

European focus on retail has been steadily agnostic of technology developments, ...





Delivers goods with trusted quality

Delivers technology as a scalable platform

Source: Statistisches Bundesamt, Wiesbaden (2017-2018)

..., while other geographies are profiting from tech-driven platform offerings





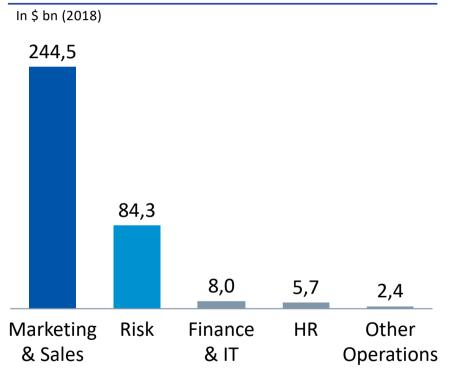


All companies with a clear focus on tech and retail, except a single European company are focusing on B2B

Banking in a platform world profits with the multi-faceted application of data and AI with correct skills and roles



Estimated impact of AI in global banking



Top 3 business area - Impact



- From 2016-30 about 50% more machine driven tasks
 - Technical understanding and emotional skills becomes more important for humans

Source: McKinsey Global Institute analysis

Al implementation is not only done by GAFAs

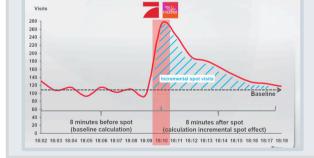


Customer targeting



Media Analytics - (offline)
viewership data combined with
(online) pixel data to personalize
offering for higher conversion
and sales revenue





Risk reduction



Tariff calculation for **reduced risk** by **identifying** high accident-prone **customer groups**



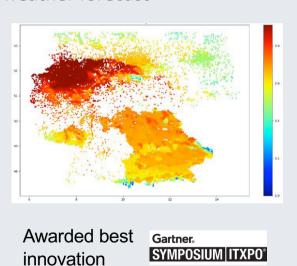




Customer service



Pre-reserved **repair services** for customer based on **building damage prediction** derived from weather forecast



Starting on an Al journey begins with a pit-stop for data strategy



Framework for data strategy

Data Strategy



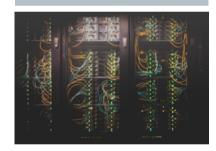
Derive from overarching business strategy

Use Cases



Ensure
 efficiencies and
 enable new
 revenue streams

Data Architecture (incl. sourcing)



Ensure execution based on appropriate data

Delivery Capabilities

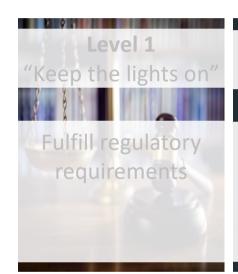


Build skills in business and in IT/ technology

Source: Best Practice examples

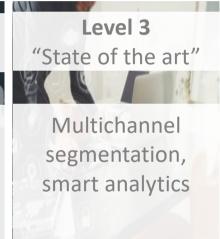
Concrete data strategy defined for retail banking globally to achieve ambitiously targets in 2020 ...

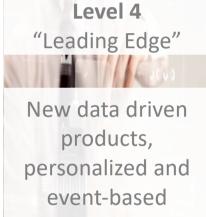




Level 2 "Basic service" Existing products

Existing products via channel-specific segmentation

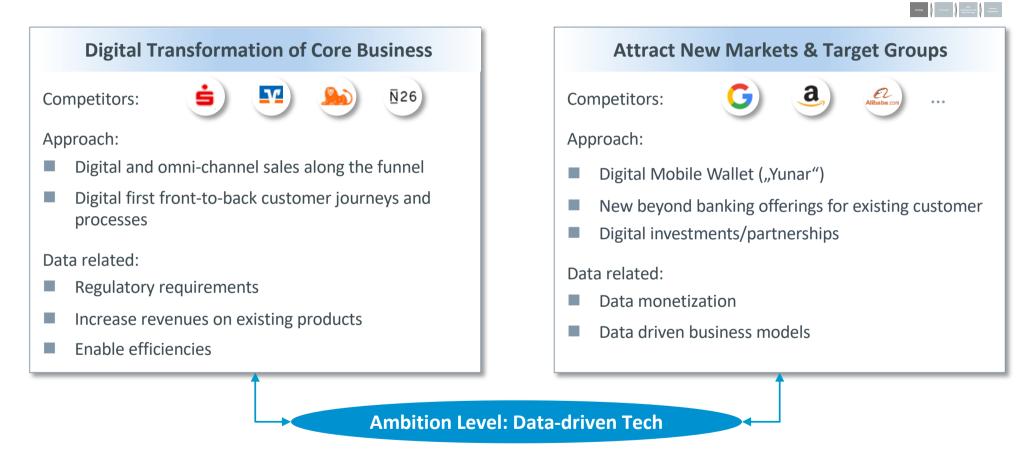






Digital strategy provides the cornerstones for a business-driven data strategy in a platform world





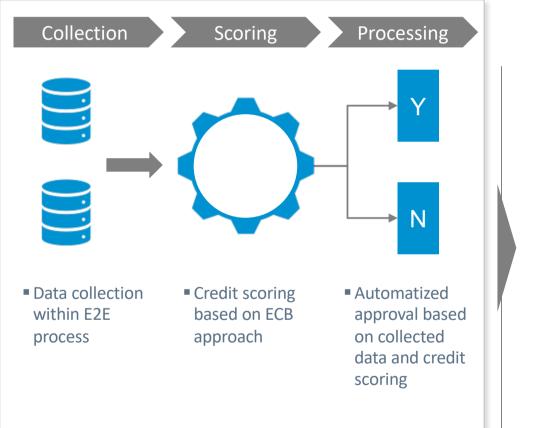


Level 4 Transform the Core: Digitalisation and automatization of consumer finance business





- E2E-automated process
- Video legitimation/ Digital signature and document upload
- Realtime third-party account analysis
- Straight-Through-Processing



+36% YoY

Avg. 12k volume

45% rejection rate



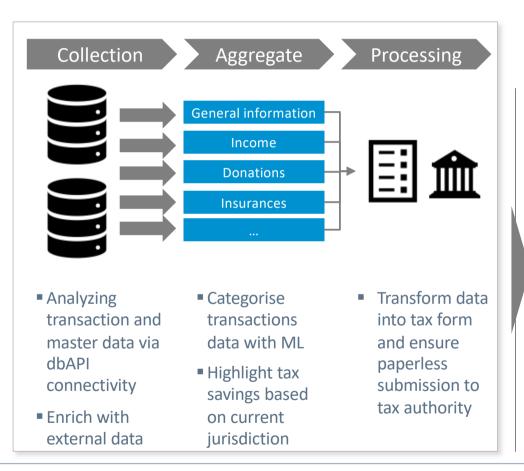


Level 5 Becoming a platform: Complete your tax declaration directly in your browser or via app





- Prefilled tax declaration by analysing bank account data
- Automatically categorization of tax relevant data
- Submit documents digitally to tax authority



Simplify tax data collection

Up to 80% of relevant data prefilled¹

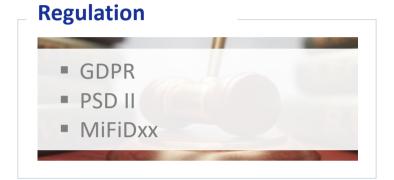
Data as key to fulfill digital tax process

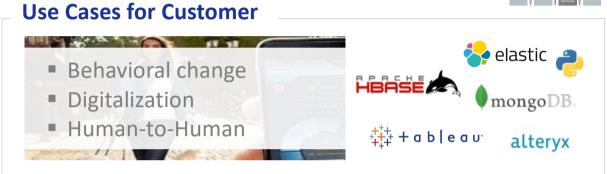


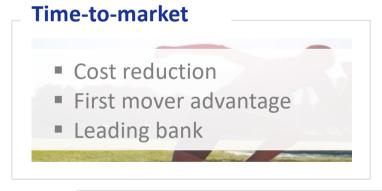
1) in dependency to complexity of single tax use case

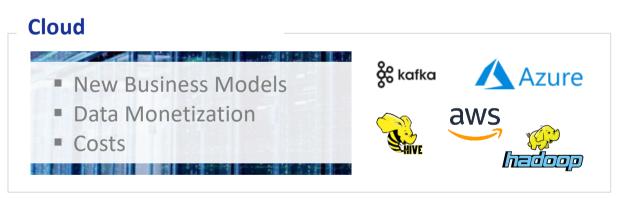
Best practice data architecture and capabilities enables use cases and adheres to data regulations









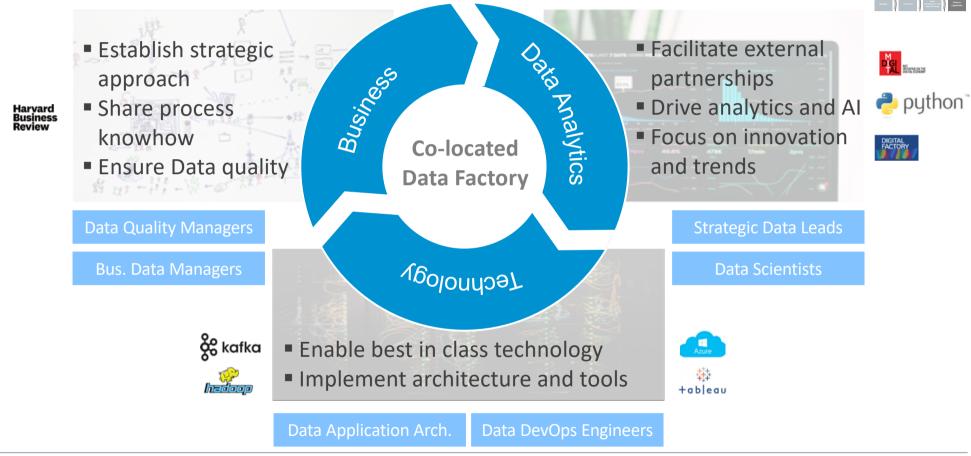




Business-driven data factory with co-located IT and business data experts

New co-located data factory leading to sustainable implementation of use cases and data-driven business models





Unlock internal and external requirements to ensure and measure success of a data driven business model approach



Own value

Customer

Radical changed customer behavior – bank customers ready for GAFA offer

Employees

Significant impact on existing jobs and skill sets

Ethics

Important to comply with fundamental rights (democratic and constitutional)

Boundary conditions

Regulation

PSD II: Fundamentally change competitive situation

GDPR: Significant change in control of data

Competitors

Digital challenger banks become "Unicorns"





More cooperation across sectors in EU needed for data pooling e.g. European Data Space

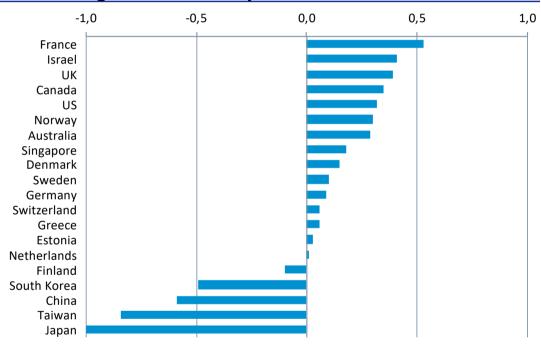
Further development of AI and data-driven models need to be monitored with correct definitions of Ethics



Moral machine decision based on MIT – Result shows average vote in country









Difficult to define one set of ethical & transparency guidelines across multiple geographies

Source: http://moralmachine.mit.edu; High-Level Expert Group on Artificial Intelligence

Takeaways



- **>>**
- Artificial intelligence has an immense impact on the financial industry the application has to be based on a case-by-case approach.
- All is reshaping the industry and therefore is leading to a transition of required skills which needs to be retrained in responsibility of companies
- Development and usage of AI must be derived from clear defined ethical principles and always be in humans hand