

Ancud iT

KI@Work

Digital Leadership 03.11.2020

Konstantin Böhm



Ancud IT



Demokratisierung von Online

Demokratisierung von Mobile

Demokratisierung von Smart

Edge AI:

LSTM Encoding 1:20 Datenreduktion

Federated Learning: collaboratives, anonymes Lernen



**MarS Board Freescale i.MX6 Dual Processor
Development Board**

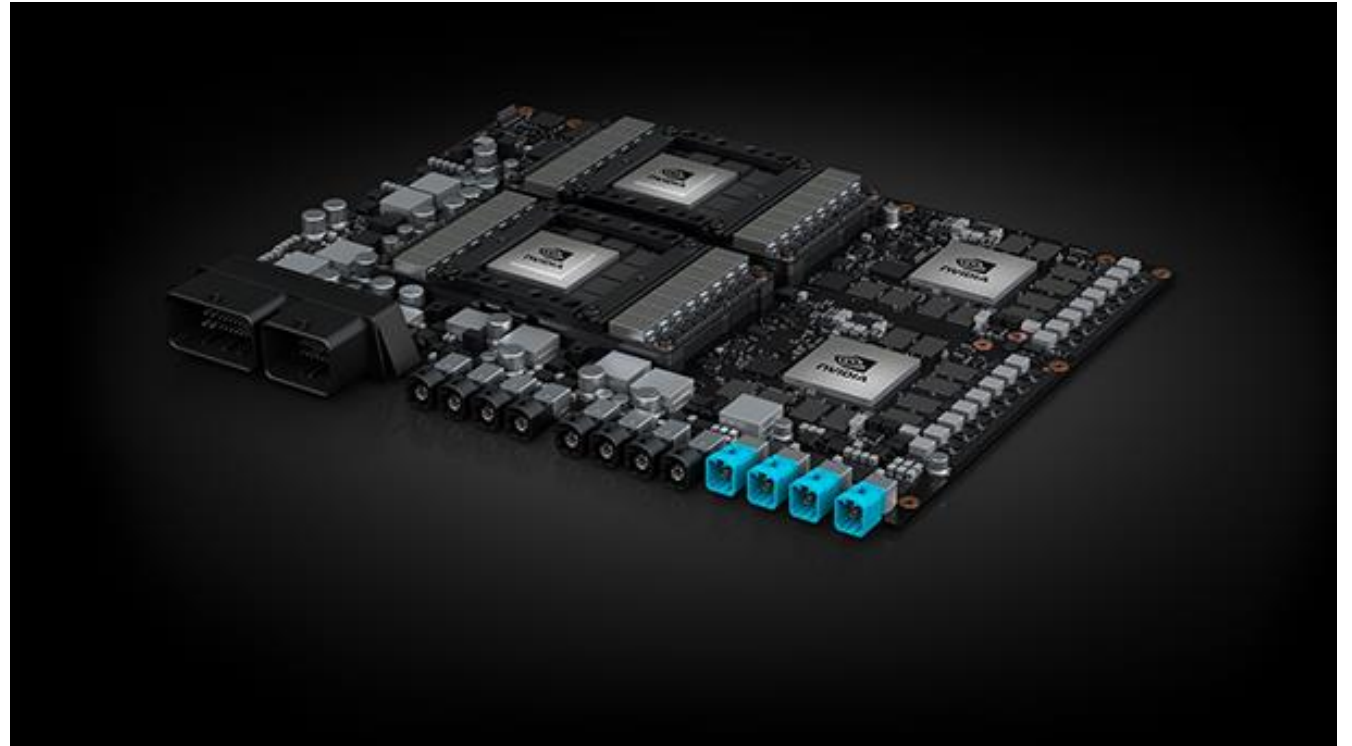
34,80 € *

inkl. MwSt. [zzgl. Versandkosten](#)

Sofort versandfertig, Lieferzeit ca. 1-3 Werktage

NVIDIA Drive AGX Hardware und Framework für Autonomes Fahren

NVIDIA DRIVE AGX Pegasus™ erreicht beispiellose 320 TOPS beim Deep Learning mit einer Architektur, die auf zwei NVIDIA® Xavier™-Prozessoren und zwei TensorCore-GPUs der nächsten Generation basiert. Auf diesem energieeffizienten KI-Hochleistungscomputer werden mehrere Deep Neural Networks simultan ausgeführt. Er ist darauf ausgelegt, hochautomatisiertes und vollständig autonomes Fahren sicher zu verwalten. Dafür sind weder Lenkrad noch Pedale erforderlich.

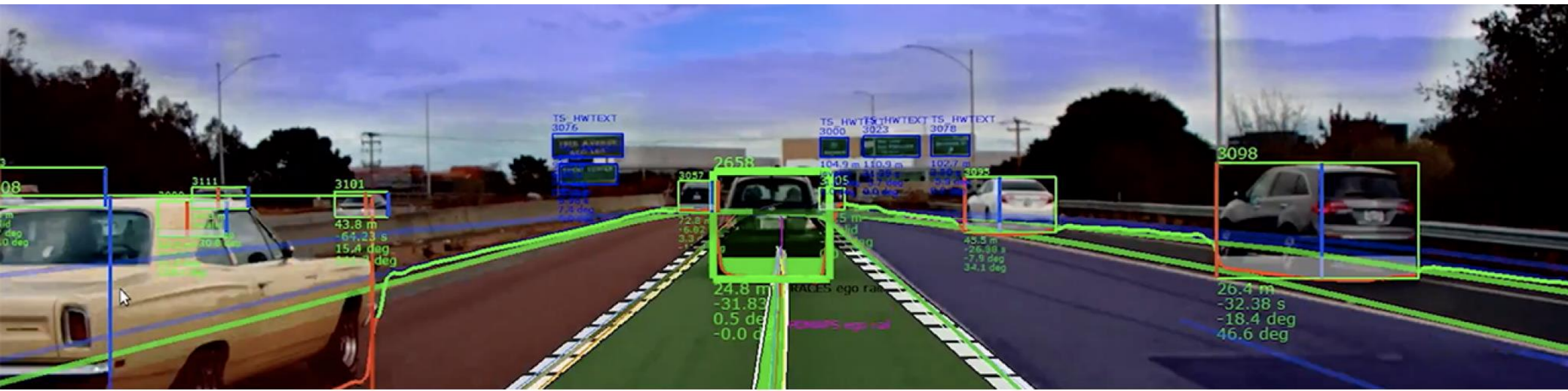


<https://www.nvidia.com/en-us/self-driving-cars/ap2x/>

wir sind mittendrin... Digitalisierung der Wirklichkeit:

Die kommende Digitalisierung verbindet den einzelnen Menschen mit seiner dinglichen Umwelt in Echtzeit, und richtet diese auf ihn persönlich aus:

Digitaler Arbeitsplatz als Game Engine der Wirklichkeit



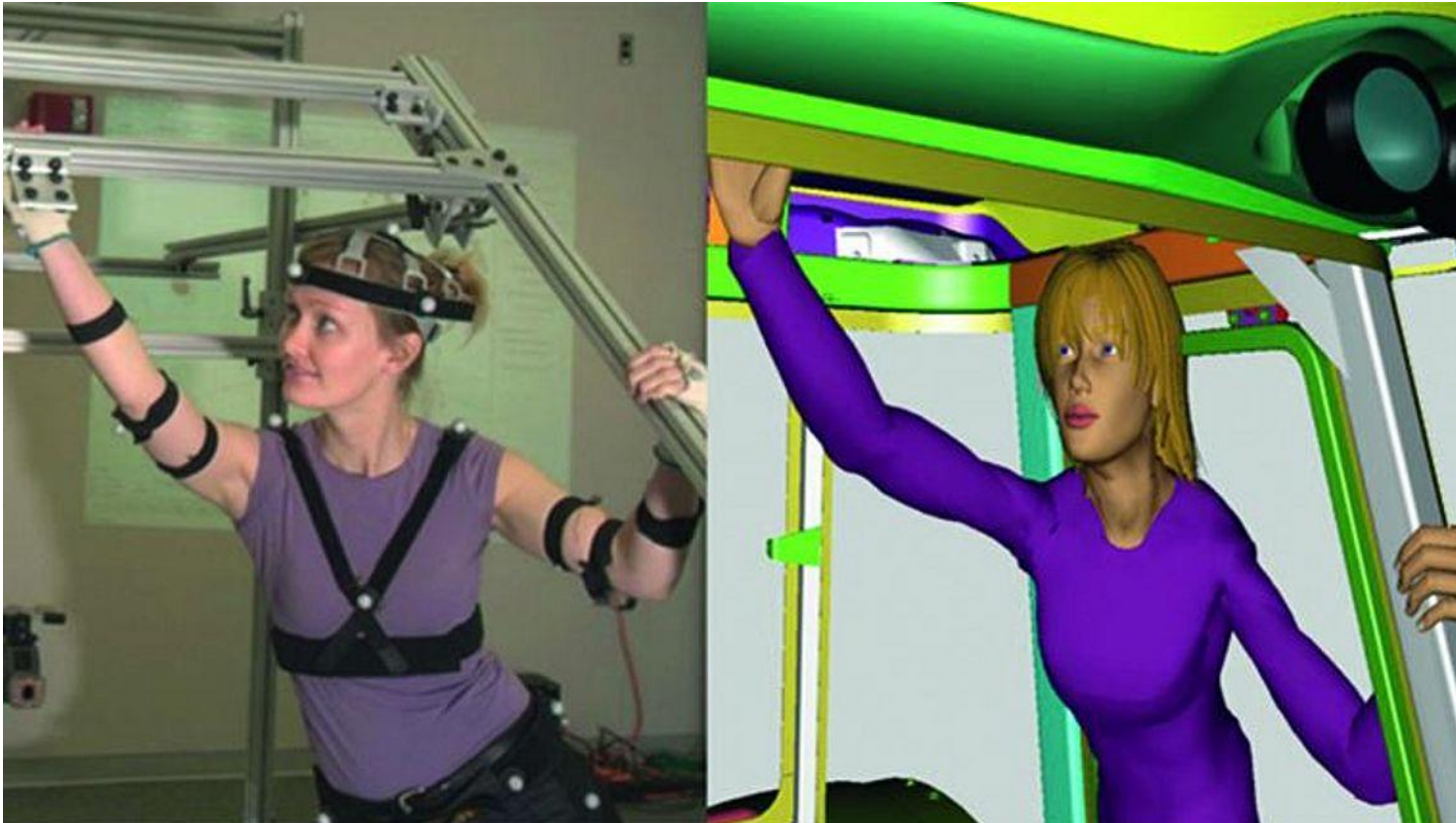
Dies fördert Handlungsfähigkeit+Selbstorganisation, aber auch Transparenz und Trackbarkeit:

=> MA wird Pilot seiner Digitalen Maschine

immersive workspaces

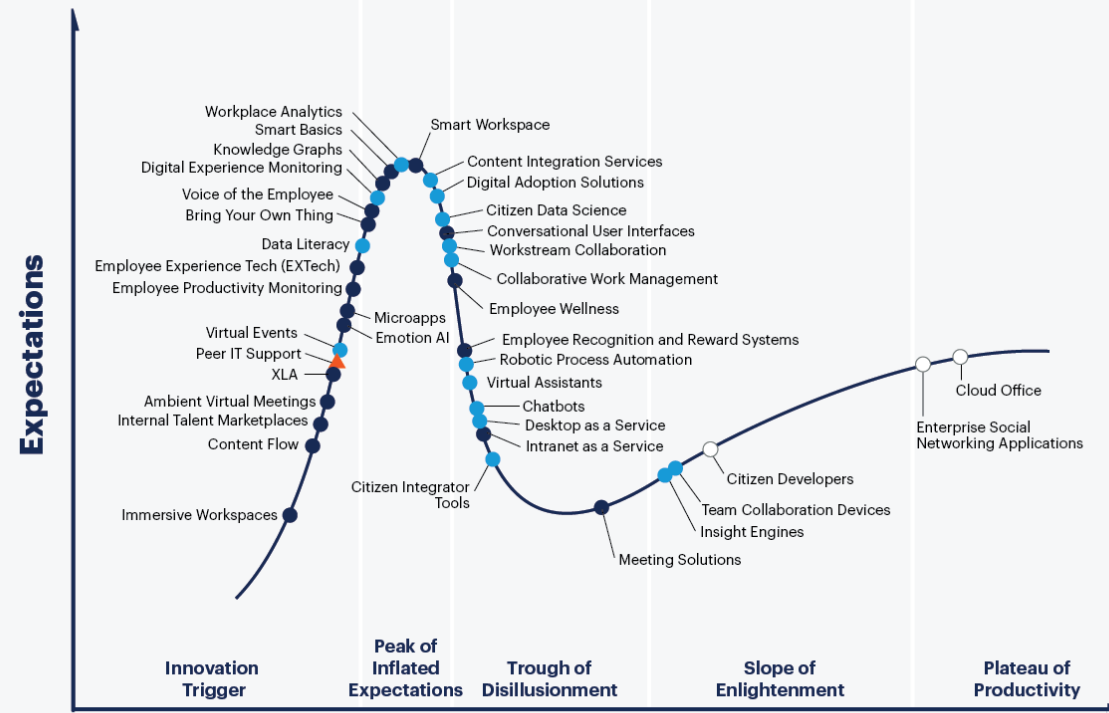
Human Digital Twin

Mit dem ergonomischen Simulations-Toolkit „Tecnomatix Jack“ ist in der Fabrik der Zukunft virtuelle Realität endgültig an der Tagesordnung. Das Bewegungstracking der Arbeiter funktioniert dabei wie in einem Computerspiel: Der Mensch wird an seiner Arbeitsstation mit einer speziellen Ausrüstung aus Trackern und Messdioden kalibriert. (© Siemens AG)



SIEMENS

Hype Cycle for the Digital Workplace, 2020



Plateau will be reached:

- less than 2 years
- 2 to 5 years
- 5 to 10 years
- ▲ more than 10 years
- ⊗ obsolete before plateau

As of July 2020

gartner.com/SmarterWithGartner

Source: Gartner
© 2020 Gartner, Inc. and/or its affiliates. All rights reserved. Gartner and Hype Cycle are registered trademarks of Gartner, Inc. and its affiliates in the U.S.



The business benefits of AI

We surveyed 250 executives who were familiar with their companies' use of cognitive technologies to learn about their goals for AI initiatives. More than half said their primary goal was to make existing products better. Reducing head count was mentioned by only 22%.

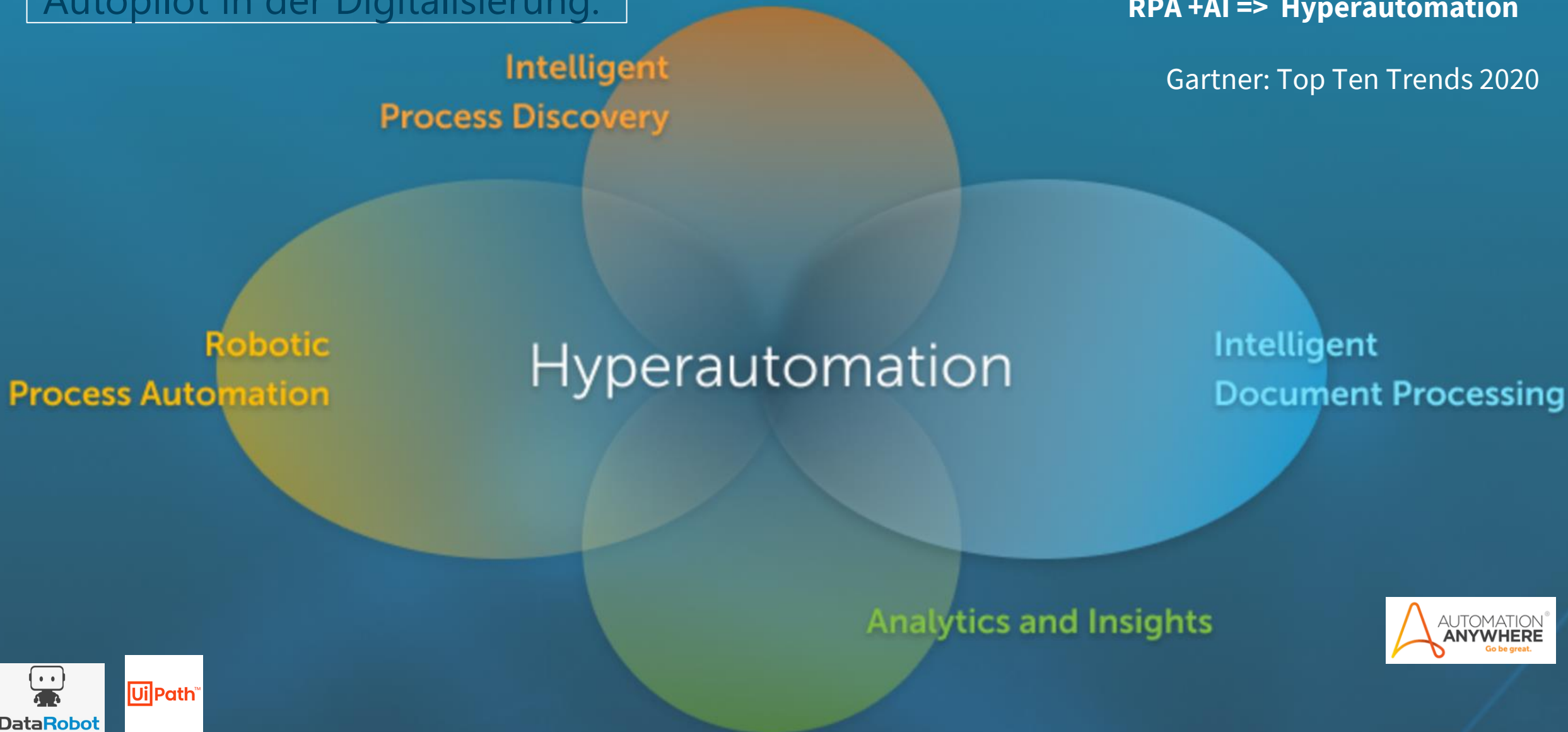


Source: Deloitte 2017

Autopilot in der Digitalisierung:

RPA +AI => Hyperautomation

Gartner: Top Ten Trends 2020



Benefits of Hyperautomation

Current automation tools aim to alleviate employees from mundane, time-consuming tasks that don't positively contribute to their experience or make the best use of their time.

Workforce enablement

Harnessed with the power of hyperautomation solutions, employees are able to automate the many processes within their role, and get more done, faster, with the resources available to them. Minimizing manual tasks enables them to focus on more impactful work, like planning and strategy.

Employee upskilling

With automation no longer reliant solely on IT, any business user can become an automation leader within their own department, benefiting both tech- and non tech-minded employees.

Systems integration

With hyperautomation, a company's clunky on-prem technology and disparate data systems can communicate seamlessly with the power of integrations.

Digital agility

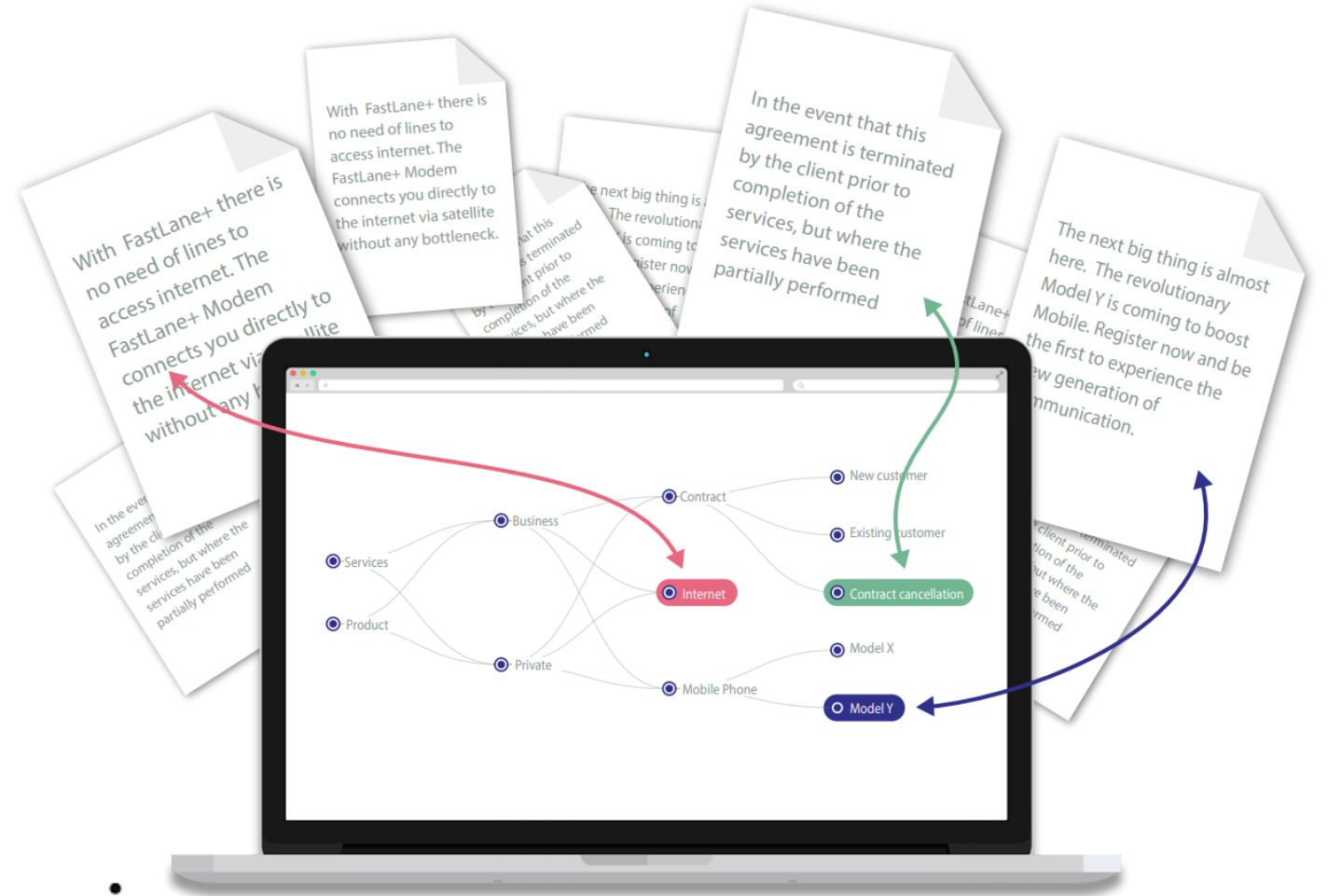
With all forms of automation working closely together, your company can move past the one-off benefits of a single technology to a state of true digital agility and flexibility at scale.

ROI

Using key analytics, businesses can track the exact ROI realized based on the processes automated, departments optimized, and time and money saved on a weekly, monthly and yearly basis.

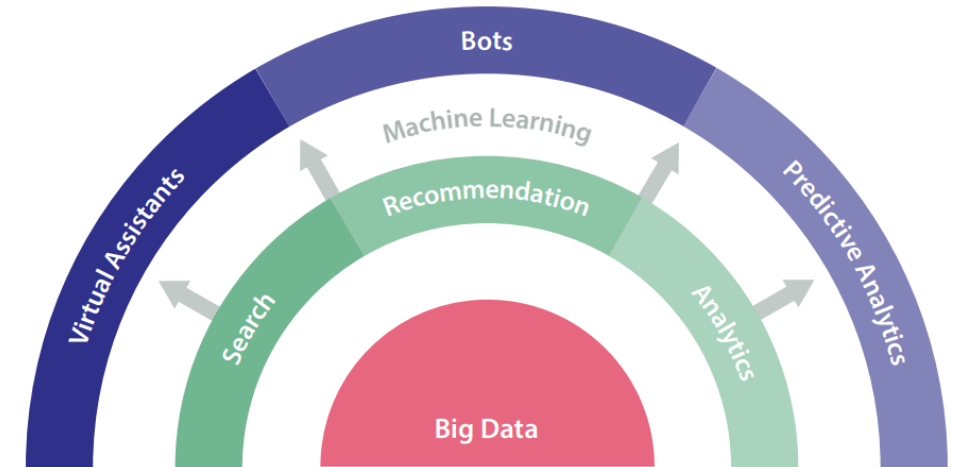
Enterprise Knowledge Graph

2012 Google



Semantic AI: ML und Ontologien

Semantisches Wissen, Prozesswissen,
Orchestrierung, Augmentierung



- Towards self optimizing machines:

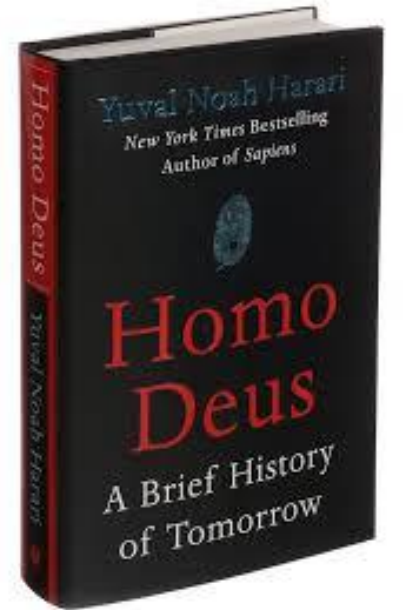
Semantic AI is the next-generation Artificial Intelligence. Machine learning can help to extend knowledge graphs (e.g., through ‘corpus-based ontology learning’ or through graph mapping based on ‘spreading activation’), and in return, knowledge graphs can help to improve ML algorithms (e.g., through ‘distant supervision’). This integrated approach ultimately leads to systems that work like self optimizing machines after an initial setup phase, while being transparent to the underlying knowledge models. Graph Convolutional Networks promise new insights.

Hyperautomation:
Hyperobservation?

Augmentation validiert
Verhalten.

Digital Leadership?

Digitale Souveränität



Digitaler Assistent der Produktion

- KI basierte Klassifikation der Ist-Situation
- Semantisches Informationsmodell mit Ortsbezug
- Sprachinterface: Bot
- Google Glas als Visual Interface
- interaktive Störungsbehebung, Wartung, Dokumentation



KI4KMU F&E Projekt

 **Continental**
TEMIC

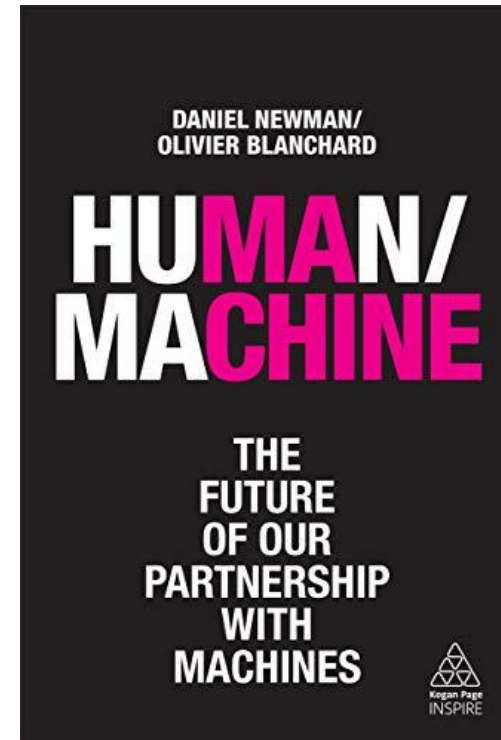
 **picavi**
THE WAY TO PICK

 **Sympalog**
VOICE SOLUTIONS

 KATHOLISCHE UNIVERSITÄT
EICHSTÄTT-INGOLSTADT

 **th**
Technische Hochschule
Ingolstadt

Bücher:



Ancud iT

The image features the text "Ancud iT" centered on a green background. The word "Ancud" is in white, and "iT" is in white text inside a green square. A white curved line sweeps across the bottom right of the image.