

The Data Citizen

new ways of being in the world

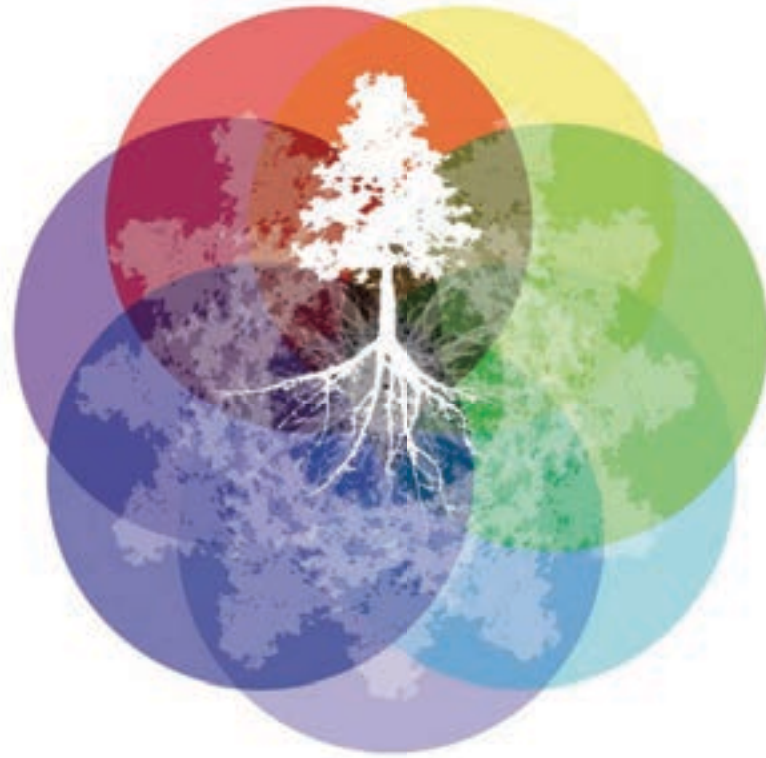
Geoffrey C. Bowker

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University of California at Irvine

- Introduction
- The Body Politic
- Prediction and Control
- Invisibility
- Misplaced Concretism
- Synchronization
- Conclusion

(throat clearing)



BOUNDARY OBJECTS
AND BEYOND

WORKING WITH LEIGH STAR

edited by Geoffrey C. Bowker, Stefan Timmermans, Adele E. Clarke, and Ellen Balka

Introduction

Non est potestas Super Terram quae Comparetur ei Job. 41. 24.





BIG DATA

Big Data is data that is too large, complex and dynamic for any conventional data tools to capture, store, manage and analyze.

The right use of Big Data allows analysts to spot trends and gives niche insights that help create value and innovation much faster than conventional methods.

The "three V's", i.e. the Volume, Variety and Velocity of the data coming in is what creates the challenge.

VOLUME



Amount of Big Data stored across the world (in petabytes)

VARIETY



PEOPLE TO PEOPLE

NETIZENS, VIRTUAL COMMUNITIES, SOCIAL NETWORKS, WEB LOGS...



PEOPLE TO MACHINE

ARCHIVES, MEDICAL DEVICES, DIGITAL TV, E-COMMERCE, SMART CARDS, BANK CARDS, COMPUTERS, MOBILES...



MACHINE TO MACHINE

SENSORS, GPS DEVICES, BAR CODE SCANNERS, SURVEILLANCE CAMERAS, SCIENTIFIC RESEARCH...

VELOCITY



2.9 MILLION

EMAILS SENT EVERY SECOND



20 HOURS

OF VIDEO UPLOADED EVERY MIN



50 MILLION

TWEETS PER DAY

CASE STUDY - Healthcare

\$300 billion is the potential annual value to Healthcare



57.6% OF ORGANIZATIONS SURVEYED SAY THAT BIG DATA IS A CHALLENGE



72.7% CONSIDER DRIVING OPERATIONAL EFFICIENCIES TO BE THE BIGGEST BENEFIT OF A BIG DATA STRATEGY



50% SAY THAT BIG DATA HELPS IN BETTER MEETING CONSUMER DEMAND AND FACILITATING GROWTH

VALUE



40% PROJECTED GROWTH IN GLOBAL DATA CREATED PER YEAR



5% PROJECTED GROWTH IN GLOBAL IT SPENDING PER YEAR

The estimated size of the digital universe in 2011 was 1.8 zettabytes. It is predicted that between 2009 and 2020, this will grow 44 fold to 35 zettabytes per year. A well defined data management strategy is essential to successfully utilize Big Data.

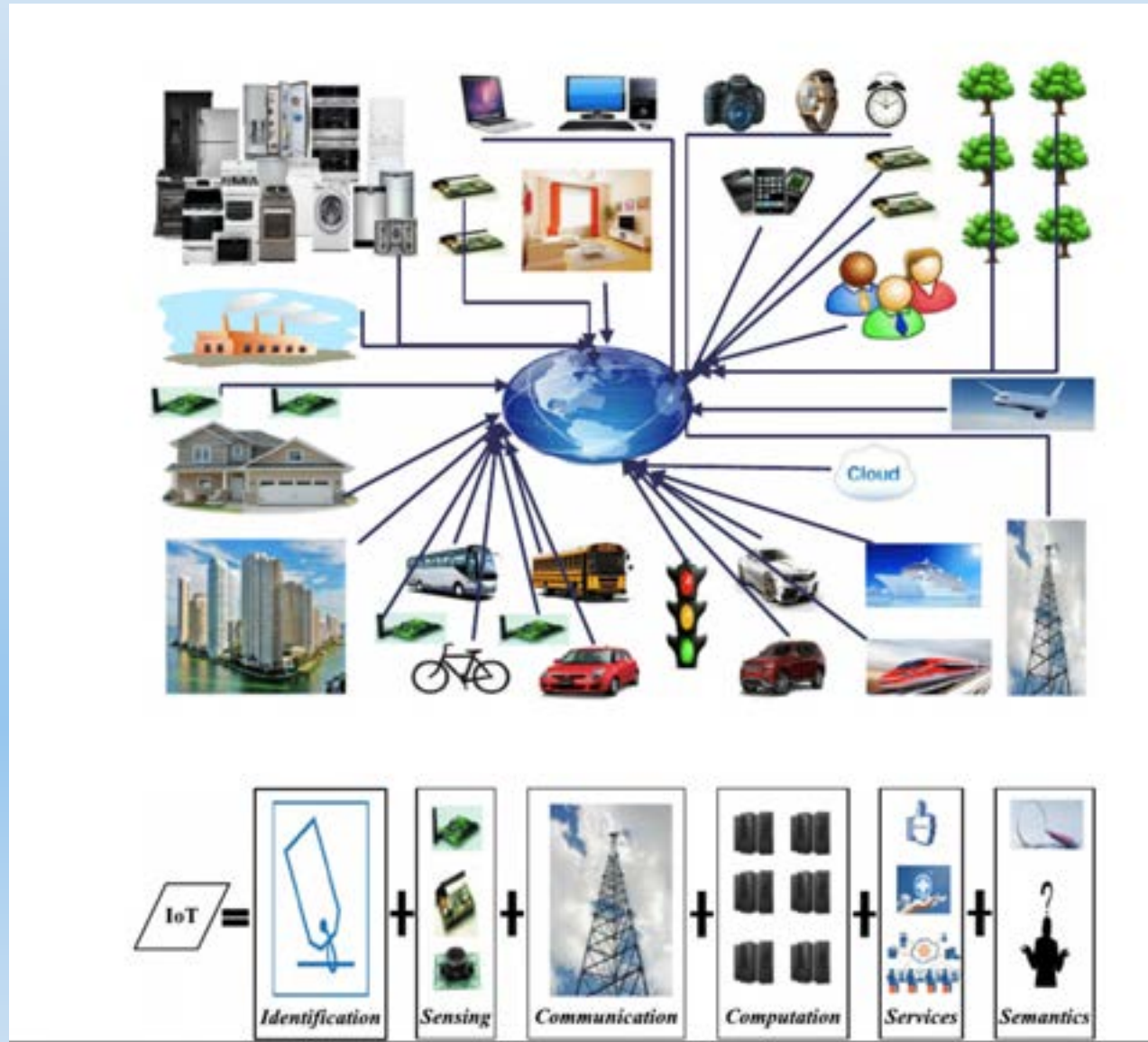
Source: 1) Mapping the Horizons of Big Data - Wipro Report 2) Big Data: The Next Frontier for Innovation, Competition and Productivity - McKinsey Global Institute Report 3) eHealthcare: Realizing the Business Impact of Ubiquitous Data - Study by University of Texas, Austin 4) IT Department of Lufthansa

DO BUSINESS BETTER

WIPRO | 100% INDIAN EMPLOYED | 100% OWNED | CONSULTING | SYSTEM INTEGRATION | INFRASTRUCTURE



The Internet of Things





Vehicle, asset, person & pet monitoring & controlling



Agriculture automation



Energy consumption



Security & surveillance



Building management



Embedded Mobile

Internet of things

Everyday things get connected   for smarter tomorrow



M2M & wireless sensor network



Everyday things



Smart homes & cities



Telemedicine & healthcare

The Internet of Cows: Azure-powered pedometers get dairies mooovin'

Cloud data tracking helps farmers track when cows are in heat, monitor health.

by Sean Gallagher - Apr 30, 2015 12:30pm PDT

Share

Tweet

19



Daisy, we need to put a pedometer on you...

By Dohduhdah (Own work) [Public domain], via Wikimedia Commons

The body politic

Die Waffen der Self-Tracker

Für das Sonntagsrück magazin hat Model Lucia Thalmann fünf Gadgets zur Selbstüberwachung am Körper montiert. Der Sleep Tracker von Zoo misst die Anzahl und Dauer von Tief-, Traum- und Wachphasen. Wer schlecht schläft, kann damit überprüfen, welche Verhaltensänderung ihn besser schlafen lässt.

Das iPhone ist so etwas wie die zentrale Steuereinheit der Selbstvermesser. Es kommuniziert mit anderen Geräten, erstellt Bewegungsprofile und schickt die Daten anschließend in die Cloud. Auf Plattformen wie Quantif Meessen alle Daten zusammen – dort vernetzen sich die Nutzer und tracken sich gegenseitig. www.quantif.com

Das Gerätchen am Schuh ist ein Schrittzähler von Fitbit. Es überwacht die getatschten Distanzen und gibt Auskunft über die verbrannten Kalorien. Mit eigenen, im Schuh eingebauten Monitoring-Systemen arbeiten auch die Sport-Giganten Nike und Adidas.

Der Pulsmesser von WHOA kommuniziert direkt mit dem iPhone. Dieses schickt die Daten in die Cloud – Nutzer von Quantif können die Werte direkt in ihr Profil einfließen lassen. Gerade für Sport-Anfänger ist die Pulskontrolle laut Experten sehr wichtig, weil sich die meisten Menschen überschätzen.

Zur Pulsuhr von Garmin gehört ein Brustband, das die Pulsrate am Handgelenk funkelt. Die Daten lädt die Uhr anschließend in die Datenwolke hoch. Dank eingebautem GPS-Empfänger erstellt sie auch Bewegungsprofile. Geladene Strecken sind also gespeichert. Das erleichtert die Planung und das Überprüfen von Fortschritten.



1



2



3



4

Körper unter der Lupe

1 Der Glucose-Meter von Bayer mit USB-Anschluss misst den Blutzuckerspiegel. 2 Der Schrittzähler von Fitbit hält fest, wie viel man sich bewegt. 3 Das Blutdruckmessgerät von Withings lässt sich ans iPhone anschließen. 4 Die Withings-Waage misst Gewicht, Körperfett und Muskelmasse und schickt die Daten via WLAN ins Internet.

Design principles of wearables



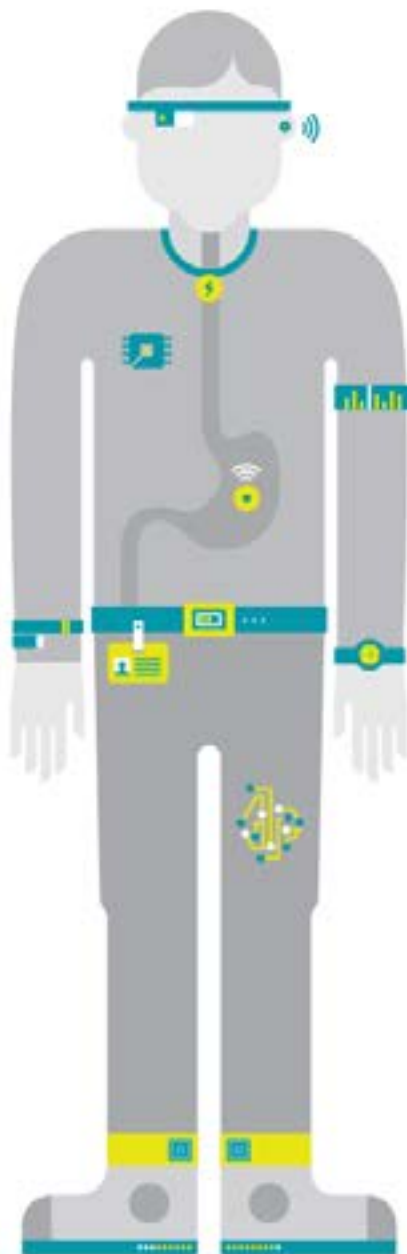
CONTENT

Ascribe to (much) "less is more" for content and its delivery—the design facilitates exceptionally low duration, high frequency use.



COMMUNICATION

Focus on communicating rather than simply displaying data—not necessarily visually, and not necessarily via the device generating the notification.



INFLUENCE

Do not force new behavior, but allow users to adjust their future behavior by providing new information or capabilities.



INTERACTION

Are careful about requiring response from the user—interaction with the device should be minimal and expedite the user's manual actions.



INTENTION

Use persistent design elements, alerts, just-in-time information, and notifications with discretion.



INTELLIGENCE

Are fueled largely by intelligence from analytics, big data, and sensors, which are often embedded in other devices.



ENHANCEMENT

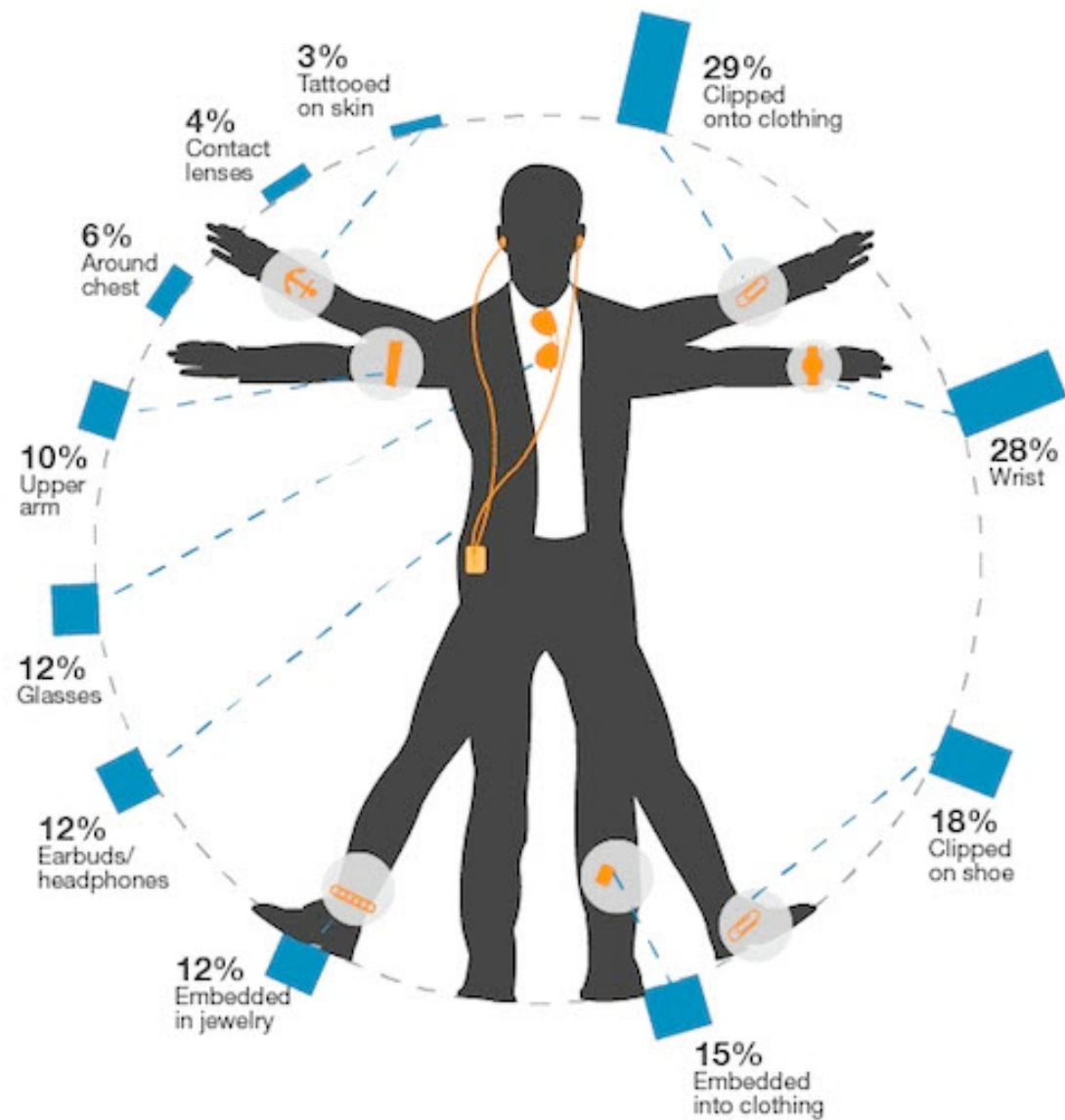
Leverage the digital world to enhance the user's behaviors, actions, and experiences in the real world.



NETWORK

Communicate with an expanding community of wearables, data, devices, systems, platforms, services, and software.

"How would you be interested in wearing/using a sensor device, assuming it was from a brand you trust, offering a service that interests you?"



Base: 4,657 US online adults (18+)
(multiple responses accepted)

Source: North American Technographics® Consumer Technology Survey, 2013

97141

Source: Forrester Research, Inc.

Stay Happy, Choose Technology— The One Wearable That Will Change Your Life



Ariana Espiritu



January 16 2014

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Yes, Muse Is Reading Your Brain—Sort Of

People spend about 47% of their day thinking about something other than what they're currently doing, according to psychologists at Harvard University, who [assert](#) that a "wandering mind is an

unhappy mind." A new product currently sold online is facing this problem head on. Making waves on Indiegogo, and **most recently, at The International CES in Vegas, Muse is a headband that monitors brain activity** the same way a heart rate monitor reads your pulse. Created by Canada-based InteraXon, its objective is to refocus the mind during that 47% chunk of time when your thoughts are elsewhere.

"In society, there are so many things that are pulling at our attention right now," says Michael Apollo, Director of Mind Sciences at InteraXon and experienced trainer of stress reduction techniques from the University of Toronto. "We're so agitated, so anxious, that we're forgetting we have a choice of what we bring our attention to and what we don't." According to Apollo, **Muse is a tool that can be used to reclaim that choice.**





Done

Milestone: Sticking with it

That was a tough session, but you made it through! Keep at it and you'll get better over time.



Milestone: Braving the storm!

Wow, this session was pretty active, but seems you came out okay! Congratulations on braving the storm.



PREV

NEXT



Prediction and Control





CYBERSYN CONTROL ROOM
<http://dam.mn/cybersyn>



PredPol

Predict Crime in **Real Time**

PredPol provides targeted, real-time crime prediction designed for and successfully tested by officers in the field.

BERNARD E. HARCOURT

AGAINST PREDICTION

A CRITIQUE OF POLICE, PROBATION, AND PRISON IN THE AGE OF ACTUARIAL JUSTICE



A week after students begin their distance learning courses at the UK's Open University this October, a computer program will have predicted their final grade. An algorithm monitoring how much the new recruits have read of their online textbooks, and how keenly they have engaged with web learning forums, will cross-reference this information against data on each person's socio-economic background. It will identify those likely to founder and pinpoint when they will start struggling. Throughout the course, the university will know how hard students are working by continuing to scrutinise their online reading habits and test scores.

Behind the innovation is Peter Scott, a cognitive scientist whose "knowledge media institute" on the OU's Milton Keynes campus is reminiscent of Q's gadget laboratory in the James Bond films. His workspace is surrounded by robotic figurines and prototypes for new learning aids. But his real enthusiasm is for the use of data to improve a student's experience. Scott, 53, who wears a vivid purple shirt with his suit, says retailers already analyse customer information in order to tempt buyers with future deals, and argues this is no different. "At a university, we can do some of those same things — not so much to sell our students something but to help them head in the right direction."

Policy on Ethical use of Student Data for Learning Analytics

1 Introduction


1.1 Rationale

- 1.1.1 The Open University has collected and analysed student data as a means of providing information relating to student support and retention for many years. The changing landscape of higher education has seen the rapid expansion of uses to which student data is put. The Open University, in common with many other higher education institutions, is now looking at its use of **learning analytics**.
- 1.1.2 In the context of the Open University, learning analytics is the use of raw and analysed student data to proactively identify interventions which aim to support students in achieving their study goals. Such interventions may be designed to support individual students and/or the entire cohort. This is in line with the University's vision of "...delivering a step-change in how effectively we help students achieve their study goals" and to deliver "...a study experience that maximizes students' chances of success in achieving their study goals whilst maintaining academic standards."¹
- 1.1.3 The use of a learning analytics approach to drive student support within the University is relatively new. There is a need to establish guiding principles which help provide a clear framework for the ethical application of learning analytics.

1.2 Problem statement

- 1.2.1 All data captured as a result of the University's interaction with the student has the potential to provide evidence for learning analytics. Data will, however, only be used for learning analytics where there is likely to be an expected benefit (which will be evaluated) to students' learning.

Ted Cruz using firm that harvested data on millions of unwitting Facebook users



Cambridge Analytica

Data-driven behavior change

Better audience targeting

Communication has changed. Blanket advertising no longer provides viable ROI for every campaign. Big data revolutionized the way organizations identify and locate their best prospects. But data alone isn't enough. Cambridge Analytica is building a future where every individual can have a truly personal relationship with their favorite brands and causes by showing organizations not just where people are, but what they really care about and what drives their behavior.

Data firm in talks for role in White House messaging - and Trump business

Trump strategist Steve Bannon apparently involved in talks despite being on board of Cambridge Analytica, which helped president-elect to victory



Steve Bannon, chief strategist for Donald Trump, is on the board of Cambridge Analytica. Photograph: Carlo Allegri/Reuters

A data mining company that helped Donald Trump win the presidency is in early talks to snare two potentially lucrative new contracts, one to boost the incoming Trump White House's policy messaging and the other to help the Trump Organization expand its sales, the Guardian has learned.

Cambridge Analytica, a data company that uses personality profiling and boasts billionaire Trump backer Robert Mercer as a key investor, is in discussions about potential deals with the Trump Organization and Steve Bannon, the CEO of the campaign and now Trump's senior counselor and chief strategist, according to a conservative digital strategist familiar with Cambridge. Despite his apparent role

PRODUCTS BUILT FOR A PURPOSE

Ten years ago, we set out to create products that would transform the way organizations use their data. Today, our products are deployed at the most critical government, commercial, and non-profit institutions in the world to solve problems we hadn't even dreamed of back then.

[THIS IS OUR STORY >](#)

Executive Order -- Using Behavioral Science Insights to Better Serve the American People

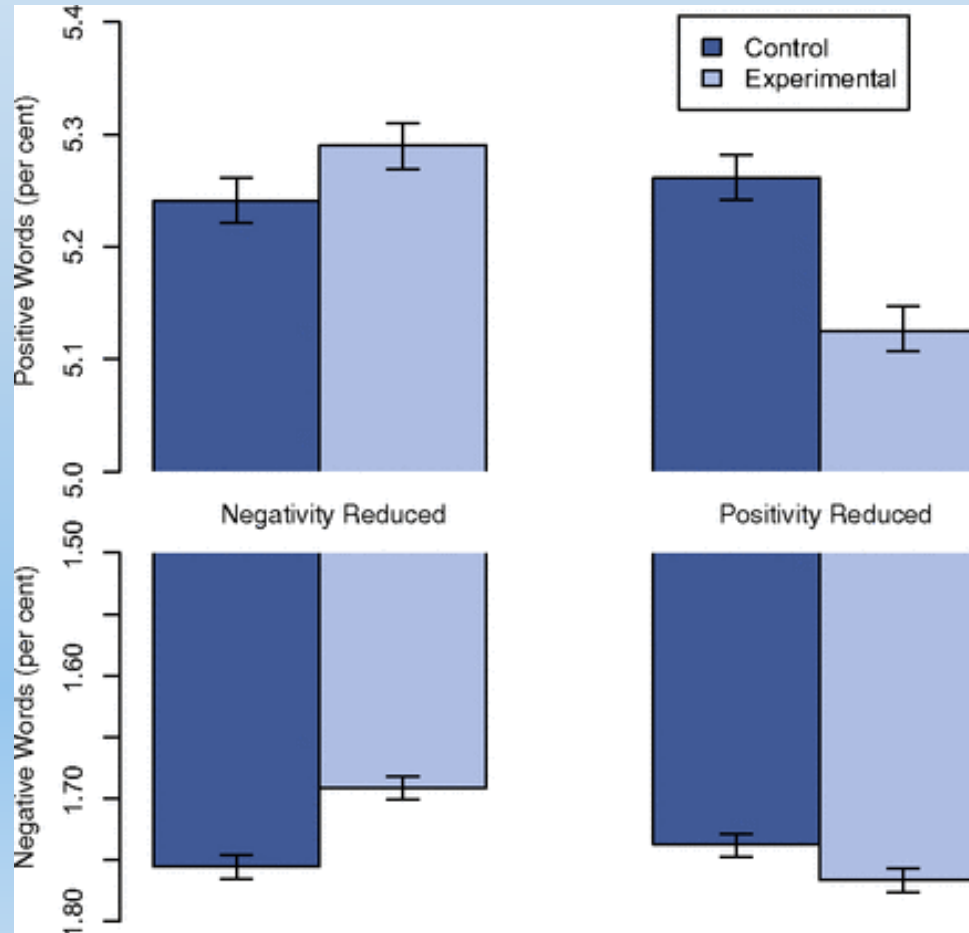
(ii) improve how information is presented to consumers, borrowers, program beneficiaries, and other individuals, whether as directly conveyed by the agency, or in setting standards for the presentation of information, by considering how the content, format, timing, and medium by which information is conveyed affects comprehension and action by individuals, as appropriate;

(iii) identify programs that offer choices and carefully consider how the presentation and structure of those choices, including the order, number, and arrangement of options, can most effectively promote public welfare, as appropriate, giving particular consideration to the selection and setting of default options; and

(iv) review elements of their policies and programs that are designed to encourage or make it easier for Americans to take specific actions, such as saving for retirement or completing education programs. In doing so, agencies shall consider how the timing, frequency, presentation, and labeling of benefits, taxes, subsidies, and other incentives can more effectively and efficiently promote those actions, as appropriate. Particular attention should be paid to opportunities to use nonfinancial incentives.



Experimental evidence of massive-scale emotional contagion through social networks



Facebook Data Science Team Announces Open Source Tools for A/B Testing

by John Furrier | Apr 4, 2014 | NEWS, SOCIAL |

Facebook is continuing their mission of donating goodness to the community with the release of source code called PlanOut. PlanOut is used for online A/B testing experiments.

This is a great move for Facebook, developers, and the data community. As we talk about on SiliconANGLE Wikibon and theCUBE is that Data science is the hottest emerging trend that is creating new value that has never been seen before.

This is a great preview of the upcoming FB conference on April 30th in SF.

Here is the Facebook news:



RESEARCH | REPORTS

POLITICAL SCIENCE

Exposure to ideologically diverse news and opinion on Facebook

Eytan Bakshy,^{1*} Solomon Messing,^{1†} Lada A. Adamic^{1,2}

Exposure to news, opinion, and civic information increasingly occurs through social media. How do these online networks influence exposure to perspectives that cut across ideological lines? Using deidentified data, we examined how 10.1 million U.S. Facebook users interact with socially shared news. We directly measured ideological homophily in friend networks and examined the extent to which heterogeneous friends could potentially expose individuals to cross-cutting content. We then quantified the extent to which individuals encounter comparatively more or less diverse content while interacting via Facebook's algorithmically ranked News Feed and further studied users' choices to click through to ideologically discordant content. Compared with algorithmic ranking, individuals' choices played a stronger role in limiting exposure to cross-cutting content.

kind of content shared among a set of partisans, which can include topic matter, framing, and slant. These scores, averaged over websites, capture key differences in well-known ideologically aligned media sources: FoxNews.com is aligned with conservatives ($A_s = +.80$), whereas the HuffingtonPost.com is aligned with liberals ($A_s = -0.65$) (additional detail and validation are provided in the supplementary materials, section S1.4.2). We observed substantial polarization among hard content shared by users, with the most frequently shared links clearly aligned with largely liberal or conservative populations (Fig. 1).

The flow of information on Facebook is structured by how individuals are connected in the network. The interpersonal networks on Facebook are different from the segregated structure of political blogs (16); although there is clustering according to political affiliation on Facebook, there are also many friendships that cut across

What is an A/B Test ?

A/B testing, also called split testing, is a method by which you find out which ad headlines, body copy, images, call-to-actions, or a combination of the above work best on your target audience.

Unless you've already created a lot of Facebook Ad campaigns for your product, it'll be pretty hard for you to predict what kind of ad design will work better for you or which demographic audience will be more likely to buy your product. This is where a thorough Facebook Ads A/B test comes in handy: You can quickly test multiple ads' designs and target audiences to uncover the most effective ones.

With the generous support of the National Science Foundation we have developed Culture Digitally. The blog is meant to be a gathering point for scholars and others who study cultural production and information technologies. Welcome and please join our conversation.

List of Participants

John Banks

Josh Braun

Nick Couldry

Kevin Driscoll

Mary Gray

Lee Humphreys

Tim Jordan

Aphra Kerr

Seth Lewis

Joshua McVelgh-Schultz

Andrés Monroy-Hernández

Gina Neff

Casey O'Donnell

Zizi Papacharissi

Tamara Shepherd

Thomas Streeter

Sam Sraay

Fred Turner

Can an algorithm be wrong? Twitter Trends, the specter of censorship, and our faith in the algorithms around us Oct 19, 2011

The interesting question is not whether Twitter is censoring its Trends list. The interesting question is, what do we think the Trends list is, what it represents and how it works, that we can presume to hold it accountable when we think it is "wrong?" What are these algorithms, and what do we want them to be?

It's not the first time it has been asked. Gilad Lotan at SocialFlow (and erstwhile Microsoft UX designer), spurred by questions raised by participants and supporters of the Occupy Wall Street protests, asks the question: is Twitter censoring its Trends list to exclude #occupywallstreet and #occupyboston? While the protest movement gains traction and media coverage, and participants, observers and critics turn to Twitter to discuss it, why are these widely-known hashtags not Trending? Why are they not Trending in the very cities where protests have occurred, including New York?

The presumption, though Gilad carefully debunks it, is that Twitter is, for some reason, either removing #occupywallstreet from Trends, or has designed an algorithm to prefer banal topics like Kim Kardashian's wedding over important contentious, political debates. Similar charges emerged around the absence of #wikileaks from Twitter's Trends when the trove of diplomatic cables were released in December of last year, as well as around the #demo2010 student protests in the UK, the controversial execution of #TroyDavis in the state of Georgia, the Gaza #flotilla, even the death of #SteveJobs. Why, when these important points of discussion seem to spike, do they not Trend?



A beauty contest was judged by AI and the robots didn't like dark skin

The first international beauty contest decided by an algorithm has sparked controversy after the results revealed one glaring factor linking the winners

Sam Levin in San Francisco

 @SamTLevin

Thursday 8 September 2016 23.42 BST



< Shares  Comments

17,677 685

 Save for later



 One expert says the results offer 'the perfect illustration of the problem' with machine bias. Photograph: Fabrizio Bensch/Reuters

The first international beauty contest judged by “machines” was supposed to use objective factors such as facial symmetry and wrinkles to identify the most attractive contestants. After [Beauty.AI](#) launched this year, roughly 6,000 people from more than 100 countries submitted photos in the hopes that artificial intelligence, supported by complex algorithms, would determine that their faces most closely resembled “human beauty”.

But when the results came in, the creators were dismayed to see that there was a glaring factor linking the winners: the robots did not like people with dark skin.

Invisibility



S.H. ... R. 48 S. 2
Cable ... - E.C.S. Manhole at Wall St.
Looking So. W. - Manhole started
No. 133. Feb. 16, 1917.





Lumo[^]
Back



Quantify the invisible

LUMO[^]

SCOUT

Misplaced Concretism

The Human Skin: Philosophy's Last Line of Defense

Arthur F. Bentley

HUMAN skin is the one authentic criterion of the universe which philosophers recognize when they appraise knowledge under their professional rubric, epistemology. By and large—except for a few of the great Critics and Sceptics—they view knowledge as a capacity, attribute, possession, or other mysterious inner quality of a "knower"; they view this knower as residing in or at a "body"; they view the body as cut off from the rest of the universe by a "skin"; all of which holds for philosophizing physicists and physiologists even as for the professionals of the arcanum itself. If this assertion seems crude, one may recall that there *are* times when a bit of crudity is a fair physic for an inflamed subtlety. In the case before us the factual crudity lies in the use of "skin" for a criterion, not in our calling attention to the fact. The "skin" that is so used is, indeed, that of ancient anatomical schematism, unaffected by the transformation of understanding which modern physiological research

Bentley, 1941

Martha

the last passenger pigeon, died at
1:00 p.m. on September 1, 1914,
at age 29, in the Cincinnati
Zoological Gardens.

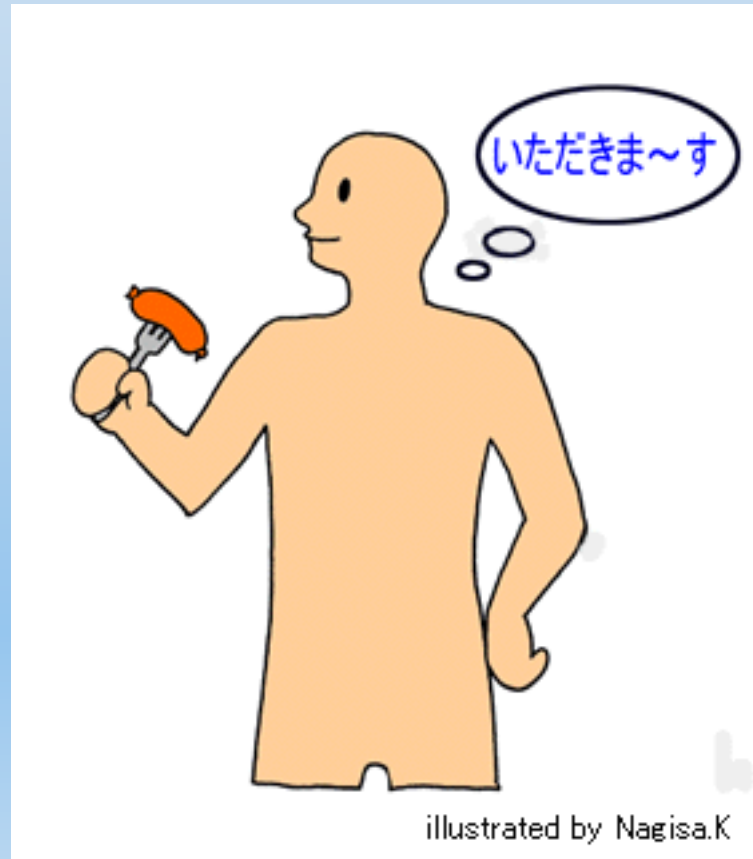




"Our Self-Portrait: the Human Microbiome" by Joana Ricou



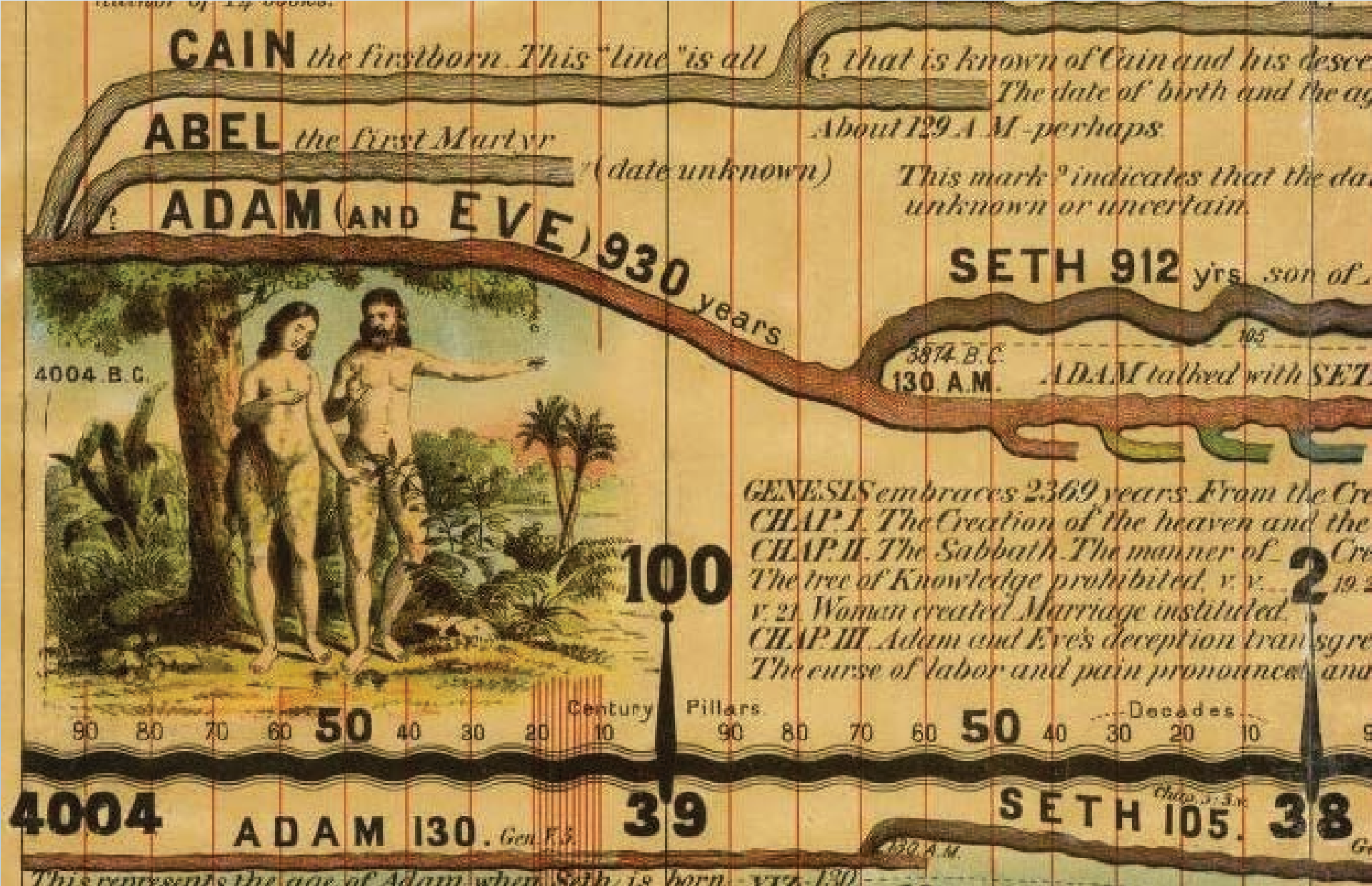
Inside all of the intestinal tract where food goes through without rupturing mucous membrane is "outside" the body border

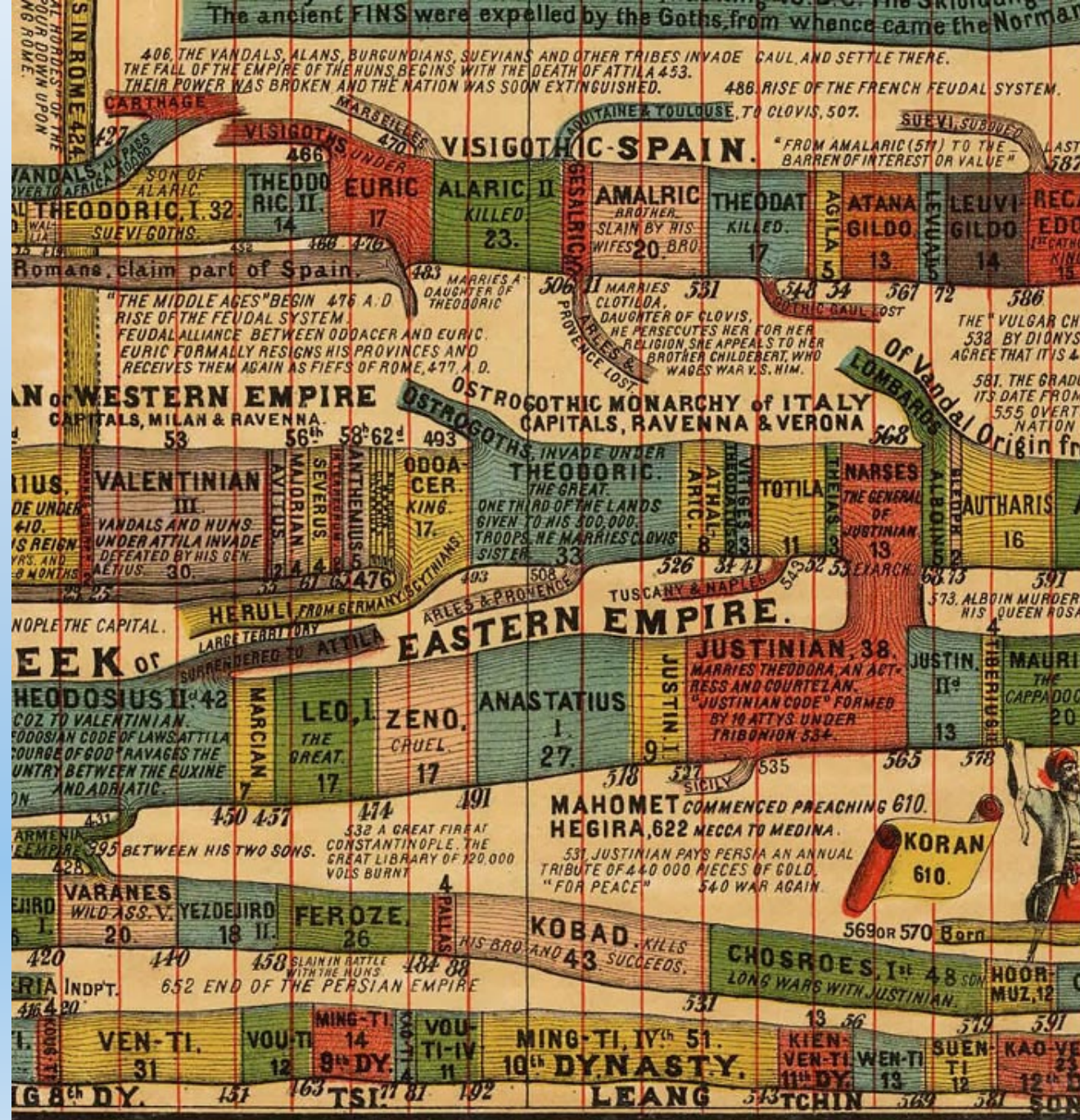




Synchronization

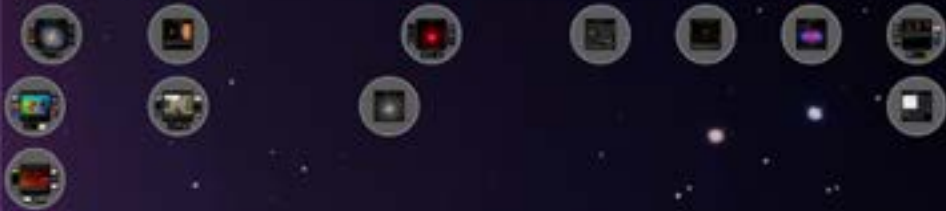








Stellaris (Star) Epoch

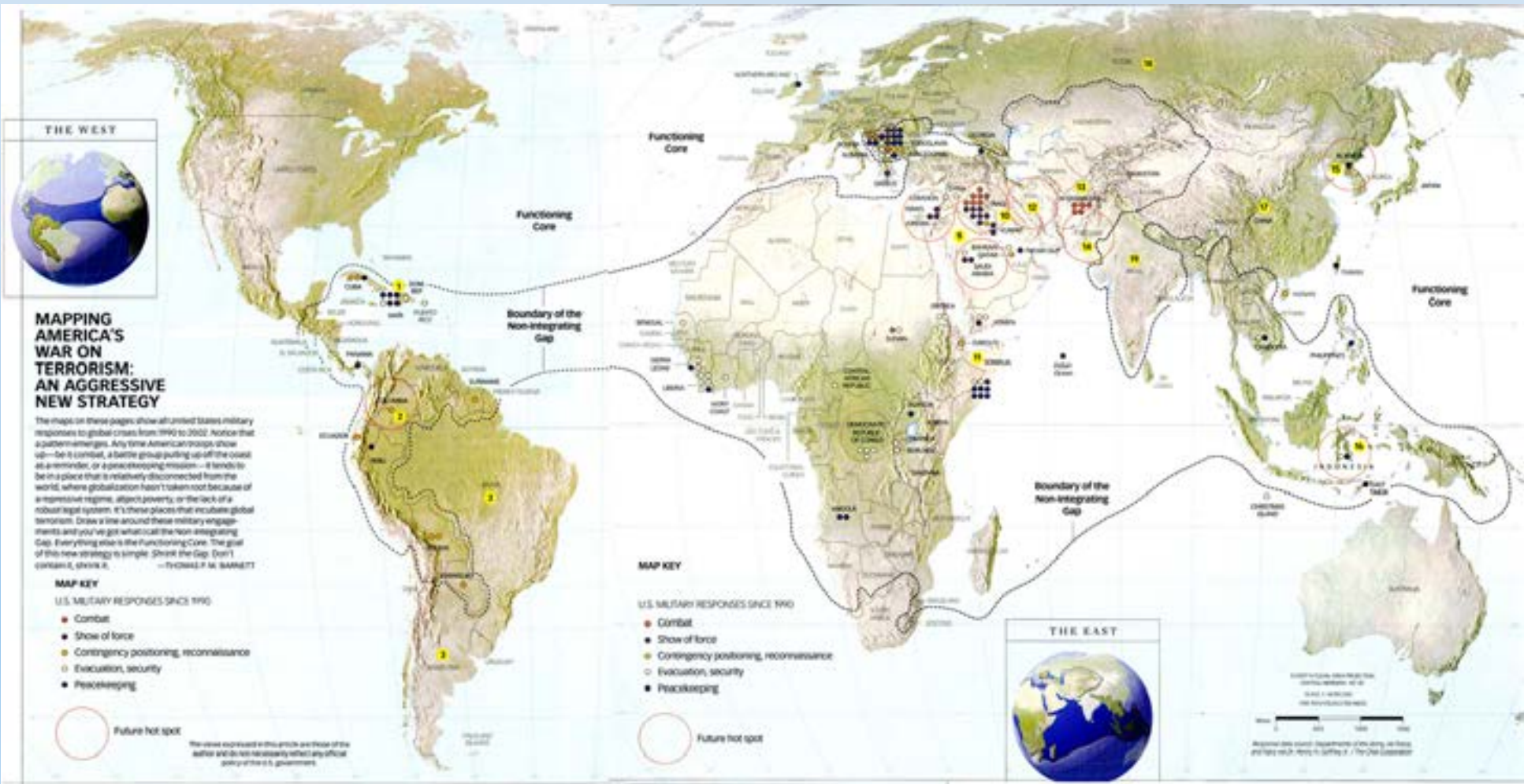


Geologic Time Scale

Earth & Solar System



Cosmos



MAPPING AMERICA'S WAR ON TERRORISM: AN AGGRESSIVE NEW STRATEGY

The maps on these pages show all United States military responses to global crises from 1990 to 2002. Notice that a pattern emerges. Any time American troops show up—be it combat, a battle group putting up of the coast as a reminder, or a peacekeeping mission—it tends to be in a place that is relatively disconnected from the world, where globalization hasn't taken root because of a repressive regime, abject poverty, or the lack of a robust legal system. It's these places that incubate global terrorism. Draw a line around these military engagements and you've got what we call the Non-integrating Gap. Everything else is the Functioning Core. The goal of this new strategy is simple: Shrink the Gap. Don't contain it, shrink it. —FRANK R. M. BARNETT

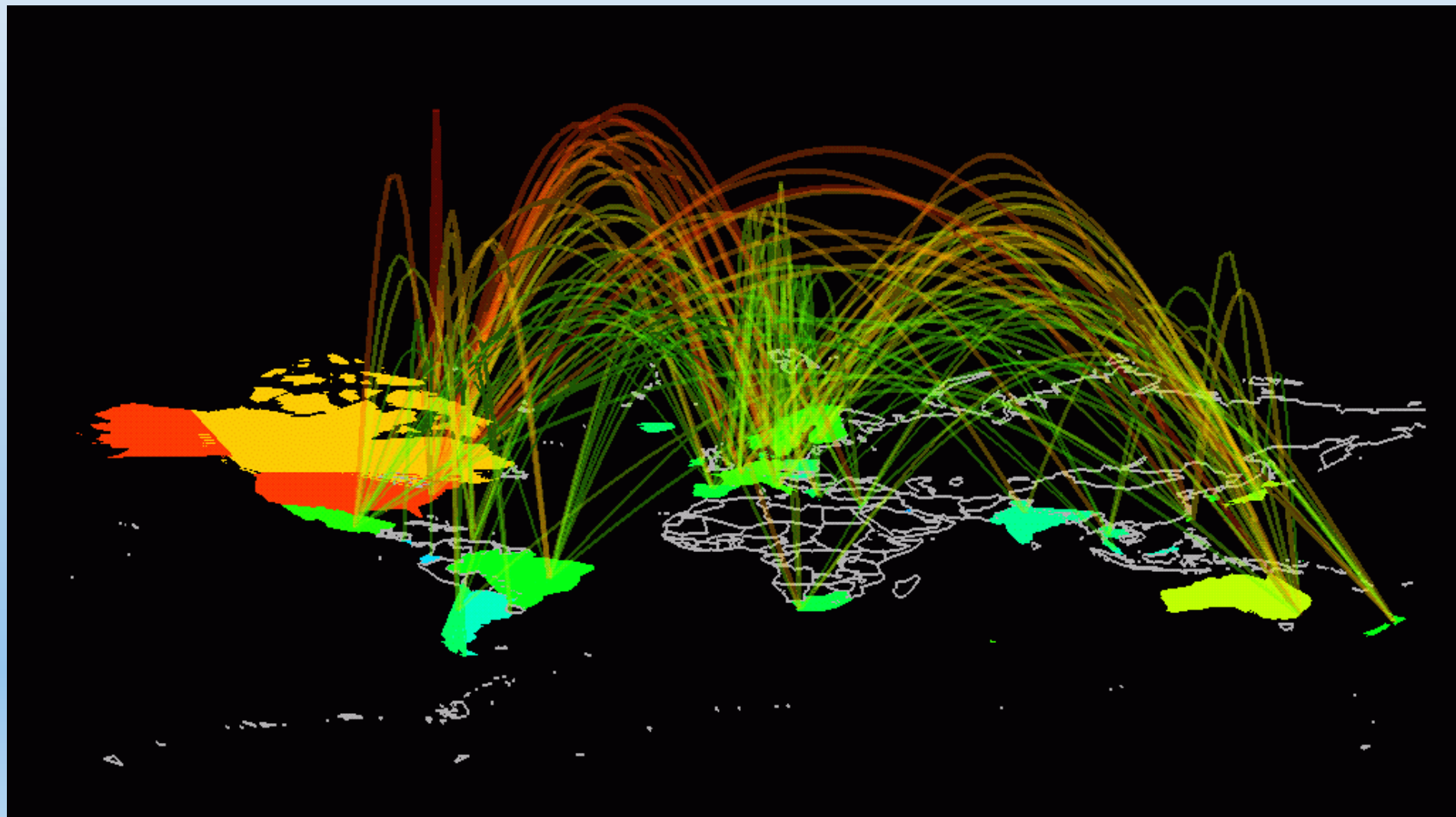
- MAP KEY**
- U.S. MILITARY RESPONSES SINCE 1990
- Combat
 - Show of force
 - Contingency positioning, reconnaissance
 - Evacuation, security
 - Peacekeeping
- Future hot spot
- The views expressed in this article are those of the author and do not necessarily reflect any official policy of the U.S. government.

- MAP KEY**
- U.S. MILITARY RESPONSES SINCE 1990
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 - Evacuation, security
 - Peacekeeping
- Future hot spot




Scale: 0 500 1000 Miles
 0 500 1000 Kilometers

Map data based on Department of the Army, US Army and US Navy maps. © 2002 by The Ohio State University.



To be part of a community that aims to increase global health and wellbeing - [click to participate!](#)



WE SEQUENCE, ANALYSE AND VALIDATE MEMES FOR HEALTH

*To accomplish for memetics
what the Human Genome Project,
1000 Genomes and
the Human Variome projects have done for genetics*

Why start The Human Memome Project?

Discrete units of ideas -- Memes -- are key to everything. Memes inform and create choices, behaviours, reactions and impact on health, wellbeing and success.

The Human Memome Project Team think that health and wellbeing are the most important things in the universe. We hypothesise that by sequencing the memes of participants and then correlating these memes with quantitative and qualitative biomarkers of health we will be able to find the memes that most positively affect health.

Using data science, linguistics and omics techniques we will analyse the health survey and meme data results. We want to find the memes that most positively correlate with health. We will then use these memes to create memetic tools in order to increase health and wellbeing and for the calculation of which memes most positively affect human life span and health span. We think those are great reasons to start The Human Memome Project.

masterclocktimes

In a world demanding ever more precise synchronized time...

Search

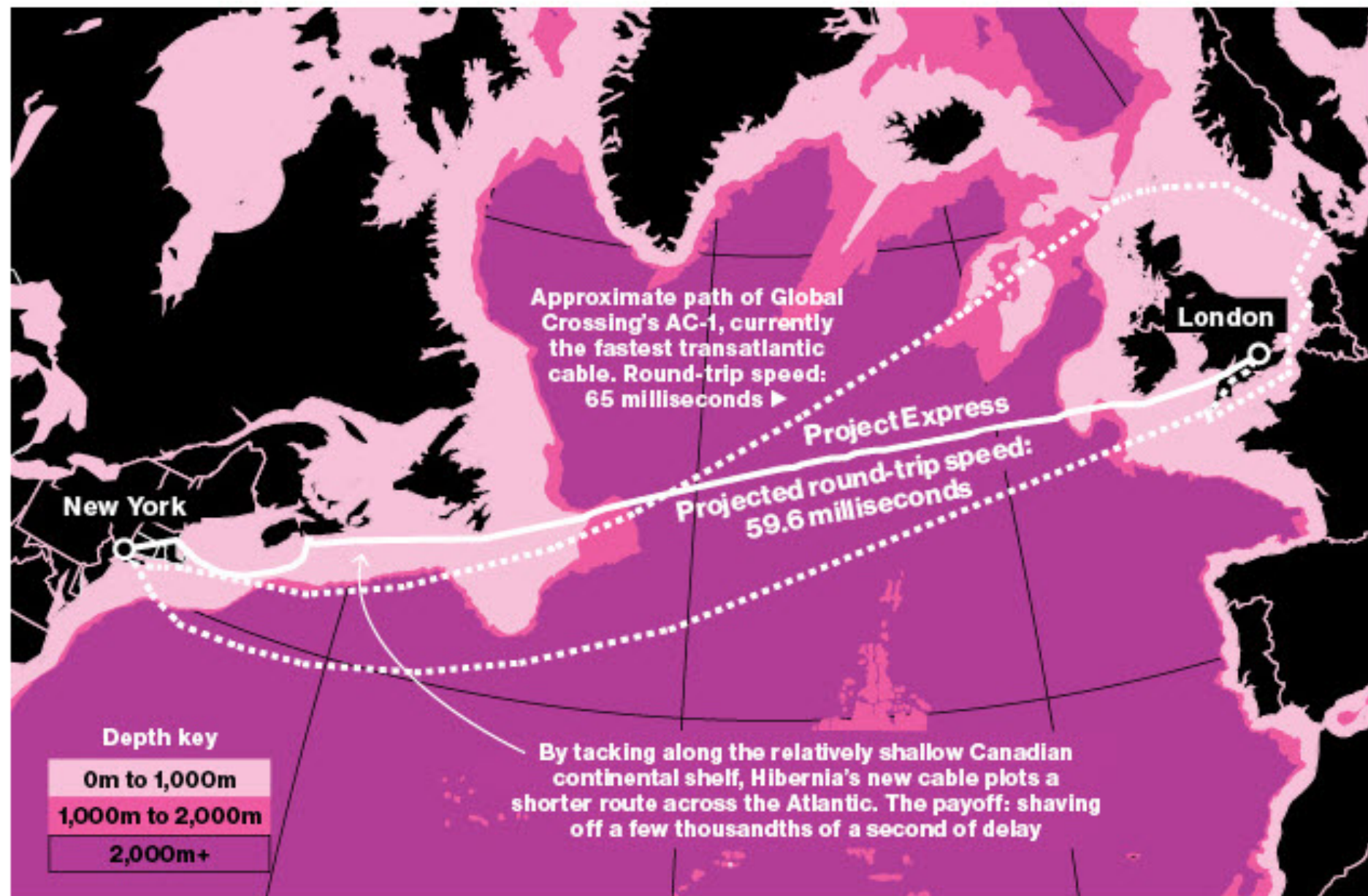


THE Masterclock TIMES

14:17:38

Home Welcome to the Masterclock Times





Graphic by Bloomberg Businessweek; Data: Hibernia Atlantic, NASA, Greg Mahlkecht

Markets & Finance

Stock Trading Is About to Get 5.2 Milliseconds Faster



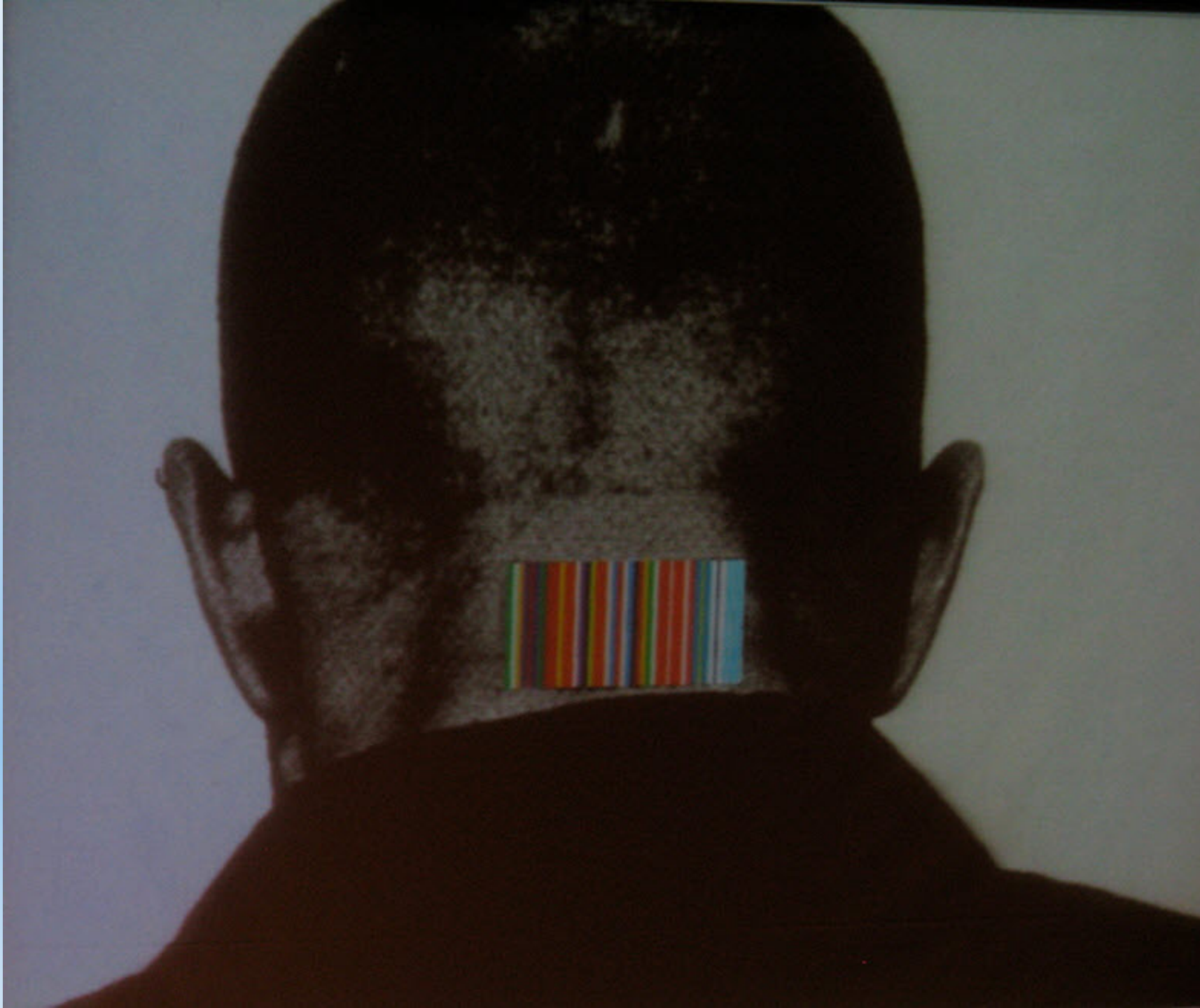
21ST CENTURY ARK

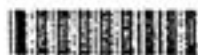
TAKING STOCK OF NATURE'S RICHES



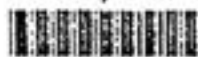
Barcoding Life



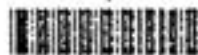




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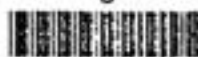
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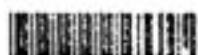
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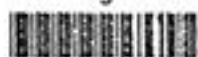
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9



6



3

CONVERSATION: EXPRESSION OF ODD IDEAS



***R0*

- 1. None
- 2. Occasionally present (less than twice monthly)
- 3. Frequent eg. weekly but most speech is appropriate
- 4. Very frequently eg. daily
- 5. Virtually all conversation is inappropriate
- 99.No data

LAUGHING OR TALKING TO SELF



***A P *

- 1. No such behaviour
- 2. 1 or 2 times in the past month but can stop if reminded
- 3. 3 times in the past month - difficulty stopping if reminded
- 4. Occurs weekly
- 5. Daily episodes or long-lasting or noisy
- 99.No data



What is iBOL?

What is the Purpose of the International Barcode of Life Project?

Print



Life is threatened

- Life is threatened with a mass extinction event rivaling any in earth history.
- Life provides critical ecosystem services, such as pollination, nutrient recycling, food and forest products.
- Life causes major economic losses linked to pests and diseases of crops, livestock and humanity.
- Life creates complex molecules, such as antibiotics and enzymes, with tremendous economic and societal benefit.
- Life is largely unknown despite nearly three centuries of scientific endeavour.

News

Changes announced at iBOL

Governance streamlined; cost recovery for sequencing Recent ...

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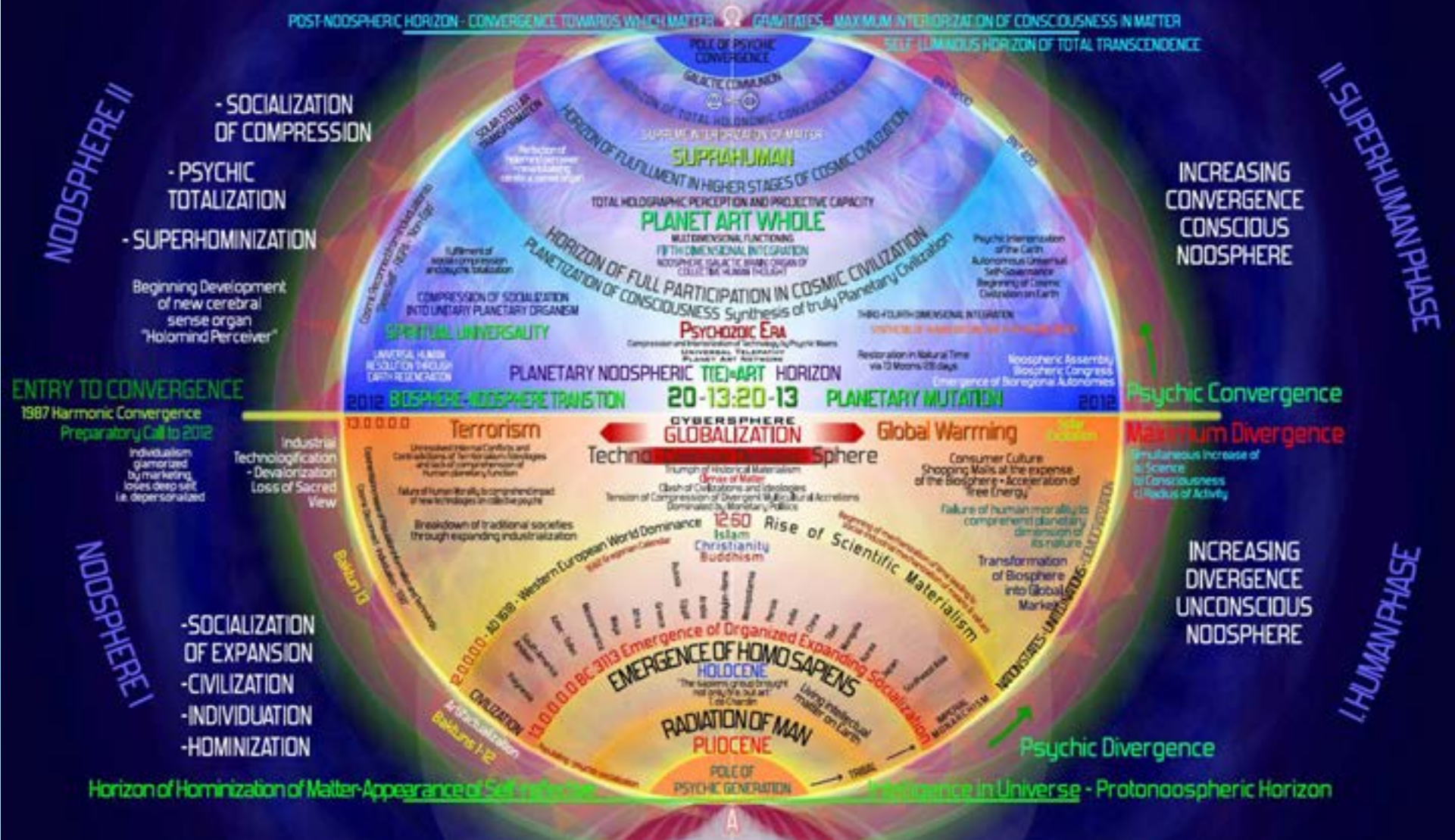
Features

For Scientists

Darwin's butterflies?

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For Enthusiasts



The Global Consciousness Project

Meaningful Correlations in Random Data

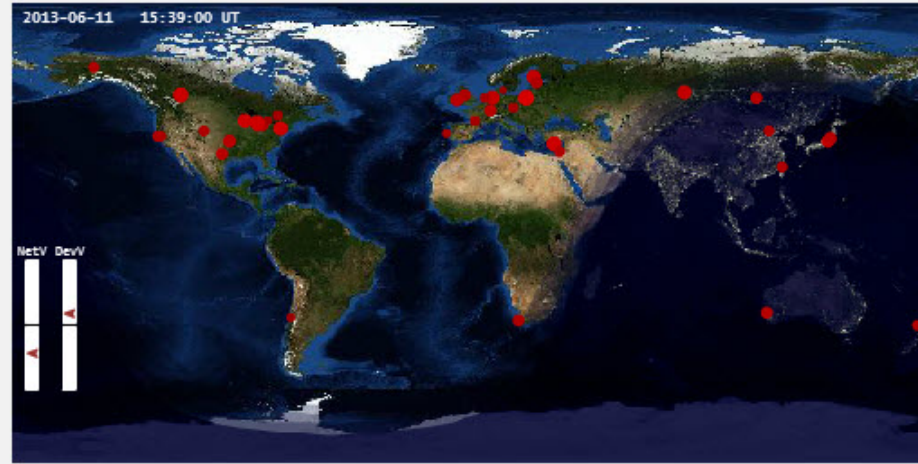
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*Mind is nonlocal – it
is not in your head.*



Coherent consciousness creates order in the world

Subtle interactions link us with each other and the Earth

When human consciousness becomes coherent and synchronized, the behavior of random systems may change. Quantum event based random number generators (RNGs) produce completely unpredictable sequences of zeroes and ones. But when a great event synchronizes the feelings of millions of people, our network of RNGs becomes subtly structured. The probability is less than one in a billion that the effect is due to chance. The evidence suggests an emerging noosphere, or the unifying field of consciousness described by sages in all cultures.

The Global Consciousness Project is an international, multidisciplinary collaboration of scientists and engineers. We collect data continuously from a global network of physical random number generators located in 70 host sites around the world. The data are transmitted to a central archive which now contains more than 12 years of random data in parallel sequences of synchronized 200-bit trials every second.

Our purpose is to examine subtle correlations that reflect the presence and activity of consciousness in the world. We hypothesize that there will

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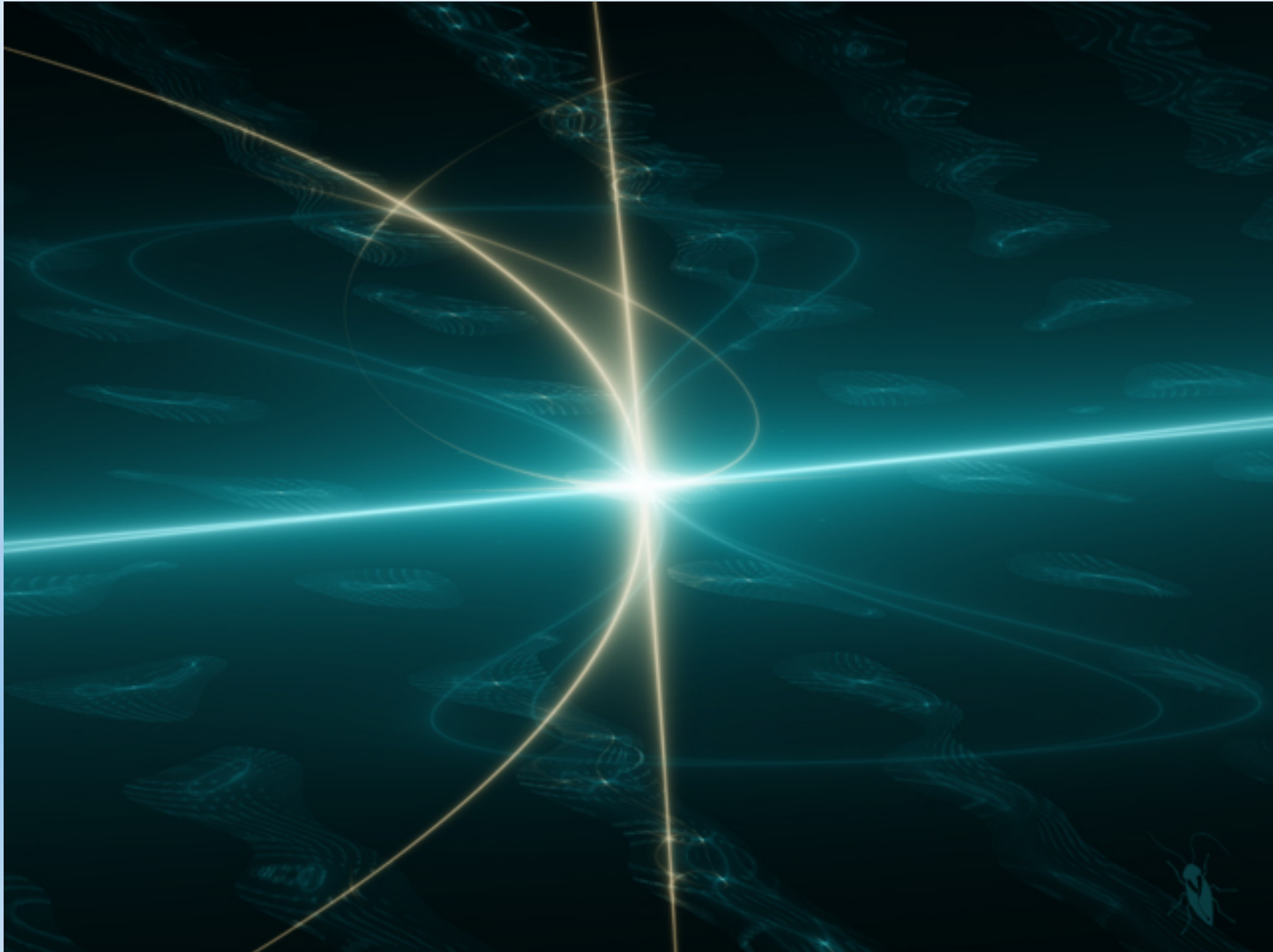
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THE HUMAN MEMOME PROJECT

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To be part of our citizen science project and be part of a community focused on increasing global health and wellbeing - [click here participate!](#)
[or here to signup!](#)



WE SEQUENCE, ANALYSE AND VALIDATE MEMES FOR HEALTH

*To accomplish for memetics
what the Human Genome Project,
1000 Genomes and
the Human Variome projects have done for genetics*

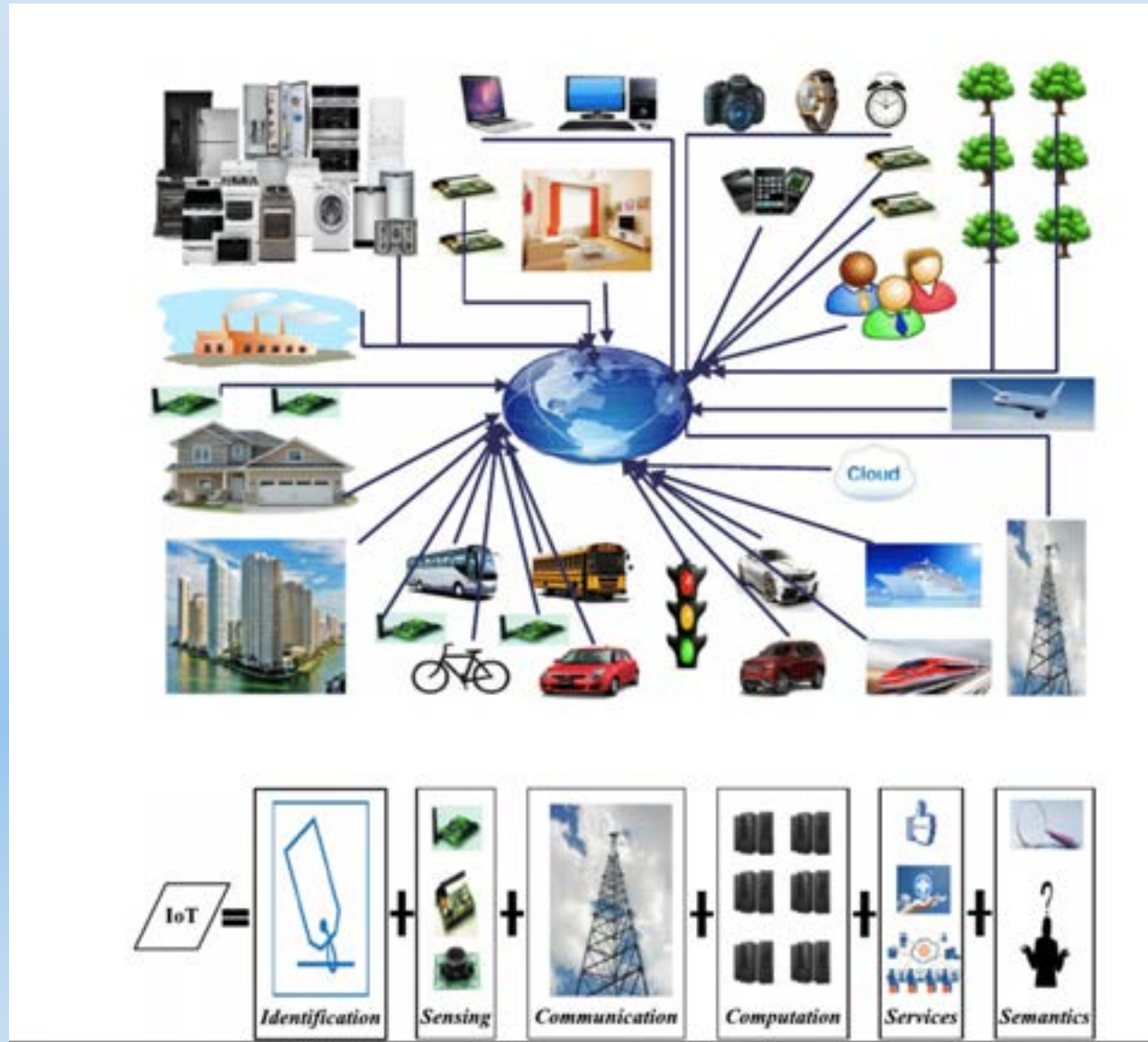
Why start The Human Memome Project?

Discrete units of ideas -- Memes -- are key to everything. Memes inform and create choices, behaviours, reactions and impact on health, wellbeing and success.

The Human Memome Project Team think that health and wellbeing are the most important things in the universe. We hypothesise that by sequencing the memes of participants and then correlating these memes with quantitative and qualitative biomarkers



The Internet of Things



Conclusion

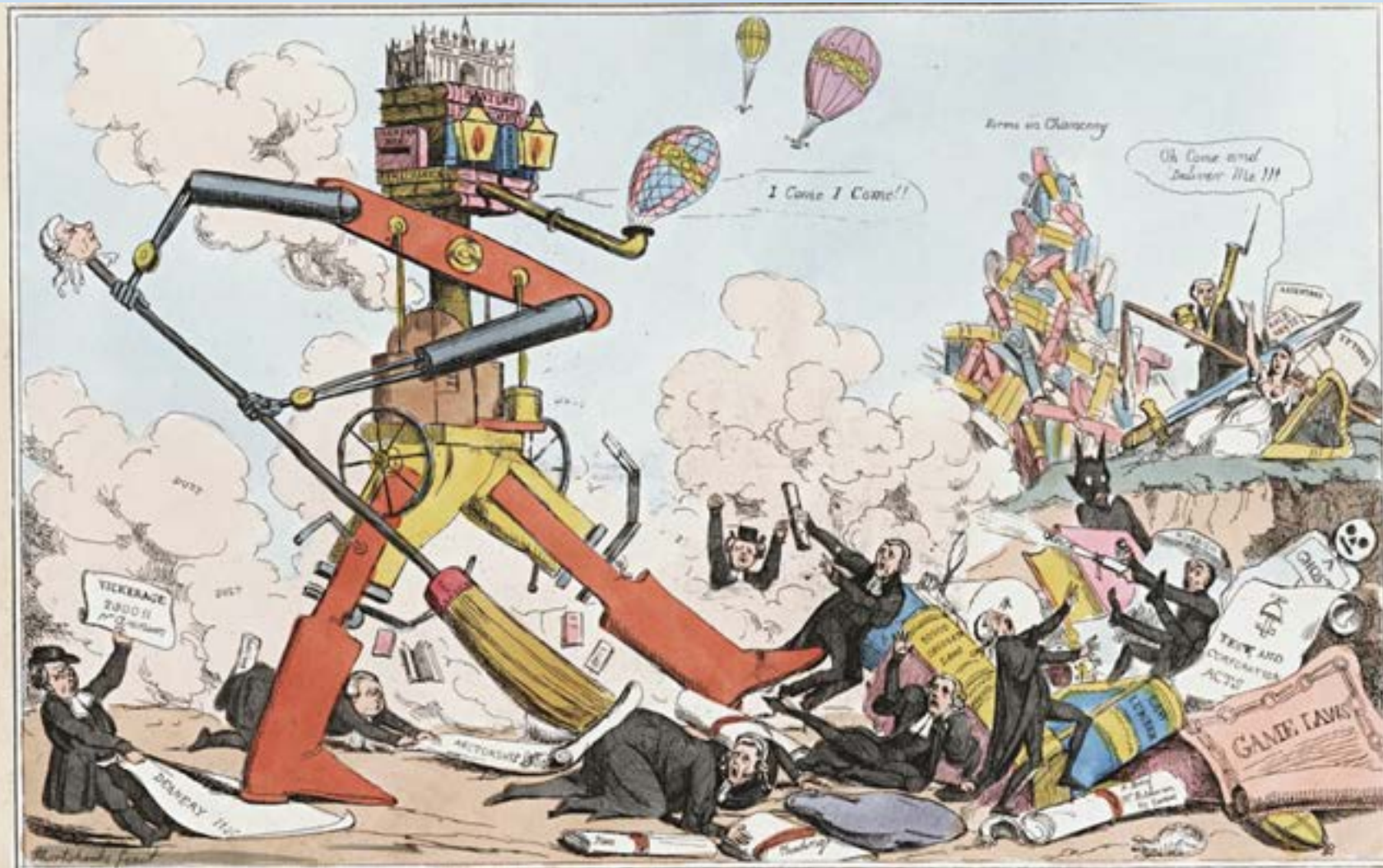
Non est potestas Super Terram quae Comparetur ei Job. 41. 24.



The March of Intellect 1 (1828)



The March of Intellect 2 (1828)





THE SLOWEST COMPUTER IN THE WORLD . . IS A CLOCK!

The idea to build a monument scale, multi-millennial, all mechanical clock as an icon to long term thinking came from computer scientist Danny Hillis in 01995 (that's not a typo).

Hillis reasoned that by actually building a remote monument, the discussions around long term thinking would be far more focused. And it would lend itself to good storytelling and myth, both essential requirements of anything lasting a long time.

In 01996 a group of friends led by Stewart Brand incorporated a non profit around the idea of long term thinking and responsibility. This group became the founding board of [The Long Now Foundation](#). One of the members, Peter Schwartz, suggested that 10,000 years be the time frame, as it was about how long humans have had a stable climate and technological progression.

