

Insurance in an Exponential World

Bill Hartnett Head of Innovation ACORD

"Insurance is the DNA of capitalism. Buildings and homes don't get built, lives can't be repaired, products aren't made, food doesn't get produced, and services can't be delivered without it. Insurance is vital to the modern global economy, and navigating these megatrends will increasingly define our success in helping to propel it."

Joe Plumeri, Willis Group Chairman & CEO, 2/27/2008 A.M. Best Company's 15th Annual Review and Preview Conference



Risk 101

Three ways to manage risk ✓Eliminate it ✓Transfer it ✓Insure it



Insurance 101

Law of Large Numbers

✓ Spread of Risk



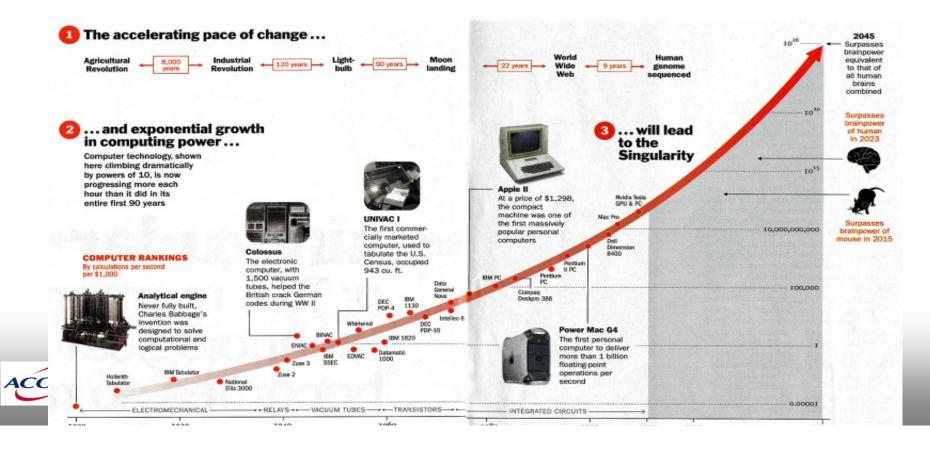
The Future Circa 1954



"It is not too much to expect that our children will enjoy electrical energy in their homes too cheap to meter" – Lewis Strauss, Chairman AEC



Exponential growth







THE GLOBAL INTERNET POPULATION GREW 18.5% FROM 2013-2015 AND NOW REPRESENTS

SENTS 3.2 BILLION PEOPLE.

March 11, 2013 8:15 pm

Facebook reveals secrets you haven't shared

By Bede McCarthy and Robert Cookson



The increasing amount of personal information that can be gleaned by computer programs that track how people use <u>Facebook</u> has been revealed by an extensive academic study.

Such programs can discern undisclosed private information such as Facebook users'

sexuality, drug-use habits and even whether their parents separated when they were young, according to the study by the University of Cambridge academics.



Unreported Side Effects of Drugs Are Found Using Internet Search Data, Study Finds

By JOHN MARKOFF Published: March 6, 2013 | 早 184 Comments

Using data drawn from queries entered into Google, Microsoft and Yahoo search engines, scientists at Microsoft, Stanford and Columbia University have for the first time been able to detect evidence of unreported prescription drug side effects before they were found by the <u>Food and Drug Administration</u>'s warning system.

Multimedia





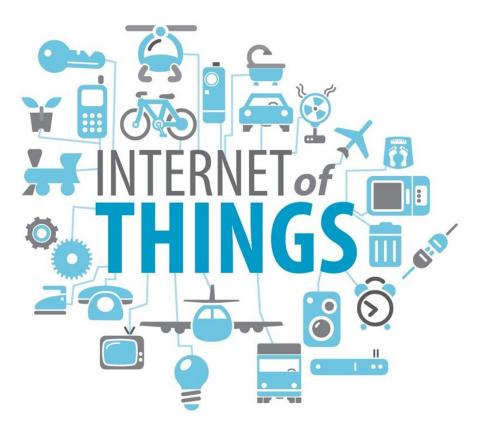
Software and Side Effects

Using automated software tools to examine queries by six million Internet users taken from Web search logs in 2010, the researchers looked for searches relating to an antidepressant, paroxetine, and a cholesterol lowering drug, pravastatin. They were able to find evidence that the combination of the two drugs caused high blood sugar.

FACEBOOK TWITTER GOOGLE+ SAVE E-MAIL E-MAIL SHARE PRINT REPRINTS

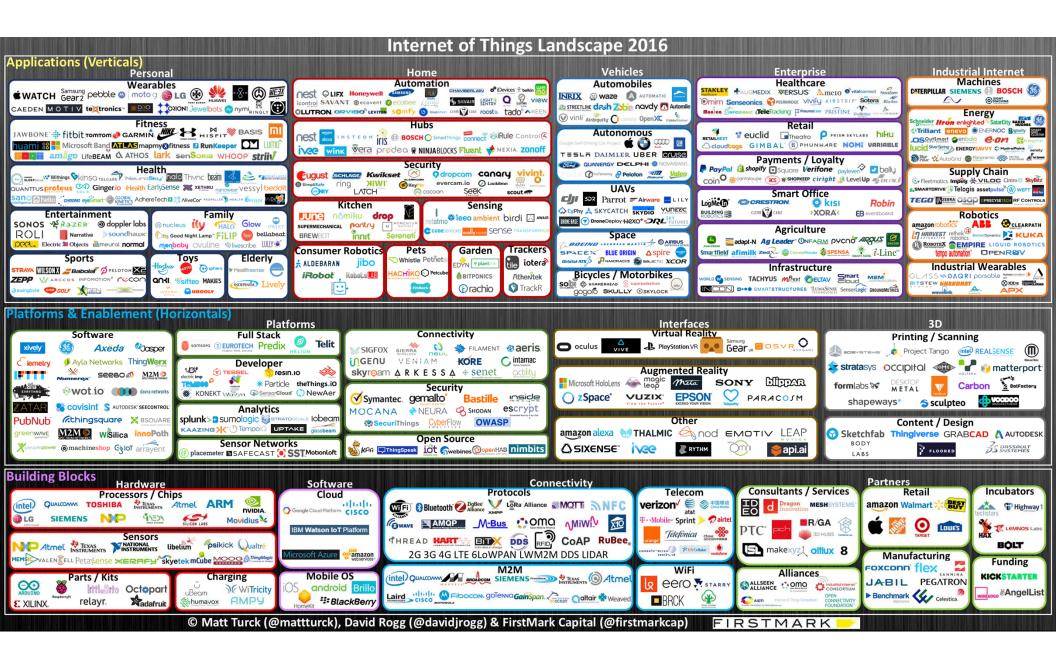
The New York Times







Internet of Things



Innovation?OR ALREADY OBSOLETE?









Cars

Autonomous Semis





https://youtu.be/RjRaVExmwVk



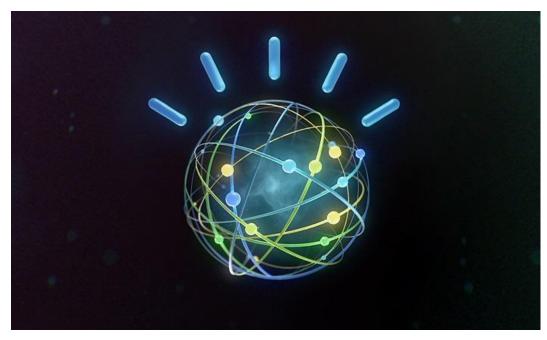
OVER 4000 LIVES LOST ON THE JOB IN THE U.S. ANNUALLY

\$250+ BILLION SAFETY COST FOR U.S. BUSINESSES PER YEAR











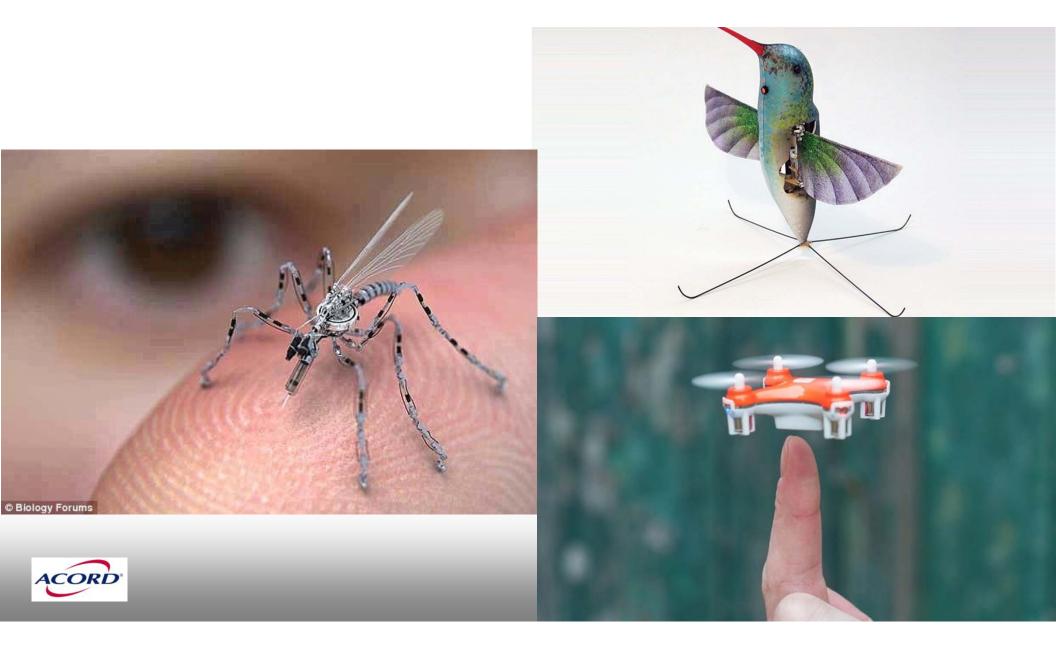
Cognitive Computing









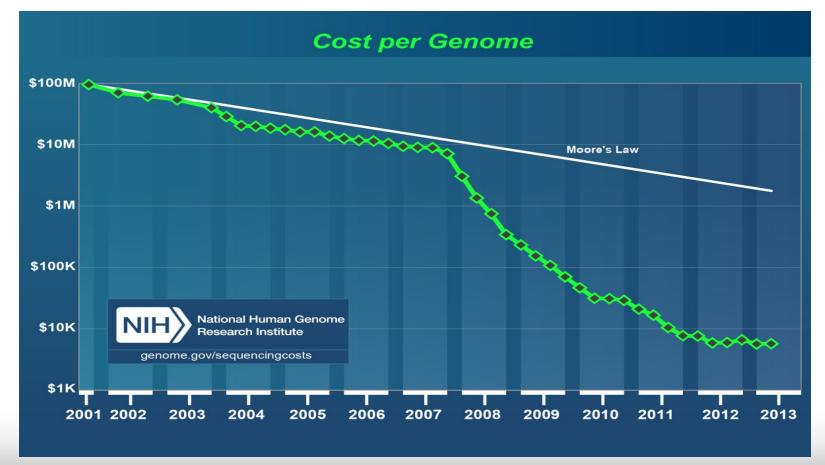








Genome Sequencina











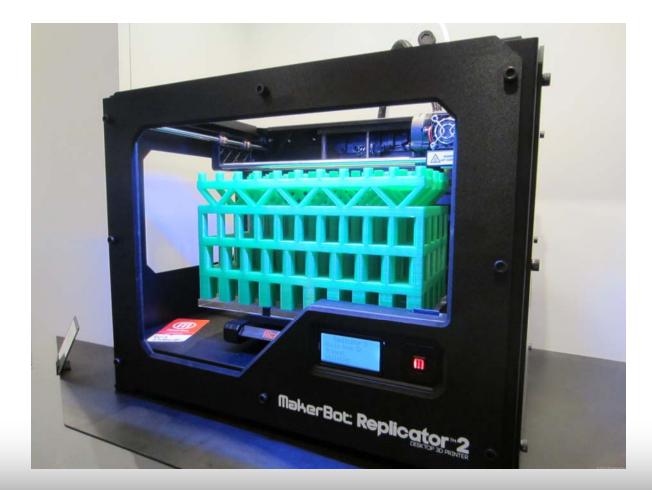


DISRUPTION





3D Printing





3D Printed homes

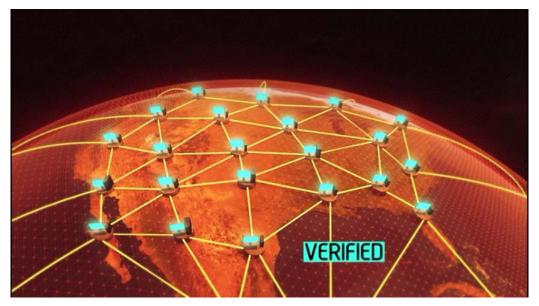








DISRUPTION

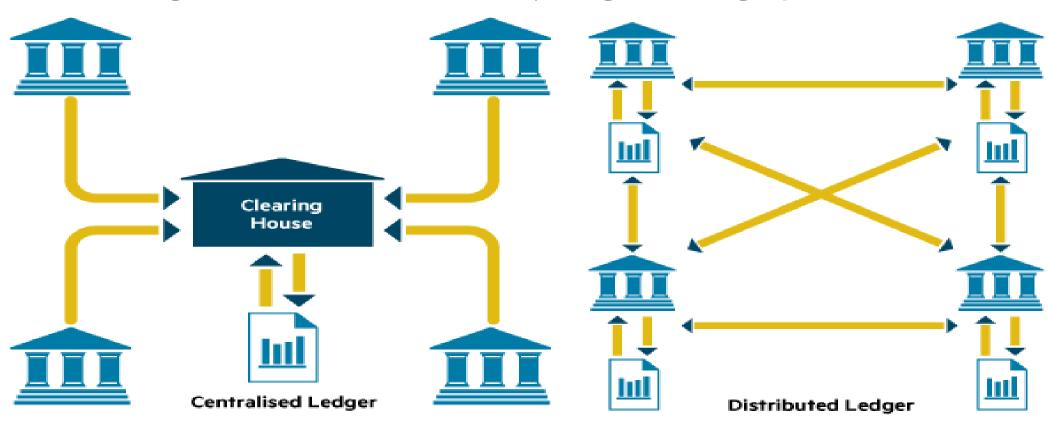




Blockchain aka Mutual Distributed

Embedding distributed ledger technology

A distributed ledger is a network that records ownership through a shared registry



In contrast to today's networks, distributed ledgers eliminate the need for central authorities to certify ownership and clear transactions. They can be open, verifying anonymous actors in the network, or they can be closed and require actors in the network to be already identified. The best known existing use for the distributed ledger is the cryptocurrency Bitcoin

FT graphic. Source: Santander InnoVentures, Oliver Wyman & Anthemis Partners

"Ledgers are the infrastructure of finance. Mutual distributed ledgers are pervasive and permanent. They will transform all financial trust architectures - exchanges, insurers, banks, and information providers." Professor Michael Mainelli, Executive Chairman of Z/Yen (2015)







Decentralization is what allows Bitcoin to substitute an army of computers for an army of accountants, investigators, and lawyers.



