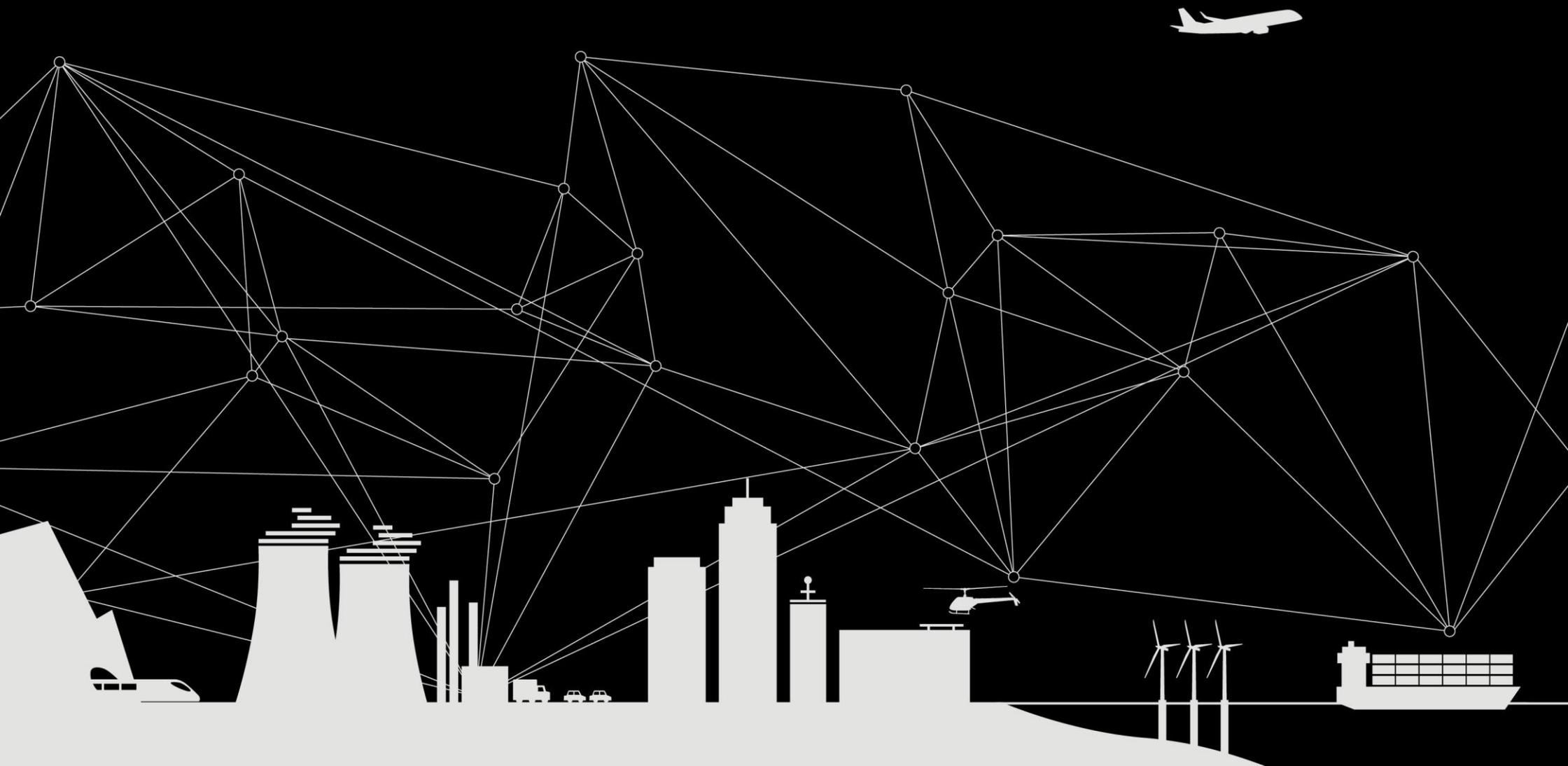




DIGITALE INFRASTRUKTUREN





“Every business will become a software business, build applications, use advanced analytics and provide SaaS services.”

- Satya Nadella

6 #EmergingTechnologies advancing in 2019

Drones



Air- or water-based devices and vehicles, for example, Unmanned Aerial Vehicles (UAV), that fly or move without an onboard human pilot. Drones can operate autonomously (via on-board computers) on a predefined flight plan or be controlled remotely.

Example Use Cases

- Insurance claim validation
- Precision farming
- Infrastructure inspections
- Railway safety
- Cargo delivery
- Construction site management
- Forestry management
- Facility inspection (wind turbine, oil rig, etc)



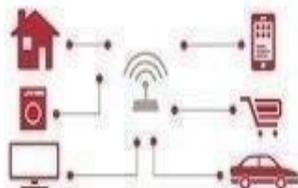
Internet of Things (IoT)



Network of objects – devices, vehicles, etc. – embedded with sensors, software, network connectivity and compute capability, that can collect and exchange data over the Internet. IoT enables devices to be connected and remotely monitored or controlled. The term IoT has come to represent any device that is now “connected” and accessible via a network connection. The Industrial IoT is a subset of IoT and refers to its use in manufacturing and industrial sectors.

Example Use Cases

- Inventory and material tracking
- Real-time asset monitoring
- Connected operational intelligence
- Customer self-service
- Usage and performance benchmarking
- Data integration and analytics
- Connected service parts management
- Remote service
- Real time market insights
- Flexible billing and pricing models



Robots



Electro-mechanical machines or virtual agents that automate, augment or assist human activities, autonomously or according to a set of instructions – often a computer program.

Example Use Cases

- Manufacturing
- Hazardous industries
- Hotels and tourism
- Service industry
- Automation of predictable tasks
- Data management



Virtual reality (VR)



Computer-generated simulation of a three dimensional image or a complete environment, within a defined and contained space, that viewers can interact with in realistic ways. VR is intended to be an immersive experience and typically requires equipment, most commonly a helmet/headset.

Example Use Cases

- Immersive journalism
- Virtual workplaces
- Manufacturing/product design
- Architecture & construction
- Education&training
- Big data management
- Entertainment
- Healthcare
- Merchandising



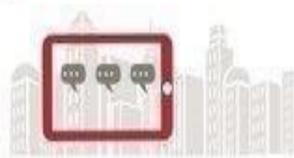
Augmented Reality (AR)



Addition of information or visuals to the physical world, via a graphics and/or audio overlay, to improve the user experience for a task or a product. This “augmentation” of the real world is achieved via supplemental devices that render and display said information.

Example Use Cases

- Virtual showrooms
- Education
- Travel and tourism
- Gaming
- Printing and advertisers
- Retail environments
- Marketing



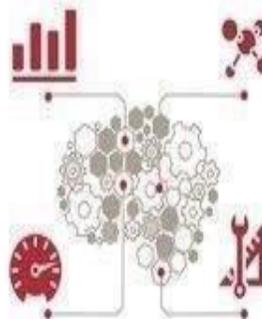
Artificial intelligence (AI)



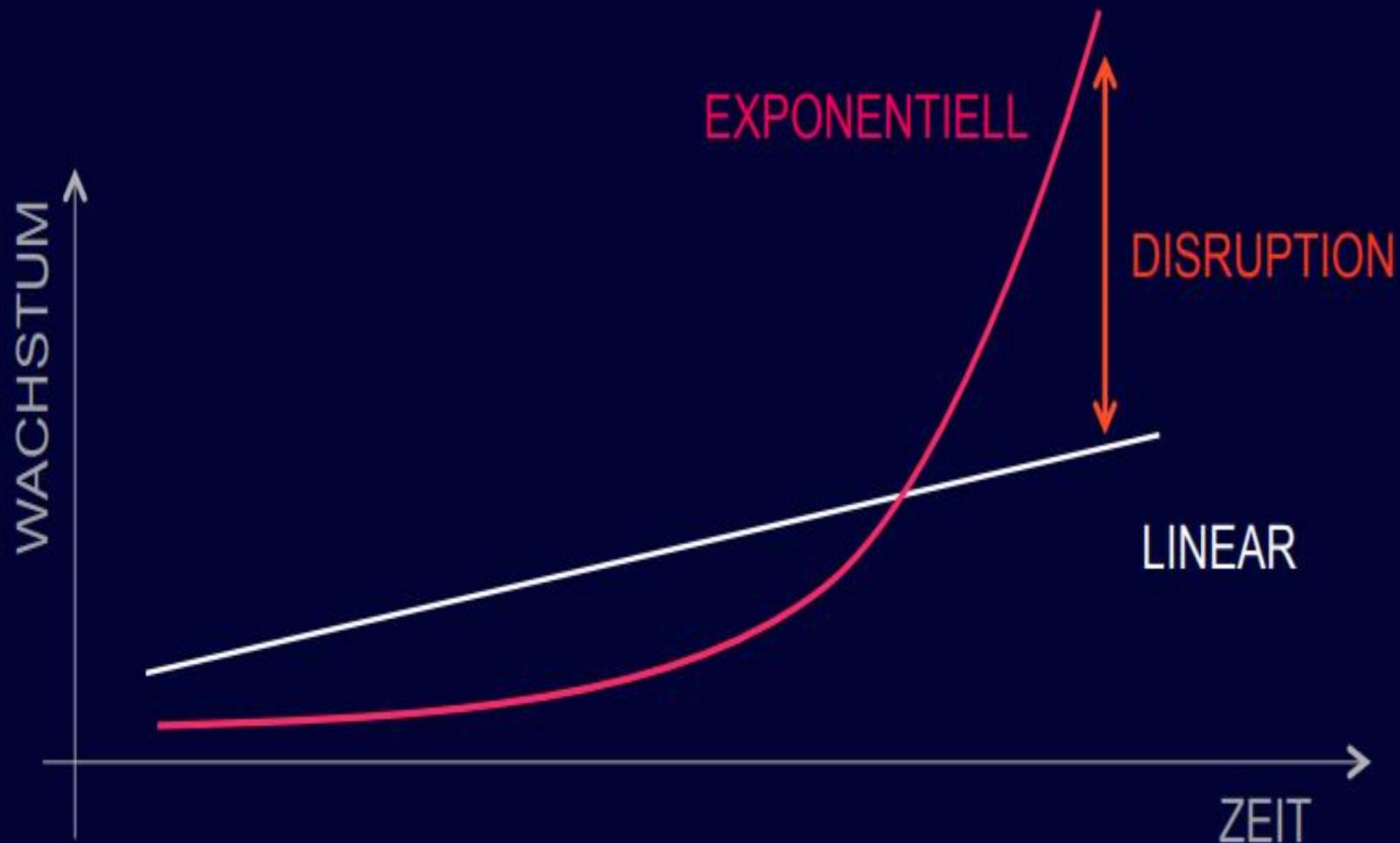
Software algorithms that are capable of performing tasks that normally require human intelligence, such as visual perception, speech recognition, decision-making and language translation. AI is an “umbrella” concept that is made up of numerous subfields, such as machine learning, which focuses on the development of programs that can teach themselves to learn, understand, reason, plan, and act (i.e. become more intelligent) when exposed to new data in the right quantities.

Example Use Cases

- Managing personal finances
- Trading systems
- Real time fraud and risk management
- Automated virtual assistants
- Underwriting loans and insurance
- Customer support, transactions and helpdesks
- Data analysis and advanced analytics



Exponentielle Entwicklung verstehen

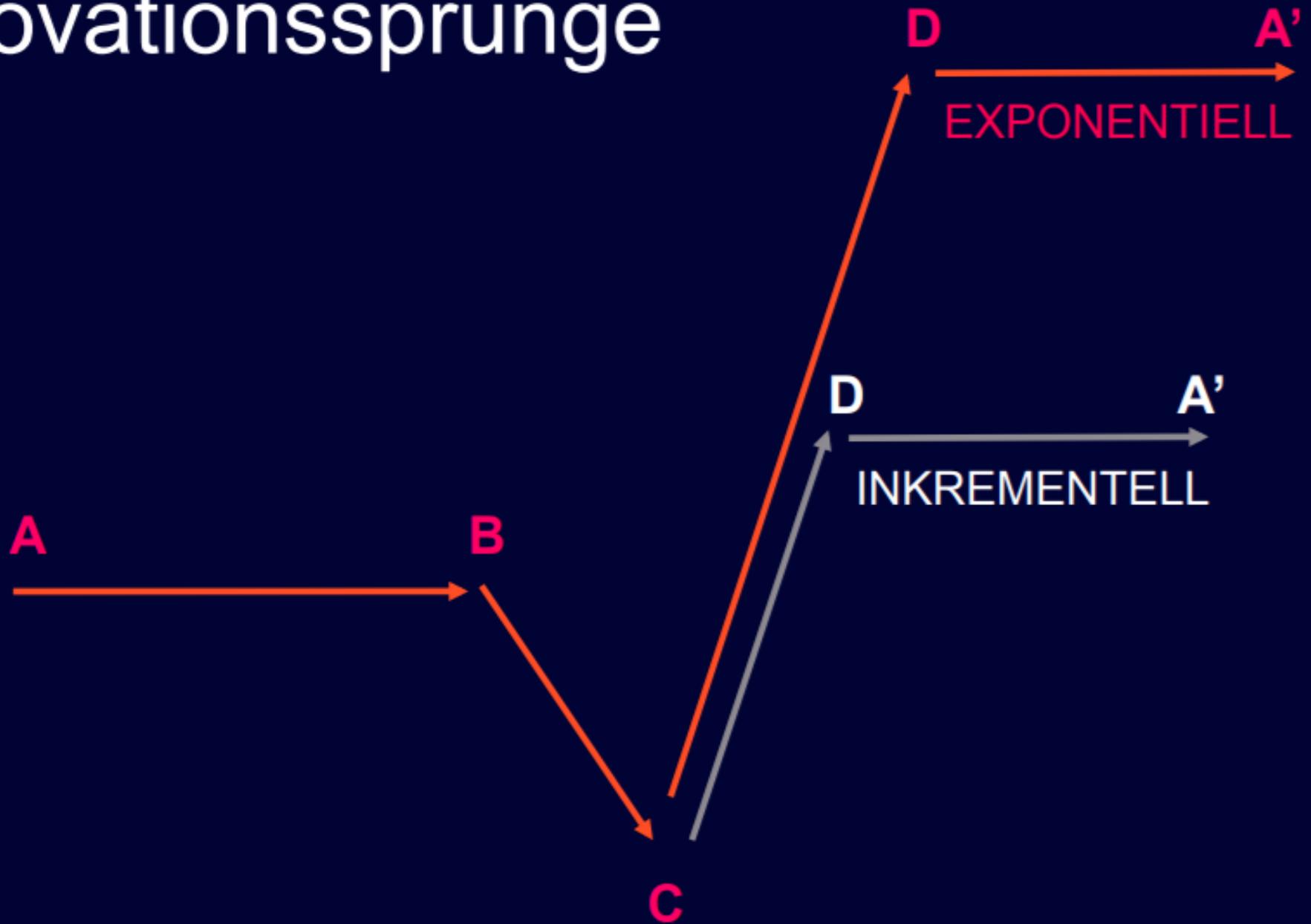


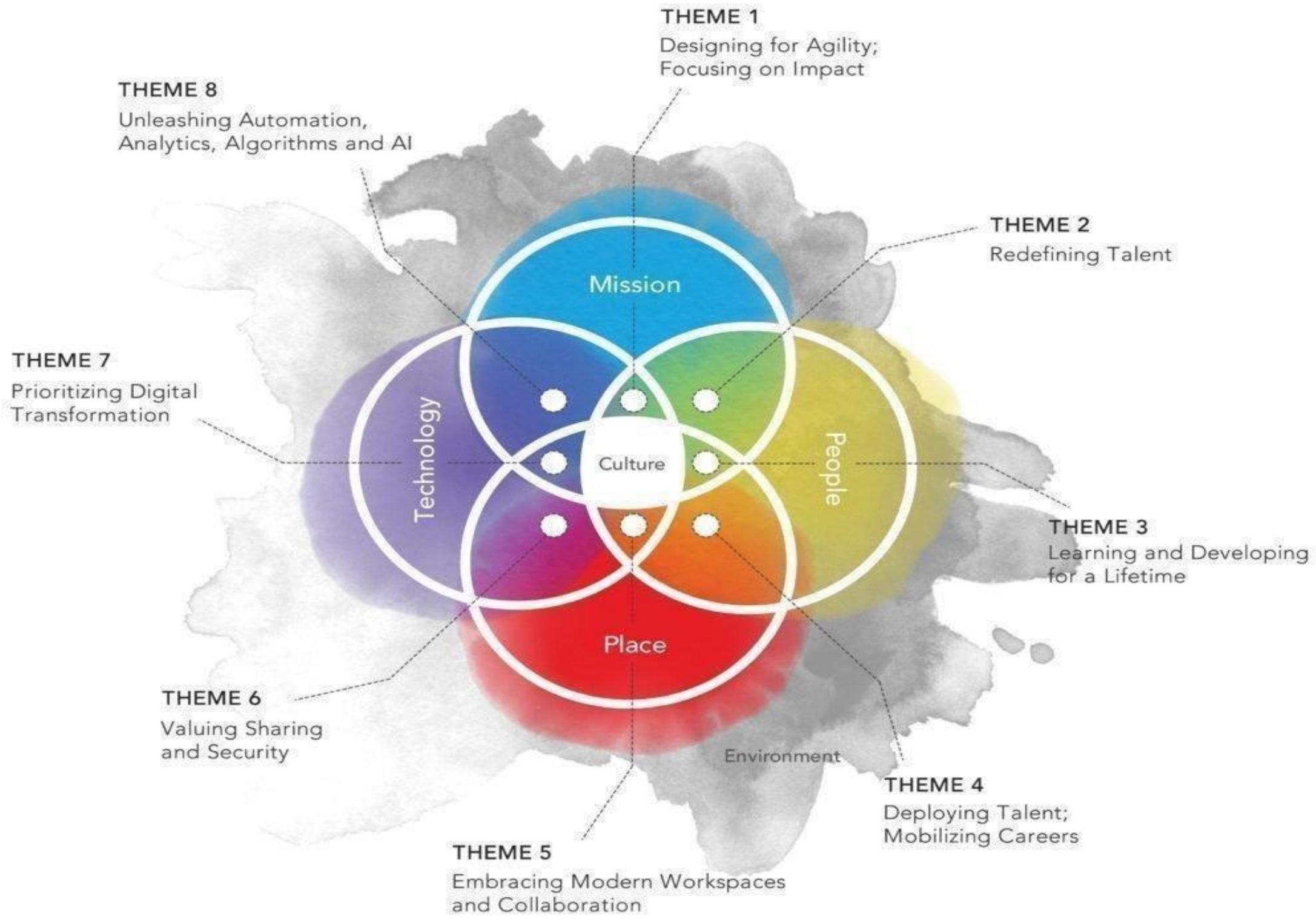
Exponentielle Entwicklung verstehen

- 1. Beschleunigende Wachstumserträge
- 2. Start: ambitioniert und unsicher
- 3. Wachstum: mutig und geduldig
- 4. Expansion: 10x und wertgetrieben

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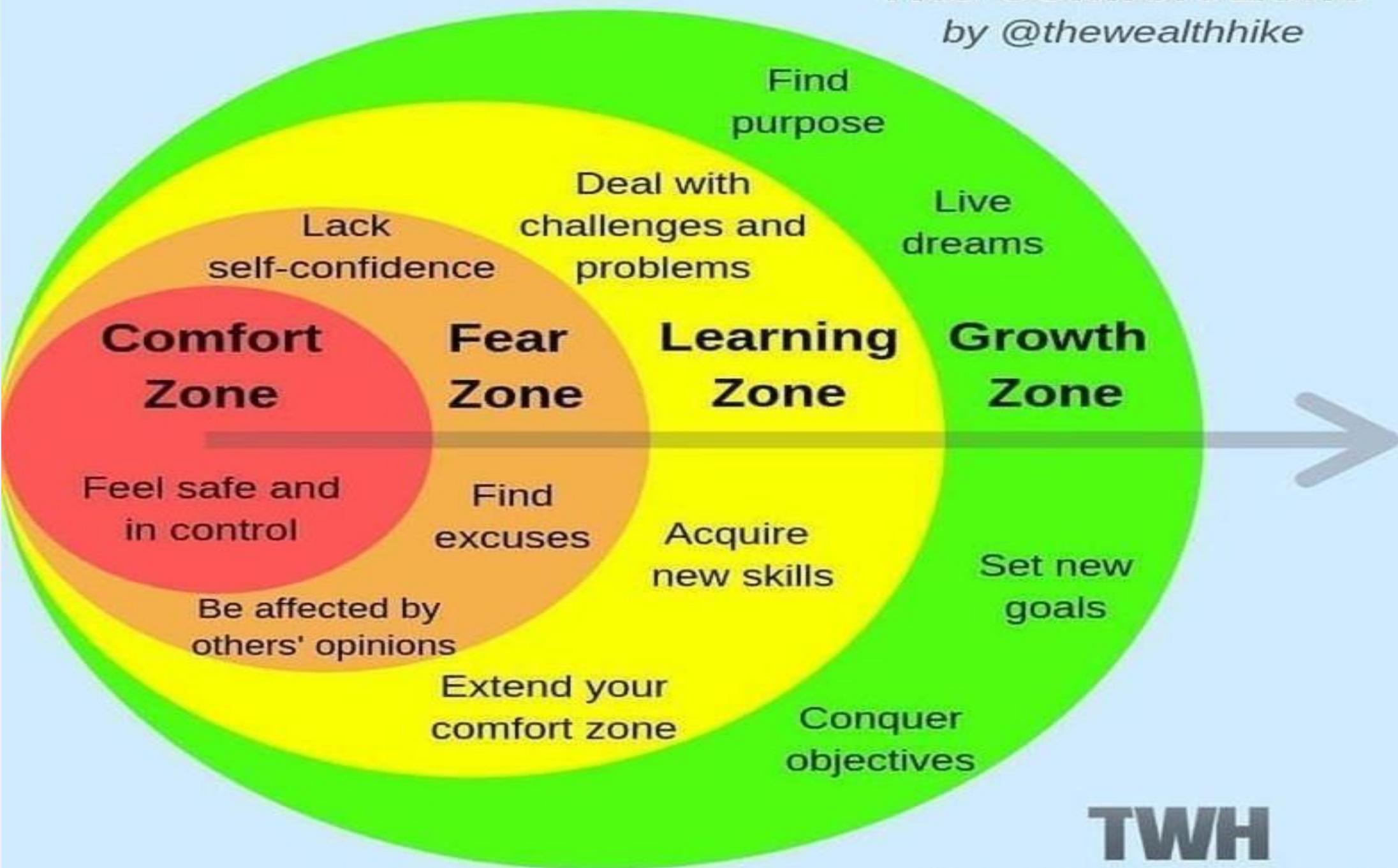
Innovationssprünge





"The Comfort Zone"

by @thewealthhike



TWH

www.thewealthhike.com

AI

Structured Learning
für automatisierte
Zusammenhänge

PRÄVENTIVE SICHERHEIT
INTELLIGENTE ASSISTENZ



IOT

Big Data &
Smart Data
am Arbeitsplatz

PERSONALISIERTE GEBÄUDENUTZUNG



GA

Steuerung
Infrastruktur

SENSOREN / LÜFTUNGSANLAGE / SCHALTSCHRANK / MODBUS
GEBÄUDEAUTOMATION / BIG DATA / SMART DATA / STRUCTURED LEARNING



SMART BUILDING GEBÄUDEAUTOMATION



Smart Building Provider – die Transformation der Gebäudeautomation

Um die Transformation von der Gebäudeautomation hin zu einem Smart Building Provider zu vollziehen, gilt es, bei funktionalen Gebäuden wie Büroimmobilien, Einkaufszentren, Logistikimmobilien oder gar Grossbahnhöfen und Flughäfen einen Hauptfokus auf eine intelligente Vernetzung mittels des «Internet of Things» zu legen.

[LESEN →](#)



Engagement
Unser Einsatz

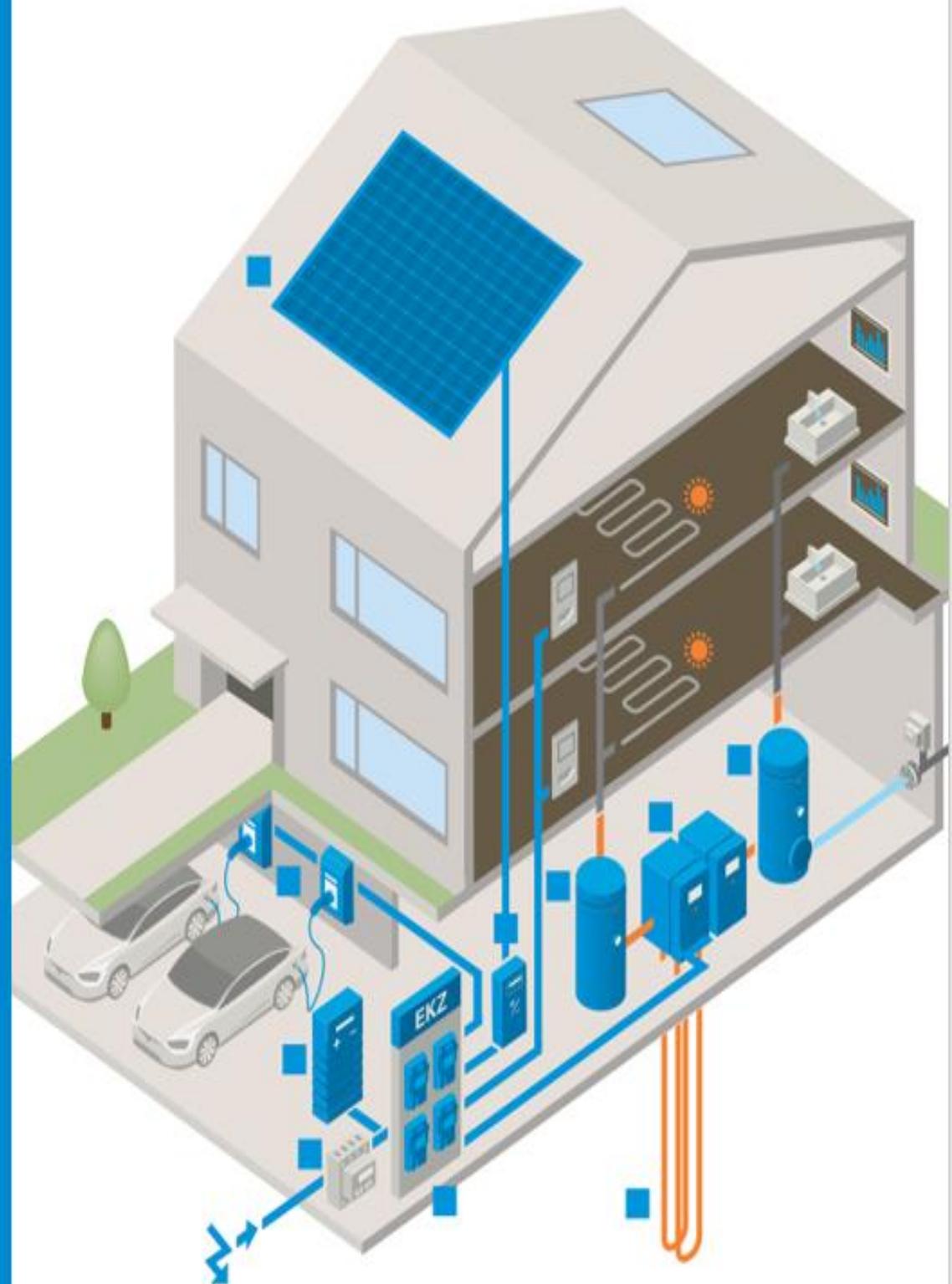
EKZ

Energiecontracting

Grösser denken – Energien bündeln

05. März 2019

Adrian Staudenmaier



Digital Challenges

Bedürfnisse der Kunden nach Daten abdecken

- Diverse Leitsysteme und Datenquellen kombinieren
- Historische Daten verschiedener Systeme bündeln
- Daten aufbereiten
- Kunden einfachen Zugang zu seinen Daten geben



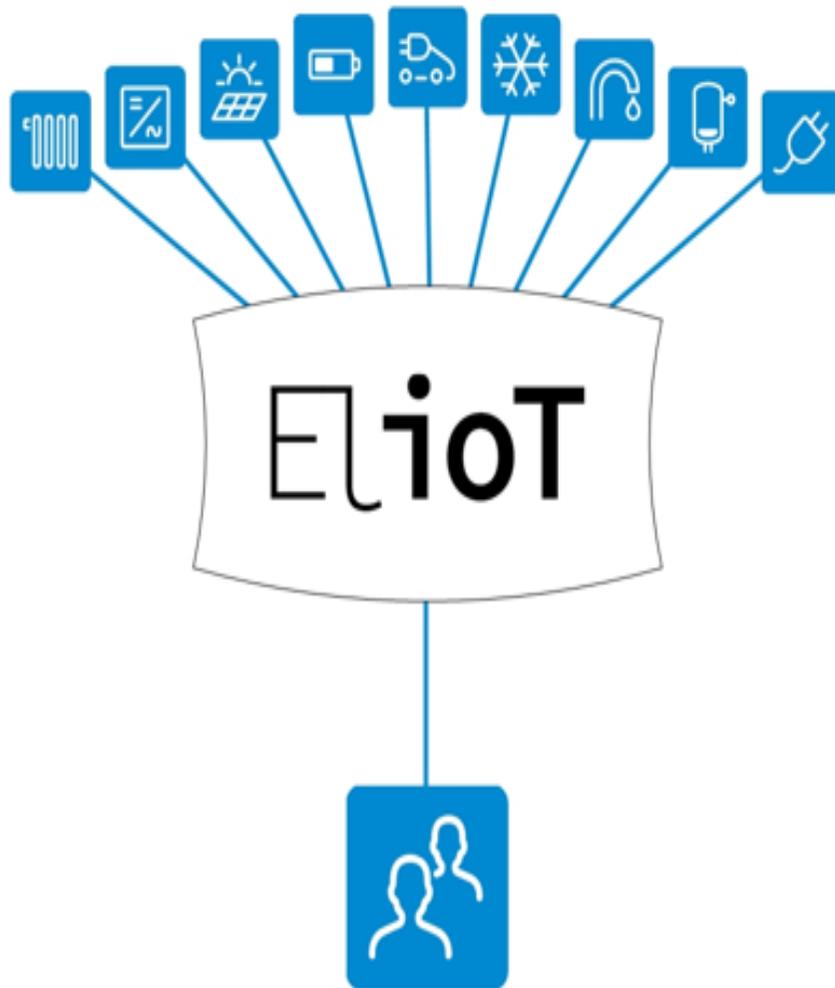
Grösser Denken

Plattform für eine gute Kundenbindung

- Übersicht aller Anlagen - auch über Maps
- Simple Darstellung der Daten
- Einfache Bedienung
- Auswertungen selber erstellen

- Datenquellen unabhängig und mühelos konfigurieren

Umsetzung mit ElioT



- Mit Leicom Energien bündeln
 - Schnittstellen zu unseren System sind vorhanden
 - Darstellung der Daten nach unseren Wünschen
 - Skalierbares Benutzermanagement
 - Optimales Kundenerlebnis

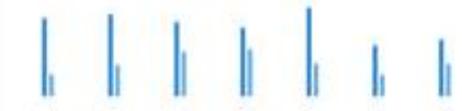
EKZ Projekt EKZ

2

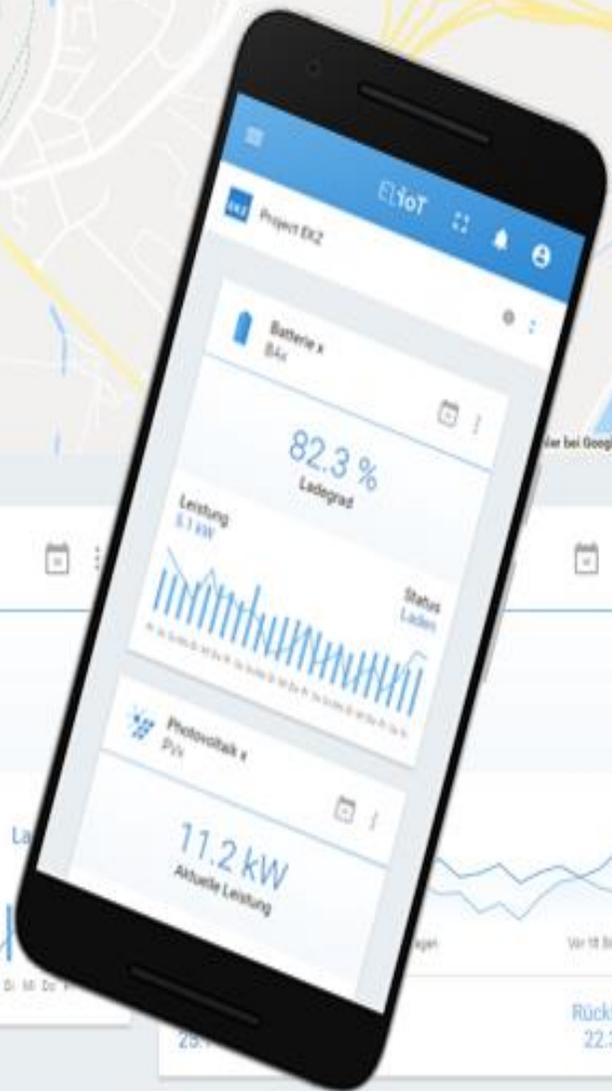
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EKZ
Ladekreis

1

EKZ
NutzerkreisBatterie x
BAx82.3 %
LadegradLeistung
5.1 kWStatus
LadenPhotovoltaik x
PVx11.2 kW
Aktuelle LeistungEnergie gestern
23.2 kWhEigenverbrauch gestern
19.4 kWhE-Ladestation x
ESx25.1 kW
LeistungEnergie
22.3 kWh

Sankey

Kessel x Betrieb
KEx-BKessel x Betrieb
KEx-B



Vielen Dank für Ihre Aufmerksamkeit

**Wir treffen uns zur live Demo
Ausstellung: Stand Nr. 4
EKZ + Leicom**