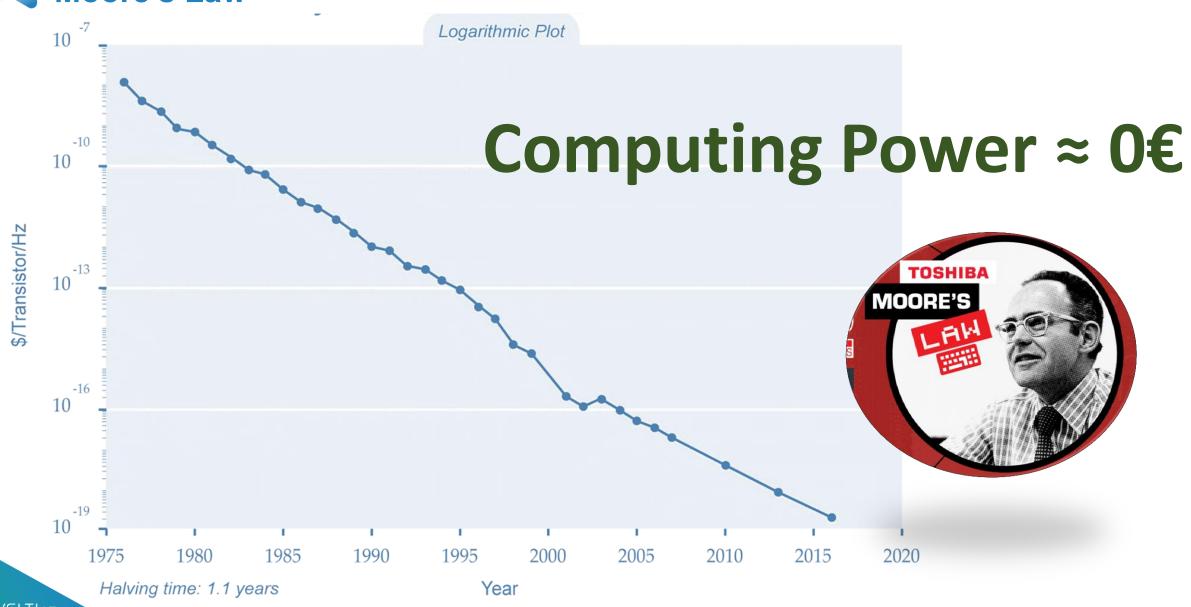




Internet of Things: the 3rd industrial revolution

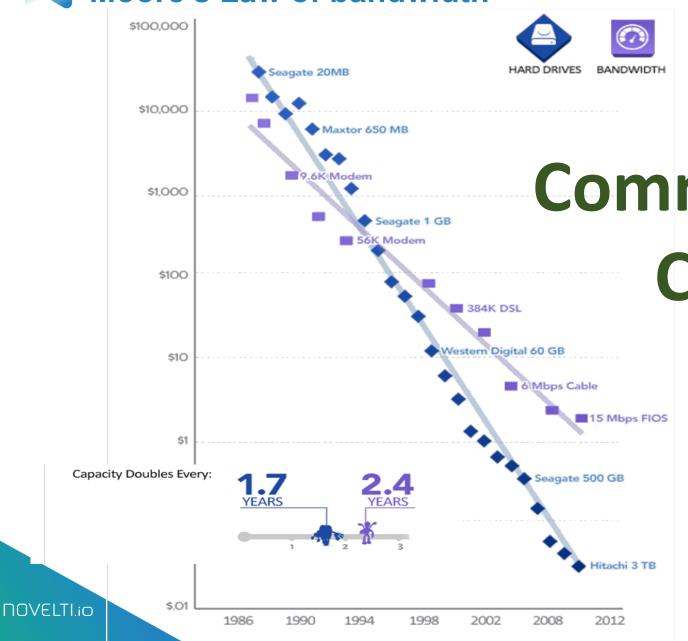
Why big data & analytics is now so important?

Moore's Law



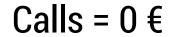


Moore's Law of bandwidth







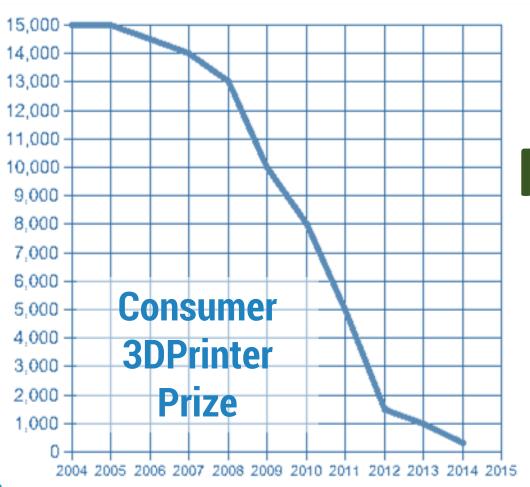




Music = 0 €



Moore's Law of physical objects



3d + (SW + IP) ≈ 0€

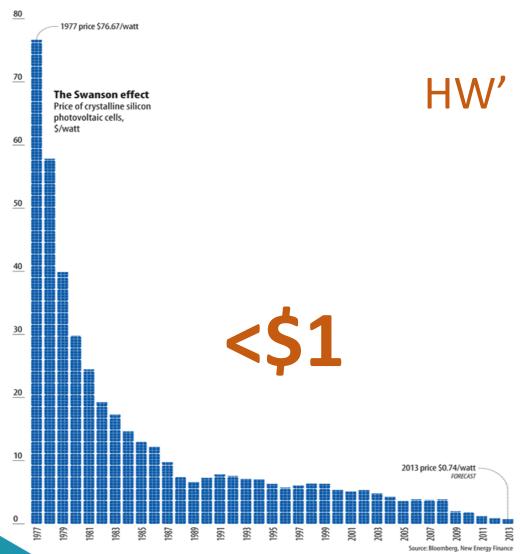
oduction means ≈ (

Content

Production means ≈ 0€ HW' ≈ 0€



Moore's Law of energy



HW' + SW + Energy + Bandwidth ≈ 0€

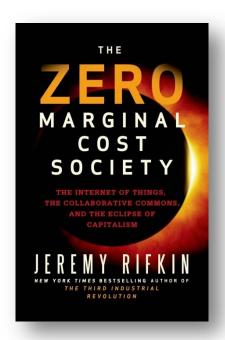
IoT ≈ 0€

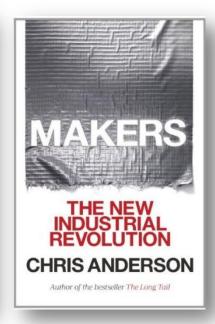




Internet of Things: the 3rd industrial revolution

HW' + SW + Energy + Bandwidth ≈ 0€





Why **Software Is Eating The World**. By. Marc Andreessen.

Wall Street Journal, August 20, 2011





Data is a core part of the product.

Products networks are service platforms.



The role of data



Senses the environment



Learns the environment

The connected body: AliveCor





Direction matters!

When attaching the Mobile ECG to your smartphone or tablet (or device case), check to make sure that the word 'AliveCor' in the center of the Mobile ECG is upright. The electrode (silver plate) above the work 'AliveCor' will be placed near the top of your device and the electrode below the word 'AliveCor' will be placed near the bottom of your device.





U.S. Only: A U.S. board-certified cardiologist will automatically review your first recording for free and will provide a medical interpretation of your ECG

still for 30 seconds. While recording, try to relax your

arms and hold still.



AliveCor: is a sensor enabled health monitoring service that allow users take ECG heart signal with a smartphone case and share it with professionals cardiologists on line. The system alerts users for AF risks, and traks ECG evolution based on personal context, activity and medication.

http://www.alivecor.com/



The connected Car: Ferrovial @ Dallas

ferrovial





The non-scalable analytics value chain



Manual analytics efforts.



Models are always outdated



High CAPEX and time-to-value.



The market for Systems of intelligence



Skill shortage

Limit competitiveness and innovation



Systems of Intelligence Autonomous solutions

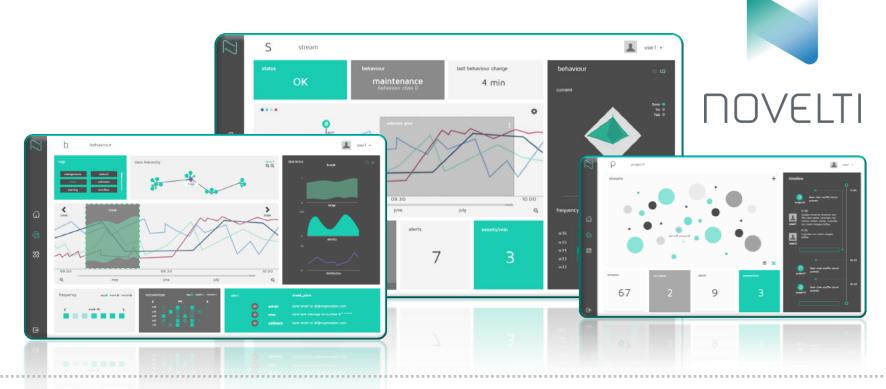


IoT Analytics
Up to 17 \$Bn in 2017
(30% CAGR)

- Simple Devices
- Limited computing power
- Limited connectivity
- May have power limitations
- Expect failures







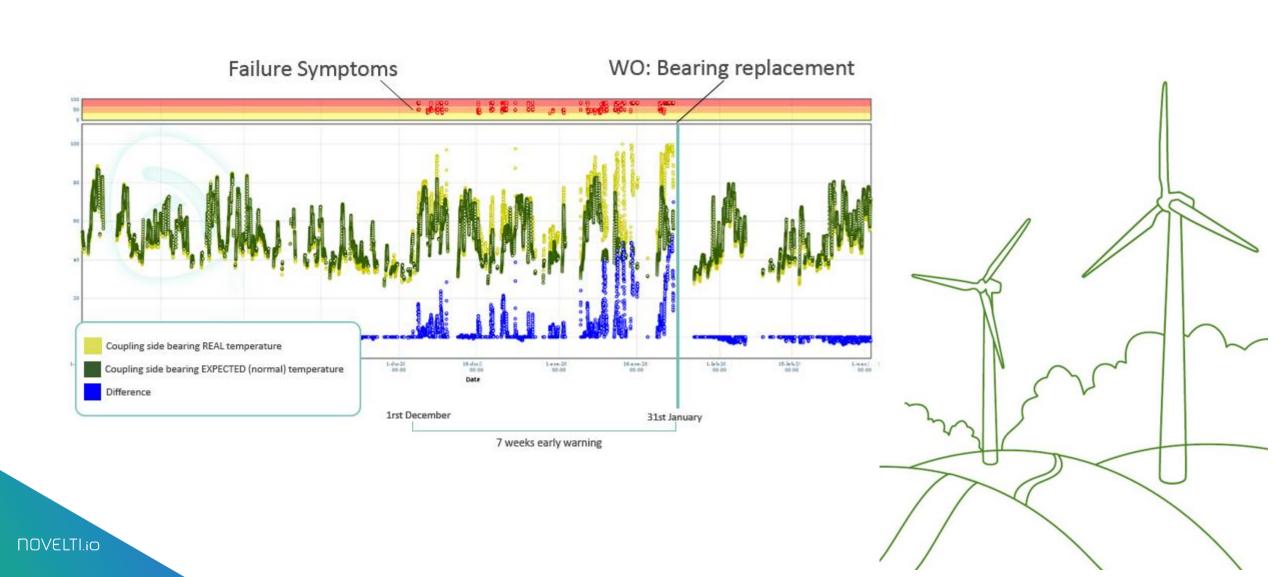
PLUG, LEARN, PREDICT

Autonomous - Multivariable Analysis - Anomaly detection - Pattern discovery - Real time profiling - SaaS



USE CASES: PROFILING THOUSANDS OF WIND TURBINES BEHAVIOR

To feed a predictive maintenance service.







Can a business have a mind?

