



Digital Transformation – are you ready?

3 really big trends, a **triple** jump, and **lots** of questions to ask yourself

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www

SMART INDUSTRY

The IoT Business Magazine

powered by



7,50 EUR | 2017

GOOGLE

is betting big on IoT

EUROPE'S BEST SMARTUP CITIES

TESLA

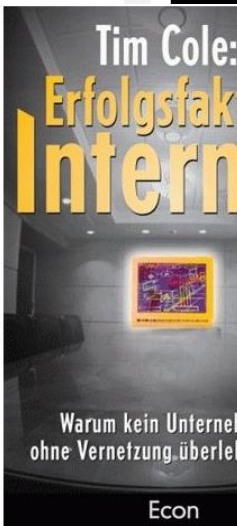
The smartest factory

THIERRY BRETON

A supercomputer in
every pocket



BLOCKCHAIN REVOLUTION: INTERNET UNCHAINED



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ole / Ossi Urchs

Digital Entertainment Now!

Internet is making us better and
d in the process changing just
t everything around us!



Forsthaus



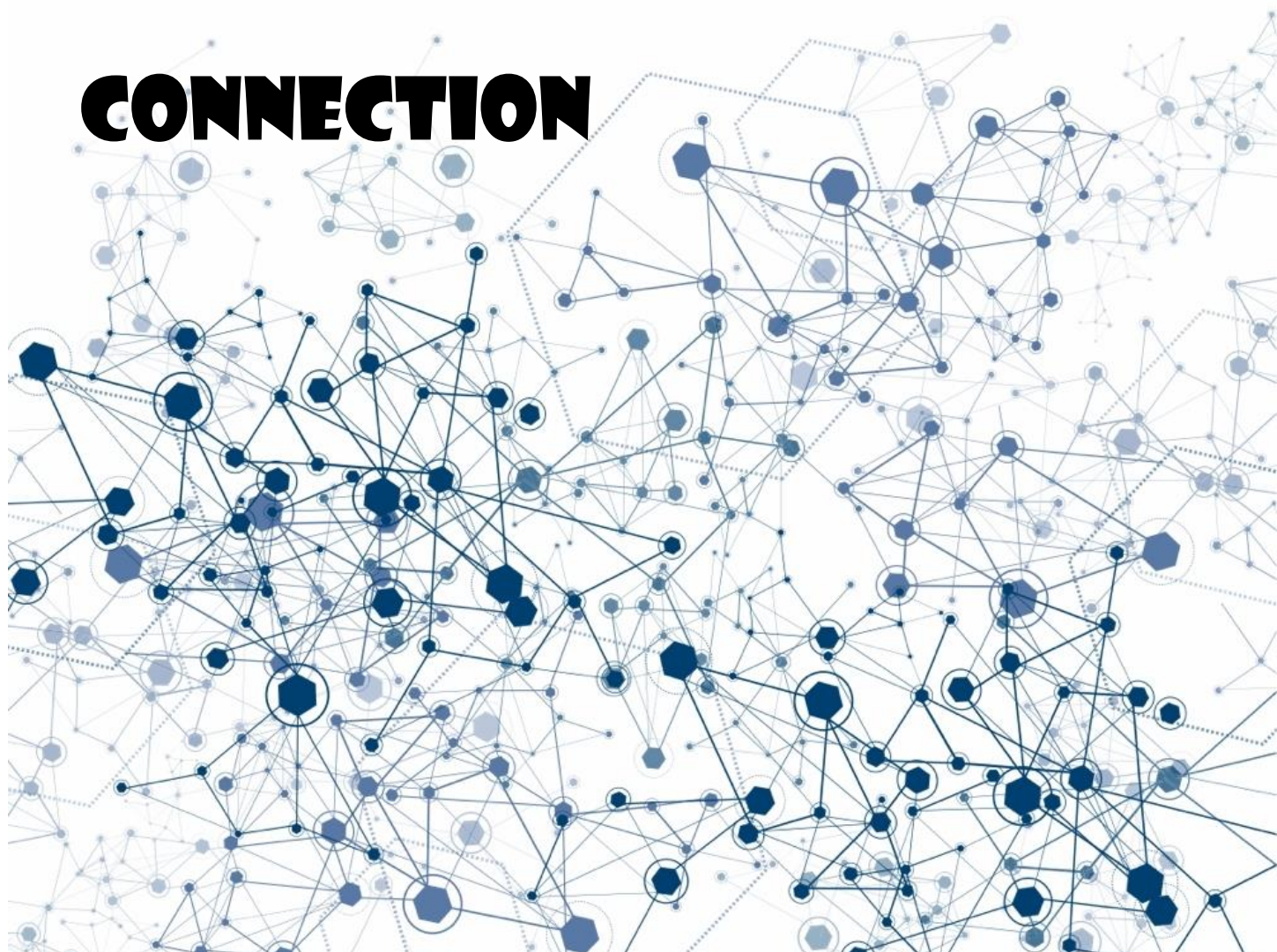
3 really big trends

DIGITALISATION

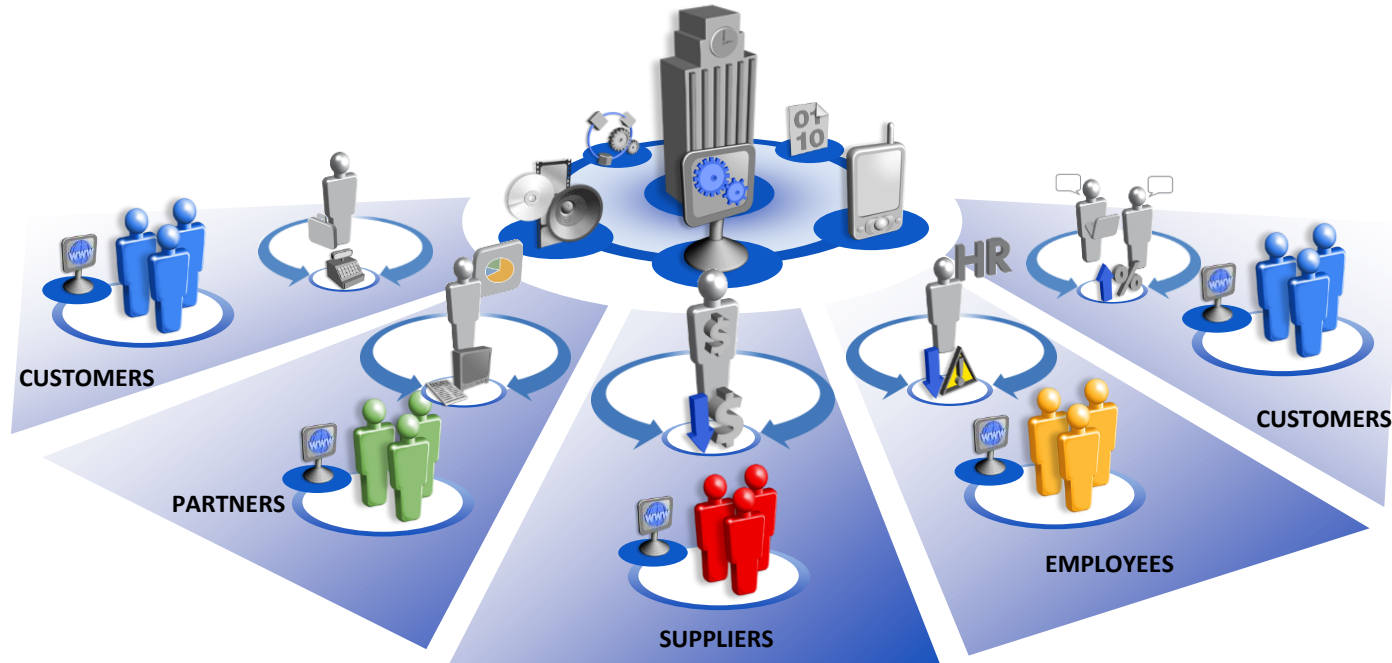




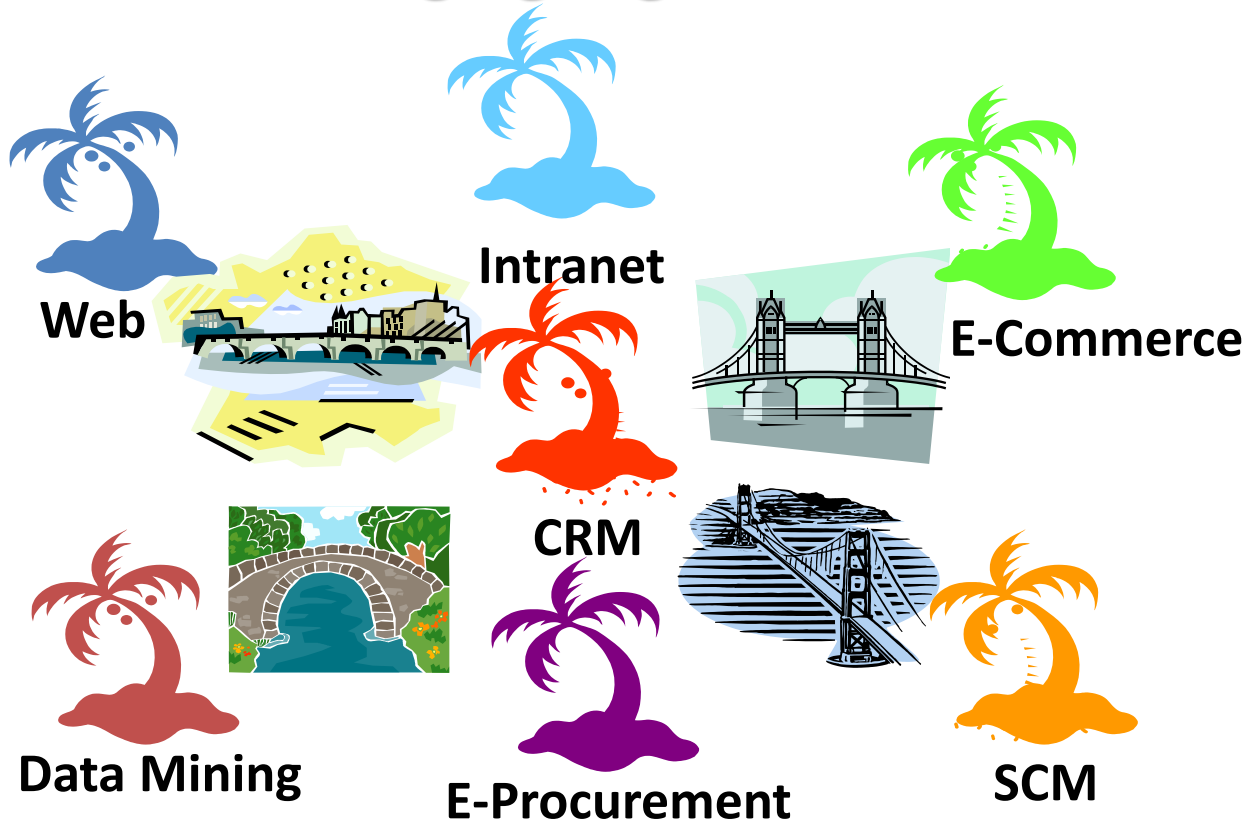
CONNECTION



“Right Information, Right Place, Right Time”



Work in progress: Bridging Digital Islands





**drop off online
forms here**



Uwe Hauck @bicyclist · 7. Apr.
Digitalisierung in Deutschland in einem Bild:



1,7 Tsd.



1,8 Tsd.



MOBILITY



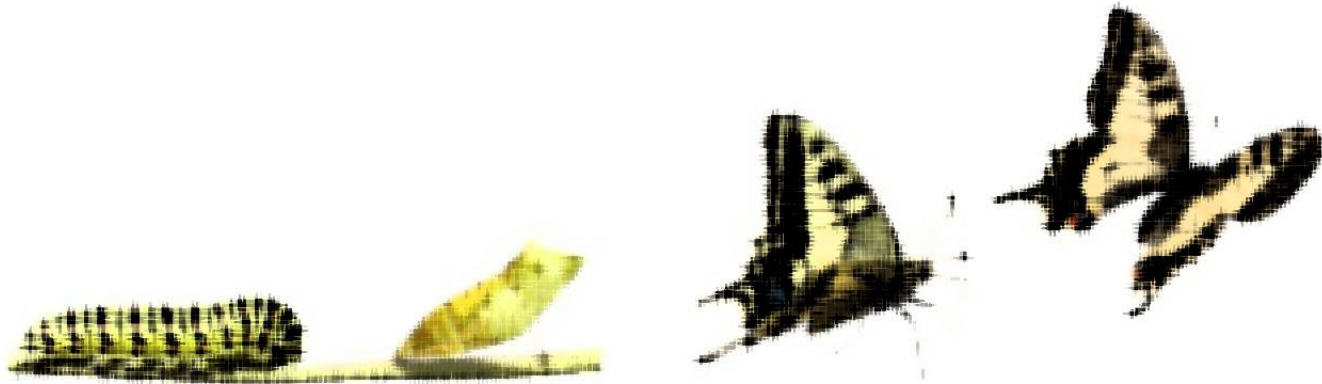


DIGITALIZATION

CONNECTIVITY

MOBILITY

Digital Transformation



Disruption!



Seeing the **world** through other eyes







**There's only one world,
stupid!**



Digital Triple Jump



analog → digital → networked

Logistics 1.0



Logistics 2.0



Logistics 3.0






Africa
LIVE 


TANZANIA MEDICAL SUPPLIES

Zipline drones to deliver medicine nationwide

 CGTN Africa

 @cgtnafrica

 CGTN Africa

 CGTN Africa

Digital delivery



„In future we won't sell stuff any more, we'll sell 3D data so people can print their own stuff“

Printed Parts



Boeing uses 3D titanium parts printed on site for the new 777 Dreamliner

Printed Homes



Bringing Jobs Back

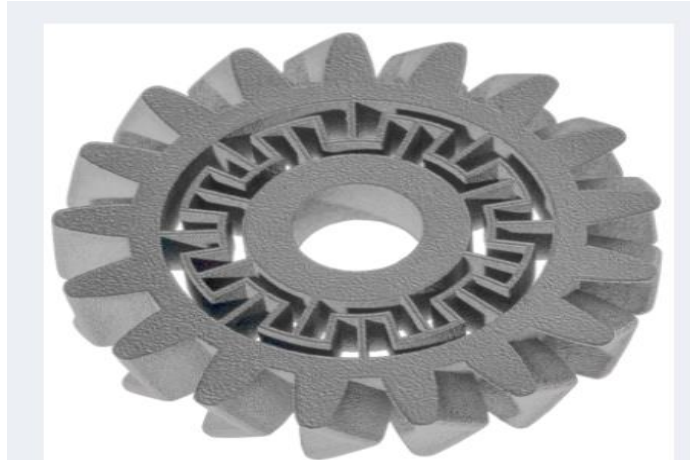
Donald Trump promised to bring back
Jobs but he's still dead



Bringing Jobs Back



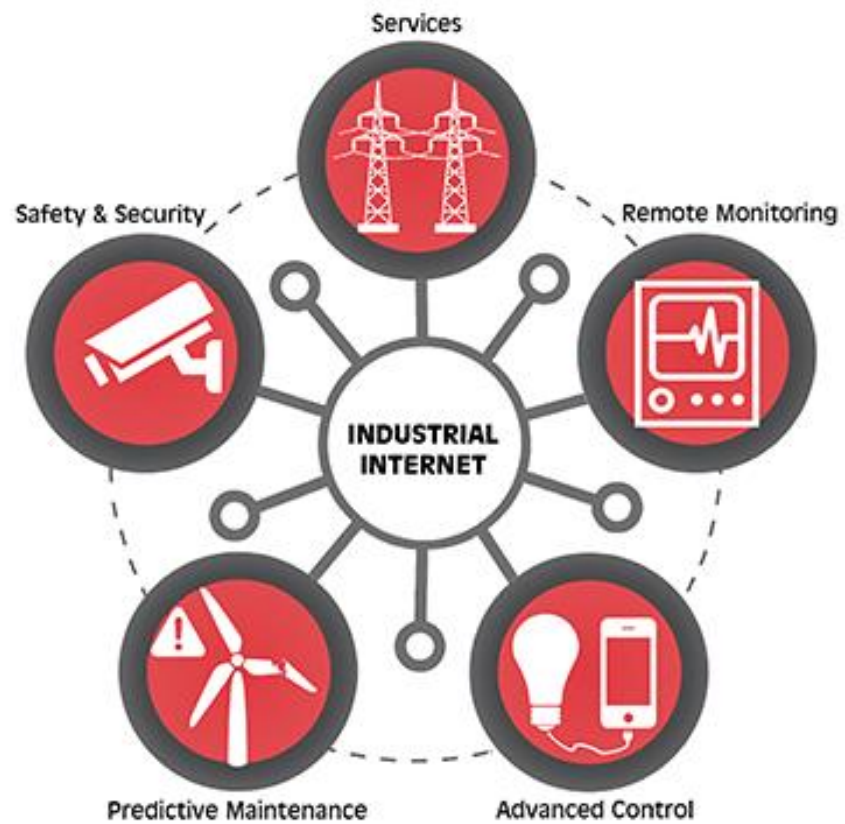
Adidas Speed Factory



Manufacturing

Let me count the ways...





[illegible]



Gerd Leonhard
The Future Agency

***„Data are the crude oil
of the 21st century“***

Sensors – the eyes and ears of IoT

30 BILLION
Sensor enabled objects
connected to networks
by 2018



212 BILLION

Total number of
available sensor
enabled objects by
2020

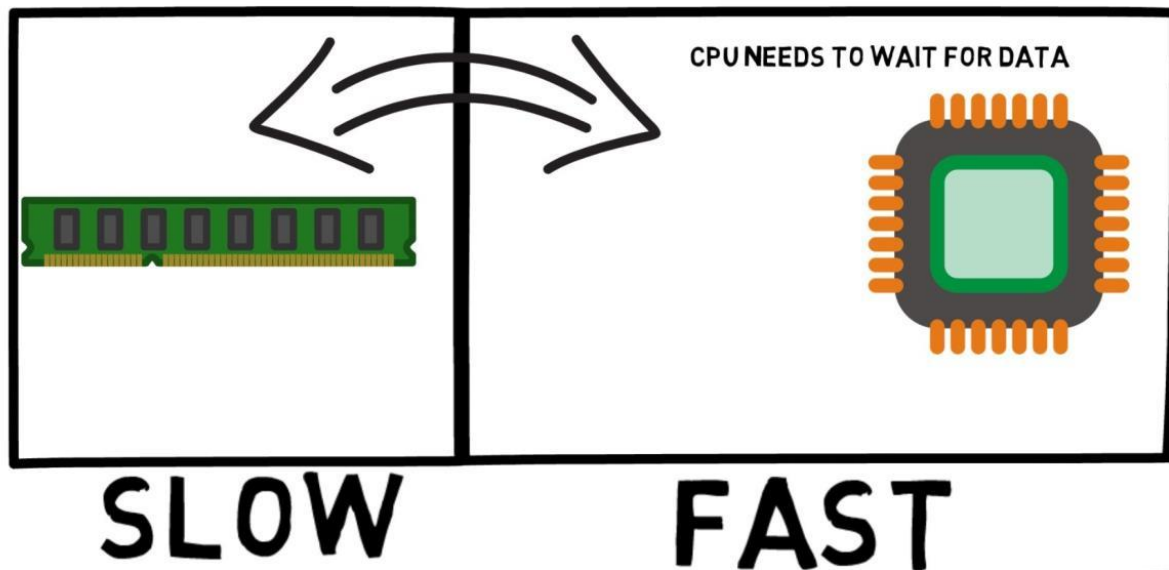
212B is **28x** the
total population of
the world



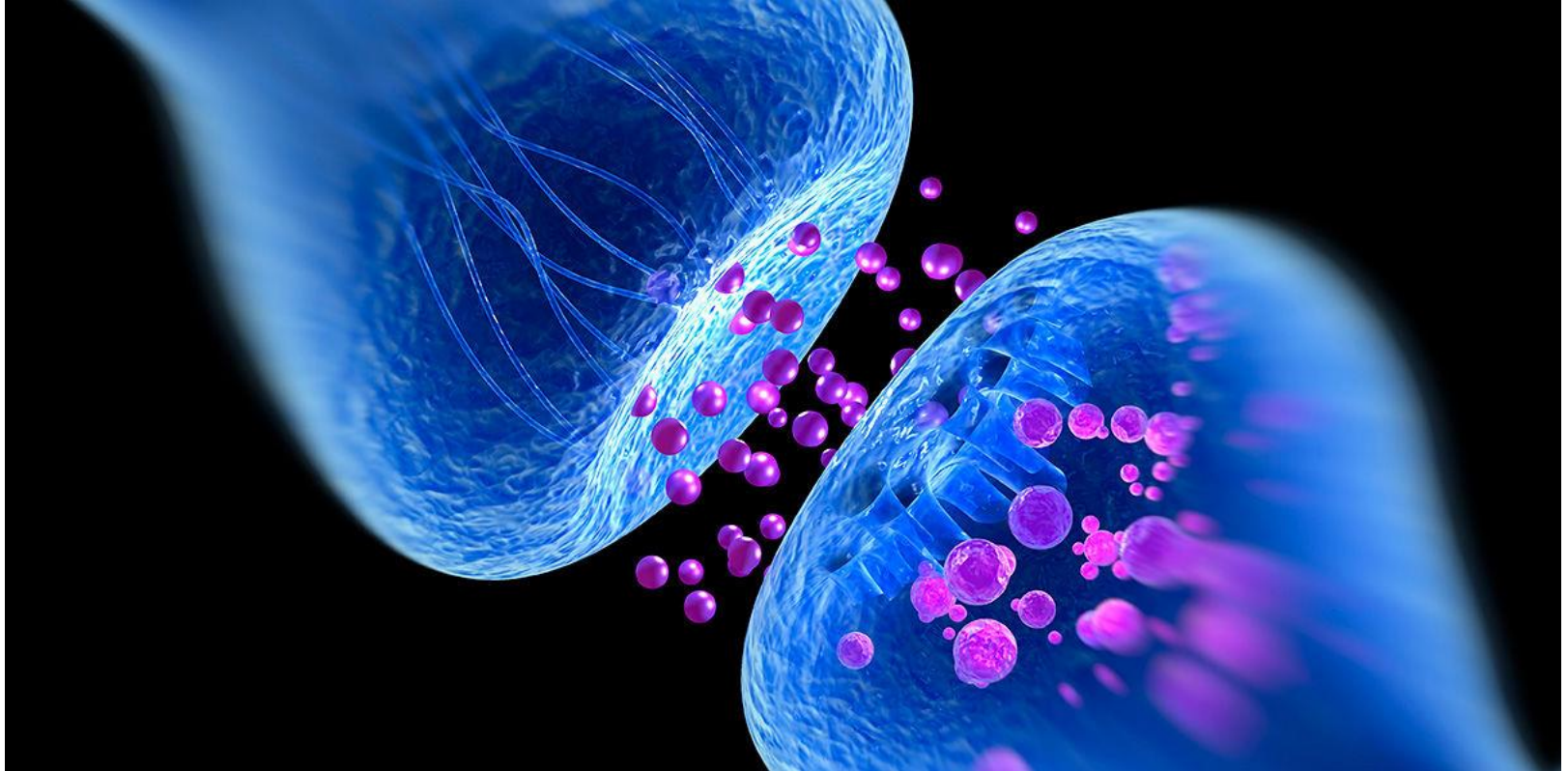




THE VON NEUMANN BOTTLENECK



Synapses





Learning Machines



Beat Lee Sedol on Oct. 23, 2017



PREDICT to PREVENT

WITH INVESTMENT GENERALLY LIMITED FOR MODERNISING T&D EQUIPMENT, UTILITIES HAVE TO SQUEEZE MORE POWER FROM AGING GRIDS WHILE THE NEED FOR STEADY QUALITY GROWS. MITCH BEEDIE EXPLAINS HOW PREDICTIVE MAINTENANCE CAN HELP SUPPLIERS TO PREVENT PROBLEMS IN TRANSMISSION



Predictive Analysis

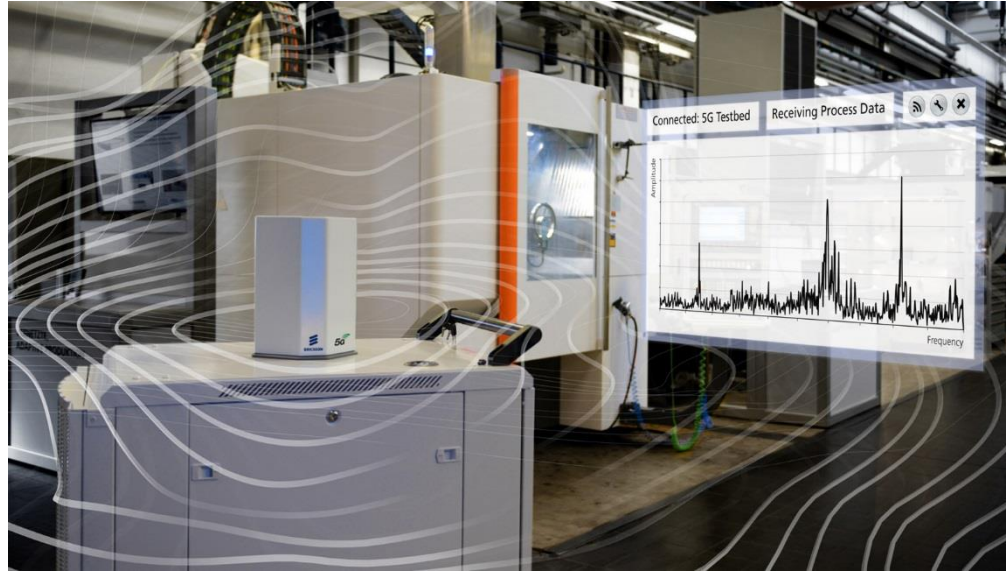


Predictive Analysis





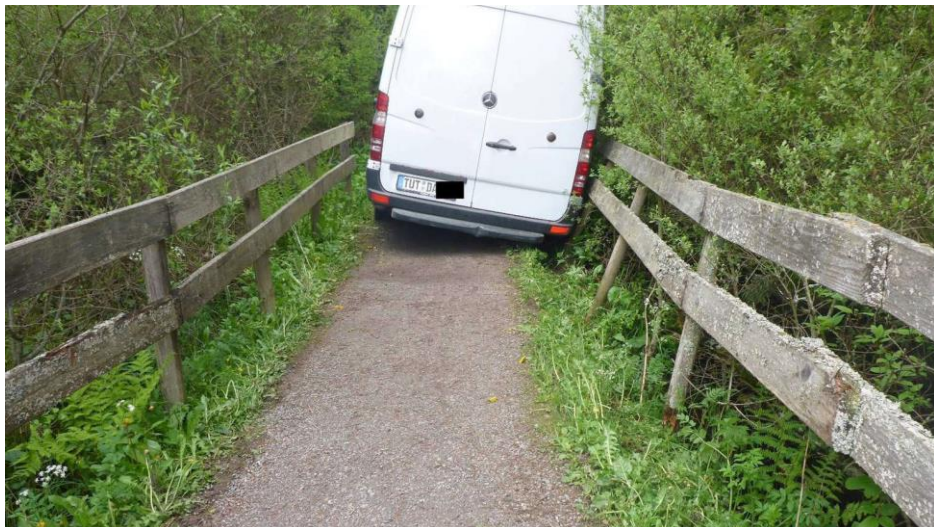
Prescriptive Analysis



Fraunhofer IPT High
Performance
Networked Adaptive
Production
(Hannover Fair 2018)

How far should we take this?





Technology is morally neutral – until we apply it



Security | Social Contracts | Ethics: Collective Benefits

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WORKING WITH AR AND VR

ROBOT 2020

The Voices of IoT

BEYOND THE HYPE

The Future of IoT

BETTING THE FARM

Smart
Agriculture

SELF-DRIVING CARS GETTING THERE





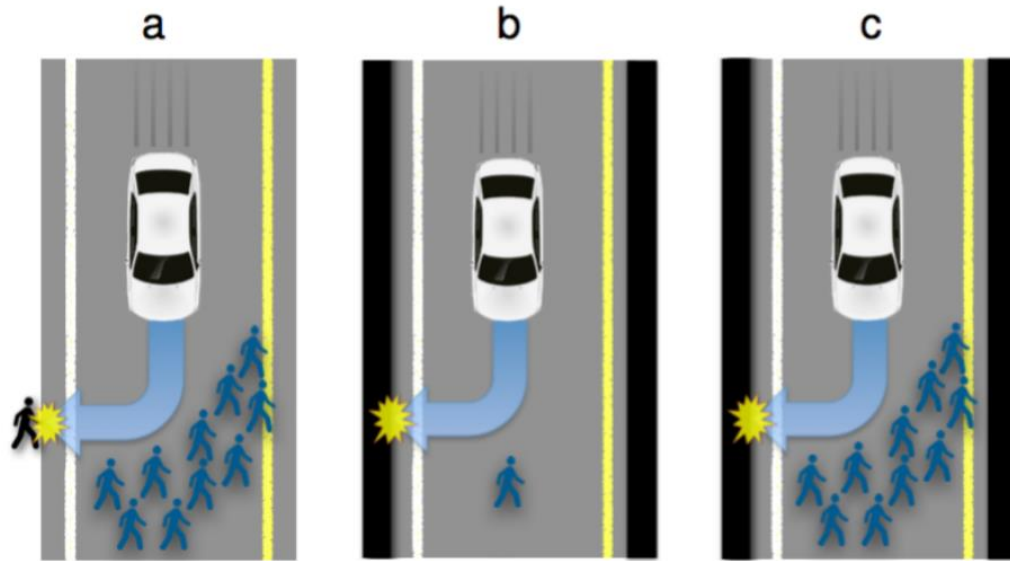


TEMPE

SELF-DRIVING VEHICLE HITS BICYCLIST

abc 15
ARIZONA

„Maschine Ethics“



„What Ethics?“



Prof. Janina Loh



Aristotele-Audi



Bentham-Bentley



Kant-Chrysler



**HUMANITY WILL CHANGE MORE IN THE NEXT 20 YEARS
THAN IN THE PREVIOUS 300 YEARS**

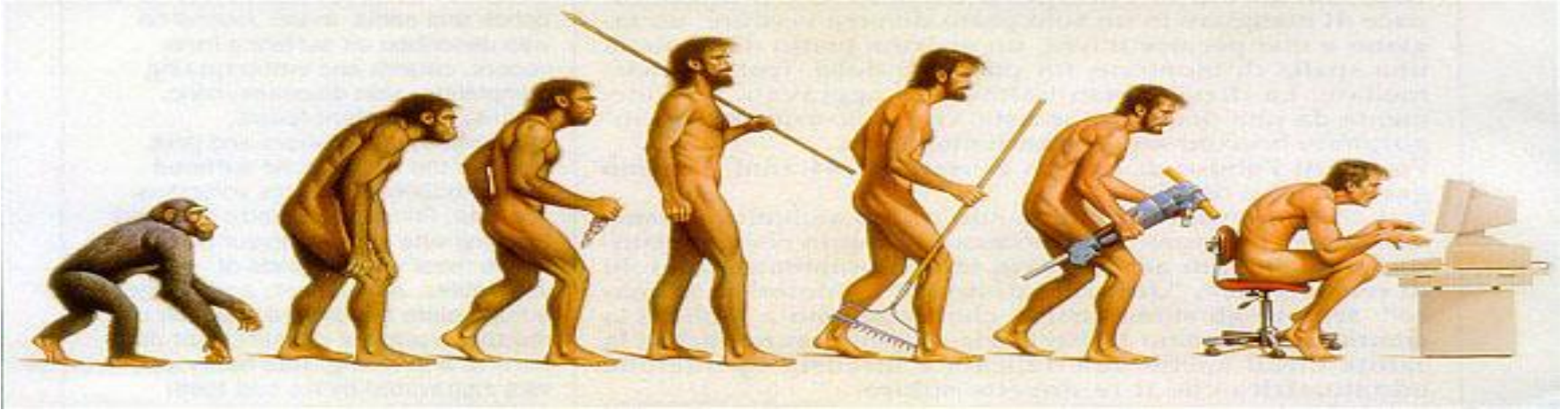




The biggest question of all:

Are you ready?

You can't stop change from happening



...but you can slow it down (for a while)

Thanks!

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SuperTimCole