Visualisation and the Digital Journey

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Sydney, March 9, 2017
Facts on The Future of Business in the Digital Economy
By 2020 there will be 200 billion connected devices on the Internet of Things.

Source: Intel, A Guide to the Internet of Things Infographic
The **use of sensors will grow 700,000% by 2030**, in order to help solve nearly every human need and want, from smart shoes to cancer killing chips.

Source: SAP Center for Business Insight 2015 calculation based on SPB Global, A trillion sensors is the equivalent of 150 sensors per human on earth.
By 2018, the data created by the Internet of Things devices will reach **403 trillion gigabytes a year**.

Source: Cisco, Global Cloud Index
Private and commercial robot usage will grow 2,000% from 2015 to 2030, and could be a $190 billion market.

Source: SAP Center for Business Insight 2015 calculation based on The Boston Consulting Group, The Rise of Robotics
Arrival of new technologies

Traditional computing technologies will not be able to cope with these new business demands.

Visualisation is definitely one way to help with understanding the meaning of large amounts of data.

But visualisation has to be applied carefully, otherwise we may just add to confusion.
Transformation …
Visual Enterprise in SAP Solutions

MANUFACTURING
SERVICE
ASSET MANAGEMENT
ENGINEERING AND CONSTRUCTION

IOT
PRODUCT LIFECYCLE MANAGEMENT
REAL ESTATE AND FACILITY MGMT
CUSTOMER ENGAGEMENT
Visual Enterprise for Consumers: “Some assembly required”
Customer Engagement and Commerce

Configurators - Individualization

Riddell

7 helmet models, 26 shoulder pad models, 3 game pants models, 4 padded girdle models, 3 padded shirt models
...17 face masks, 4 chin straps, 5 rib belts, 5 back plates
...and nearly unlimited color options

Digital Accelerator:
extend the digital design process to customers

Flexible **CONFIGURATION** enables tailored products for markets of one or many
Target Industries

- Manufacturers
- Fashion & Apparel
- Retailers
Visualisation for Smart Cities
Visual Real Estate Management

Navigating from a map into building, into a floor to manage spaces
VE4RE - Visual Real Estate Management

Pre-staging
Visual Property management

Load and Synch to ERP
Visual Move management

Visual Workplace Management
Visual Reporting
Cloud For Real Estate
Transformation in Enterprise Asset Management
Asset Management …Pain points today

Around 17% of employees are working in Asset Management*  
Asset are nearly 17 years old in average*

Challenges
- Lack of Asset Information
- Outdated Data
- Lack of Collaboration
- No Common Definition
- No Standardized Model
- Information Silos

While the world's GDP is around $46.6 trillion, the value of all assets is assumed to be much higher. **

Maintenance spend alone comes up to $447 billion. **

* SAP Performance Benchmarking 2015  
** Global Framework on Maintenance and Asset Management 2014
SAP Asset Intelligence Network
Digital Transformation in Manufacturing
Digital Transformation in Manufacturing

Handover to Production:
Visual BOM Creation
Visual Routing Creation
The Digital twin enables:

- Visual Work Instructions
- Configurable Work Instruction (Variant Config)
  - The right work instruction for this variant
  - Experienced users can be alerted to a new variant
Transforming Service

SAP Work Manager
Internet of Things
Visual IoT - Monitoring with MII

Manufacturing integration and Intelligence
Augmented and Virtual Reality
Want to Influence SAP Product direction?

The Visual Enterprise team vision is to transform industry with Digital Twin visualisation and Interactive Connected user manuals

- We plan a Connected Product Experience on SAP Cloud Platform
- Next: Customer Engagement Initiative to test concepts and design product
- This is great opportunity for innovative customers to work with us and influence SAP product direction
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Thank you

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