

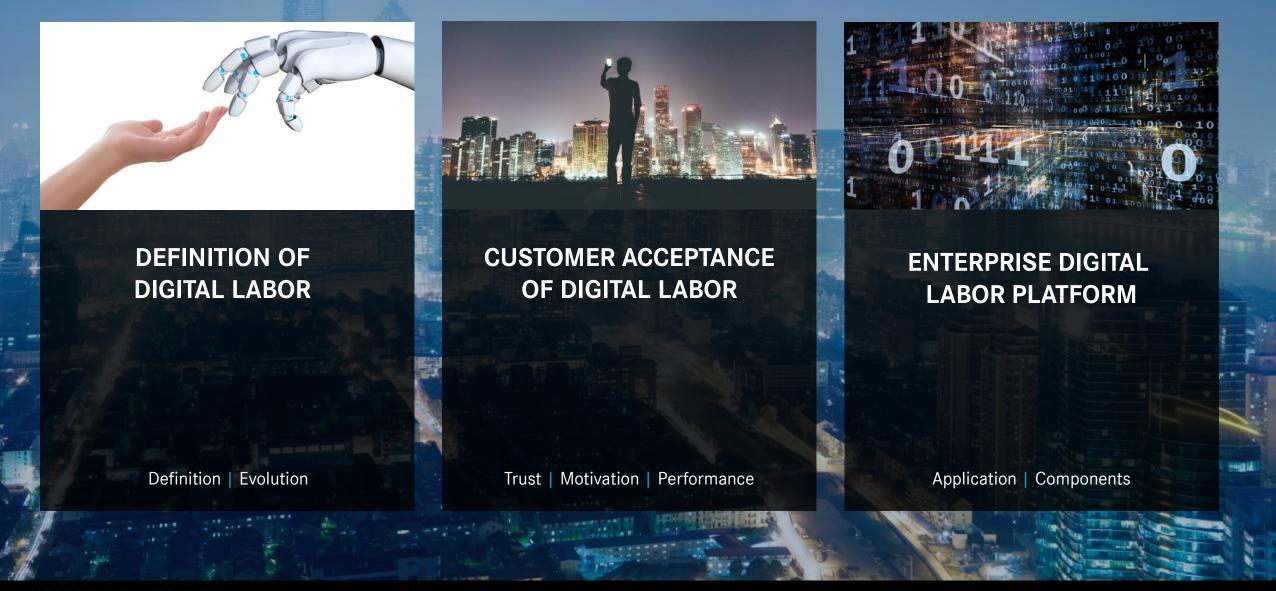
Digital Labor transforming Customer Experience in the Era of A.I.

Conversational Commerce Conference

London, May 2018

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Topics in Digital Labor



Content

1. Definition of Digital Labor

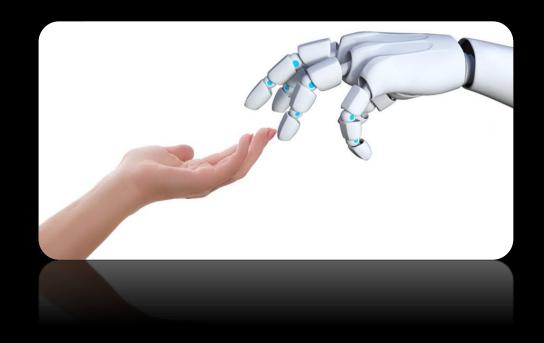
- 2. Customer Acceptance of Digital Labor
- 3. Application of Digital Labor
- 4. Enterprise Digital Labor Platform

What is Digital Labor?

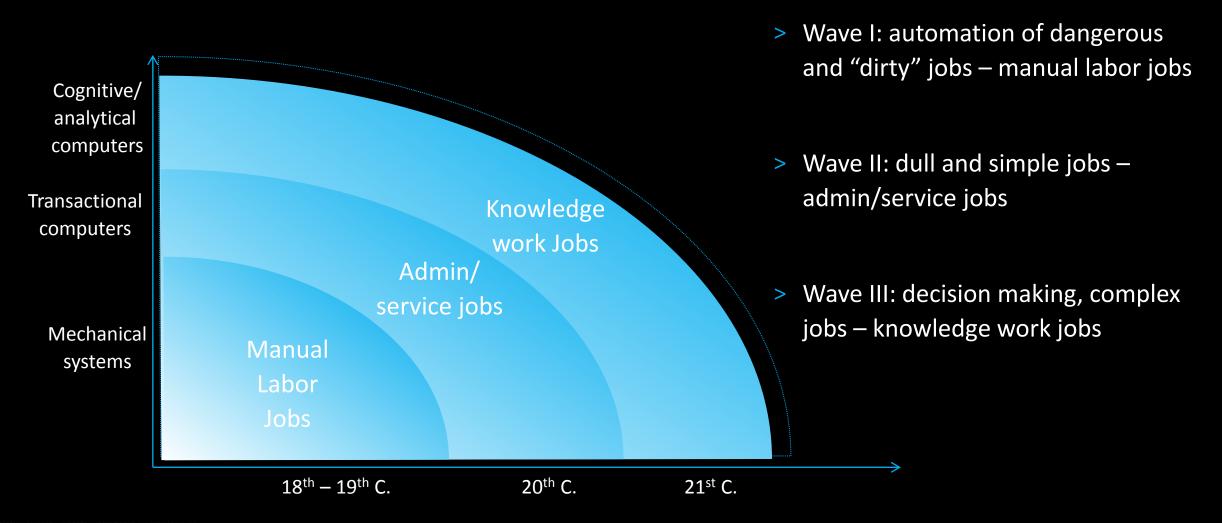
Digital Labor Definition

- Digital Labor = work done by Digital Laborers "Machines that do work that involves manipulating information which has traditionally required human workers" (HBR)
- > Differentiation between pure A.I. and pragmatic A.I. important according to Forrester Research

> Jobs should be manual, repetitive, rule-based



Ascent of cognitive and analytical computing will automate knowledge work jobs in large scale by 2025



Digital Labor levels of evolution

Evolutionary levels

Level 1

Basic Automation

- > Single application macro
- Predefined connectors into other applications

Level 2

Deterministic Rules

- > Sophisticated app macro
- > Workflow automation
- > Rules based
- > Structured data
- > No decision making

Current Stage

Level 3

Pattern based Decisions

- > Pattern recognition
- > Unstructured data
- > Self-learning with human aid
- Limited decision making based on info provided

Level 4

Cognitive Computing

- > Multiple sources of data
- > Deep learning
- > Personality/ avatar
- > Context awareness

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Why should we care about Customer Acceptance?



The most important theoretical models of acceptance research are the basis for a valid model for the acceptance of chatbots



Theory of Reasoned Action

- A model to understand the human's attitude and its influence on his behavior by Ajzen and Fishbein
- A certain behavior of a person is influenced by his behavioral intention to conduct the behavior, while the person's attitude toward performing the behavior and subjective norm determines the intention

Theory of Planed Behavior

An extension of the TRA by adding the influence of the perceived behavioral control, which describes the individual belief of a person and how easy or difficult the observed behavior can actually be performed



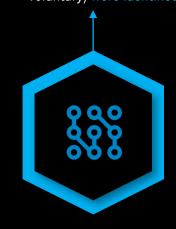


Technology Acceptance Model

- > The most known theoretical model for the research of software acceptance
- > The usage of technologies (Actual Use) is determined by the Attitude Toward Using (A) a technology
- The subjective perception of a technology is influenced by the Perceived Usefulness (PU) and the Perceived Ease of Use (PEOU)

UTAUT

- Venkatesh, Morris and Davis developed a unified theory of Acceptance and Use of Technology
- > Four relevant factors
 (expected effort, supporting measures, expected performance, social impact) and four moderating factors (age, gender, experience, voluntary) were identified





UTAUT 2

Unified theory of acceptance and use of technology

- New constructs and relationships that extend the applicability of UTAUT to the consumer context
- > Relatively young (2012)
- > Unifying approach
- > Often cited (2036 citations)
- Very high ranking: A+
 Basis for the
 Conceptual Model











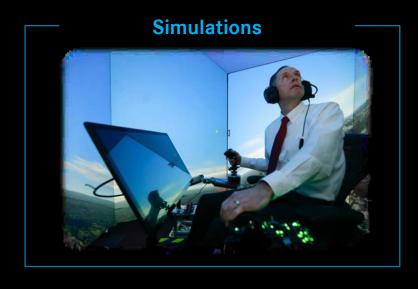
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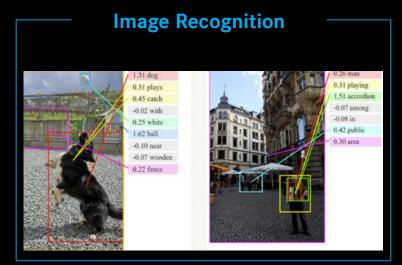
Today's Popular Applications of AI and Machine Learning

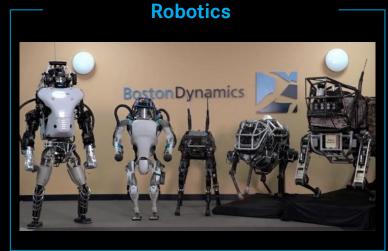


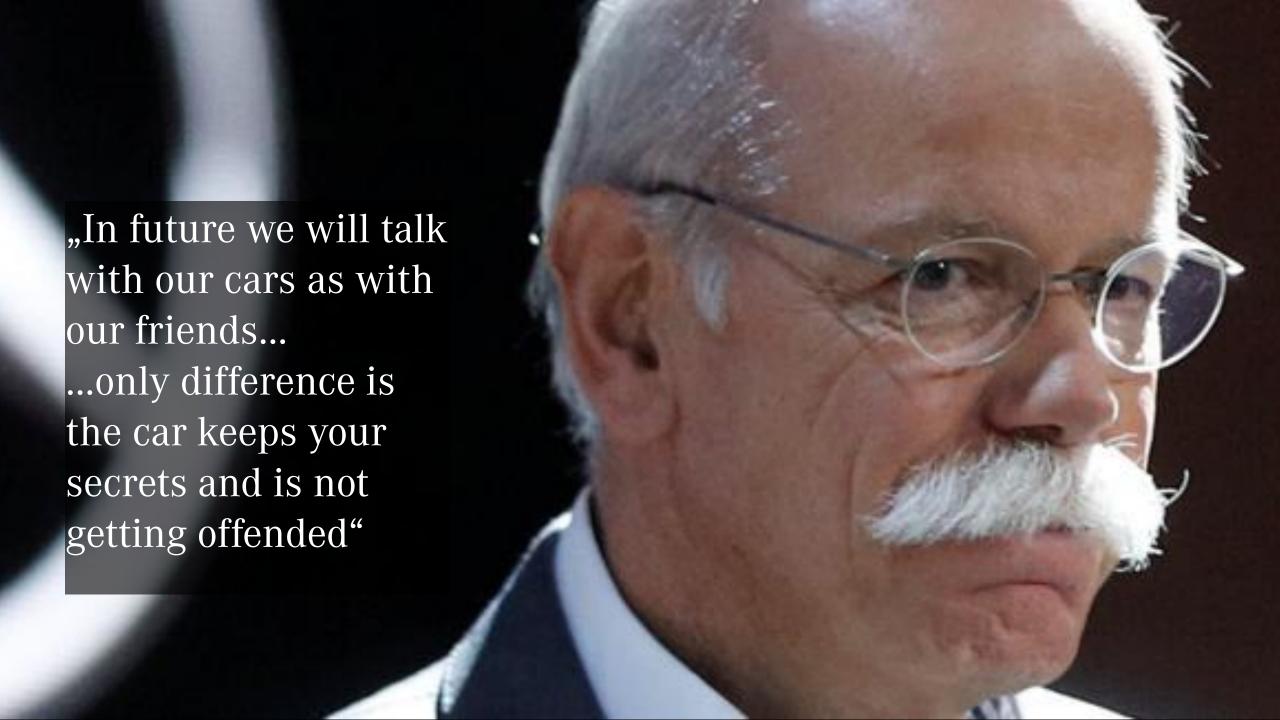












Ask Mercedes – Personal Assistant





Ask Mercedes received strong press coverage around the world





Automobilwoche, Germany, 22. Nov. 2017



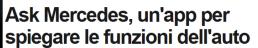
Response, Japan, 25. Nov. 2017



Welt N24, Germany, 22. Nov. 2017



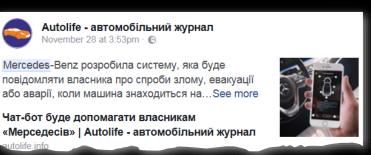




Mercedes-Benz lancia un assistente virtuale in grado di spiegare al cliente il funzionamento dei vari dispositivi presenti a bordo delle sue vetture

La Repubblica, Italy, 25. Nov 2017





Autolife, Russia, 28. Nov. 2017





Goals

- 1. Process design of the future
- 2. Process simulation using artificial intelligence
- 3. Development and verification of use cases/business models
- 4. Increase the efficiency of our consulting services





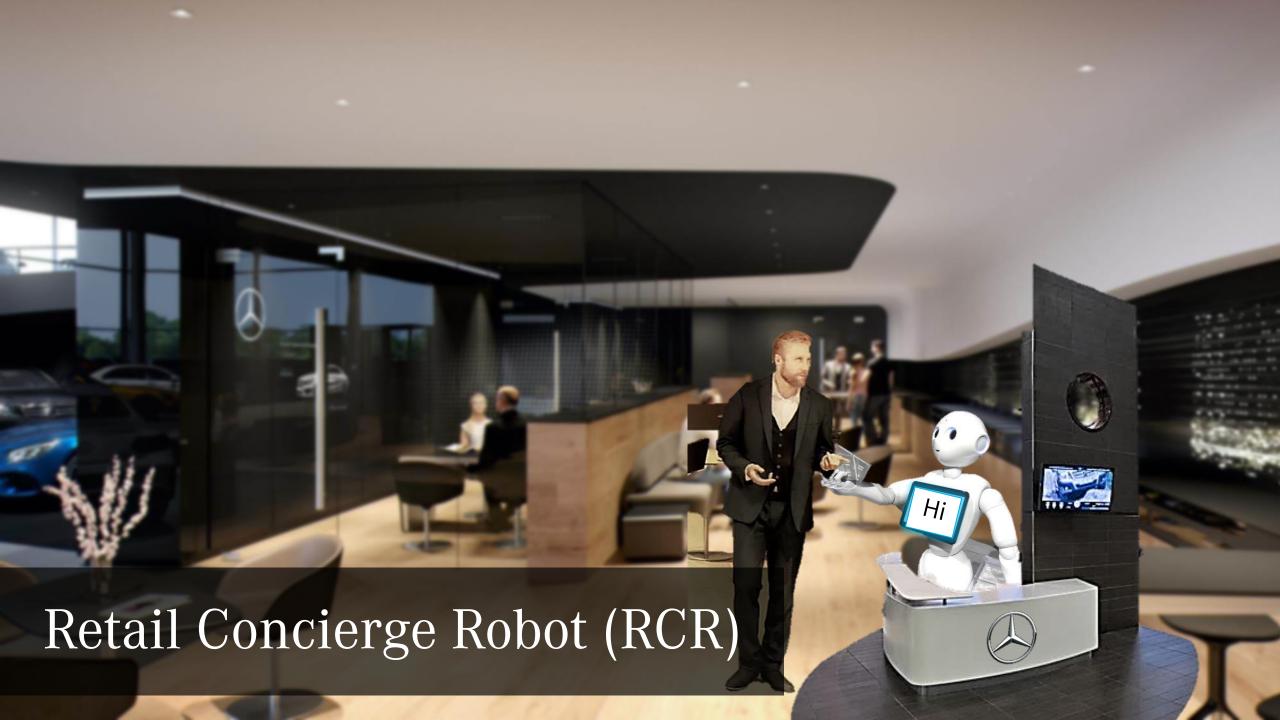
VIRTUAL RETAIL LAB (VRL) by Mercedes-Benz Consulting





Virtual Retail Lab

The virtualized retail eco system to learn, develop or analyze processes, future scenarios and much more...

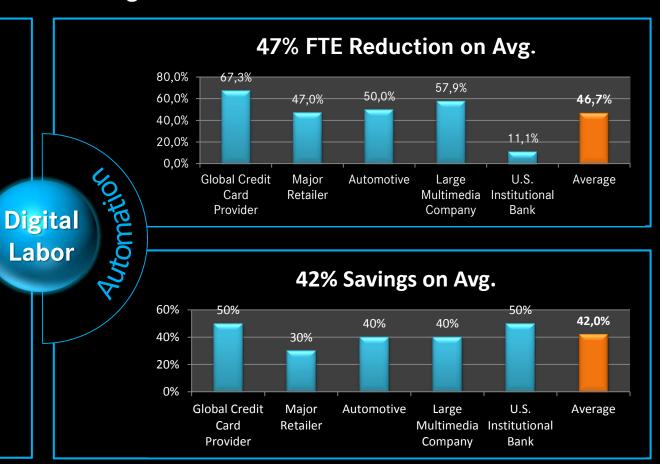


AI technology enables huge automation and savings potential

A. Automation Possibilities

% of Activities processed by Smart-**Machine Enabled Services** 90% 81% 80% 70% 64% 59,8% 60% 53% 50% 40% 35% 30% 20% 10% Global Credit Major Retailer Automotive U.S. Large Average Institutional Card Provider Multimedia Company Bank

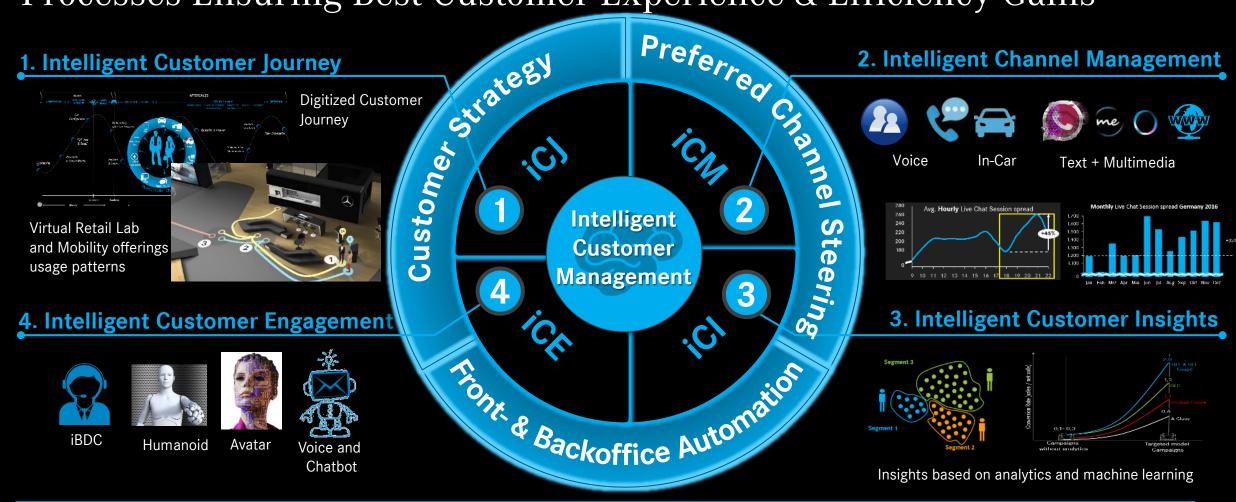
B. Digital Labor Automation Results



Content

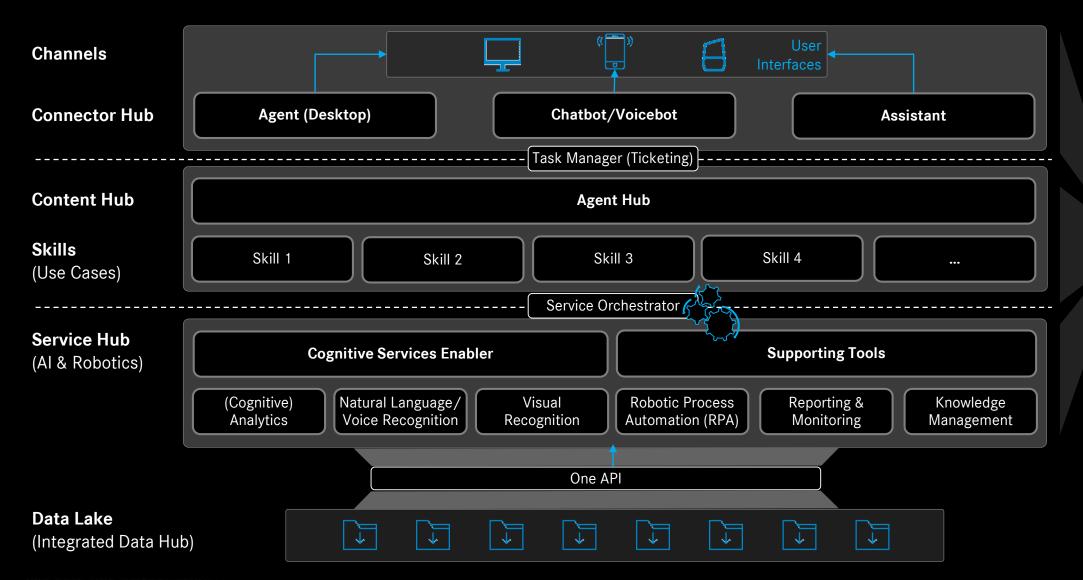
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A.I., Analytics & RPA Are Adding Intelligence to Customer Related Processes Ensuring Best Customer Experience & Efficiency Gains



Enabler Technologies: Artificial intelligence, Advanced Analytics, Robotic-Process Automation, ...

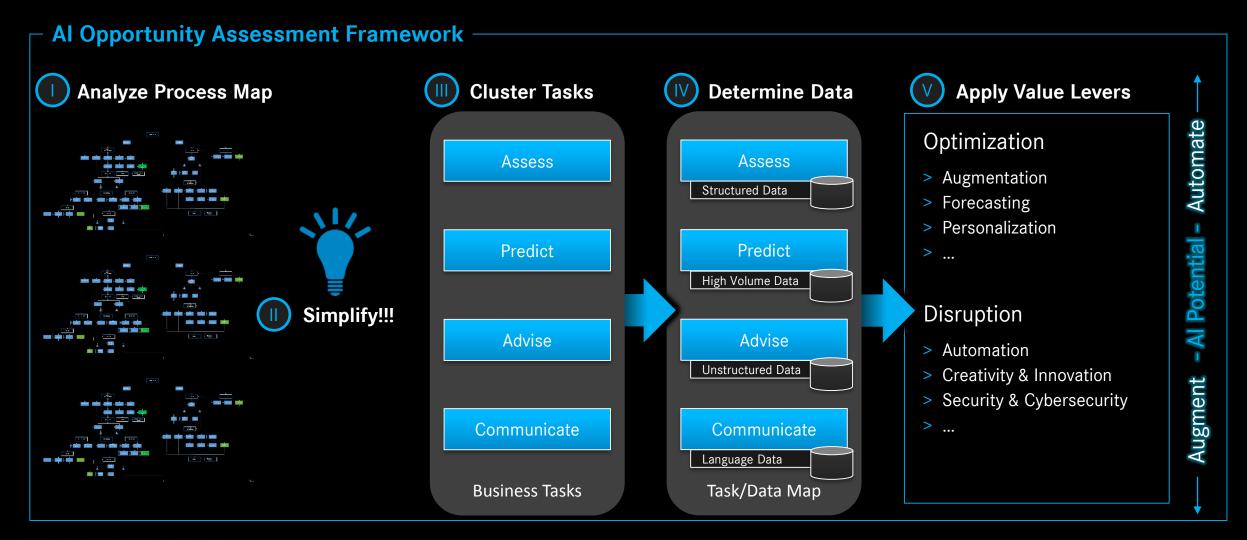
Digital Labor Platform



Joint usage of Hubs by:

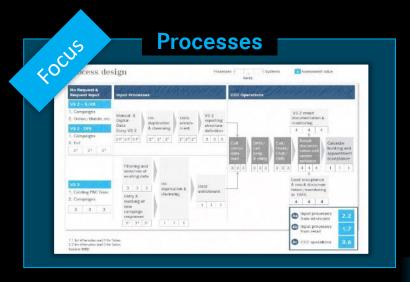
- > HQ
- > Shared Services
- > Markets
- > Service Departments (z.B. HR)

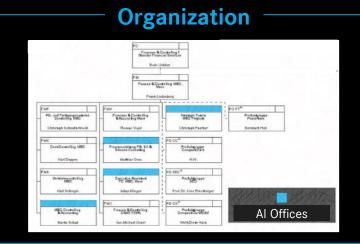
Based on a simplification of business tasks in four categories, data availability is determined and AI value levers applied

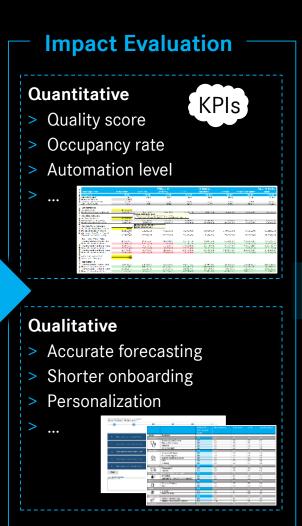




AI opportunity assessment focuses on processes and serves as a basis for a quantitative and qualitative Impact Evaluation





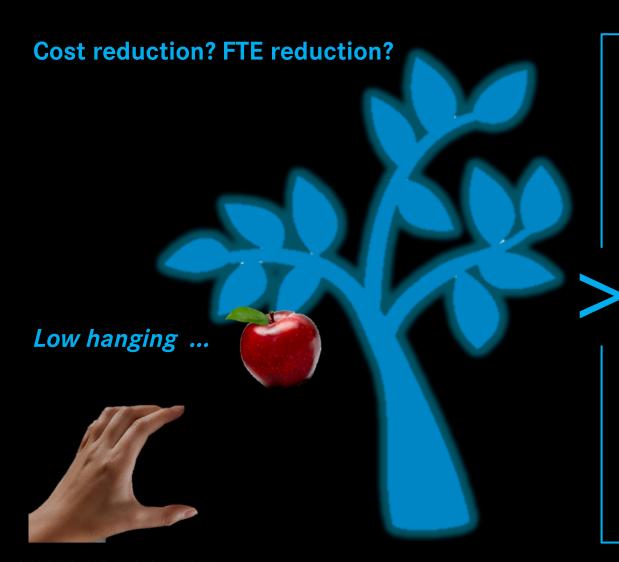




- > Are Siri and Other Digital Assistants Actually a Security Risk?
- > Amazon Echo, A Criminal Witness?
- > Unwanted Shopping Sprees do you control what you buy?
- Could could you be discriminated based on your health data?
- > Remote access via IoT integration ...

- > Clear Security Guidelines
- > Thorough Cloud Risk Assessment
- Data Control and Transparency by Customer
- No Sharing of Dialogue Data with 3rd Parties
- No unfair Filtering of Content
- > ...

Grabbing of low hanging fruits is not sustainable!



The "ATM Effect" will be rampant



- First ATM installed by Barclays in 1967
- > Today 3.5 million ATMs in the world
- Competitive advantage lasted only a short period of time
- > We recommend Empowering Employees!



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