably if one sst, number of combination of of the social
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10.2 Credibility and Digital Trust



Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
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To illustr	ate the dynamic pplication. The m	of digital trust COMPARE han nodel includes the following v	as developed a simple prot <i>r</i> ariables	otype model of digital trust, exploiting a	n <u>open-</u>

- source application. The model includes the following variables
 Data volume and infrastructure (mining, sharing, processing, storing);
 Users: data source, trustors, and the beneficiary (they are 3 functions, not 3 categories, each user is, in different moment or simultaneously, can be source, trustor, and beneficiary);
 Misinformation, distrust, reluctance, trust, credibility

Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
These va trigged b time nee hidden ro quantitat scientific except D	ariables are linked y previous nodes ded by each sigr elationships betw ive variables. It is literature – of ma ATA. which is 100	d to each other by effectors, f . The strength of the signals . That is target, say the een variables or to provide a rather a qualitative instrume anipulating the main variable:). We have tested 6 elemen	acilitating or inhibiting through – either facilitating or inhibitin to distance between nodes of 1 forecast of the system behav nt aiming at representing grap s of digital trust. We start from larv scenarios.	an ongoing system of signal reverberation g - depends on their relative numbers an the graph. The model does not aim to un iour, given that it has not been built by usi shically the likely effects – according to the n an ideal system, where variables are all	on, nd the avel ng e zeroed,
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syst ofe 3.lnje the	quilibrium in v cting RELUCT previous one	able to react effectively which distrust, reluctanc ANCE/HESITANCY but less dramatic. It d	y and, although several of e, and misinformation do he system - As growing	eycles alternate, it tends to reach o ominate the overall scenario; reluctance; this scenario is very c ve state of equilibrium, and it do	a state lose to
4. Stre scel relu 5. Inje	ngthening T nario, the syst ctance, distrus cting CREDIS	RUSTORS - In this so tem reaches a steady-si st, and misinformation, SILITY in the system	cenario trustors increa tate in which all variable which are prevented gro - Growing credibility	se in strength; it is the most p es peak, except the three negative wing, although they initially cycle; produces effects very close able and tends to cycle long term	e ones,
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10.3 Frames and Mental Strata









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	Standar public vaxers Nemesi used b pure, (1	rticle published on Jan 22, rd is a good example how it is with paradoxical messages. T s. It starts with a dramatic q is. Yet, editors illustrated it wi y thousands anti-vax posters, blonde hair and blue eyes) b inated by an impure syring colour of the syringe, which i	s possible to provide the he article criticizes anti- uote from Philip Roth's ith the very same picture , an innocent, beautiful, laby who is about to be ge of vaccine (note the	Anning Yaandard. all-Faccine lies are putting children's ver at risk. Step them now IDD 145	



VERBALLANGUAGE The use of language in messages can be verbal, vocal or textual, and non-verbal, it depends on the setting and the form of communication. Most guidelines and manuals spend pages to describe the main features that must possess an effective language in health communication. In 2007, the U.S. Centers for Disease Control and Prevention's National Center for Health Morketing published Plain Language Thesaurus for Health Communications a report offering "plain language equivalents to medical learns, phrases, and references that we given use. The technical terms found in health information can be confusing. This thesaurus is a tool to help you find words that people may understand better". In 2007, the U.S. Department of Homeiand Security Risk Steering Committee published a comprehensive DHS Risk Lexicon, also including health risks. Furthermare, the WHO (WHO 2005) and the EFSA (EFSA 2015) provided recommendations about how avoiding too technical language and medical jargon in health emergencies and during food or feed safety incidents. Institutional reports, as well as leading health and risk communicators (Sandman, 1993), (Peters, Covello, & McCallum, 1997), (Sandman, 2007), (Covello, 2009), agree on the following. • messages must contain an effective number of positive words; words as "no", "never", "all" - that can reduce the focus on positive messages - must be used sparingly; • language must be focused; the devil is in the details; too many details kill the message; unnecessary information distracts; • the shorter the message, the dearer, especially when people are scared or in trouble (also including policy and decision-makers during crease) because they have more difficulty to	<text><list-item><list-item><list-item><list-item>The use of language in messages can be verifiely vocal or textual; and non-verbal; it depends on the setting and the form of communication. Most guidelines and manuals spend pages to become the main features that must possess an effective language in health communication. In 2007, the U.S. <i>Centers for Disease Cantrol and Pervention's Notisional Center for Health Notestering</i> published <i>Plain canguage Thesourius for Health Communications</i> a report offering "plain <i>language equivalents</i> to <i>metical terms, phrases, and references that we affer use.</i> The technical pro- <i>terms found in health information can be confusion.</i> This the teconics of tool to heip out <i>field</i> <i>words that people may understand better</i>. In 2007, the U.S. Department of Homeland Security <i>Ris Steering Committee</i> published a comprehensive DPS <i>Risk</i> Lexicon, also including the tesh health <i>invavo</i> avoiding too technical language and medical jargon in health emergencies and during food or feed safety incidents. Institutional reports, as well as leading health and risk communicators for a deal after incidents. Institutional reports, as well as leading health and risk communicators for a deal after incidents. Institutional reports, as well as leading health and risk communicators for the dister must be simple and clear, although adequate to the audience. Institute an enduce the focus on pasitive messages - must be used sparing?: . Institute an enduce the focus on pasitive messages - must be used sparing?: . In shorter the message, the clearer, especially when people are scared on in trouble (abo process information distrast: . Institution policy and decision-makers during crises) because they have more difficulty to process information. . Institute policy and decision-makers during crises) because they have more difficulty to process information. . Institute the message, the clearer, especially when people are scared on in trouble (abo process information). . Institute the message of the devide to enverte the test on the state and thave commu</list-item></list-item></list-item></list-item></text>	<text><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></text>	<text><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></text>	<text><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></text>	Táditida	.Communidatio	There is a second	s Hessege Hep	Periodic Teola of Edidemic Warretive
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 also use symbols, charts, icons, imagery, sounds, music; don't use only words or text; in oral communication, always consider non-verbal messages, body language, eye contact, prosody, pauses, and so; symbols, charts, icons, imagery, sounds, music, as well as non-verbal languages, must be used purposely to produce redundancy; redundancy is essential for message memorization, without boring the audience; We all recognize the street prohibition signs if it is used in the context of health communication, it likely 	appearance, numbers are not used to convey actual information but to convince the audience that the message is scientifically sound and supported by evidence. In reality, all four messages aim only to convince	sppcarance, numbers are not used to convety actual information but to convince the audience that the messages almontly sound and supported by endowed, in reality, all four messages almontly to convince the sudience that cancer, asthma, fru and autism are supported by the numbers to instant and support and head in the support of the sudience that cancer, asthma, fru and autism are support can head in the support of the sub- sub- to convince the sub- to convert and the support of the sub- to convince the sub- to convert and the support of the sub- to convince the sub- to convert and the sub- to convert and the support of the sub- to convert and the sub- to convert and the sub- to convert and the support of the support of the sub- to convert and the support of th	dependence, numbers are not used to convey actual information but to convicte the audience that the message is solarifically sound and supported by evidence. 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white as a sheet white night- sleepless	green hands	= funeral green with envy green thumb white as cloth	green jokes
white as a sheet white night- sleepless	green hands	green with envy green thumb white as cloth	green jokes
white as a sheet white night- sleepless	green hands	green thumb white as cloth	
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egg-yolk = yellow		white night- sleepless	white night+ sleepless
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	black like the night	black like ebony	black like coal tit
red wine	red wine	red wine	coloured wine
green with fear		blue or white with fear	
orange light	yellow light	orange light	yellow light
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The Toolbox Communication Model

Narrative Message Map

Periodic Table of Epidemic Narratives

Mental Strata

Mental strata, or levels, are space representations of the mind proposed by Matte-Blanco (Matte-Blanco, 1998) to describe bilogical structures. Matte Blanco was one of the most eminent psychoanalytic scholars of the second half of the XX century. With his ground-breaking research, he attempted to formalise the theory of the unconscious using the formal logic of Russell and Whitehead. According to Matte-Blanco, mental processes are ruled by two very different logics, (1) the classic logic, that he calls asymmetrical, which is based on the principle of non-contradiction; (2) the symmetrical logic, which is instead based of sets, classes, and propositional functions. Asymmetrical logic is the logic of lowed by conscious thought, which allows the conception and perception of concrete and well-delimited things, like a person, an object, a though referring to a concrete fact, a single abstract concept, etc. Symmetrical logic is the logic of totality, which ignores singularity and particularity. It is characterised by (1) absence of contradiction so that any assertion is equal to its negation; (2) absence of distinction between mental and external reality. Symmetrical logic is the mode of functioning of the most archaic mental functions; unconscious mental processes are chiefly ruled by symmetrical logic. In normal human development and structure, each stratum is well-differentiated from those above and below and shows different functions. Higher strata allow grasping isolated objects, relations and wider identities and sets. The description of the human mind in strata, ruled by different logics, is operationally helpful to describe different modes of framing and organizing communication. Matte-Blanco conceives the mind as a classificatory system, which is constantly at work organising experience into different categories; this makes his approach particularly relevant to communication theory.

Higher Strata

At the higher strata, the human mind handles qualities, nouns and individual concepts, etc., chiefly by applying the principle of non-contradiction. The world is perceived as an assemblage of local events; information is perceived as a difference ("a fracture") within some context; metaphysical explanations of totality are argued; scientific hought emerges; cultural relativism might emerge as well; the notion of causation dominates; risk of loss of sense and fear of non-sense might be acutely perceived. Wellstructured narratives, complex artistic languages (e.g., music, novels, paintings, sculptures, theatre, dancing, etc.), scientific knowledge, and factual information belong to these strata. People in good mental health, in ideal conditions, in the absence of any major stressor or emotional pressure, usually adopt

People in good mental health, in ideal conditions, in the absence of any major stressor or emotional pressure, usually adopt frames generated at this level to filter reality. Higher filters do not exclude deeper levels of thought and communication, but the latter remain in the background, they do not rise to the surface and do not take control of conscious thought and voluntary actions, at least in standard situations and normal mental conditions.

Communication which targets higher mental strata is explicitly based on facts, discrete pieces of information, overt values, rational arguments. Stories are used as specific examples instead of metaphorical parables. Emotions might also be immediately visible at this level, 7 like this?, 1'm scared by this?, 1' feal guilty for this?, etc. People are only partly aware of framing communication through emotions; they tend to underestimate emotional influences and overestimate rationality power. This is the dominant model of health risk communication, with all its strengths and faults; notably it is the standard model today under discussion, put in crisis by the Internet model of social communication, which makes direct appeal to deeper mental strata.

Deepest strata

The deepest mental strata are the strata in which the human mind operates through actions and generalizations, sets and classes, which are its primary and most fundamental contents and operational scheme. Archetypes and myths belong to these strata. At this level, most communication is understood in general terms; an ongoing web of connections is established among concepts, attributes, and actions. The world is perceived as a totality full of intentions and meanings; all facts seem to be interconnected and to make sense.

People who chiefly function at this level are likely to suffer from any severe mental disturbance, although they can be apparently well-functioning in their social and professional life, except when one touches their nucleus of archaic beliefs. Typically, they tend to perceive themselves as exceptional individuals; they reject criticism and hardly admit the possibility to be wrong. Sometimes, they depict themselves as hyper-rational and claim to base all their decisions on evidence; other times, they emphasise their intuitive skills and capacity. They tend to suffer from paranoid perceptions, which might also turn into explicit paranoia or major depression. People whose mind works chiefly at this level might espouse radical anti-vaccine positions, conspiracy theories, ecofundamentalism, radical animalism. Communication which targets the deepest strata must exploit archetypes, symbols, and myths.







10.4 Listening and Speaking





The Toolbox Communication Model Narrative Message Map

Periodic Table of Epidemic Narratives

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GUIDANCE FOR EFFECTIVE F2F COMMUNICATION

Communicating is different from informing

Communicating is different from informing; it is not just "passing down" a piece of information; it is not just declarative. Communication is not yet "truth-telling", still less telling nothing at all; it is the way to get to the listener's truth. The key to good communication is to understand the perspective of the receiver. This is very difficult. To understand anyone else's perspective is always difficult. Finally, communication is never purely cognitive not even just "in the head". It always involves emotions, even when it seems purely rationale and the context in which communication takes place the social, human, context.

Communication is often (mis)represented by using clichéd expressions such as "two-way communication", "dialogic communication" and so. People use these trite expressions, imagining that they mean a physical exchange of statements, back and forth, between senders and receivers, in such a way that each player shares both roles. This is somehow true but in a subtler way. Actually, on the surface, communication is often one way. In everyday life, there are usually well identifiable senders and well recognizable receivers. Yet, going a bit more on depth, things are quite different. Think of a situation in which roles seem to be fixed, a theatre's stage where an actor performs and the public watch the show. A good actor is him who "perceives" the audience – which is a subtle, collective, presence immersed in the dark of the stalls – and fine-tunes his performance accordingly, in a continuous, uninterrupted, feed-back with the public. In such a case, who is the sender, who is the receiver? Apparently, the actor communicates to the public, who receive the message, but is it what really happens? No, the actor must listen to the audience; otherwise his performance becomes very poor, no matter how beautiful is the dramatic text that he is performing. Who has never experienced the boredom to listen to Hamlet's monologue played by an actor who cares only of his perfect intonation? Yet, this is probably one of the most splendid texts of the whole history of theatre, but even Hamlet's monologue, played by an actor who does not "feel" the audience, can become awful.

There are three elements that must be carefully considered in order to develop an effective communication, 1) the communicator' self-understanding, 2) the communicator's understanding of the audience, 3) the message delivered, according to further three variables, (a) its form; (b) its contents; (c) the transmission channel.

The communicator' self-understanding

Communicators should first be aware of themselves, of their motivations, biases, areas of potential emotional and cognitive "blindness", idiosyncrasies, fears and fantasies related to the subject matter. This is because of a fundamental, basic, reason; no human being can prevent himself from using many different languages simultaneously, transmitting different messages at different perceptive layers. Such a constitutive mechanism is exalted by interpresonal, face to face, interaction, but it is always present, also in communication mediated by digital media. Research has convincingly demonstrated that even from the style used in writing a multiplicity of messages, it is important that these messages are coherent enough; otherwise, there is the concrete, and always pending, risk of producing double-bind messages, which are the worst occurrence that could ever happen in communication.

Double bind messages are conflicting messages, one of them negates the other, about the same issue, emitted by the same sender. Usually, they use different channels and "travel" at different levels of awareness. For instance, one may welcome a host with words, while unwittingly his eyes and facial expressions become avoidant, so transmitting a quite different message at the non-verbal level. Similarly, the typical appeal "Don't Panic", that authorities usually produce during crises and emergencies can hardly escape the destiny of becoming a double bind message, if only because it informs the public that they could realistically panic in the given situation. Double bind messages are very emotionally distressing, especially in emergencies and when dealing with serious risks. Running under the conscience threshold, they create unsolvable dilemmas, which end up by paralyzing the individual capacity for decision and action. for decision and action

As no one could control all his communication channels (verbal and non-verbal), the wisest strategy is based on a mix of self-awareness and self-control, being both indispensables.

Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
Severa • Th • Vis sha • Th dyr In turn, • 10' • 40' em • 50' Librarie	I studies have con e words we use (sual messages pr apes, pictures, vic e plethora of oth namics, and proxe verbal communi % sensantic conte % prosody (soum phasis) % our overall app es of manuals ha	ino more than 10%) ovided with a recognizable leos, etc. (no more than 20%) er sensorial messages tha smics; prosody, gaze direction cation (speech) impact is du ints (words spoken or writter ids, tones, volume, pitch, a pearance (gestures and movi- ve been written to teach pe	semantic content that we us at - willing or unwilling - w n, facial expression and hance te to n, the words we choose and h rticulation of the voice; its n ement, facial expressions and tople how to control these co	s that people have about us are due to, e, such as logos, brands, flags, colours, g e emit, including otfactory, tactile, signal gestures, etc. (more than 70%) ow we put our words together to create me esonance – richness, fullness, quality; va d eye contact; presence, body stance and p untless communication channels. Needles mendations that are worth suggesting,	s; body eanings), riation – osture)
rea tha mo etc are ling (e.)	Ich the target. If, t the must be truly n volulating your voie . With internation e usually highly or guistic codes that g., scholars, med	because of any reason, you heaningful and must be reta ce, or using the opportune <u>i</u> nal audience, be aware that ulture-bound. It is better using	are obliged to use a lot of wo sined by your audience. Find gestures. In the case of writt t you could not master enoug og your own codes, making e ay too much on standard sem tih officers, etc.), which you b	tely your words, at least the words that you rds, identify as clearly as possible those s a way to emphasize them, by preparing en texts, use graphics solutions, colours, i th non-verbal codes used by your audienc vident that they are your own, rather than antic conventions in use in the specific oc elong to. They mitigate risks of misunders	entences them, by iont size, æ, which imitating
cor use wa cor For cor	mmunicating. Peo e them in your sp y in which your mpletely silent pu r instance, many mposition like any	ple tend instead to neglect t eech and, still more importa speech is received and ela blic is "dead"! A "good" audi musical scores end with a p y other note. If the audiency	the significance of pauses an int, learn to listen to the "siler aborated. Pay attention that ence instead "resonates". Thi pause, a silence written by th	ticulation of the voice is an obvious instru- d silence. They are highly meaningful, lear nce" of the audience, it may tell you a lot a it is not a question of "noise", but of "s nk a music concert; silence is integral to the e composer, which is still part of the over vill start clapping for the orchestra before are musically literate.	n how to about the ound". A ne music. all music
pic ind 7) per fric spo fro the Per be sho en E	king several peo ividuals in the pi breathing norma formers and, abc ck" that can be us eaker must try fir ses behaviours (a lably when speak r public to cope v formers, who si ditation, relaxation nzodiazepines) w ould perform or gi od, which is not 1 iny performers, si	ple in different parts of th ublic; 5) smiling; 6) moving v lib;; and still many others. we all, they are not expected sed to reinforce the physical st to perceive himself the p t least some of them) listed ers are shy or intimidated b with their stage fright, so th <u>and</u> , <u>rituals</u> , and <u>so</u> What we ork, but, in any case, they in ve a speech; (2) <u>beta-blocke</u> helpful if one has to get on the <u>affering from stage fright</u> , we	e room; 4) devoting few se vith purpose, relaxed, convey Unfortunately, most speaker d to possess all the natural sl presence of the speaker, whi hysical presence of the audi above. Sometimes, howeve y the audience. In such a cas ey end up by speaking to thi e developed a number of know with certainty is, (1) if mpair short and long term me <u>as</u> are reported to be more ef he stage; (3) alcohol, notably	uals list several activities that one could p nce individually; 2) rotating audience atte conds to natural and sustained eye con ing a conversational attitude to put people is have no time to train themselves as the kills necessary to play on the stage. There ch is the core of all previous recommendat ence, and in turn this will spontaneously r, this could turn out being a very difficult se, speakers tend to deny the physical pre emselves, which is rarely effective commu- highly individualized coping techniques, i is controversial whether minor tranquilliz mory, consequently they are unfit for some fective, but they tend to produce a slight de r high proof spirits, is very effective, and in whisky before getting on the stage; needle K	lact with at ease; is only a is only a ons. The generate exercise, sence of inication. <u>including</u> ers (e.g., one who pressive the past
			ding of the audier ence. This holds true at least		
wh		ed by the subject matter, e		uckground, what they do in life, to what ex t the demographic, sociological and psyc	

Speakers should know the likely position of the public in relation to the subject matter. Hostile, friendly or neutral? How favourable towards the speaker's point of view? How willing to accept new ideas?

Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
A very blogger	particular, and ch s and alike that	t is to say people who ar	when the audience is made e getting information for pro-	of, or includes a significant number of, jr sfessional reasons. Atthough, this case e during, e.g., an outbreak, informal conv time, webcast on social platforms, etc.), cator and the journalist.	should be
age or a goii whi Dor life, que too bro as ⁶ 80	enda to follow, try a debriefing sessii ng, or risk to go, ch you lack critic: Ir core messages n't allow journalist and any questio stions of your pe familiar with you, ad/webcasting. Bi 'off the record". Th concorrect do y can do such as	to adhere as strictly as pos on, are not "reviews", you a wrong. Keep the discussion al information, be honest at information, be honest at in which is irrelevant to the resonal ethical, political and be polite but detached. Too etter to assume by default it en interview irst' over until it to be adversarial; meet the obsolver that over the time.	sible to this agenda and do n te not under examination if y in your area and, if you en d tell the journaliet in the si vety and don't allow to be dr physical and psychological, relation why you are involv religious beliefs, be not too ay it is almost impossible to hat everything you say and he reporter is gone. m haltway, take another step utside: understand that medi	Is. To achieve such a goal, you must have ot deviate. Be polite but be firm. A press o ou start teeling like that, it means that sou ter an area that you don't master enough mpler and shorter way. Generally speakin boundaries, i.e., refuse questions on you ed in a given communication achivity, do familiar with journalists and don't allow th be sure whether there is anyone who is re does is electronically saved. There is no s o. Don't try to prohibit media from doing e a red oing their job. Don't is but recall the	onference nething is , or about g, stick to able with. , personal n't accept n't accept n't accept ne being sording or such thing omething at you are
not autu cap adv jarg • Kee pub mis me	obliged to discle onomously decide sture information s rance. Avoid surp yon. on it simple: reme slic, or, at least, understand them ssages. Ask your	se everything you know, r ed to do it for any specific py urreptitiously, if you can't re rises by anticipating difficu ember that journalists will t they will transmit them, what is going to arrive at th self, what do you want that	not yet you are expected to urpose. Try to avoid pre-inter fuse, be very cautious and 1 it questions. Avoid repeating be those who will translate y Your messages will be fir he public could be very differ is remembered? Say and re	share your personal hypothesis unless view discussions because they are usual hink twice to your answers. Clariffy your es p negative statements. Avoid 'no comme your messages into meaningful informati- st less or more processed by journalis rent from your intention. Don't give more t peat it, once, twice, three times, don't we nessages, 'bridge' again to them.	you have a way to pertise in nt". Avoid on for the ts if they han three
Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
which U cl st	should be obvious SETHE MESSAC arifying to yourse akeholders. Morec 1. Provides a strat 2. Focuses on goa 3. Creates a clear 4. Streamlines key 5. Can be used for	sly adapted to different conte SE MAP METHODOLOGY: aff your goals and overall c wer, message mapping is rat egic visualization and framewi is and desired outcomes chain of thoughts chain of thoughts rany communication situation	xts and different categories of message mapping has a two ommunication strategy; and ther intuitive and easy to use. I work process	void advantage, 1) it provides an effective It assists you to transmit the messages i Message mapping	tool for o your
af th	ter thinking about ree main heading: 1. Awareness, that to transfer detai 2. Understanding, understanding of 3. Action, that con	the messages that should le s, t concerns the general aud led knowledge about it; that concerns specific sta of it; cerns changing actual practi	ad to those outcomes. Gener ience and aims simply to mak keholder groups directly affei ces through new knowledge a	ages is to identify the desired outcomes a ally speaking, outcomes can be categorized appropriate aware of a given issue, without th cled by the issue and may benefit from a nd the adoption of novel specific approache concern the whole population in countries	l under e need deeper 5.
ZIKA	cases were recor this information c makers, who mus ols at borders, etc. bersonal preventiv mes must be tailo to attain the highe	ded. One should identify will sould be turned into personal st make critical decisions, s Finally, Outcome 3 (Action) re measures and collaborate red on different stakeholder est reachable granularity, acc	hat core pièces of information awareness. Outcome 2 (Und such as whether suspending would concern people in regi e with local public health aut categories, in their natural s ording to the overall principle 1	should be transmitted and the process t erstanding) would instead concern authorit the Olympic game, establishing special ons where actual cases were recorded; the horities. At each level, these three catego cocial and environmental contexts and con hat outcomes the most tailored are, the beside design, better through a participatory proce	hrough es and health y must ries of ditions, t.
3 ge ur to m ye	essages that mus messages per out enerated when the nder stress retain angerous enemy co let words to blind ust convey semar ear-old son is scar	t produce the desired outcom tcome, when they must be aj ey must be applied in stand much less information and a of effective communication Tat l you. Messages are necess titic information. But message ed by the neighbour's barkin	nes. Typically, the message misoplied in crises; more messag lard, inter-critical, stages. The reless capable of processing gether with overload, another arily shaped in verbal terms b as don't have to be always trais dog. You decide to transmit.	ap methodology suggests generating no mo es, but no more than 6 or 7 per outcome, c rationale behind this general rule is that messages: informational overload is one (serious mistake that can be done in this p ceause this is the most effective way that I nsmitted only through words. Suppose that him two main messages, 1) brarking dogs	re than people of most hase is umans your 5- seldom
is ne no m m	perfectly capable ever show to be af priveyed much more priverbal language iodalities. The mer- just play a pivotal r	 of verbal conversation, yet fraid by the barking dog, this re effectively petting the dog es can, and should, be used e fact messages are shaped role in communication proces 	the core message (1) will be will reassure the child much r together your son than throug d to convey the same messag in words, when one plan a co isses.	plicitly these two messages because a 5-a; beffer transmitted by your own behaviour more than any argument; also, message (2) the long discourses. In other words, both veri ges along different channels and through o mmunication campaign, does not entail that ges need to be backed by anciliary informa	, if you will be bal and ifferent words
th in it	e original model, r nportant supporting may seem, very ra	mostly factual evidence that o g argument, it should not be arely rational arguments mov	can be used to support and just overestimated, notably when the people to take action. Pace to	sifty the messages. Although factual evidence the desired outcome would demand action. The rational action theory, in real life, human e advisable to keep, in our toolbox of sup tiffic facts. Think of the Systematic thild ge settion bite, will you provide thim	e is an Odd as beings

- 1-		demer			
			PRACTICAL T	IPS	
				k to epidemiological and medical effective communication.	
		lve your audience. You the tone of voice. Don't		involving each one. Use prosody	
	to p	erceive that your com	and the second se	eing unplanned. People don't like etely prepared in advance. The h.	
		resent, transmit your re aying a role.	al "presence" to the au	dience. Never give the impression	
		se yourself, reveal your our emotional reactions		ws, allow the public to participate	
			n "bureaucrat". If the au ill lose any confidence in	idience feels that you are a public n you	

10.5 Narrative Communication







10.6 Risk Communication and Risk Perception



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What is Risk?

According to ISO 31000,risk is the "effect of uncertainty on objectives". Risk is made up of the probability of occurrence of ar multiplied by the magnitude of the value or cost of the event. Risk is a loss or potential damage due to the exposure to hazar is probabilistic concept; it describes a probability that can be measured in objective terms. In such a sense, risk is defined formula: $\mathbf{R} = \mathbf{P} \times \mathbf{G}$ (Risk = Probability X Sovority) where R is the risk that P is the probability of its occurrence, and G indica severity of the damage or its consequences. Risk can be conceptualised in subjective terms, referring to their reception persons. In such a case, the formula becomes $\mathbf{R} = \mathbf{Maxoff} + \mathbf{Outrage}$ where R is the risk which results from an evalue danger (hazard) and the emotions aroused (outrage). While the hazard component should be rigorously assessed by e "outrage" is more subjective components, usually estimated by affected people. In principle, a well-balanced, and effective components, usually estimated by affected people. In principle, a well-balanced, and effective components, usually estimated by affected people. In principle, a well-balanced, and effective components, usually estimated by affected people. In principle, a well-balanced, and effective communication should provide "objective" information about hazards and fine-ture outrage perception. In fact, the notions of and outrage are much more intertwined than the theory predicts. Hazards are hardly objective events to be simply asses or outbrage perception depends on a variety of elusive factors, hardly capturable and categorizable.

Risk Communication can be defined as the exchange of information and risk assessments among experts, public authorities, n media, stakeholder groups and citizens, aiming at assisting decision making processes about a given class or risks or a specific (ECDC, 2013). While informing does not necessarily aim to produce any change in the recipient, communicating implies the go modify the recipient's understanding of an event and related behaviours; in other words, persuasion is part of any for communication. When you inform about risks, you aim simply to pass down a piece of information to someone else, in principle are not interested in the effects of your information, except that it has finally reached its receiver. Some communication more include recipient's feedback as an indispensable element of the information process. If the successful transmission of a messag essential to speak of information (i.e., a piece of information lest in the process is no longer actual information), this logically im that acknowledgement is part of the entire process. In such a limited sense, also informing always demands an action from recipient, although it could only be an automatic signal. Acknowledgement does not imply, however, the recipient accepts message (i.e., he could still reject it).

The final goal of risk communication is to prompt action through knowledge. If there is no transmission of knowledge, commu becomes purely manipulative. If there is not the goal to foster action, communication becomes only transmission of informal education. Messages could be more or less persuasive or informative (it depends on the specific need of a given campai both components must always be present. Knowledge should have a transformational effect on recipient's behaviours and at Knowledge, as we have previously discussed, is much more than rational understanding. If knowledge remains purely cog devoid of any transformational power, and it is not actual knowledge. When information becomes knowledge, the unavoidably generates – or evokes, or is sided by[2] - emotions, there is no experience without emotions, and when inform not turned into experience (even purely intellectual experience) it remains empty and fulle pseudo-knowledge. True kno totally devoid of any emotional "colouring", does not exist (Hamilton, Bower, & Frijda, 1997), (Watzlawick, Beavin, & Jackson (Wilson, 2002), (Goldie, 2004). Thus, a further problem arises, what emotions and how risk communication should evoke specific context. n is

isk communication can be considered both 1) technical and scientific communication (Burns, O'Connor, & Stocklmayer, 2003), esigned to inform, and educate recipients; and 2) danger communication, which is an elementary activity, that humans share with narmals and birds (Hollén & Radford, 2009), which aims to inform the recipient about an impending danger (Leiss, 1996). As a rm of technical-scientific communication, risk communication about infectious outbreaks is part both of 1) health communication and education; 2) scientific communication and education. It is, however, less focused on tutoring and teaching, more on raising wareness, and prompting action (Reynolds & Seeger, 2005). As a form of danger communication, risk communication on merging infectious outbreaks and epidemics is characterized by focus on a specific class of risks, connected to new and emerging infectious diseases, commonly of zoonotic origin; emphasis is given to collective preventive action, notably to vaccine and vaccination, and to the one-health concept; comprehensiveness, involving three fundamental perspectives of today world, seco-systemic approach to one-health concepts security and risks related to bioterrorism

Other forms of communication close to risk communication include

are communication, which regards any form of communication in which dangers and precautions to be taken are well defined ionific knowledge and are generally accepted by the public. Uncertainty plays only a minor role in care communication, whi ms to improve the health of a given population or part of it, through the change or the reinforcement of some specific behavio nd the adoption of preventative measures. A classic example is the informational campaigns against illegal drugs (e.g., cocai eroin, etc.), in which the message is based on accepted evidence, addresses the nature of risk, and the goal is well-defined.

Hentus communication, which usually regards policy decisions affecting a community. Consensus communication aims to mote a conversation among different stakeholders, to allow them taking an informed, and shared, the decision regarding the nagement of a given risk. For instance, risks associated to the storage of industrial wastes, are often handled by consensus munication, via participatory exercises involving all affected parties (e.g., local authorities, groups of citizens, managers of the ustrial plant, workers, etc.), to reach a common decision on how the problem could be effectively addressed.

(a) communication addresses communication in the "crucial time or state of affairs in which a decisive change is impending; pecially, one with the distinct possibility of a highly undesirable outcome" (Crisis, 2017). Crisis communication objective is intently practical, say, to ensure safety to the greatest number of people at risk. The communication is targeted to alert the mmunity, to promote the evacuation of certain areas, to teach the immediate and upent precautions to be taken, to facilitate the cognition of certain symptoms for which one should ask for immediate medical examination, and so on. Messages chiefly focus on eventing / reducing negative outcomes and protecting organizations, people, and stakeholders from the impending damage. hough crisis and emergency communication could also alim to educate, it is mainly informative. Typically, it is top-down, quite uctured and strictly controlled by the sender (Reynolds & Seeger, 2005)

Flek communication is the real-time exchange of information, advice and opinions between experts, community leaders, officials and the people who are at risk and is an integral part of any emergency response. In epidemics and pandemics, in humanitarian crises and natural disasters, effective risk communication allows people at risk to understand and adopt protective behaviours. It allows authorities and experts to listen to and address people's concerns and needs so that the advice they provide is relevant, trusted and acceptable.

Emergency risk communication is an intervention performed before (as part of preparedness activities), during and after (to support recovery) an emergency to enable everyone at risk to make informed decisions to protect themselves, their families and communities against threats to their survival, health and well-being.

-	_	_	_	-	
		COMMUN	ICATION OF POTEN	ITIAL HAZARDS	
		When	Why	tiow	Contents
Cor	Risk nmunication	Various moments of the life cycle of risk	Assisting decision making Prompting action	Exchange of information and knowledge	Risk of hazard Prevention Mitigation
	Risk nformation mandated)	Various moments of the risk life cycle	Mandatory (e.g., statutory laws, code of conducts, etc.)	Forms. texts Flyers, Fact sheets, brochures oral	Risk description and the probability of negative consequences
Cor	Care	Various moments of the life cycle of risks	Promoting healthy behaviours	Education, posters, testimonials, experts, radio, and television broadcasts	Instructional Educational Recommendations
	Consensus mmunication	Especially pre- crisis and during the maintenance period	Taking an informed and shared decision about a given risk.	Flyers, Fact sheets, brochures information participatory exercises, new media	Risk description and the probability of negative consequences
Cor	Crisis mmunication	In relation to an impending crisis or a crisis in progress	Managing and repairing the damage	New and old media, testimonies, expert's authorities	Formal, structured, chiefly top-down

				and and a second second	
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Risk Perception

sk perception is the variable whi effect. Empirical research (Vart olland Jones & Salathé, 2009), vhich ultimately decid artti, et al., 2009), (Vo), (Ibuka, Chapman n, et al., 200 eyers, Li, & G e of the ma of I 19 e demonstrations al out by public s gap is h at hap telusive disord nds to be rejec asl ed as in or m f, they are more influencea message rather than its rat ble by h ett & F

Modern research on mental factors in risky decision-making dates to the 1950s (Edwards, 1961). A major advance in this area was the introduction of the notion of heuristics, as researchers called specific mental strategies used to make sense of uncertainty (Kahneman, Stovic, & Tversky, 1982). In the tate 1980s, American leading theorist and professor of psychology, Paul Stovic, published two seminal papers, which are still mitestones in the field of risk perception. In the first paper, Stovic reviewed psychometric studies on risk perception, showing the size of the specific uncertainty of different paper. Stovic reviewed psychometric studies on risk perception, showing the size of the spectrum of distribution of different paper. Stovic, reviewed psychometric studies on risk perception, showing the size of the spectrum of distribution of different paper. Stovic, reviewed psychometric studies on risk perception, showing the size of the spectrum of distribution of different paper. Stovic, reviewed psychometric studies and controllable, 20 risks unoromitrolable and unknown to science; (4) risks hown and controllable; 20 risks unoromitrolable and unknown to science; (4) risks non-main and controllable; 20 risks unoromitrolable and unknown to science; (4) risks one-nable and known to science. Stovic concluded with a true paradigm shift. There is weatom as well as error in public attitudes and perceptions. Lay people sometimes tack certain information about hazards. However, their basic conceptualization of risk is much risks much risk and risk communication and risk management efforts are destined to fail unless they are structured as a two-way process. Each side, expert and public, has something valid to contribute. Each side must respect the insights and intelligence of the other" (Slovic P., 1986, p. 285).

Risks are generally more worrying (and less acceptable) if perceived:

- to be involuntary (e.g. exposure to pollution) rather than voluntary (e.g. dangerous sports or smoking)
- 2. as inequitably distributed (some benefit while others suffer the consequences)
- 3. as inescapable by taking personal precautions.
- 4. to arise from an unfamiliar or novel source
- 5. to result from man-made, rather than natural sources
- to cause hidden and irreversible damage, e.g. through onset of illness many years after exposure
- to pose some particular danger to small children or pregnant women or more generally to future generations
- 8. to threaten a form of death (or illness/injury) arousing particular dread
- 9. to damage identifiable rather than anonymous victims
- 10. to be poorly understood by science
- 11. as subject to contradictory statements from responsible sources (or, even worse, from the same source).





10.7 The Risk Semantic Field

Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Nerrativ	es More			
	Th	e Risk	Semar	ntic Field				
Introduction								
public. L flu com Commu enlighter	Iterature researc munication failur nication model, v ning the semanti	ch shows that they rarely o re (Gesser-Edelsburg, Mo we have carried out an an ic field of "risk" and how it	to it (ECDC, 2013), this was ordini, James, & Greco, 20 alysis of the risk semantic fi is understood today; (2) inve	tion of how their language is perce among the main factors, respons (14). In view of the development eld. The objective of this analysis is stigating needs and gaps of risk con a about the structure of the risk con	ble of 2009 of the Risk stwofold, (1) mmunication			
semantic semantic and sub hyponyn meaning by clust commun We haw	c range of the c c field" (Gao &) fields. Within a (ny (terms belong (s). Semiotic field ering and organ hity into alignmen e analysed the	combination is called the i Ku, 2013). Semantic field, given semantic field, term jo the same category), s ds draw our attention to the hizing related experience hizing related experience in and contribute to creatin risk semantic field, and (field range of the semantic s are usually defined by sut s can be less or more mari ynonymy (terms share the s e ability of language to coord s. Semiotic fields bring m g the collective mindest. Other related semantic field	distinguish and depend on with eac field () A word is meaningful on yect matter, and they include differ wed and can be associated through same meaning), antonymy (terms his inste mental representations across tental representations within a giv is, through a Corpora Analysis me uences for the COMPARE Flick Cor	ty in its own ent registers relations of ave opposite s individuels, en linguistic thodologicel			
	ora Analys ic corpora are a		naturally occurring texts (bo	th written and spoken language).	Corpora are			

analysed corpora are a systematic collection of naturally occurring lexits (both whiten and spoken language). Colloca are analysed to search frequencies of single words, parts of the speech, syntactic structures, patterns, and dependencies among them. Recurrence patterns, clustering, and frequency curves are highly meaningful (Andersen & Bech, 2013), by studying them, one can elicit significant information that could be hardly achieved by other methods. Corpus linguistics analysis is not only a fundamental tool for linguists, but it is also a precious instrument for social science (Altmann, Pierrehumbert, & Motter, 2009), and communication studies (Liffit), et al., 2014). We used corpora analysis to provide the preliminary definition of the semantic field of risk and to investigate the collective perception of risk terms.

Regrettably, we found very few references to this methodology in the literature on risk communication. To our best knowledge, the sole research project on risk communication, beyond COMPARE WP10, that used corpus linguistics analysis was "flood Risk Communications: Public Dialogue Project", a large project funded in 2013 by the UK Environment Agency, involving a number of UK universities and public institutions, completed in 2015. The project investigated the gap between 'experts' and 'lay people' as far as they talk about risk. The study adopted a corpus linguistic methodology to analyse how experts speak of risks, providing evidence that flood risk experts communicate to the public in a linguistic register hardly compatible with the register used by their audience (Environment Agency, 2015).

Sources The use of corpus analysis is not per se novel (Tognini Bonelli, 2010), but book digitalization and advances in informati have provided greater and greater storage capacity, as well as increasingly faster, and multifaceted, processing skil substantial number of e-texts are collected and searched, extracting a variety of patterns that could not be detected, or e

Tored the Google Books corpus, made up of English language books from 1700 to present, comprising mor books, approximately 4% of all books ever printed (Lin, et al., 2012). We also explored the <u>NOW corpus</u> (s 5.5 billion words of data from web-based newspapers and magazines from 2010 to the present time; which comprises the full text of Wikipedia and contains 1.9 billion words in more than 4.4 million articles, he most important, and diffused, source of online health information. In a 2009 study (Laurent & Vickers ad MedlinePlus and NHS Direct Online as an online medical source. Wikipedia ranked among the first & tested, and it ranked highest for seasonal communicable diseases, a finding also confirmed be sensed with corpora". We sense omprising more than 20 m NOW corpus (News on th whichedia among the first ten results d by a recent study for opportunal ed highest for seas 14). By using the Wik al corpora". We co-ises", "Epide pedia end exp

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nalyse our corpora, The <u>Google Booke</u> le cluding its temporal and cultural distributi Books Ngram Viewer can search in Go nch, Spanish, Russian, and Italian. Moreo checky books nublished in th stribution, its frequency distribution in Google Books words and tex Moreover, it can discriminate bett ad in the U.K. and the U.S. from b Ention by the rublisher. in in co her words[4]. Google Books Ngram German, Hebrew, French, Spanish, Pi h; among books in English, it can ide ie, Ge oglish; among bo ally, it can also o

coord (CVU/Advanced): American English, which still explores the Google books corpus, but limited only to book erican English. This interface has the same functionality of Google Books Ngram Viewer, to which it adds i) the po for complex constructions with several variables; ii) the possibility to search by collocates (nearby words); iii) the po comparisons between two different time periods h for comple

Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
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The term "risk" comes from the old Italian verb riscare "run into danger," whose etymology is uncertain, maybe from Latin resecare, "to cut away", or from Arab rizq, "what comes from God" (Pianigiani 1993). The noun appeared in the English lexicon in the mid 1700s (Barnhart 1988). Its usage remained, however, sporadic, until early 1900s, and most risk expressions (e.g., risk management, risk aversion, risk mitigation, risk calculation, etc.) entered in ordinary language only after 1950.

Since the 1980s, scholars have drawn the attention on the increasing importance in contemporary societies of the notion of risk to the detriment of danger and another concept of the same constellation (e.g., "hazard", "peril", "uncertainty"). German sociologist Niklas Luhmann devoted seminal pages to the passage from the idea of danger to the idea of risk. According to Luhmann, "we can speak of risk only if we can identify a decision without which the loss could not have occurred" (Luhmann, 1993, p. p. 16)., Luhmann thinks that the essential difference between risk and danger dwells in being risk the outcome of an internal decision, while danger is perceived as originated from an event external to the subject. To Luhmann, the contemporary society is increasingly shifting the burden of harmful events from external forces to individual decisions, by substituting notions such as "destiny", "fate", fortune", "providence" with the concept of computable risks.

Also, American historian and economist, Peter Lewyn Bernstein, links the idea of risk to human activity in opposition to external forces. "The revolutionary idea that defines the boundary between modern times and the past – Bernstein argues – is (...) the notion that the future is more than a whim of the gods and that men and women are not passive before nature" (Bernstein, p. p. 1). Bernstein relates the notion of "risk" with the development of the insurance system. To him, the two phenomena are the two sides of a coin; risk is not a different name for dangers, is a paradigm shift. Risks turn inescapable dangers into something that can be avoided, mitigated, or transferred. Bernstein thinks this to be a true economic, political, and theological, revolution. His central argument is that the shift from "danger" to "risk" means a different idea of future, no longer ruled by gods but in human hands. In the 1600s "mathematicians transformed probabilistic theory from a gamblers' toy into a powerful instrument for organizing, interpreting, and applying information (...) We cannot quantify the future, because it is an unknown, but we have learned how to use numbers to scrutinize what happened in the past" (p.6) projecting past events onto the future, in order to anticipate it.

The "danger-risk" semantic field We have considered the "danger-risk semantic field" focusing on threat, menace, peril, hazard, danger, risk, uncertainty (Figure 1, Figure 2, Figure 3).





Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
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Home	The Toolbox	Communication Model	Narrative Message Map	Periodic Table of Epidemic Narratives	More
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be ca	 First, the foremost importance of infectious diseases as a cause of public concern, as it emerges from the exercise, should be carefully considered. The high dependency between risk and infection emphasizes the importance of planning carefully the words used in risk communication in such a very delicate area. Words are not neutral. 								
which only c asses ignora illitera materi and p (Slovie focuse 2017) might	2) Second, the gap between material conditions of safety and individual perception of security is likely to be a critical element, which contributes to clarifying some mistakes in risk communication done in the past. Framing public health communication only on pure risk management terms is an error because people's concerns are only indirectly related to an objective assessment of risks (Sandman, 1993). When people assess risk differently from experts, this is not necessarily due to ignorance or misinformation. When people do not follow medical recommendations, it is very rarely because they are scientific illiterate (Trauth, 1994). Fighting scientific illiteracy is paramount, but it has little to do with risk communication. Providing material evidence to support risk messages is formally correct, but often ineffective because people are searching emotional and psychological security rather than objective safety. Research shows that evidence per se has little convincing power (Slovic, 1986), (Brown, 2014), (Mitchell & Glendinning, 2007). Moreover, in real life it could happen that material evidence focuses only on scientific aspects, neglecting other important material needs and aspects of the problem (Paek & Hove, 2017). Linguistic codes - through subtexts, and the whole spectrum of meanings that words and patterns of words evoke - might show what health communicators are trying to hide. What health communicators unvillingly say, turns out revealing hidden agendas, worries, and hopes that can have a very nequative impact on the audience who read them between the lines.								
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which are mental fi in some urban le (Hingstor compone web. Dig society th present unthinkal these cul and fanta importan This app behaviou and Risk because social gr	ed with crises, or e defences again unctioning. They dysfunctional bel gends, in succe n, McManus, & ents prevail, as it ital communicati ends to evoke ar in collective me ble." Collective me tural legacies ma asies. Some myth t collective events oroach radically rs in cognitive te c Communication. they are symbol oups interpret ne	r the threat of crises, social st situations perceived as d emerge when individuals a haviours (e.g., vaccine hesi ssful narratives like blockb Noseworthy, 2017). They is often the case with online on is highly emotive, much chaic psychological compoi mories, mobilised to cope emories can be defined as th ay be (further) transformed in is have existed since time in s" (Hopper & Weinberg, 2011 differs from more mainstr rms like knowledge, attitude . Popular beliefs must not b ic processes of sense-makin w or unexpected events tha	angerous and threatening. F nd social groups are under lancy) (Stavrova, Newman, k uster movies, bestseller bo can become prevalent in t communication. Information more than printed commu nents and basic modes of fit psychologically with threat representations of the past to myths, which are more ela mmemorial, but some are creat l, p. xoxviii). eam approaches to health s or beliefs, as we enlightene e derogated as being defect ng. We call "collective symbo t threaten their worldviews, I	INKING d to show regressive psychological pheno tegression implies reverting to an earlier m stress (Moonsamy, 2016). They become e (ulemann, & Fetchenhauer, 2016), as well oks, popular videogames, etc. (Bouet, health communication, notably when em- and entertainment are strictly intertwined nication. Somewhat counterintuitively, the unctioning of the mental apparatus.[1] Th ts collectively perceived as overwhelmin t that members of a system collectively ado aborated stories (which) contain a mixture of ated quite quickly in an attempt to make se communication that understand health- red in the COMPARE Document devoted to ive, but, quite the contrary, they must be s blic coping" the sensemaking processes by ike an infectious outbreak. It is accomplish	ode of vident I as in 2011), otional on the digital ey and gg and pt () of facts nse of related Health studied which wed via
Internet. collective postulate a public emerge, big pharr others ar the even species f	In these process patterns of ima do occur in four concern (e.g., m creating ambiguit ma to sell vaccine nd reducing unce t has been integri transmission of fl	ses, representations of the ges and thought that are us stages: awareness, diverge ledia reporting swine flu ou ty about the situation (e.g., is and anti-viral drugs?). In t rtainty about the event (e.g. rated into common sense are u virus). It should be noted	event are constructed and sed as conceptual anchors f nce, convergence and norma tbreak). In the divergence st s swine flu a real deadly risk he convergence stage, a sing , swine flu is a severe but lir nd everyday life (e.g., swine	diffused. These representations often app or the novel event. Collective symbolic cop alisation. Awareness is when an issue emerg tage, multiple and often incompatible disci for humanity or is it a "false pandemic" crea gle dominant discourse emerges, suppressi nited incident). Finally, in the normalisation flu was just an episode of a long story of four stages of the model is not necessarily	peal to ping is ges as ourses ted by ing the stage cross-
should ne modern a about inf cancer o Itakura, 2 to receive transplar Donnelly, used by, aversion they findly Zavala, V studies o inapprop between a basic a	ot be underestima societies (Krame ections, beyond 1 r AIDS (Nisbett 2011) and actual e an organ from tted, whether it or , & Itakura, 2011 e.g., murders or (Rozin & Nemer difficult to justifi justified by peo Valdzus, & Cypry on children (Inaga riate ailments (i. people on the lik and primordial prin	ated. Several studies (Nemer r & Block, 2011), (Newman the threshold of awareness. & Wilson, 1977). Patients v (Sanner, 2001a) - are conce someone with a negative lif omes from a living or decea). Psychological experiment criminals, as though they v off, 1990). Similarly, people <i>r</i> rationally such an uneasin ple in terms of hygienic no anska, 2014), (Zhong & Lilje aki & Hatano, 2002), show e, to noncontagious illness relihood of transmitting conta noiple governing the human to	eroff & Rozin, 2000), show the & Bloom, 2014). Archaic thin For instance, people fear to variting for organ transplant- erned about the personal life s e (Sanner, 2001b). People al sed donor (organs coming fir s show that typical persons a were infected by the "evil", feel very unease to inhabit a less (Rozin & Nemeroff, 199 rms - are often irrational (inquist, 2006) and seem to be that younger children (pre-so and to accident), and were agious ailments" (Kister & Pat mind.	and collective responses to infectious out at archaic modes of mental functioning ope nking affects people beliefs and daily beha be contaminated by someone who is affect – both hypothetical (Hood, Gjersoe, Donn story of the donor; almost no one would be lso have irrational feelings about the organ om corpses are felt as pollutant) (Hood, Gj are extremely reluctant to use objects prev although they feel uncomfortable to explain a place where a bloodshed scene took plac (Ø). Also, many common preventive behavi (Rozin, Markwith, & McCauley, 1994), (Go e chiefly dictated by magical thinking. Finally shoolers) "overextend the concept of contag e less likely to understand the effect of dia terson, 1980), confirming the magic contage	rate in twours ted by ted by elly, & happy to be jersoe, viously n their ce, but jours - lec de gion to stance gion is
cultures. to the c acceptab archaic r instead t expectati	Culture is an imp ultural context () ility of these pher modes of psycho o feel embarrass ions and experie	xortant variable, and regress Hejmadi, Rozin, & Siegal, nomena (Hood, Gjersoe, Do kogical functioning are soci sed if they are demanded t nces. Research demonstrat	ive psychological phenomena 2004). The primary cultura nnelly, & Itakura, 2011). Peop ally accepted, do not find c o verbalise their archaic beli	gh-income, societies as well as to non-w a express themselves in different ways, acc al influence seems to concern, however, le who live in cultures where magic causativ hallenging to report them. Western people fels, they try to rationalise their regressive stress (Subbotsky & Quinteros, 2002), w n-western people.	ording social on and e tend fears,

The primary way to investigate archaic modes of mental functioning is through their actual productions, say, the so-called "collective imaginary".





10.9 Pandemic Online Game

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11. Textual Resources

The first-level section textual resources provides links to download COMPARE research and methodological papers and selected international literature (pdf).

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12. Compare Ecosystem

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The firs-level section COMPARE Ecosystems connects with COMPARE social universe.

13. Forum

The first-level section Forum allows to register to the COMPARE Risk Communication Toolbox and to publish in the Forum.

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