



## The Future of the Internet: Big Data, Big Brother, Big Tech, Big Telco and Big Gov...?







Tweet any question to #askgerd #ituworld

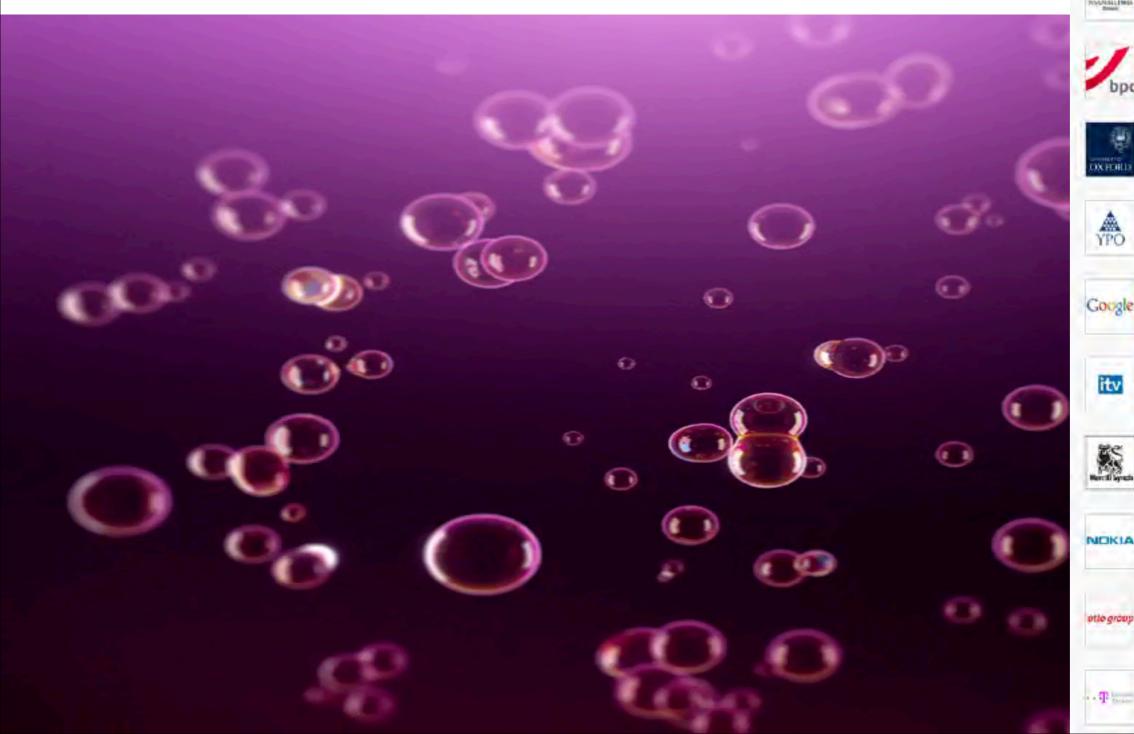


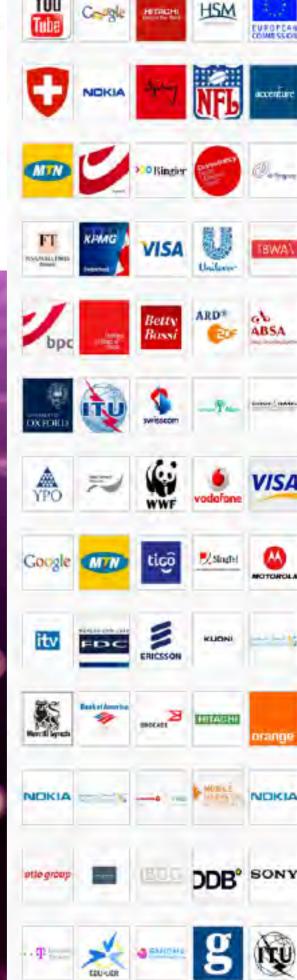
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## THE FUTURES AGENCY

IT WASN'T RAINING WHEN NOAH BUILT THE ARI







Life is becoming FASTER than fiction...





## Exponential technological progress: more speed means more risk



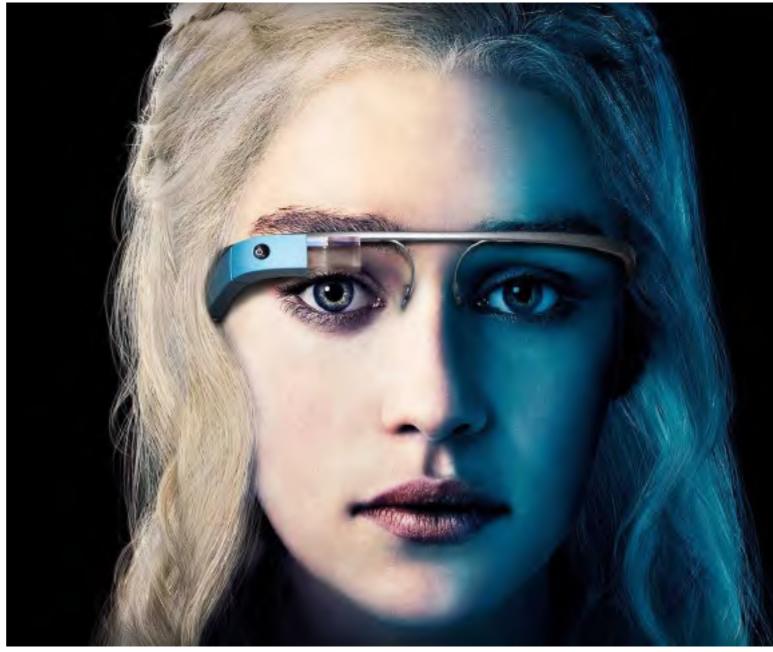
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#### The power of technology now exceeds the scope of our **ETHICS**

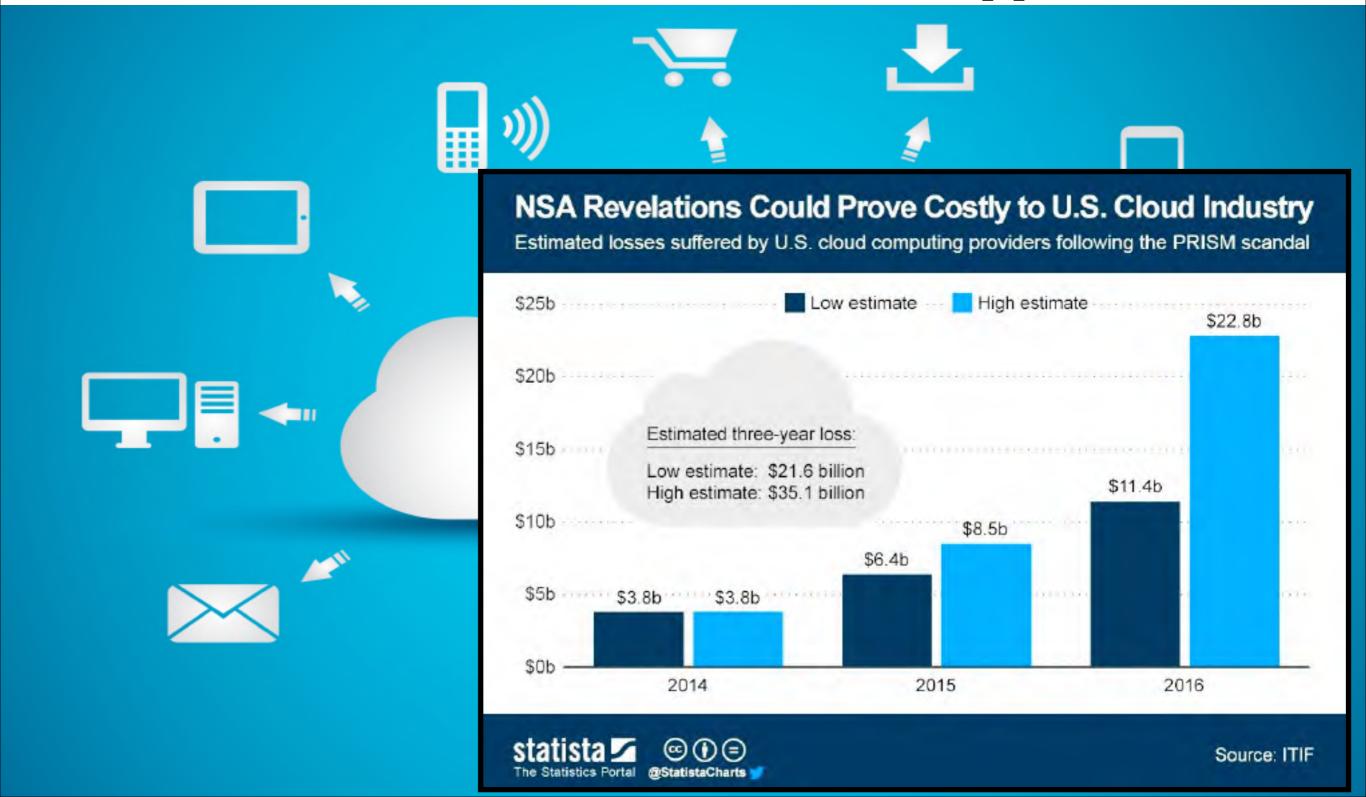






"In its self-contained way, Google Glass joins the 21st-century notion that everyone is a filmmaker with the more conventionally accepted truth that everyone is an audience" Tribecafilm.com Sept 2013

## Zero privacy + flawed security + abusive marketing will translate into slower pace of technology adoption which means missed and reduced opportunities





# Artificial Intelligence is becoming the new normal AUTONOMOUS PARKING



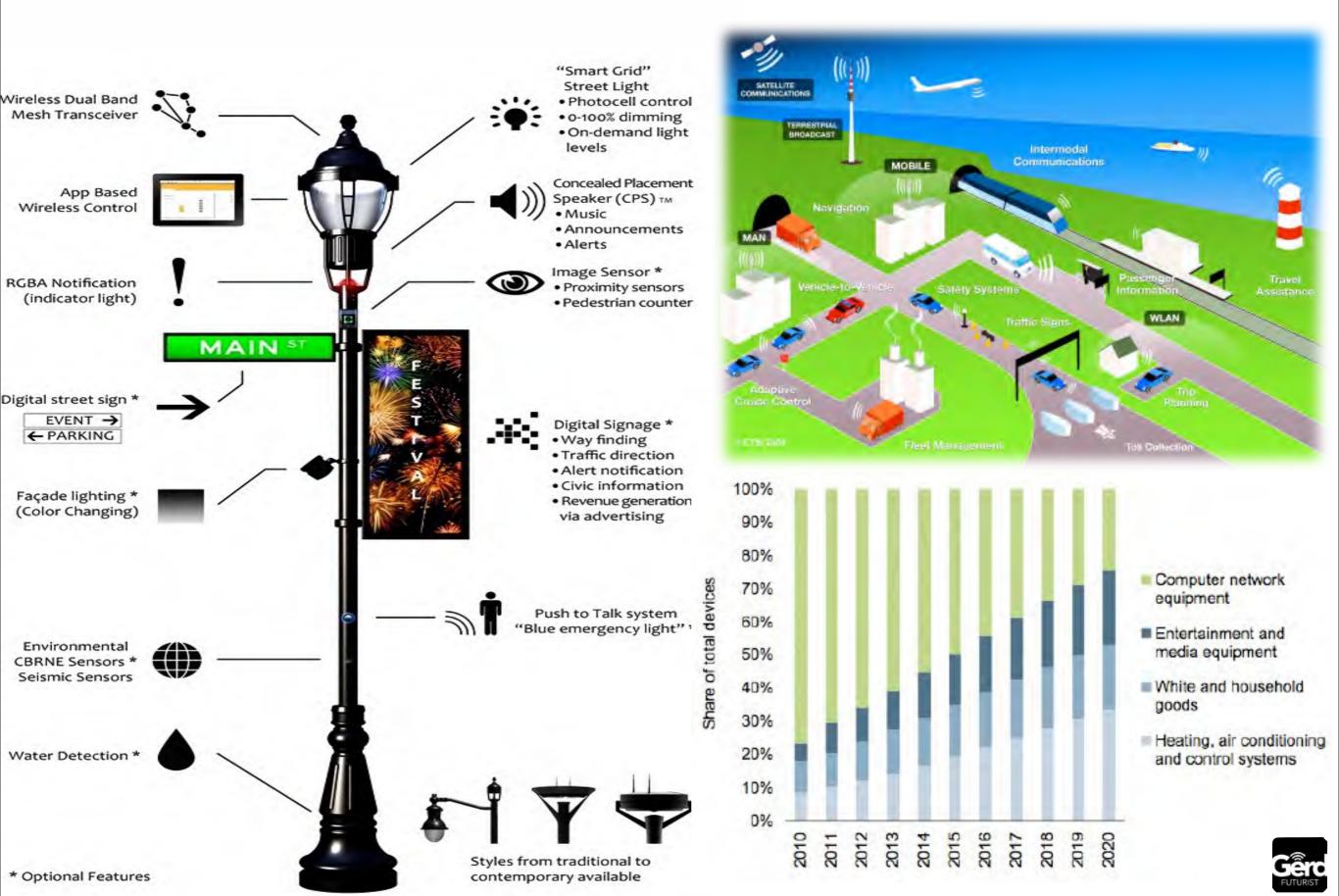




"We will be surrounded by computational power. So for average people, for average users and consumers, you will be living in a world where you are essentially living in a computer, where you are surrounded by intelligence"

reuters.com Oct 29 201

#### **Connected Intelligent Real-Time Everything**



#### Mobile devices are already our external brains





"A kid in Africa with a smartphone has more information today than the President of the United States did 15 years ago." Ray Kurzweil







#### **Interface Revolutions: unprecedented access to information**







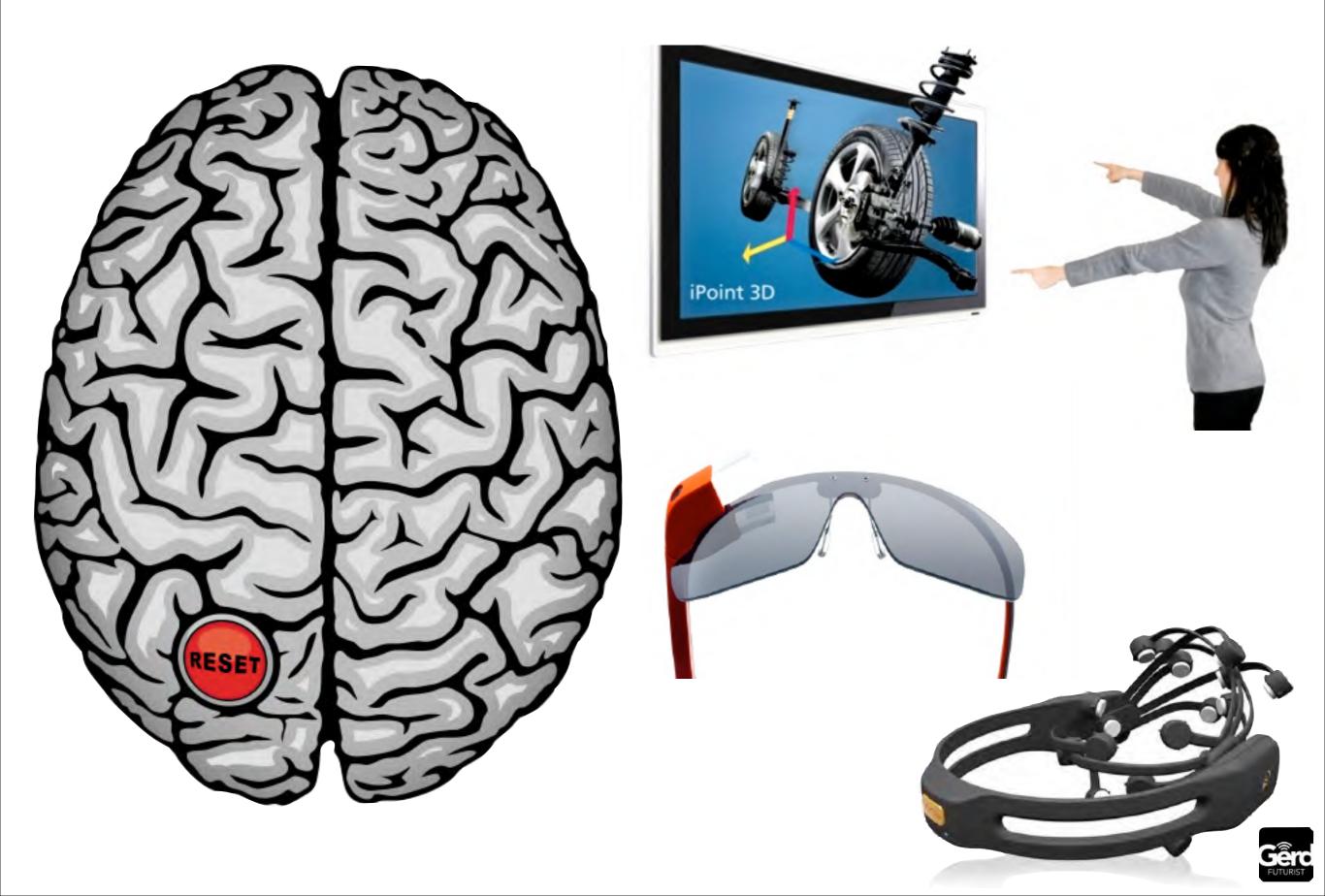








#### Human-Machine Evolutions: Type.Speak.Gesture.Blink.Think







#### The Napsterization of Manufacturing?

#### **Printing Your Own Food**



By Quartz May 22nd 2013 1:44 PM

More Storles by Quartz

The next frontier in the fight against hunger may be manufacturing food through 3-D printers.

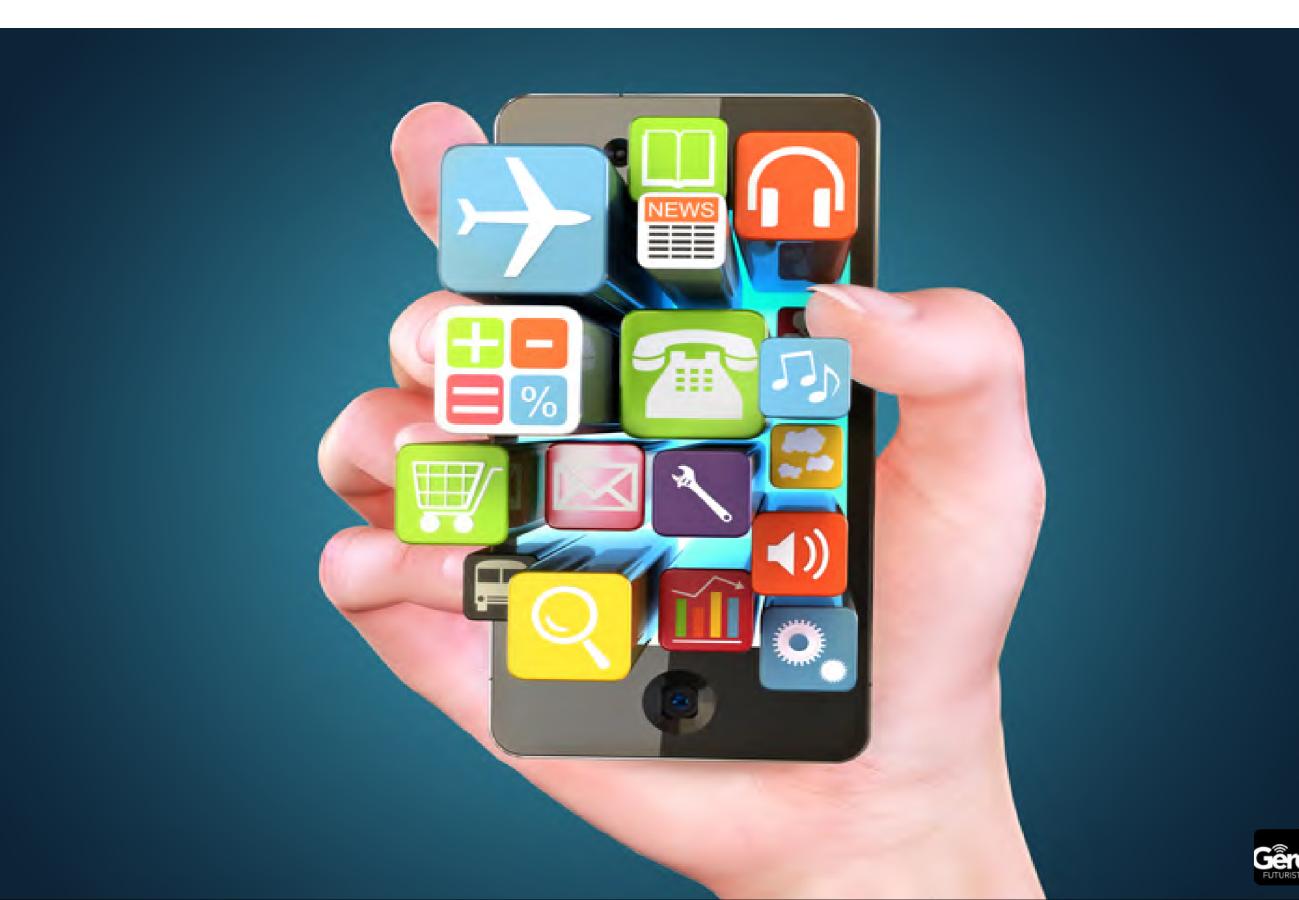
#### QUARTZ

by Christopher Mims

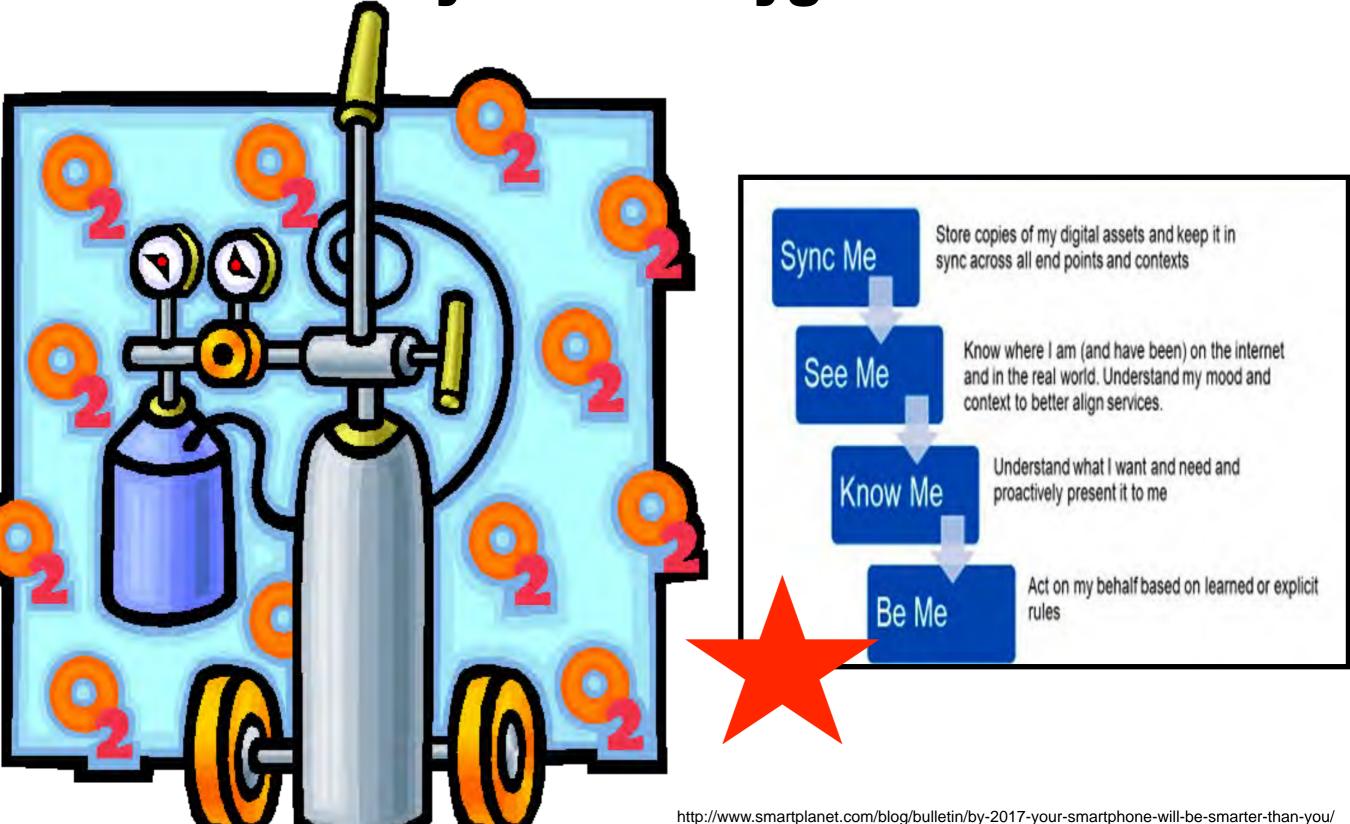
Anjan Contractor's 3D food printer might evoke visions of the "replicator" popularized in Star Trek, from which Captain Picard was constantly interrupting himself to order tea. And indeed Contractor's company, Systems & Materials Research Corporation, just got a six month, \$125,000 grant from NASA to create a prototype of his universal food synthesizer.



#### E-M-P-O-W-E-R-M-E-N-T



#### Connectivity is like Oxygen now... \*but



#### E-N-S-L-A-V-E-M-E-N-T



"It keeps me from looking at my phone every two seconds."

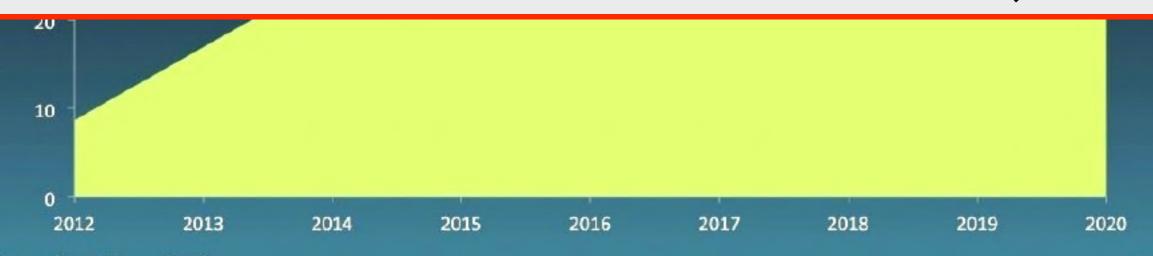


#### 75 Billion Connected Devices By 2020

**Devices Connected To The "Internet Of Things"** 



## Huge economic potential - but we must observe UNINTENDED CONSEQUENCES

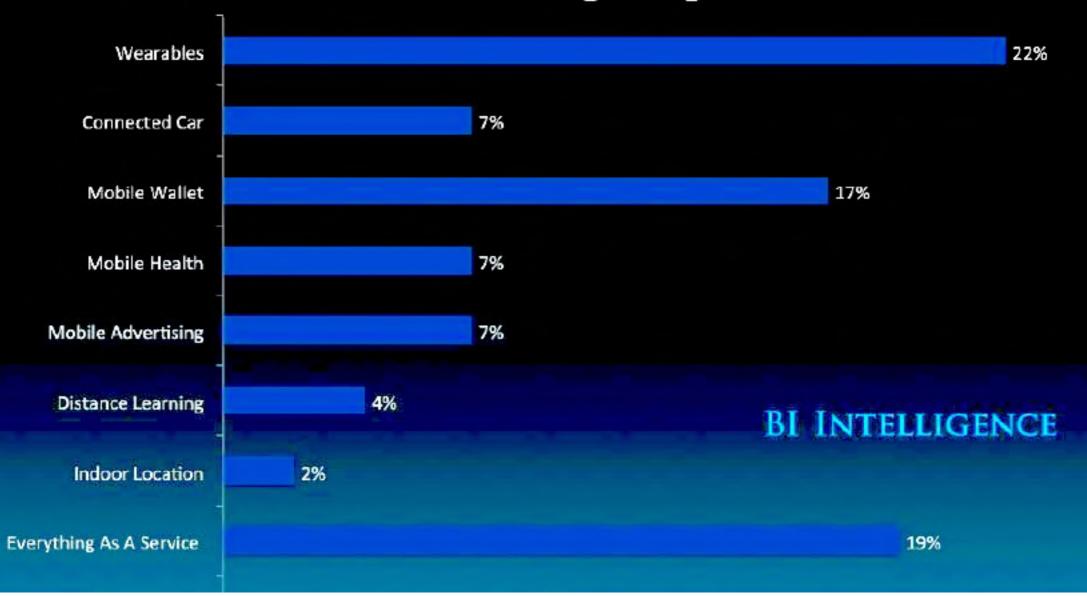


Source: Cisco, Morgan Stanley

BUSINESS

#### **Wearables!**

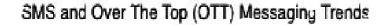
What Is The Next Big Thing In Mobile?

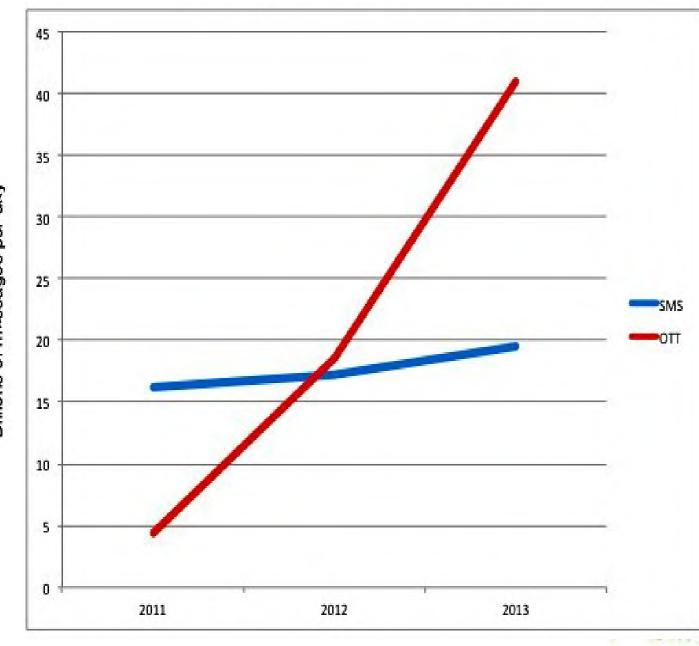


## Vast societal & behavioral changes fuelled by exponential technological advancement

## "The greatest danger in times of turbulence is not the turbulence, itself, but to act with yesterday's logic"

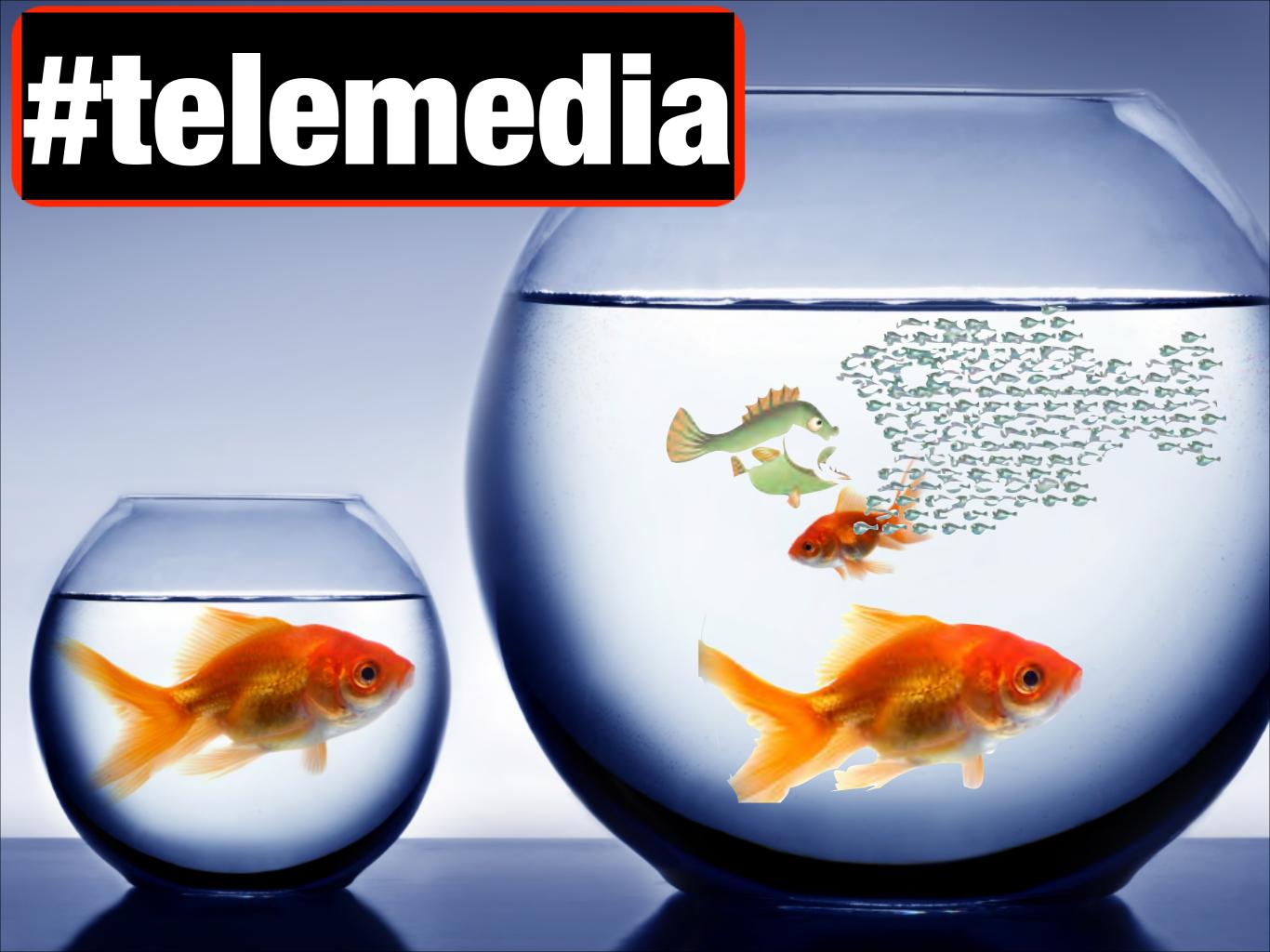
\*Peter Drucker





Source: Informa, May 2013 (https://commerce.informatm.com/reports/main/voip-ip-messaging-revised.html





#### **Example: the Future of Media is User-Control. Period.**



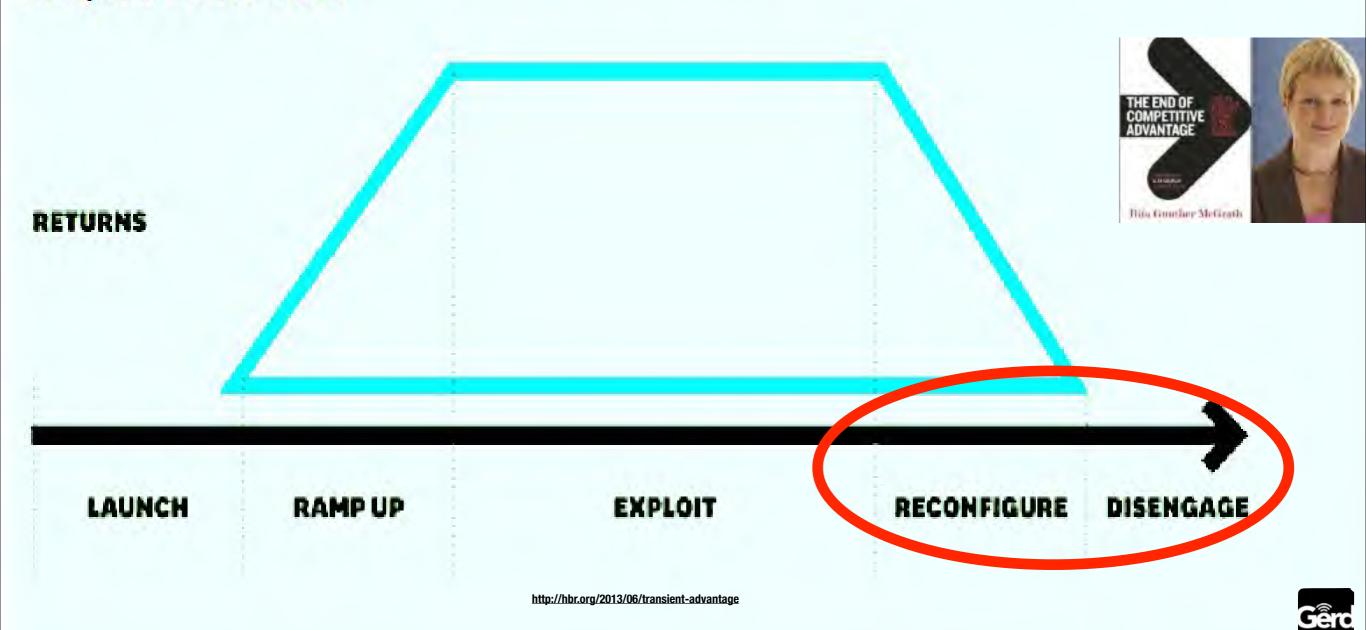




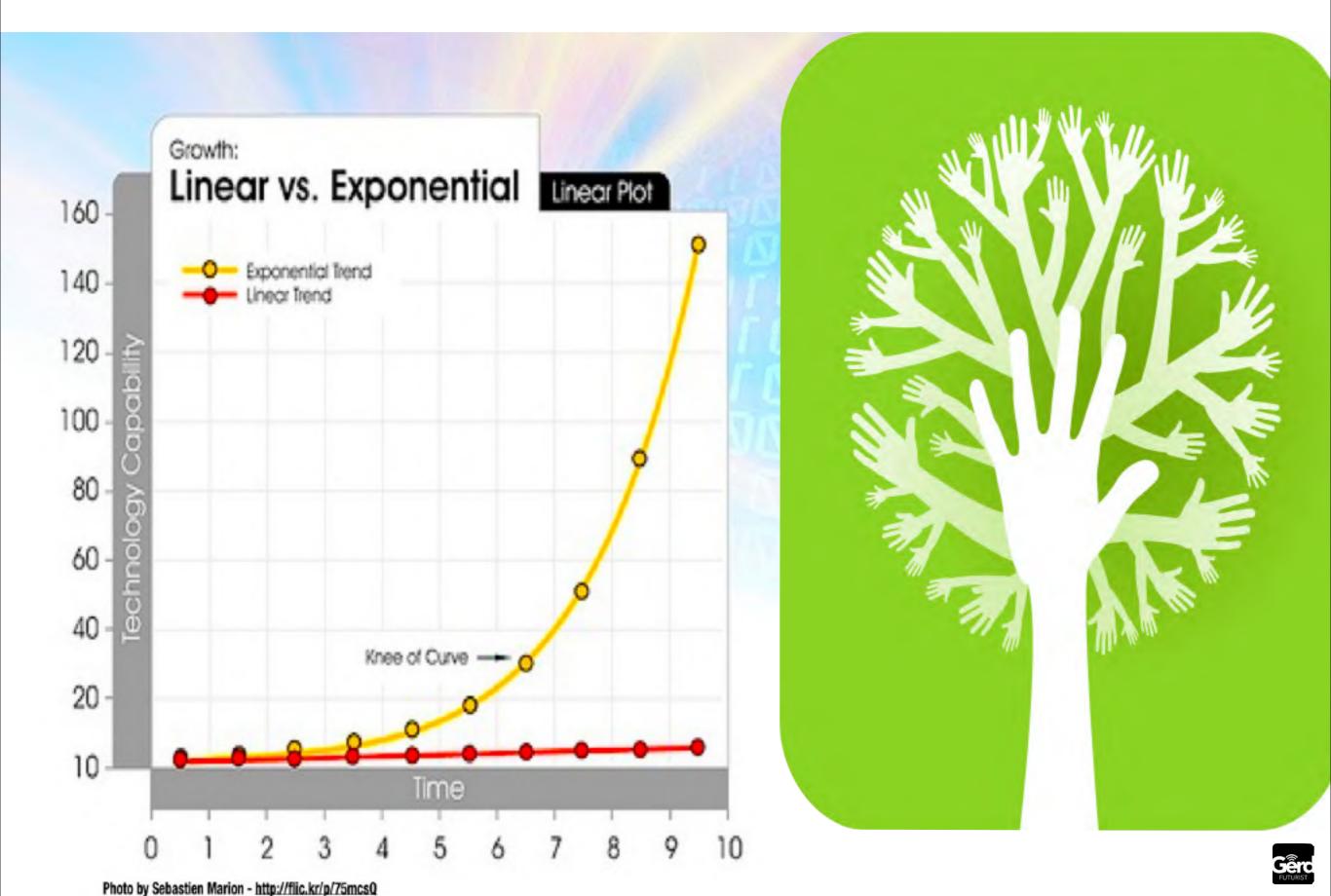


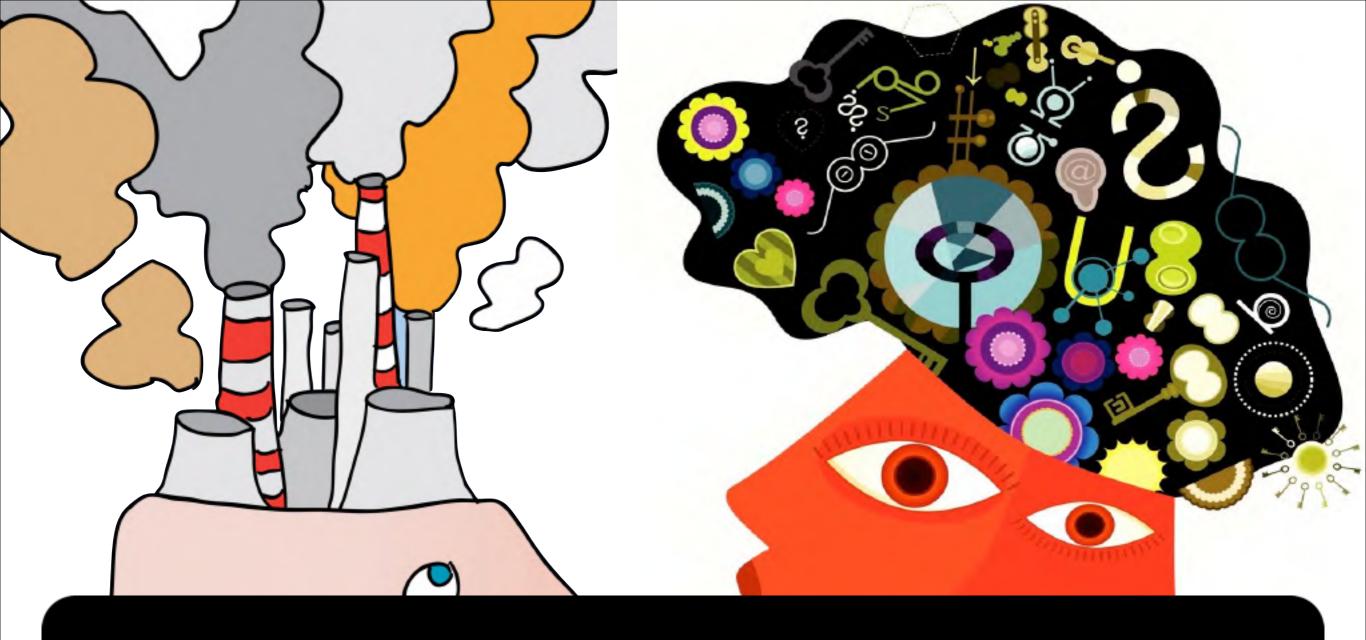
### Telcos, ISPs and Mobile Operators: **Transient Advantages** will replace Sustainable Competitive Advantages

Companies in high-velocity industries must learn to cycle rapidly through the stages of competitive advantage. They also need the capacity to develop and manage a pipeline of initiatives, since many will be short-lived.



#### Our future: From linear to exponential... and lateral





Industrial & Mechanical Digital & Exponential Linear Business Model Lateral Business Model Silos and long-term competitive advantages Arenas and transient advantages (Rita McGrath)

#### Why does it take 'a Google' to do stuff like this?

Project Loon: Google Launches Balloons Around The World To Give Internet

Connectivity To All

Google is now working on an initiative that will provide internet giant has started releasing 30 hi-tech balloons that will provide V designed to travel around the world three times. The balloons staproject named Project Loon.



#### Google rolls out email from SMS service, starting with Africa



This is very cool. Millions of people around the world have GMail accounts. But a sizeable number of those people who own "dumb phones" have only ever been able to access the service on a desktop computer. Until now.

Google has just announced that it's rolling out GMail SMS, a service that lets you send and receive emails as SMSes on your mobile phone. The really cool part though, is that you don't have to be connected to the internet to use the service.



#### The most serious competition comes from outsiders















## Can the Future of the Internet continue to be defined, controlled and engineered by the U.S.?

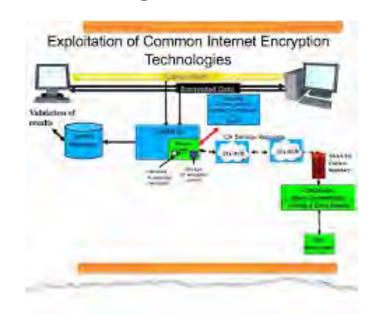
#### **Systematic Abuse & Surveillance Default**



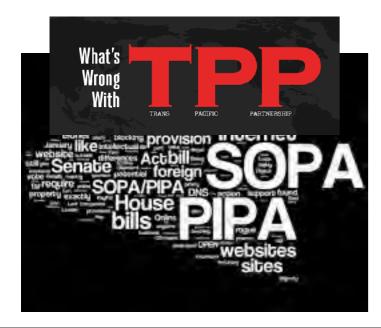
#### **Information Superiority** as the declared objective



#### Trust destruction at a very serious level



#### Flawed policy initiatives



#### **Basic societal rights and principles questioned**



#### All U.S. co's are implicated & already losing business



@gleonhard







NSA spying on Petrobras, if proven, is industrial espionage: Rousseff



By Anthony Boadle

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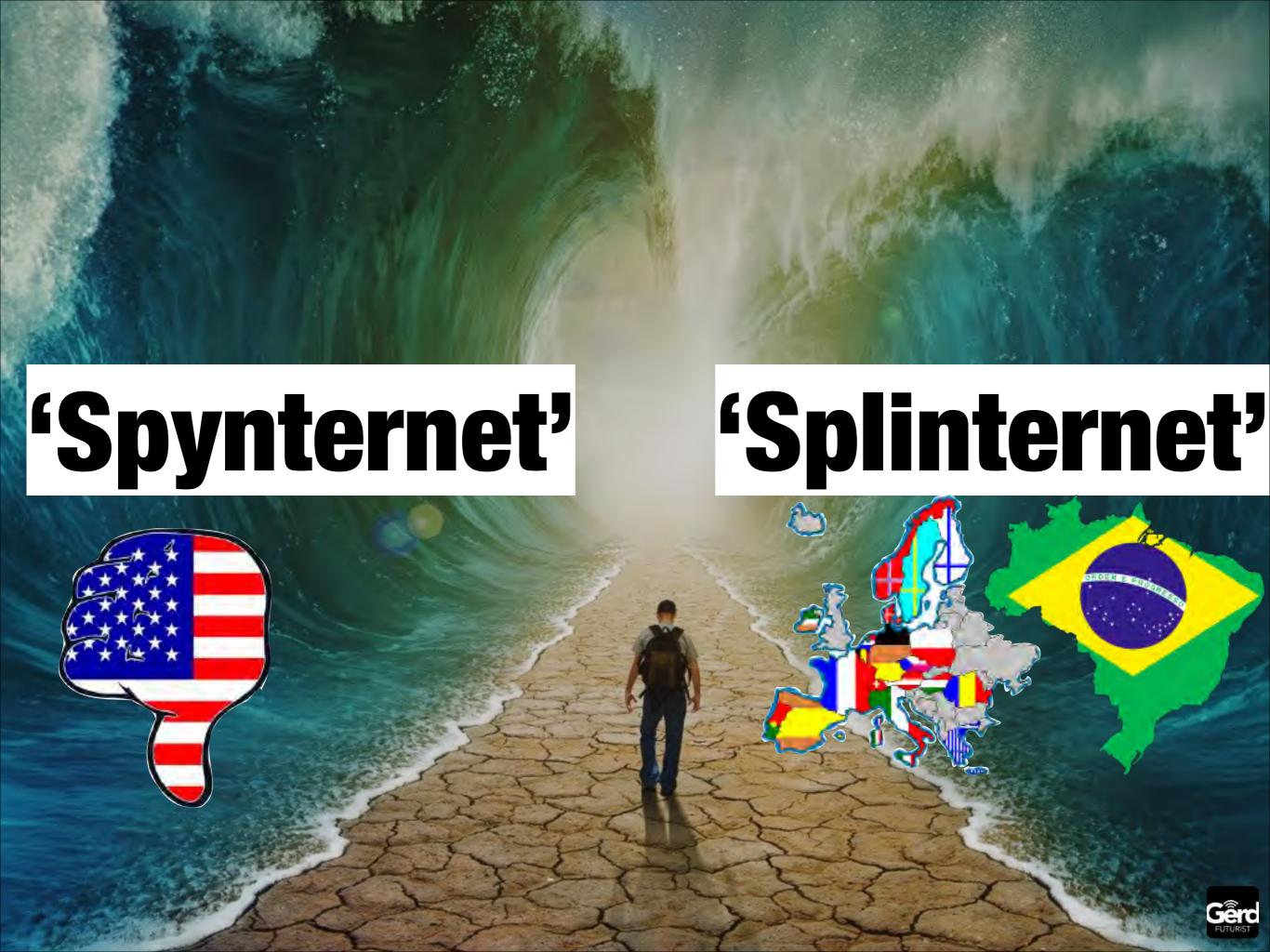
recent years and will be a mandatory partner in developing all of the new deep-sea fields.











- 1. The Internet runs on Data and we will continue to see exponential growth in velocity, variety, volume, virality and value
- 2. Data is indeed becoming the new Oil, and #datawars are here
- 3. Oil equals **Power** (as some of us know all too well)
- 4. Pollution is the result of Abuse, Surveillance and Trust Failures
- 5. Technology at first favours the nimble and decentralised but then the powerful, and massively so: balances must be struck
- 6. The resulting (digital) **Inequality**, the dramatically increasing abuse of personal data and the rise of **Feudal Computing** will not be resolved by market dynamics (see the music industry)

**Special thanks to Bruce Schneier for inspiration** 

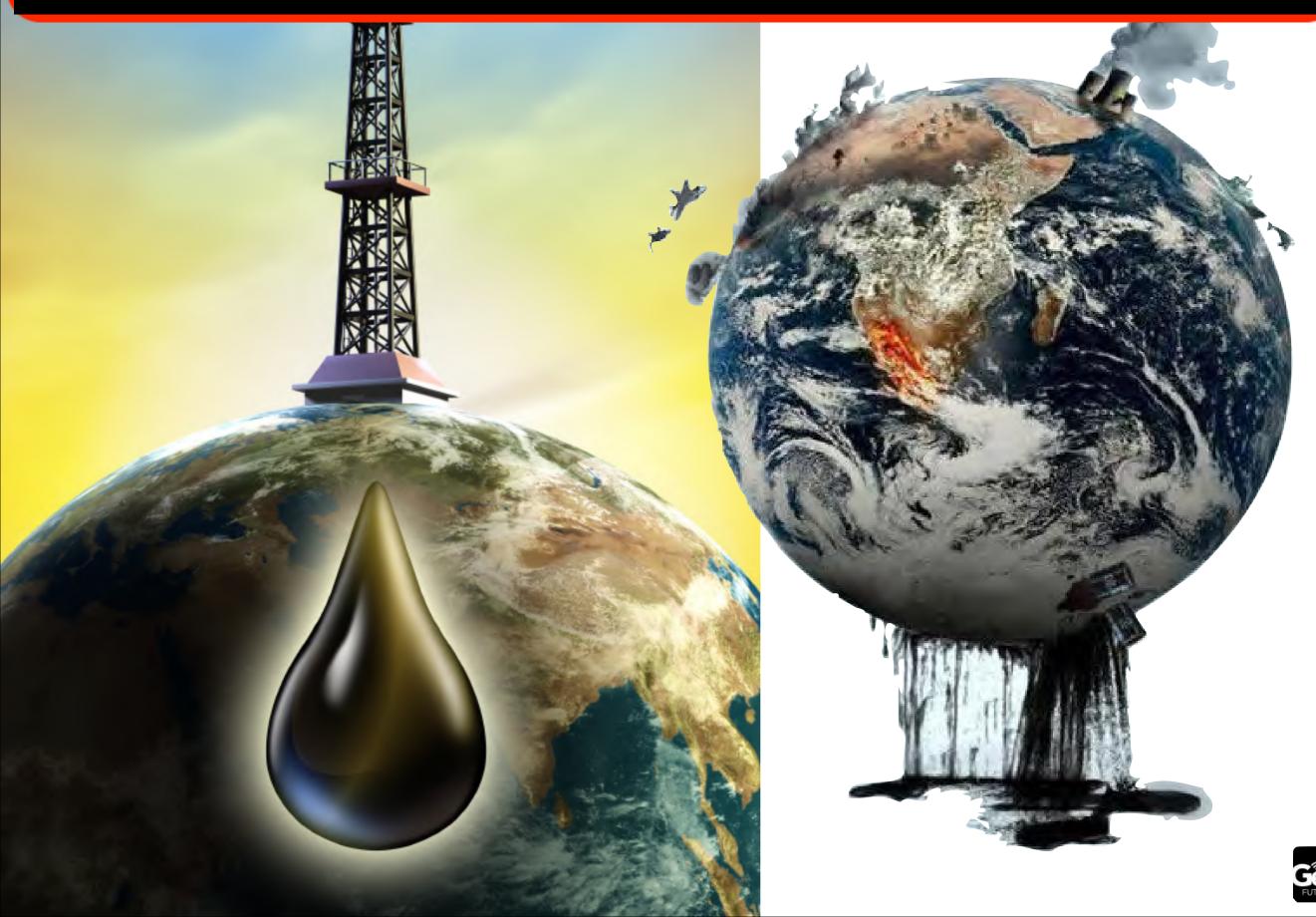








## Who will be the Exxon-Mobil of Data?





# A lot is at stake...



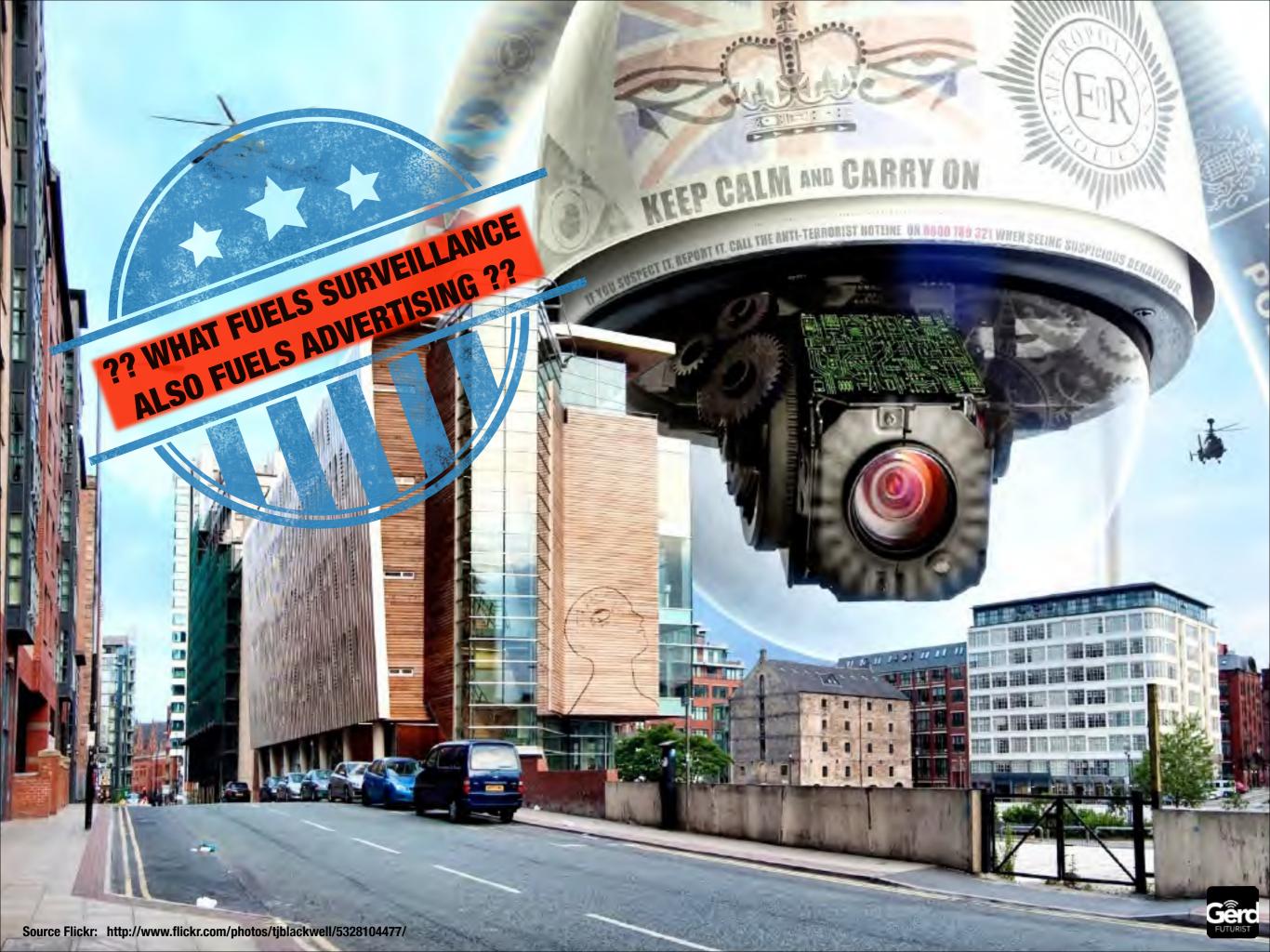
# The lack of personal privacy is also what stops the switch to digital money





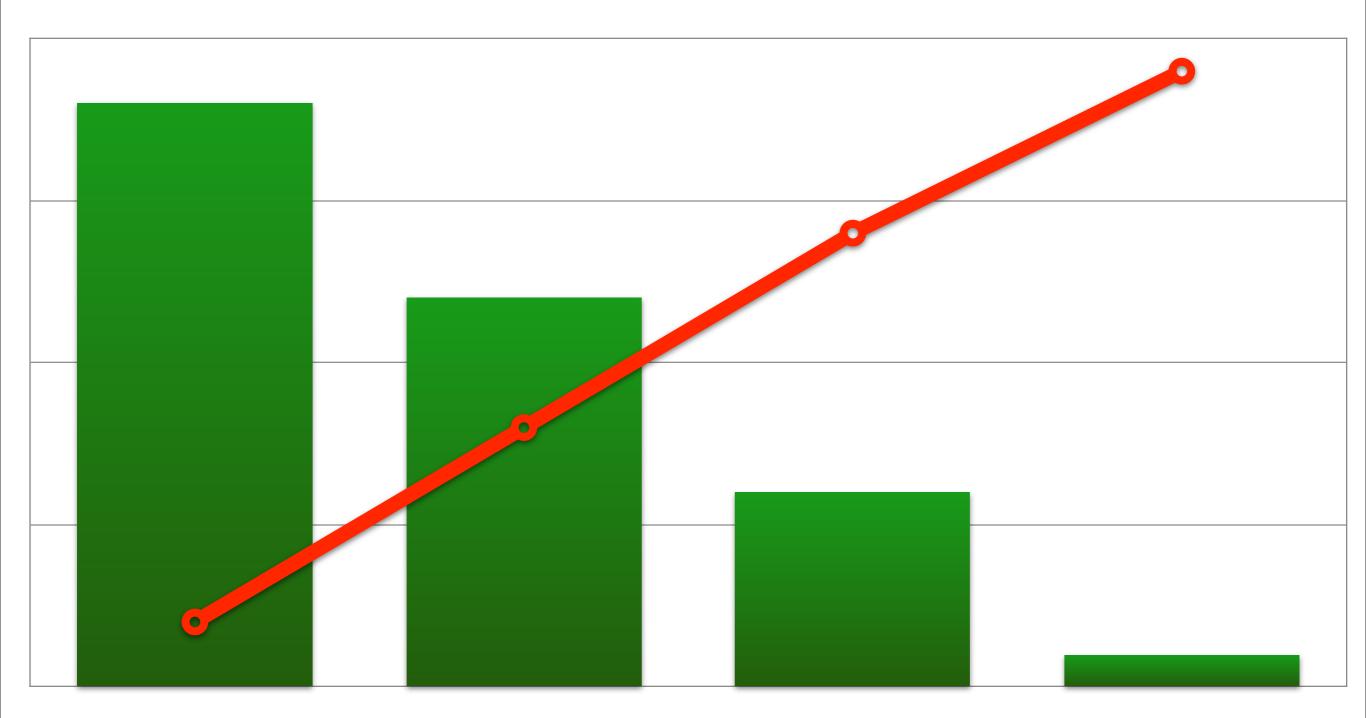
## Can we have privacy and be connected?





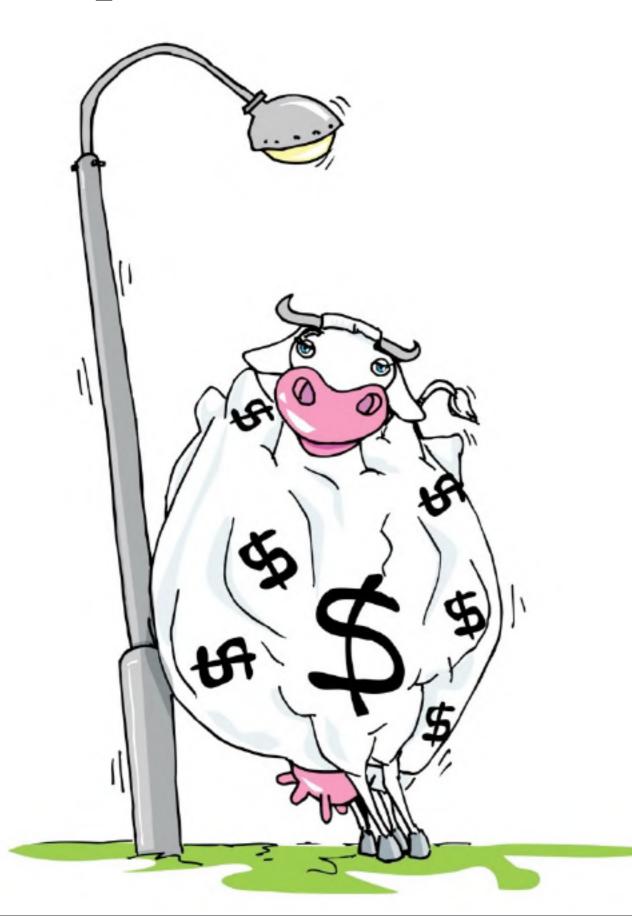
# Is this a Faustian Bargain?

O Power of Technology Personal Liberty & Privacy





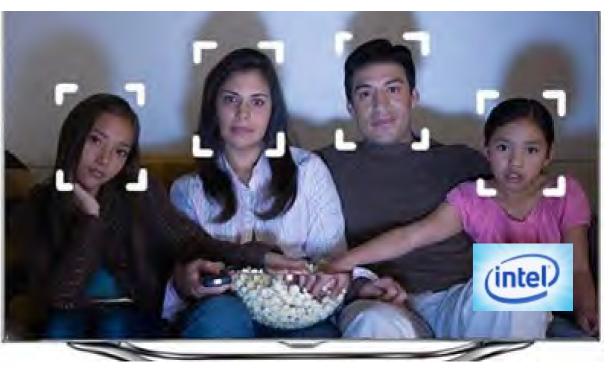
### People are becoming 'instrumented'



The Data Made Me Do It - MIT Technology Review <a href="http://m.technologyreview.com/news/514346/the-data-made-me-do-it/">http://m.technologyreview.com/news/514346/the-data-made-me-do-it/</a>

"People have become instrumented to collect and transmit personal data..." **Andreas Weigend** 





# Should we really try to end anonymity?









A CULTURALLY DIFFERENTIATED YET GLOBALLY STANDARDISED BALANCE OF SECURITY AND PRIVACY WILL BE ABSOLUTELY CRUCIAL

# Yes, we can generate, access, refine, distribute and use personal data...



...but it will need to be subject to new social contracts, ethics, rules, laws

Bill Mayer







We urgently need to co-create a comprehensive, healthy, public, global, transparent, verifiable

# Won'tbe-evil-Ecosystem







Do: Observe. Listen. Connect. Respect. Engage. Prosper.

Don't: Abuse. Re-sell. Surveil. Hyper-market. Gain Superiority.



# 'Digital Sovereignty' will become more important - but Interdependence is our inevitable future

Image via Tiffany Shlain: Connected the Movie

... and let's not try and solve social, cultural and political challenges with technology, once again:)





#### The Future of the Internet: Summary



We are entering an age of unprecedented opportunities: from linear to lateral thinking - not industries but arenas! Yet, 'amazing technology' must be balanced with ethics & standards: unintended consequences will pose big challenges Privacy and trust failure is the biggest hurdle to progress in every segment of ICT: M2M, IoT / IoE, Big Data, Cloud Computing, Al... Interdependence is inevitable, yet sovereignty remains important The Internet needs to governed by an international body representing all interests, sectors and agenda The 'Big Data' boom should not yield another 'big oil' disaster

#### Leaders must go beyond the obvious

If Henry Ford had asked people what they wanted, they would have said "faster horses".







# Thanks for your attention!

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