Digital Transformation – are you ready?

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

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SMART INDUSTRY
The IoT Business Magazine

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
3 really big trends
CONNection
“Right Information, Right Place, Right Time”
Work in progress: Bridging Digital Islands

Web
Intranet
E-Commerce
CRM
E-Procurement
Data Mining
SCM
drop off online forms here
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
Tanzania Medical Supplies
Zipline drones to deliver medicine nationwide
Digital delivery

„In future we won‘t sell stuff any more, we‘ll sell 3D data so people can print their own stuff“

Nektarios Bakakis
Printed Parts

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

3D printed homes.
Gepostet von Alex Klokus
152,460 Aufrufe
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...
BIG DATA
„Data are the crude oil of the 21st century“

Gerd Leonhard
The Future Agency
Sensors – the eyes and ears of IoT

212 BILLION
Total number of available sensor enabled objects by 2020

30 BILLION
Sensor enabled objects connected to networks by 2018

212B is 28x the total population of the world
THE VON NEUMANN BOTTLENECK

SLOW

FAST

CPU NEEDS TO WAIT FOR DATA
Synapses
Learning Machines

Beat Lee Sedol on Oct. 23, 2017
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
SELF-DRIVING VEHICLE HITS BICYCLIST
„Maschine Ethics“
„What Ethics?“
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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