# DIGITAL CRAFTSMANSHIP

17 maart 2016 ••• De Kuip in Rotterdam

### Industrial Ethernet

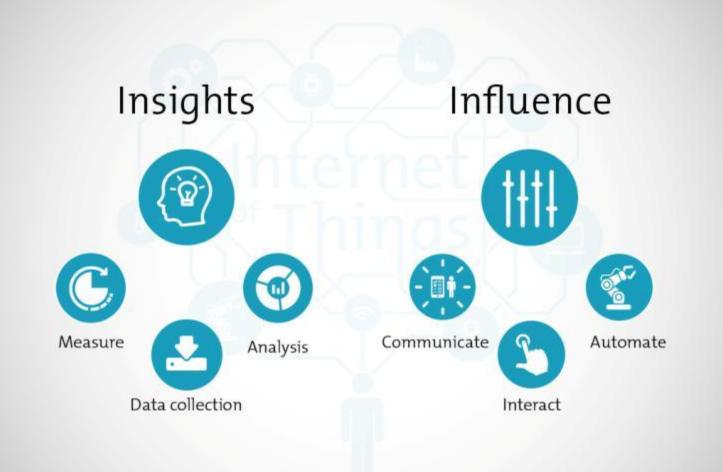
# De revolutie van het industrial internet of things

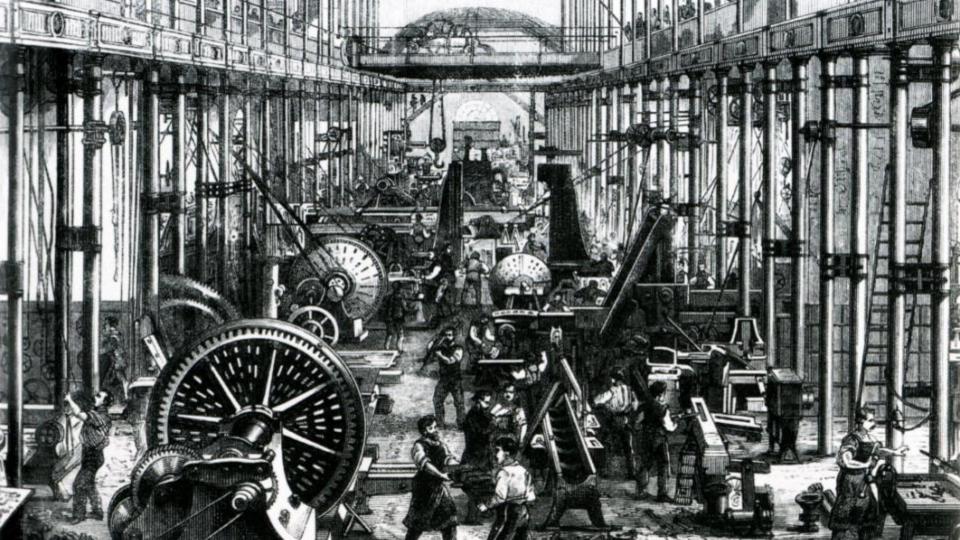
Industrial Ethernet

Michiel Verheij

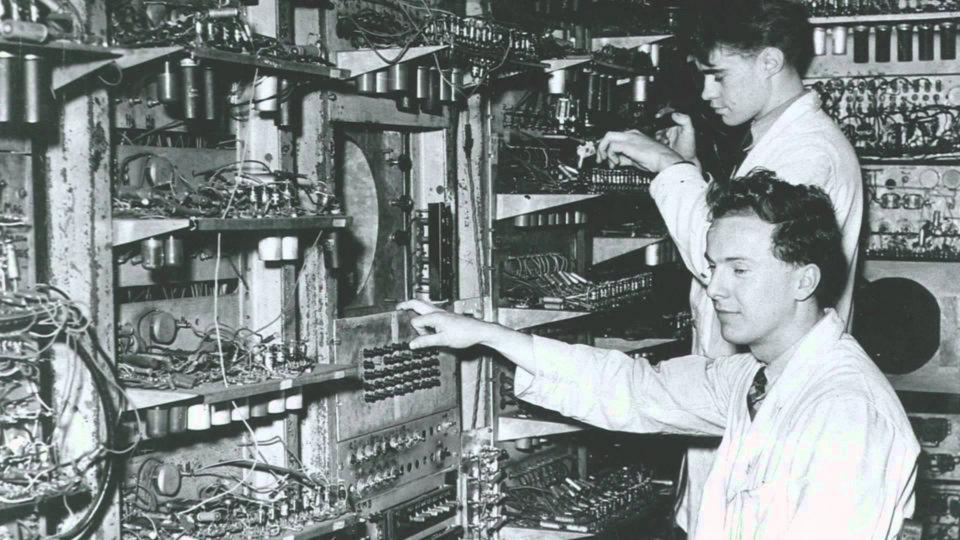
March 17, 2016 De Kuip, Rotterdam



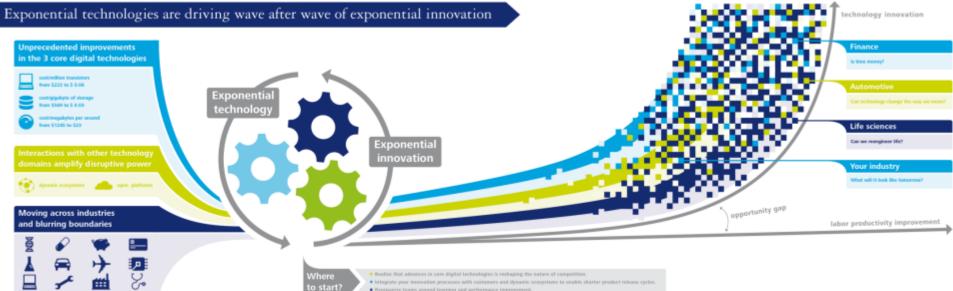








# **SOFTWARE IS EATING THE WORLD**



· Reorganize teams around learning and performance improvement.

**'A Revolution doesn't happen** when society adopts new tools

It happens when society adopts new behaviour'

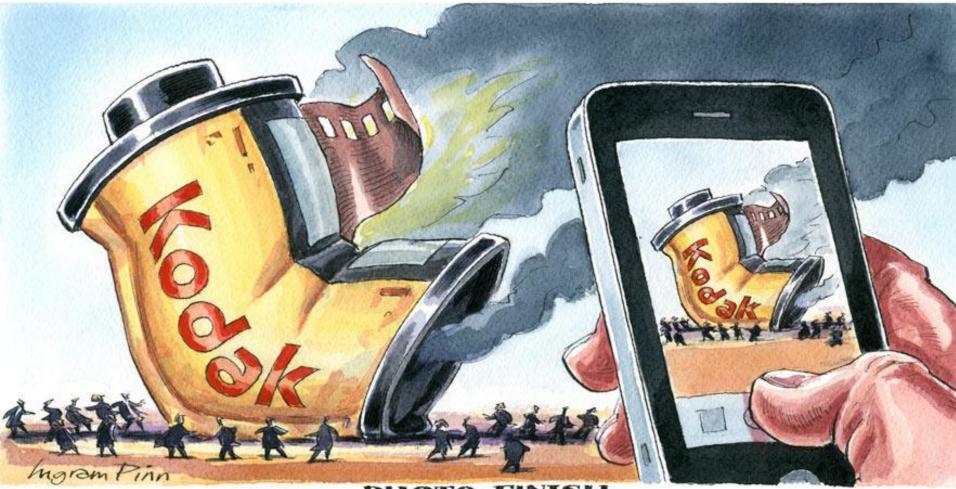
**Clay Shirky** 







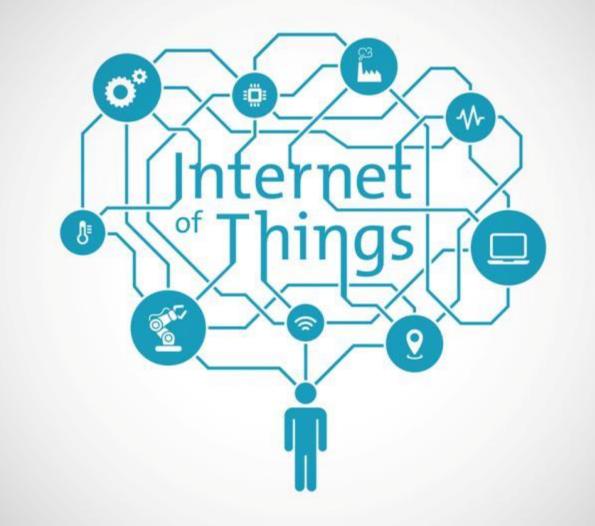




#### **PHOTO FINISH**



the world's largest accommodation provider owns no real estate.



## **Internet of Things**

- The Internet of Things (IoT) is a computing concept that describes a future where everyday physical objects will be connected to the Internet and be able to identify themselves to other devices.
- The IoT is significant because an object that can represent itself digitally becomes something

greater than the object by itself. No longer does the object relate just to you, but is now connected to surrounding objects and database data. When many objects act in unison, they are known as having "ambient intelligence."









## du Futur

smart industry





### Internet of Things: next phase of the .net

Rob Chandhok (Qualcomm):

We're going to a world were we connect trillions of sensors. They connect to each other and bring intelligence to us as human beings through the .net.

Industry has to decide if standards are coming. To

your time2market.

### Industrial Internet of Things: 80% of total IoT

113

2. Anticipate the Shift from Product to Service



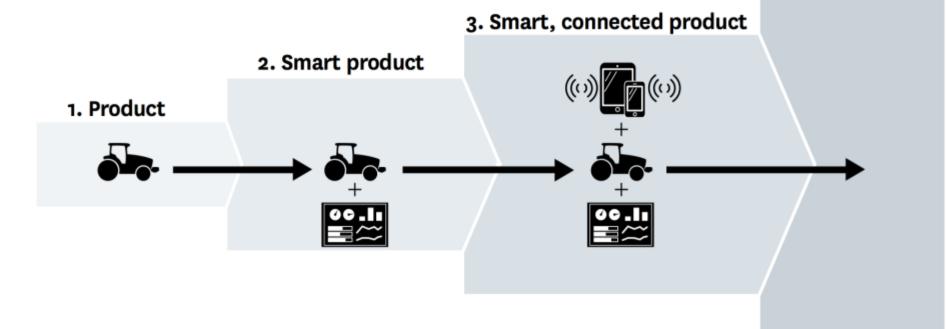
Paul Daugherty (Accenture):

#IIoT: Connected Equipment, Connected Vehicles, Life Safety, Connected Energy, Connected Health
Mastering #IIoT: Operational Technology higher spend than Information Technology, IIoT will bring them together.- Pace & Speed is most important to create and deliver succes

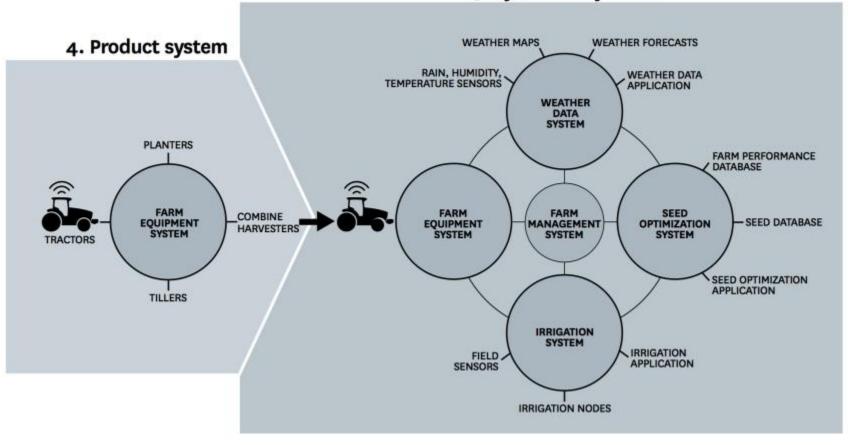
Industrial Internet of Things: Keys to Success

1. Balanced Strategy: Focus on Growth & Operational Efficiency

Rethink your Parmer Ecosyster



#### 5. System of systems





Accenture estimates the Industrial Internet of Things could add \$14.2 trillion to the global economy by 2030





#### Sensors

- \* Low energy
- \* Minitiurization
- \* Reduced costs
- \* GPS

Wireless Connectivity

- \* High bandwith
- \* Open standards
- \* Reduced costs
- \* Smartphone as interface and datahub



#### Dataprocessing and analysis

- \* Increasing computing power, memory and datastorage
- \* Cloud service access
- \* Reduced costs







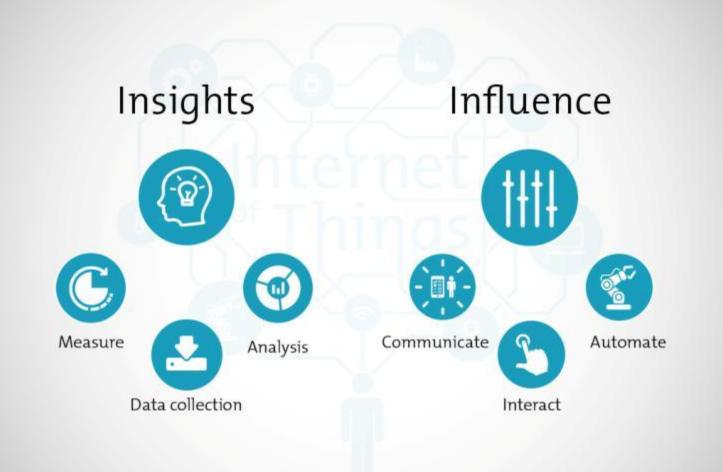


Things that communicate their own data Things that also communicate data of their surroundings





Things that (autonomously) react on their surroundings and communicate with other objects (and humans)



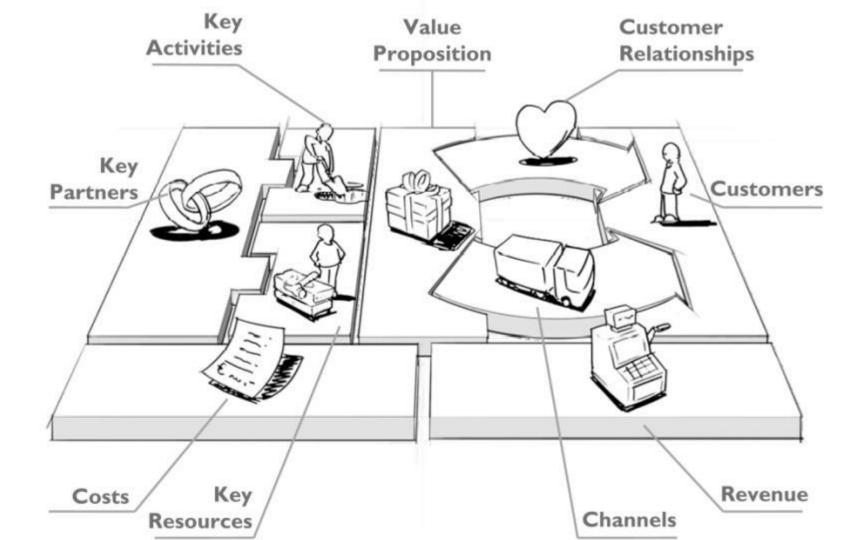


### Insights

Cost reduction Process optimization Company processes (Remote) service Productionprocesses Logistical processes Supplychain optimization Asset management Smart metering Legal proof

#### Influence

Strengthen customer relationship (upselling / lock-in) Increase of turnover / new business Updates & customization Discover customer and end user behavior Input for innovation New value & experience New business models through cooperation Combined businessmodels Data as extra income source Competitors become customers





# Dontflush.me

### Mercedes-Benz TomTom







#### **Remotely monitor** Victron equipment all over the world.

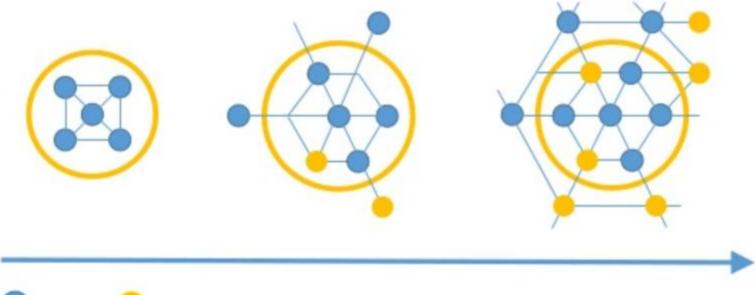
Logout

Energy to remotely monitor



Victron Remote Management

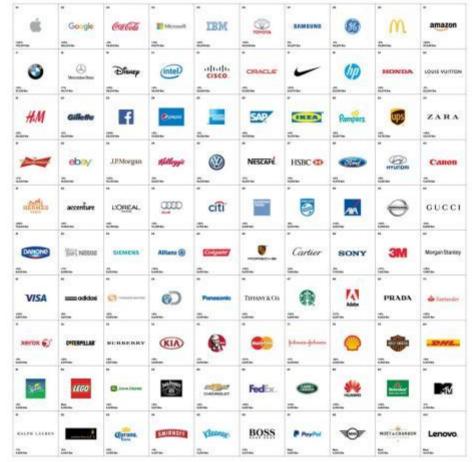
# The Extended Enterprise



🔵 Internal 😑 External

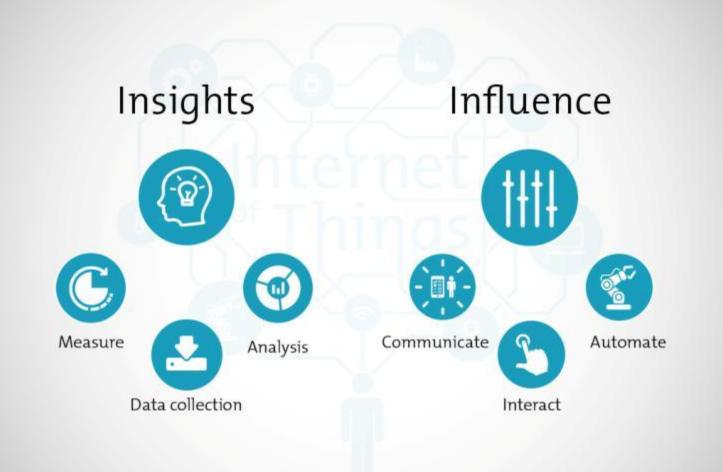
### WE CUSTOMER INVOLVEMENT





Interbrand

#### #BGB2015





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