



MODERATING AGENDA

- BIG GAME changers WITH API ECONOMY
- PLATFORM ECONOMY & HR shaping TRUST
- DATA "gold mine"... WHAT ELSE & WHY?
- IoT HOW DID we GET THERE
- HOW big IS CYBER ATTACK
- TEMPORARY Conclusion :

WHAT IF @DIGITAL TRANSFORMATION!



NEW LEVERAGES OF TRUST Platform, API, Standards & Security

TRUST IS PIVOTAL to the development of the digital economy

Regulating Big data & connected objects is at stake: new scale & new nature of services
 (political debate at country & regional levels vs precaution by principal)

Shared trust with regulation required

- Creating transparency
- Going beyond sensors invisibility & opacity of the processes dealing with data treatment
- Private & Public sectors need to cooperate
- Standards for encryption (NITS in the USA vs SHA3 &AES for 304 US & 112 DE products)
- Data Ethics & Data Protection Officer (obligation by April 2018)

EU passed the directive/law 28 April 2016

- double opt in enhancing user consent
- Personal Data Protection enforced
- 72h to report data breach on PDP
- unified reporting in Europe for corporate
- privacy by design & right of forgiveness
- security by default & right of data portability
- accountability rules & impact assessment



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APIs, an innovative and efficient model allowing companies to manage their core business activities only

US.



TRADITIONAL COMPANY







In a traditional company, all functions are internalized to support the core business In an API-driven company, support functions are externalized via an API, focus is on the core business



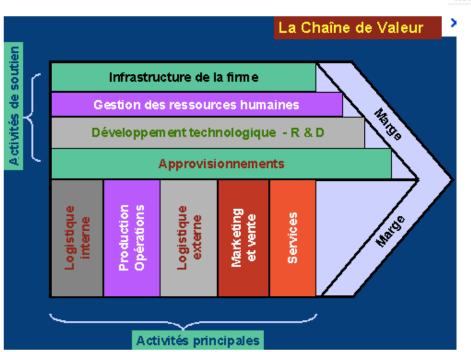
FROM SILLOS...



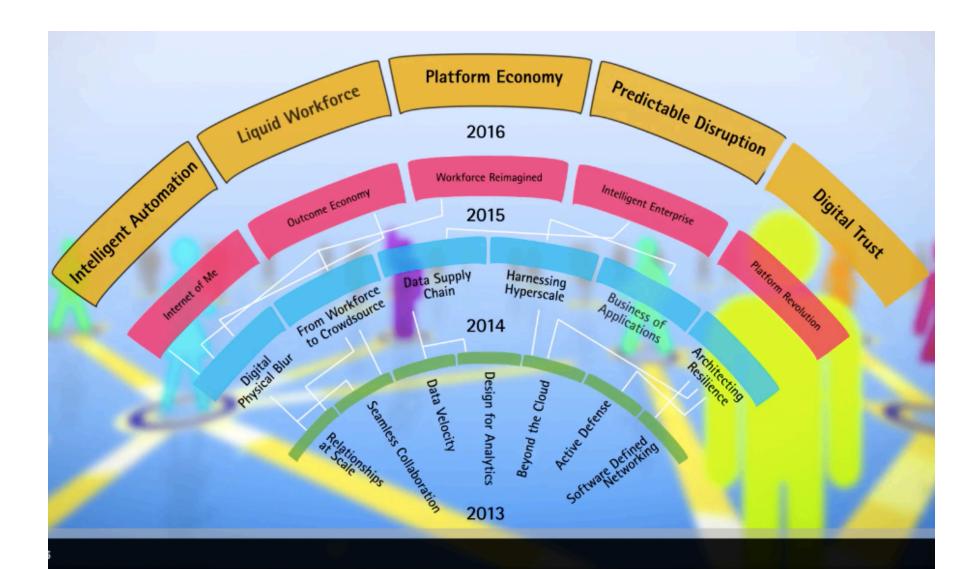
90% of what we do is business through APIs

John Watton, Expedia Affiliate Network, Travolution.co.uk, April 2012

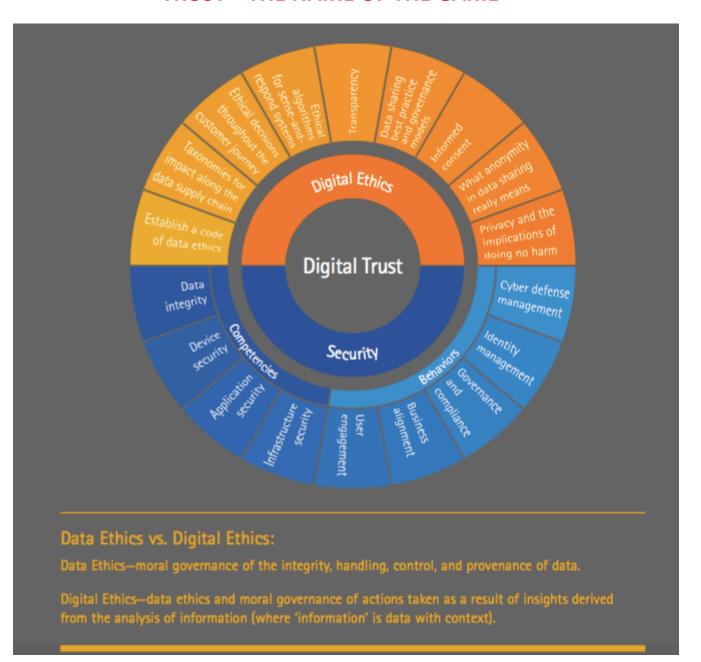
Source: John Musser, Open APIs, What's Hot What's Not



... TO CROSS FERTILIZING ecosystems



TRUST – THE NAME OF THE GAME



The new era of digital globalization

Global flows of trade and finance are flattening, while data flows are soaring



Digital technologies are changing how business is done across borders and broadening participation

Large multinationals

Attain truly global scale with new markets and suppliers

New strategies for products, assets, organization

Startups

>80% of tech-based startups are "born global"

Foreign customers, financing suppliers from day one

SMEs

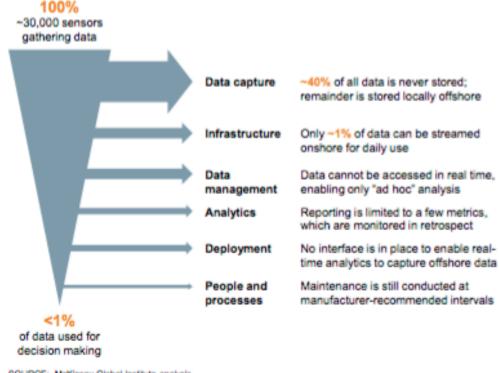
Use digital platforms to find customers and suppliers abroad

50M on Facebook, 10M on Alibaba, 2M on Amazon

Individuals

New ways to work, learn, and communicate across borders

>900M have international connections on social medi99 percent of data collected from 30,000 sensors on an oil rig was lost before reaching operational decision makers

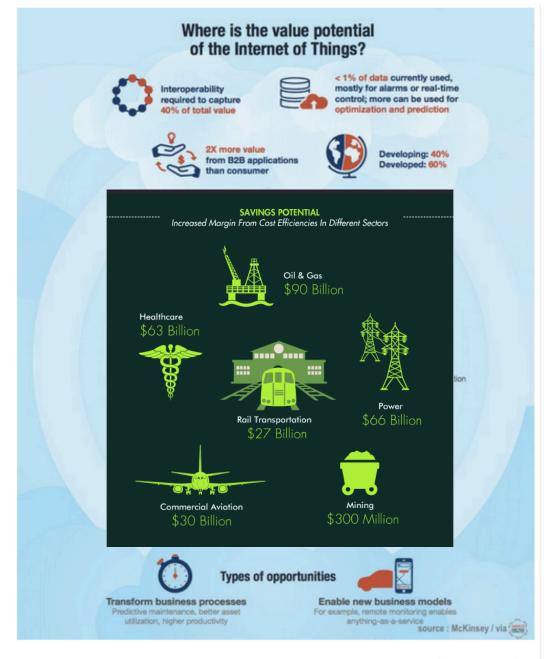


SOURCE: McKinsey Global Institute analysis

The Internet of Things: Mapping the value beyond the hype. В

The Institute of Electrical and Electronics Engineers defines standards as "published documents that establish specifications and procedures designed to ensure the reliability of the materials, products, methods, and/or services people use every day." http://standards.ieee.org.

See Big data: The next frontier for innovation, competition, and productivity, McKinsey Global Institute, May 2011, and Open data: Unlocking innovation and performance with liquid information, McKinsey Global Institute, October 2013.



IoT 10 Trns \$ STAKE

DATA 40 Trn octets

But 1% exploited!

WHEREAS 27 Bn\$ potential savings identified for rail

BUT also new revenues Cf ETCS +20% trains/H

D'ici à 2025, McKinsey estime le marché annuel entre 3.9 et 11.1 trilliards de dollar. Sur les 44 000 Go de données collectées par ces objets connectés, moins de 1% sont exploitées.

IoT How did we get there?

#1 – The connectivity costs have dropped





COST OF BANDWIDTH

140x
over the past 10 years.

COST OF PROCESSING

160x

over the past 10 years.



As the IoT will by definition generate amounts of unstructured data, the available data analytics is a key enabler.



SCALABILITY OF IPv6

IPv6 = 3.4 x 10³⁸ IP addresse

Internet Protocol (IP) addresses are the identification and location system for every computer on a network. IPv4, the fourth version of this protocol, allows for 4.3 billion addresses. IPv6, the newest version, allows for an almost limitless amount.

WHAT IS DRIVING

The IoT value proposition – a driver of new product cycles and another leg of cost efficiencies

REVENUE GENERATION

Companies are focused on the IoT as a driver of incremental revenue streams based on new products and services.

PRODUCTIVITY AND COST SAVINGS

Businesses are also embracing the IoT to improve productivity

Consumer demand is also driving IoT adoption as they embrace new technology to improve health, energy savings and safety.