# of needs of (Innovation on Testing)?

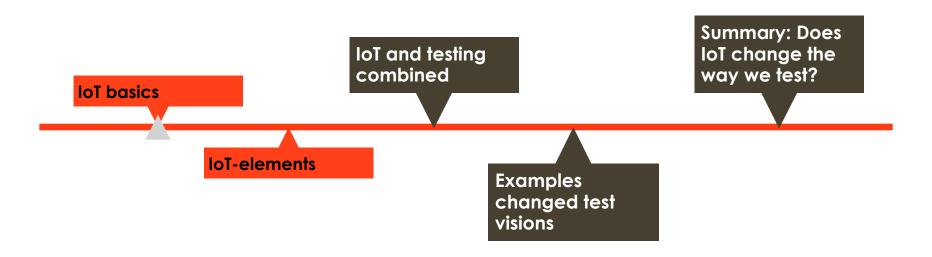


# loT changes testing

Tom van de Ven Senior High Tech Testconsultant

**Dutch Testing Day 2015** 





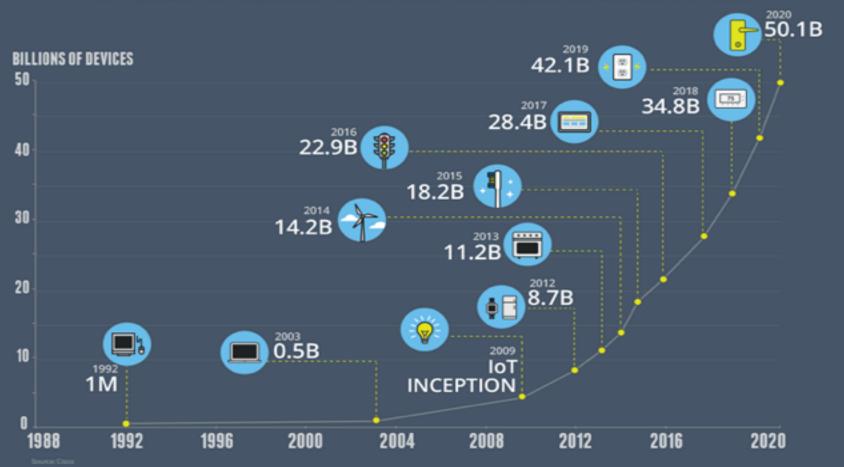






#### GROWTH IN THE INTERNET OF THINGS

THE NUMBER OF CONNECTED DEVICES WILL EXCEED 50 BILLION BY 2020





# Testing loT is testing an experience





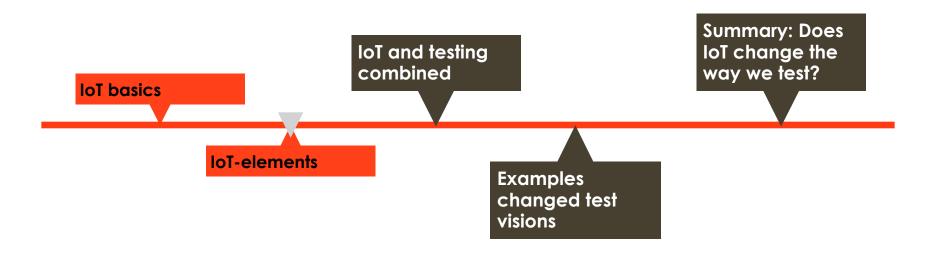




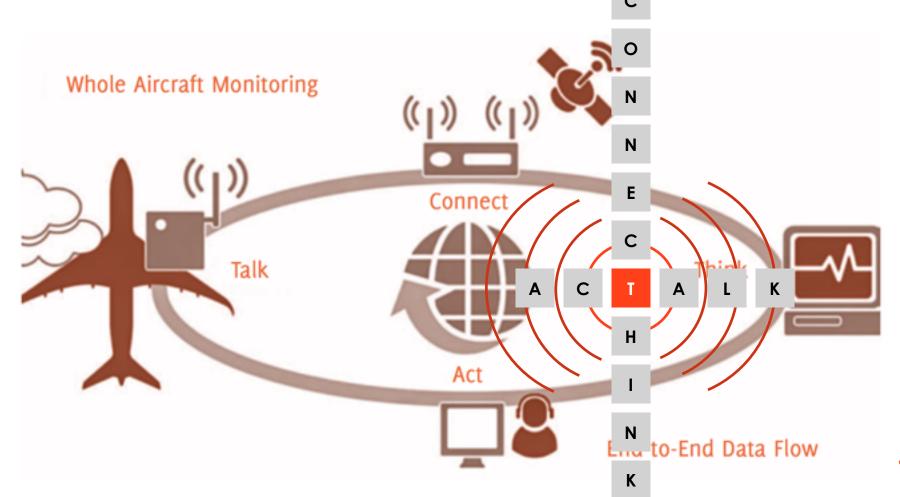






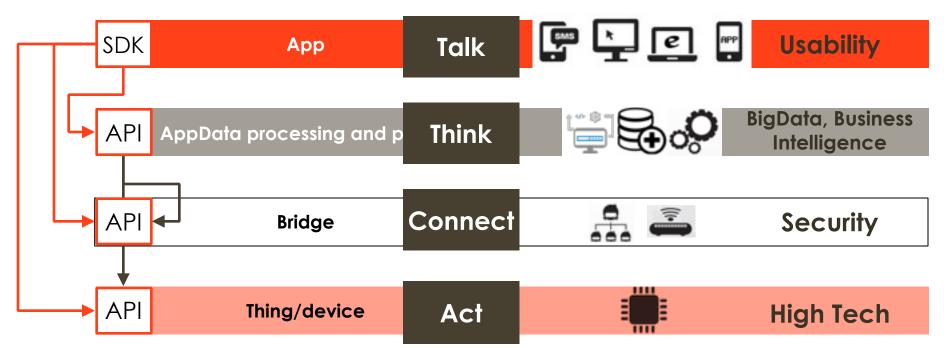


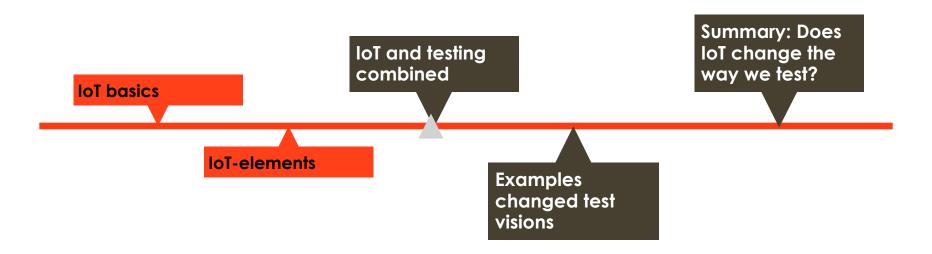




## loT-layer-model

#### Test examples





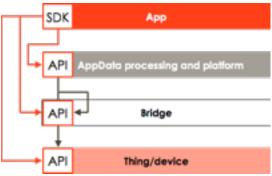


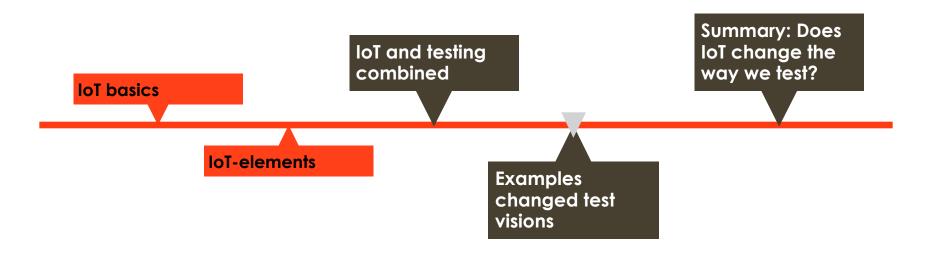
### loT and testing combined

#### **IoT test insights:**

- Test expertise needed for all loT layers
- Product to the market before the other 50 billion do
- IoT product combinations (exponential growth of test situations)
- ► Test the IoT experience









# **Examples**

"Two examples as a result of the new IoT view on testing"

**Crowd test** 



#### IoT story telling





# Testing is an expertise! loT testing is is a collection of expertise areas:

- Less fund
- Focus or
  - perfo
  - usab
  - secu
  - inter
- IoT Ma
- IoT Lay

- **日** High Tech
- Open Source
- **M** Business Intelligence
- ☐ Mobile apps

- Security
- Cloud

- Business Technology
- © Project- en Service Management
- ♣ Functioneel Beheer
- ★ Infrastructure Services
- Mainframe

Talk

Think

Connect

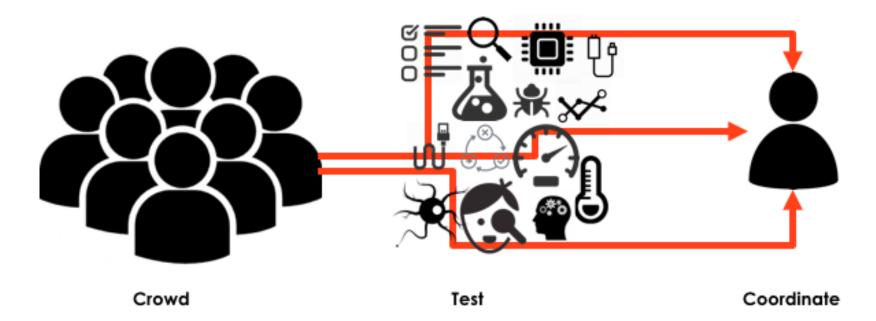
### **Example: Crowd test**

- ▶ Put the IoT solution out there as quick as possible and test it there
- Quick test in lab environment: next stop field test
- Make end users part of the test proces: inform them

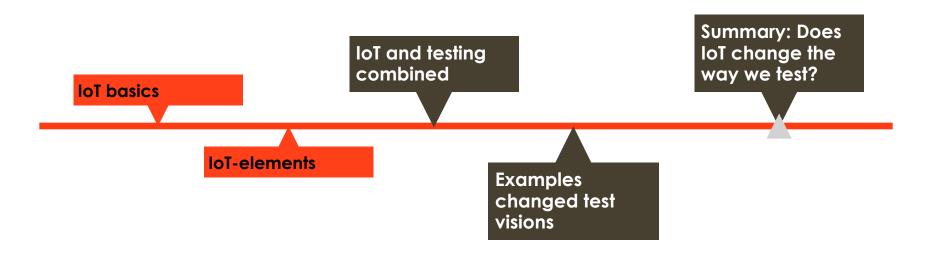
Crowd testing



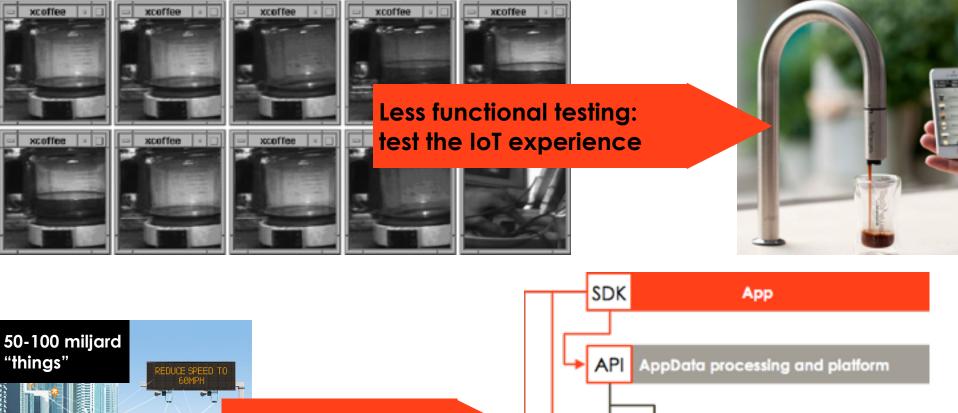
# **Example: Crowd test**

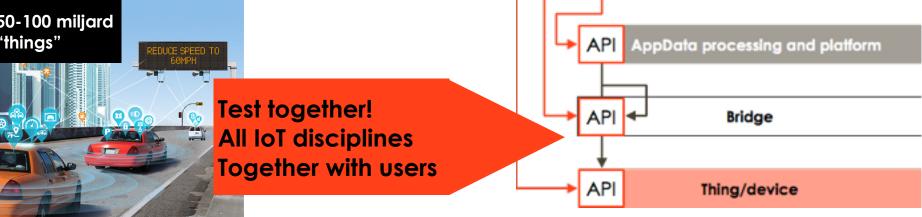












# loT changes the way we test!



