

SCALE WITH DATA MESH:

Mit IoT und Lakehouse in die datengetriebene Zukunft

- 1 ● ORAYLIS
- 2 ● Data Driven Company
- 3 ● IoT und MDWH im Data Mesh
- 4 ● Data Mesh im Cloud Adoption Framework
- 5 ● Was ist ihre Data Strategy?

AGENDA



IF YOU'RE WILLING TO LISTEN.

Wir begleiten Sie durch den Vortrag



Christoph

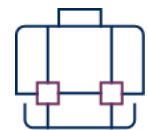
IoT Expert
c.epping@oraylis.de



Jens

Principal Solution Architect
j.kroehnert@oraylis.de

Gestalten Sie mit Ihren Daten die Zukunft



24 Jahre

Technologie- und
Projekterfahrung



18 Jahre

Microsoft Managed Partner, über
100 zertifizierte Consultants



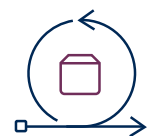
145 Talente

die Feuer und Flamme
für Ihre Datenlösung sind



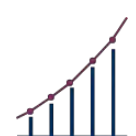
820 Projekte

in den Bereichen BI, Big Data,
IoT, Analytics & AI



100 Prozent agil

mit Teamansatz im Projekt
und flachen Hierarchien



15+ Prozent

organisches Wachstum
pro Jahr



4 Awards

von Great Place to Work beim alljährlichen
Vergleich der besten Arbeitgeber Deutschlands



100 Prozent

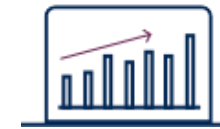
Fokus auf
unser Team!

Ihr Guide auf dem Weg zur Data Driven Company

Wir begleiten Sie von der Entwicklung Ihrer Datenstrategie bis zu Ihrer produktiven Datenlösung.



Datenstrategie



**Business Intelligence &
Data Analytics**



Künstliche Intelligenz



Internet of Things



Big Data Engineering

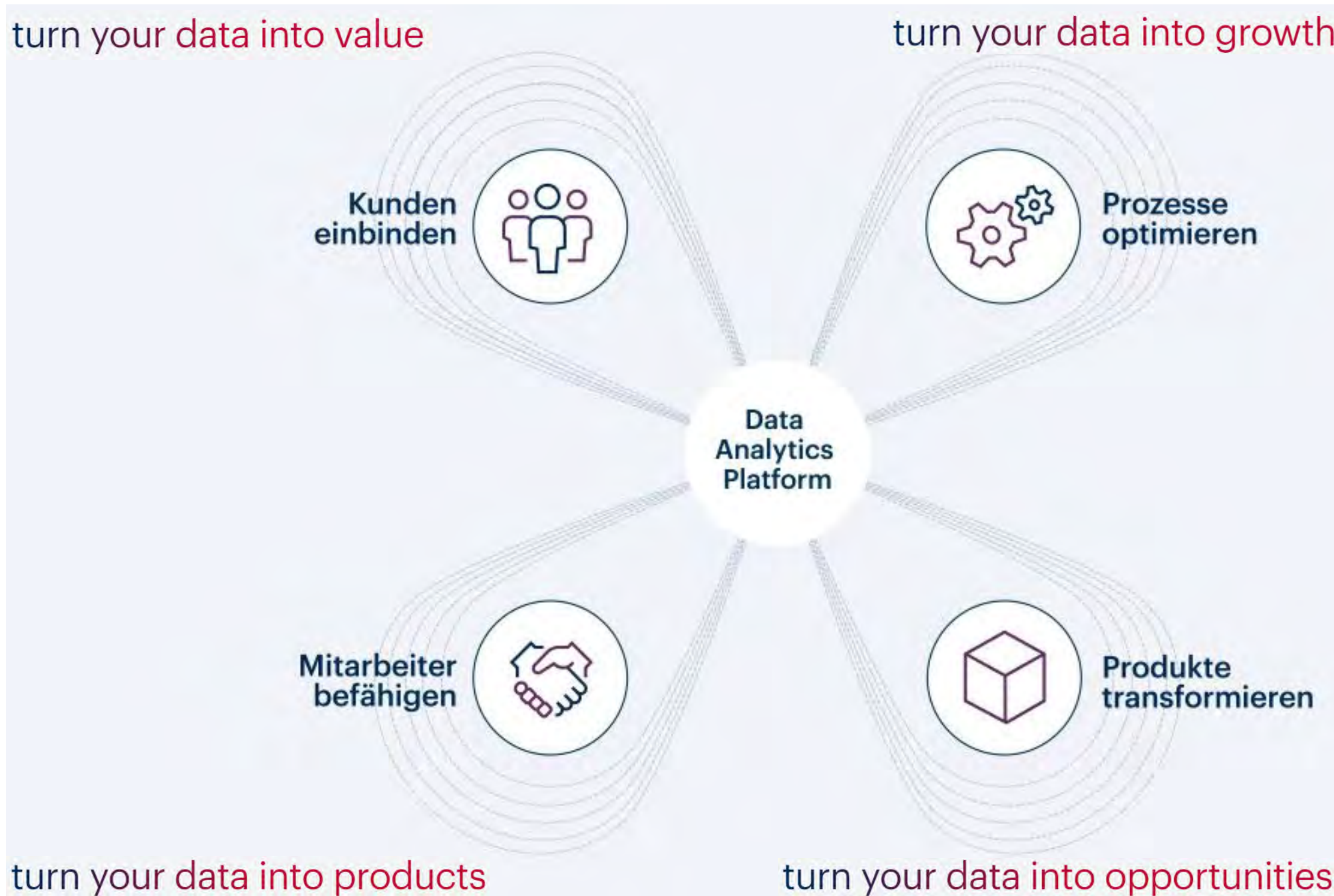


Projektmanagement

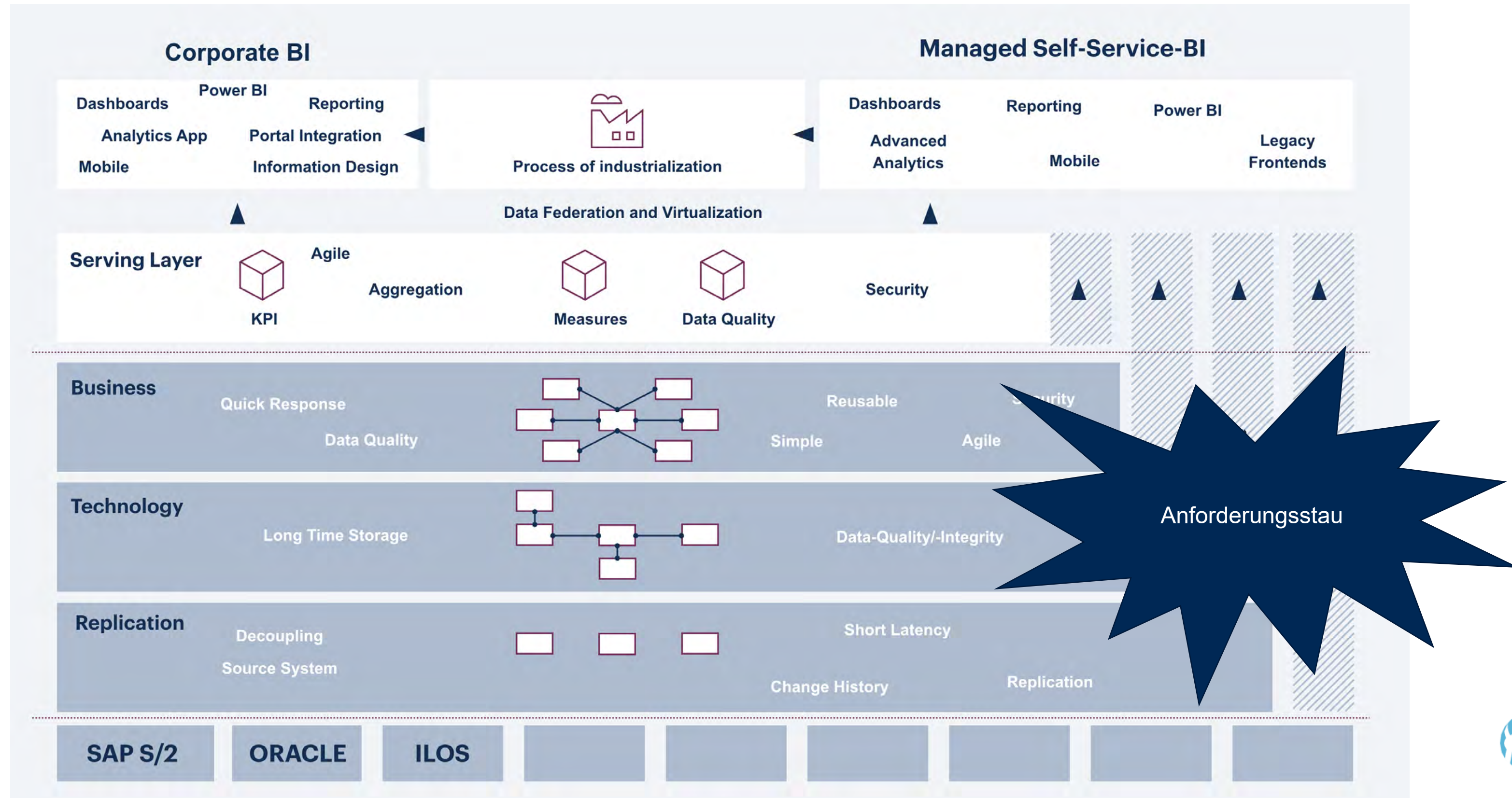


Operations

Digital Feedback Loops sind die Basis der Data Driven Company

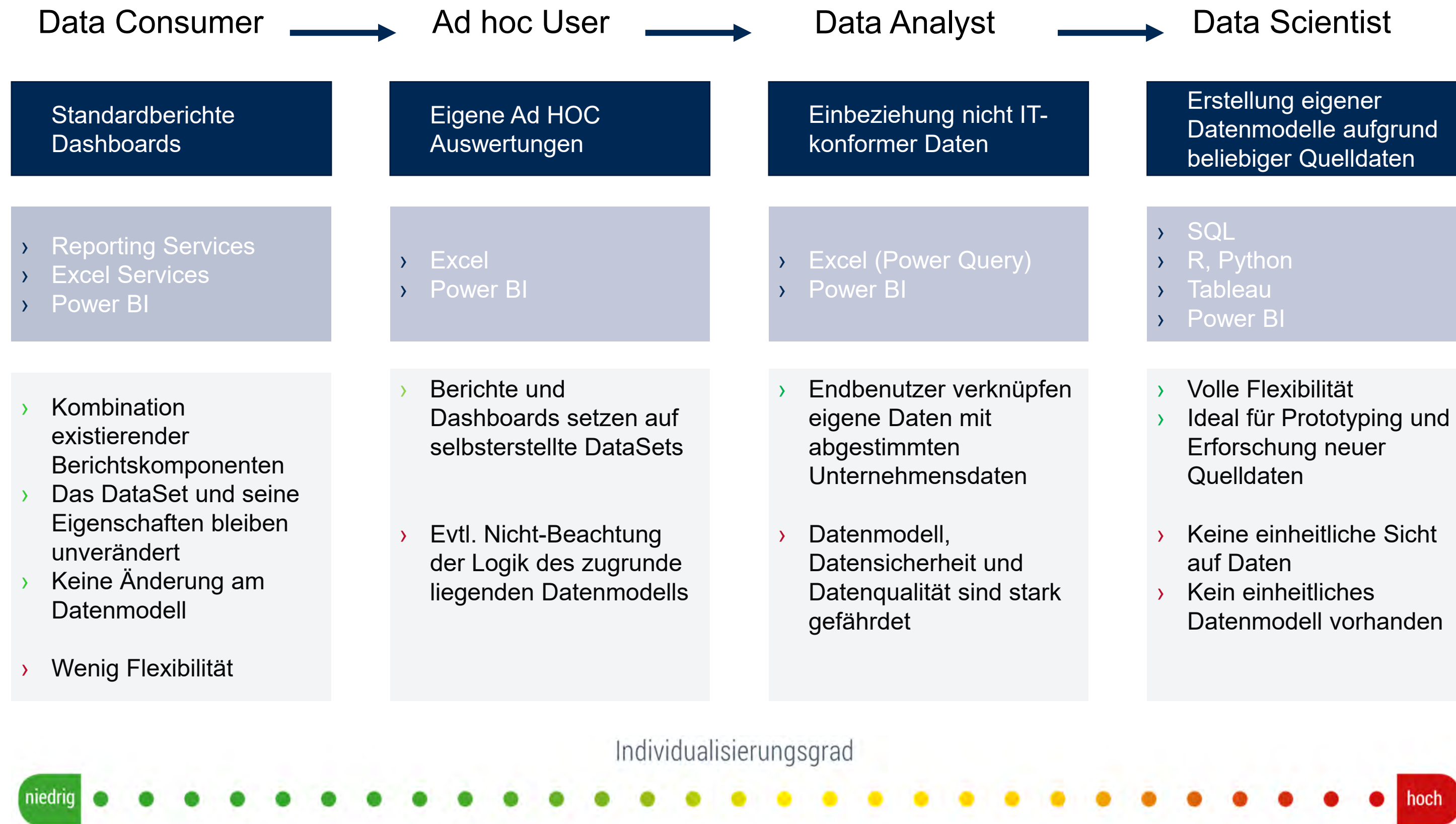


Architektur: DWH Schichten



BUSINESS INTELLIGENCE LAYER – CORPORATE BI VS MANAGED SELF-SERVICE

Self-Service Stufen

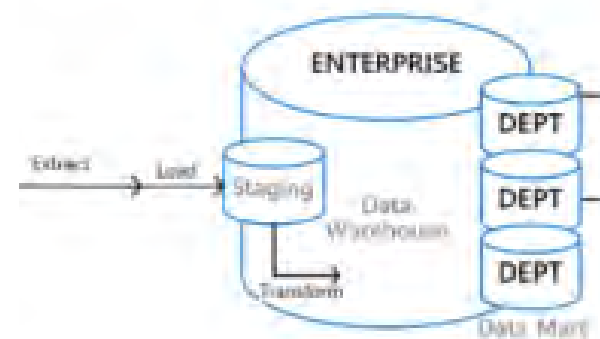


Data Analytics Evolution

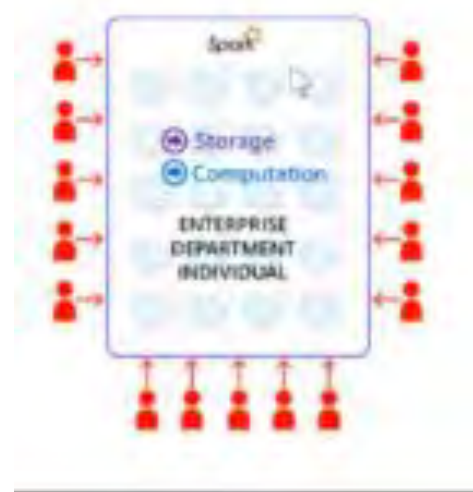
On-Premise



Cloud

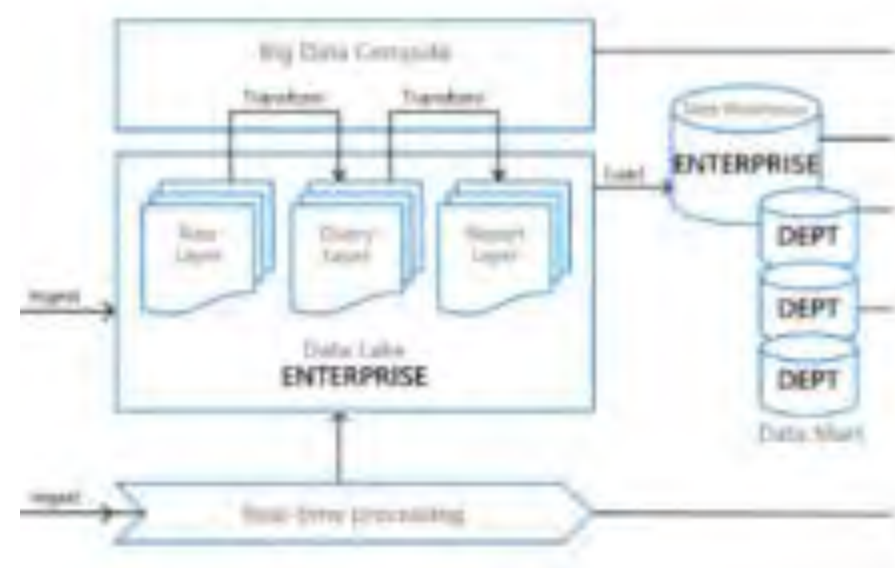


BI

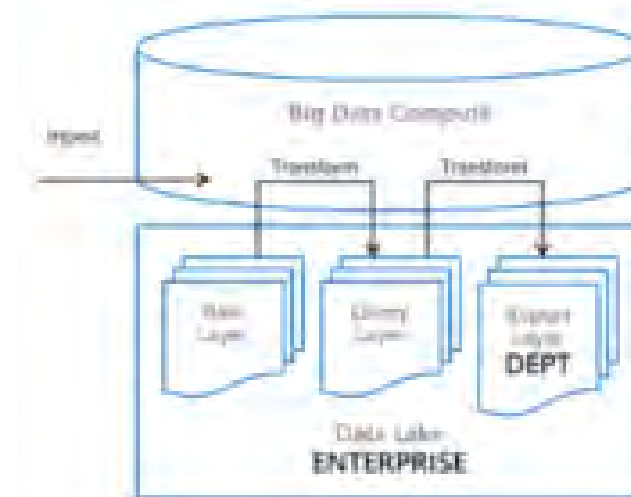


Big Data

Cloud Platform

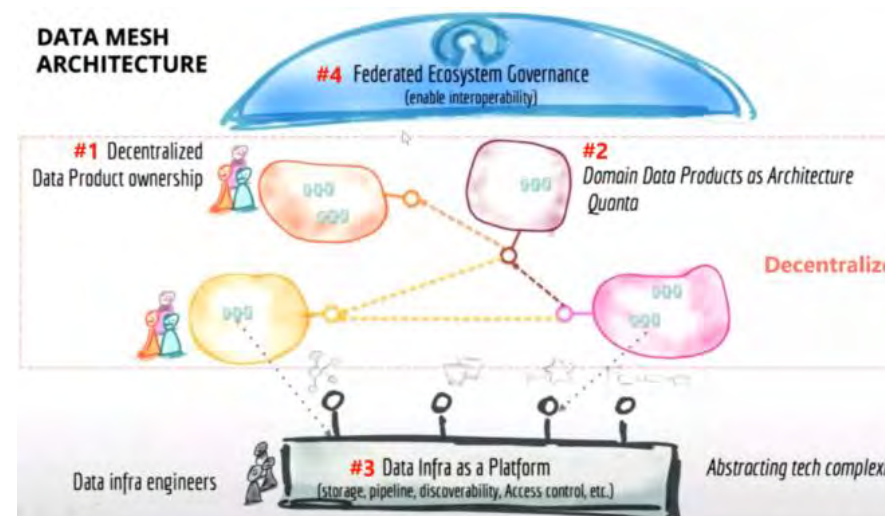


Lakehouse/Modern DWH



Centralized

Decentralized



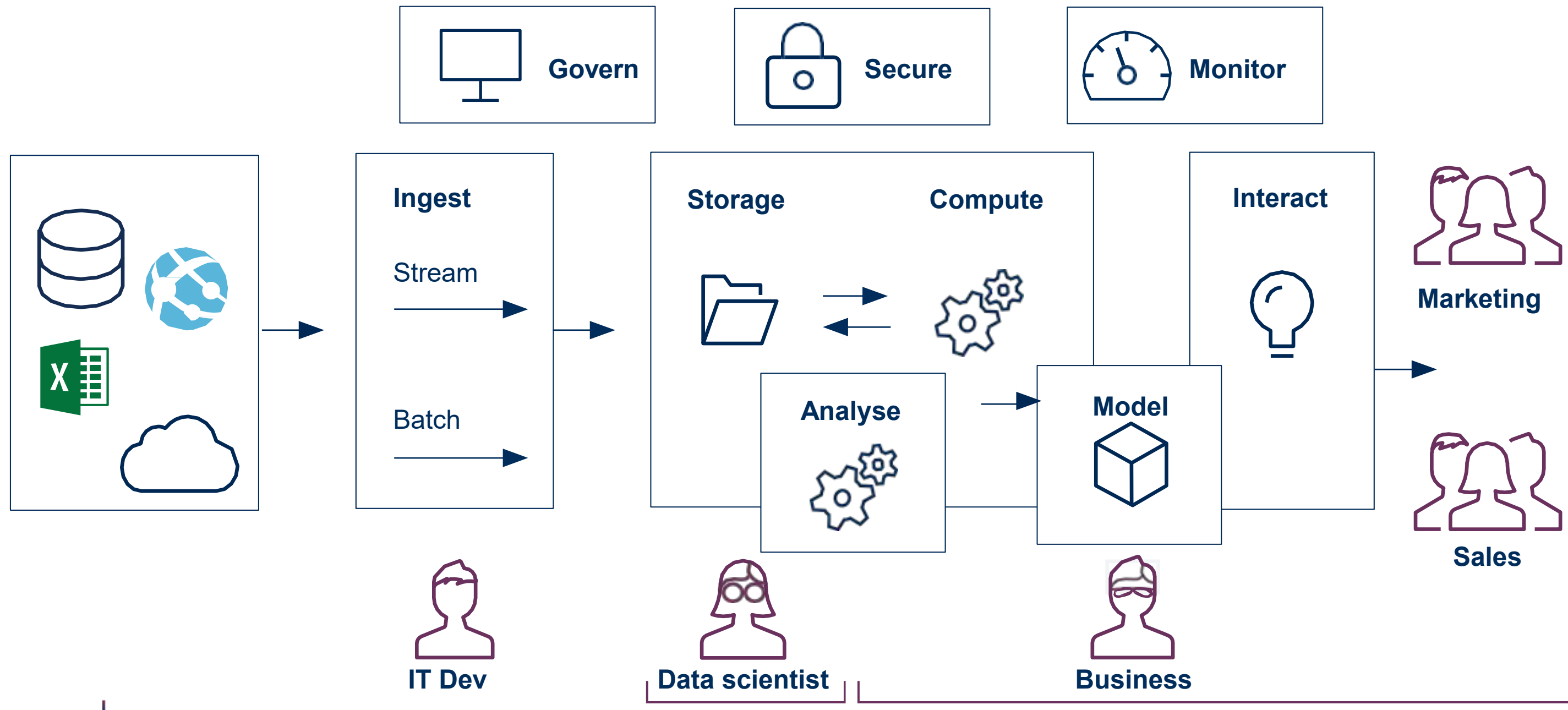
Data Mesh

Anforderungstau

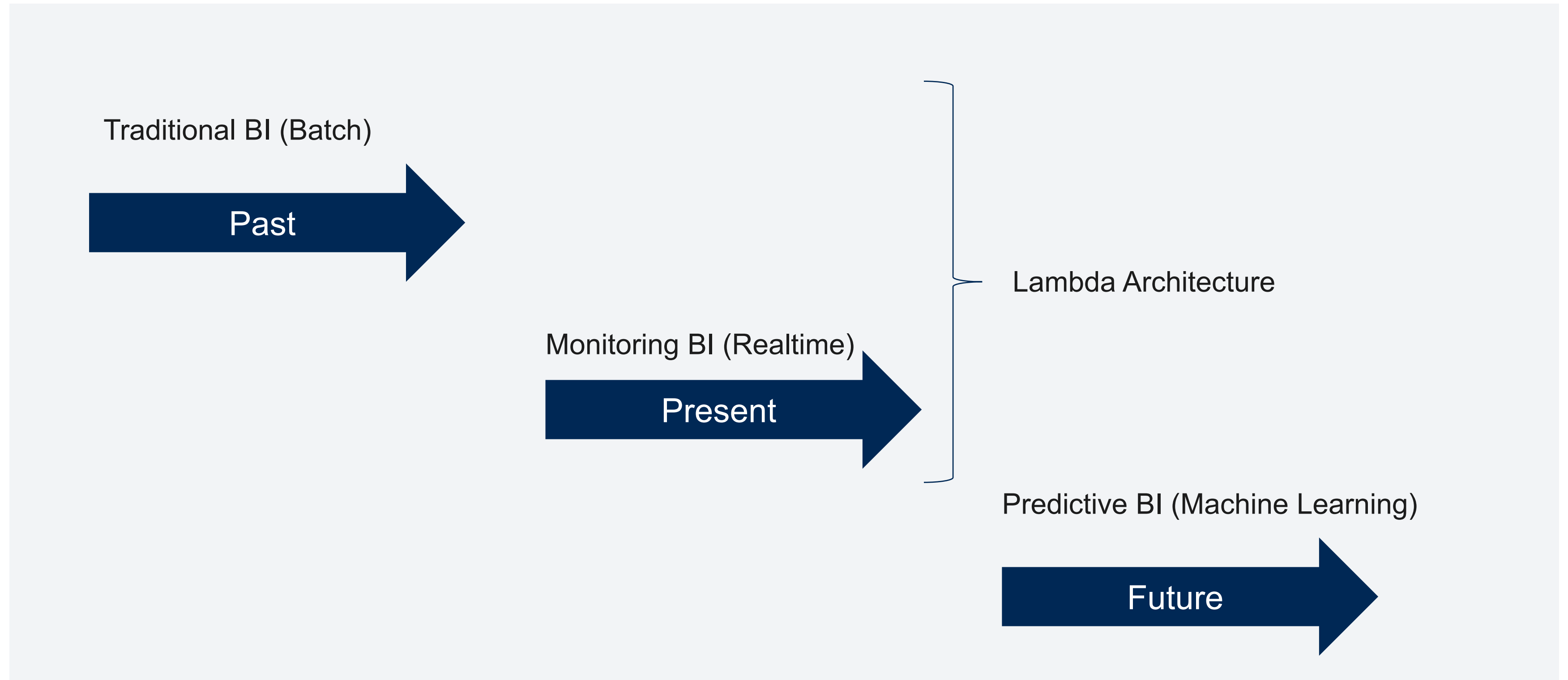


ORAYLIS

Modern Data Warehouse – Cloud und Data-Lake basiert



From Realtime to Predictive Enterprise



Adventure Works Example



- › fiktiver Fahrradhersteller und -verkäufer
- › Verkauf über Internet-Shop und Reseller
- › Produkte
 - › Bikes
 - › Accessories
 - › Clothing
 - › Components
- › Multinational

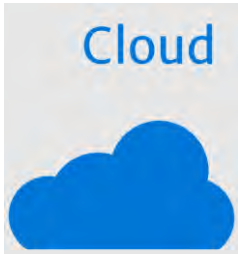
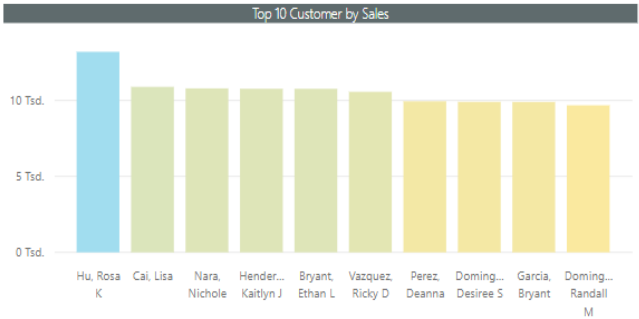
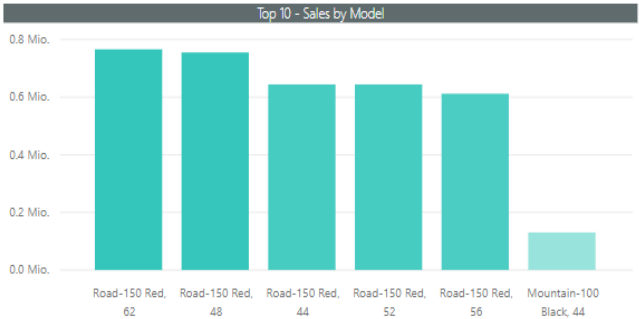


		Dimensions											
			Order Date	Ship Date	Delivery Date	Customer	Reseller	Promotion	Product	Sales Territory	PostingDate		
Facts	Priorität	Σ	2	2	2	2	2	3	3	3	1	0	
Internet Sales	1	7	1	1	1	1		1	1	1			
Reseller Sales	1	7	1	1	1		1	1	1	1			

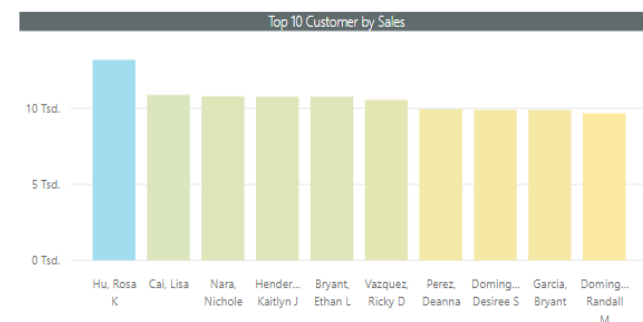
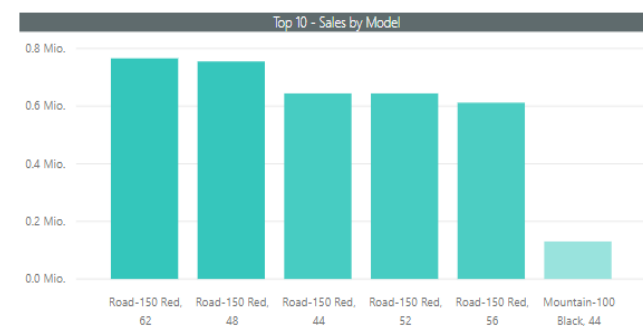
Evolution of Data Analytics



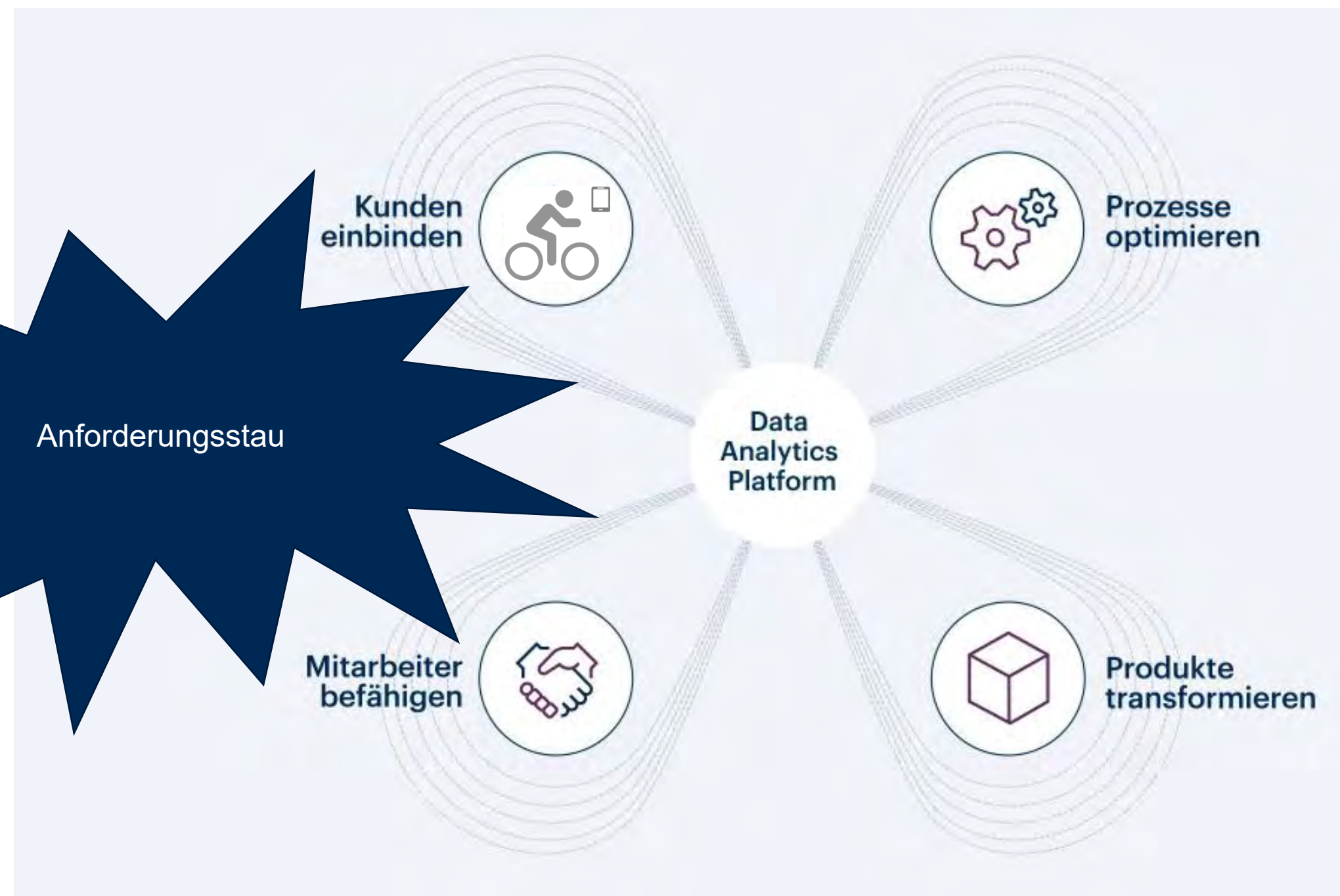
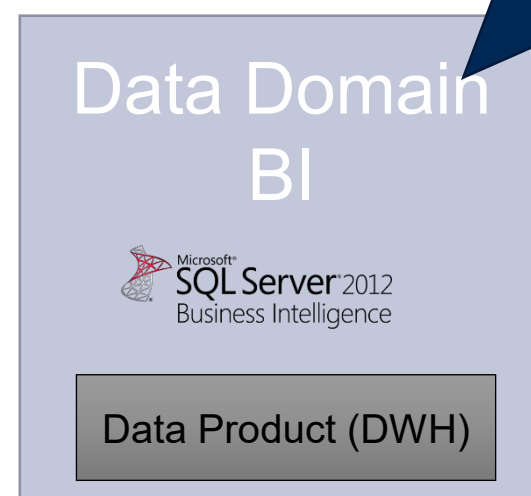
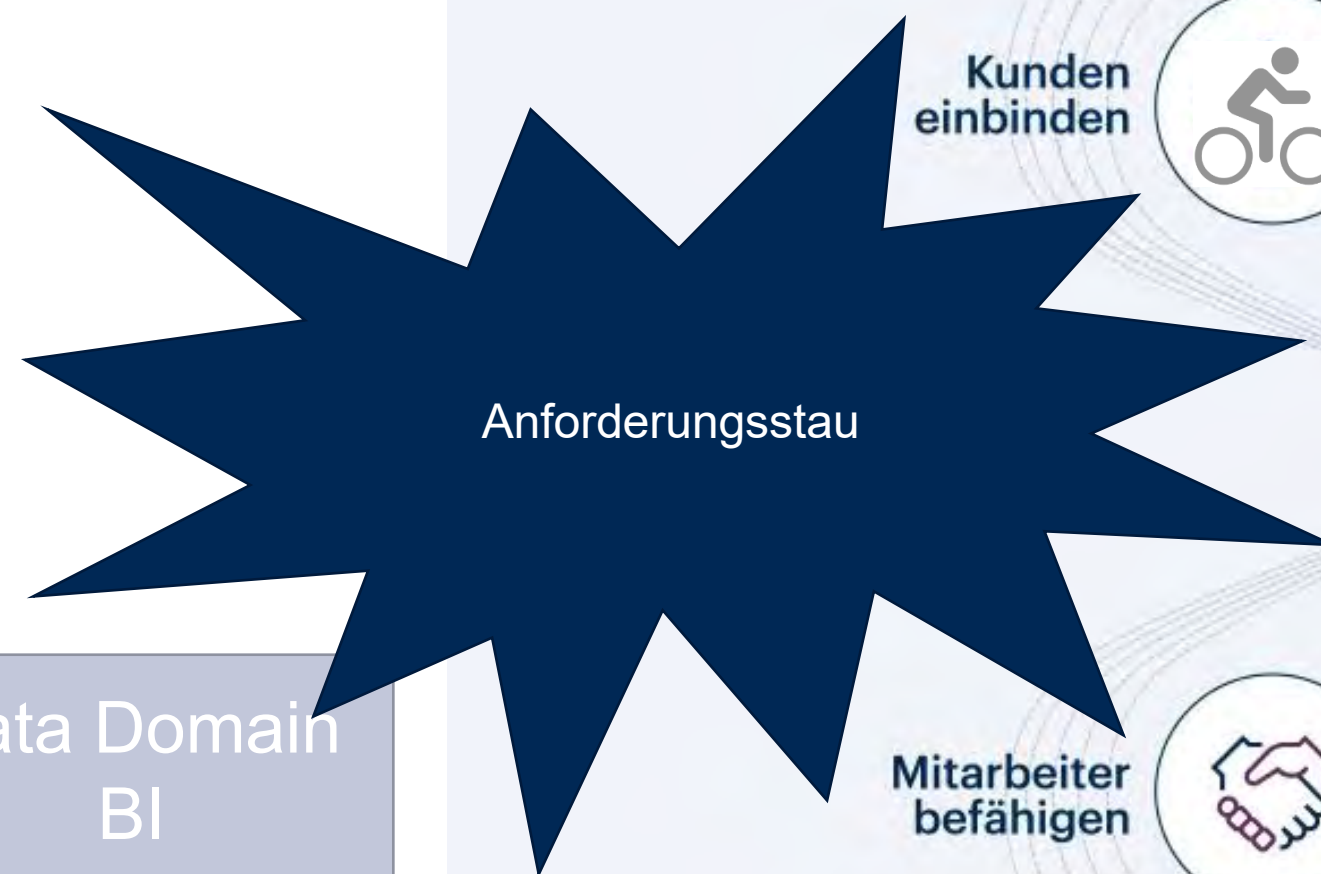
Slow IT
Data Warehouse



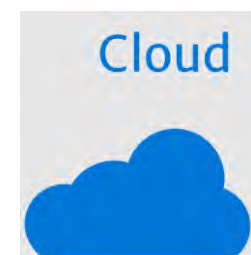
Evolution of Data Analytics



Slow IT
Data Warehouse



Cloud



On-Premise

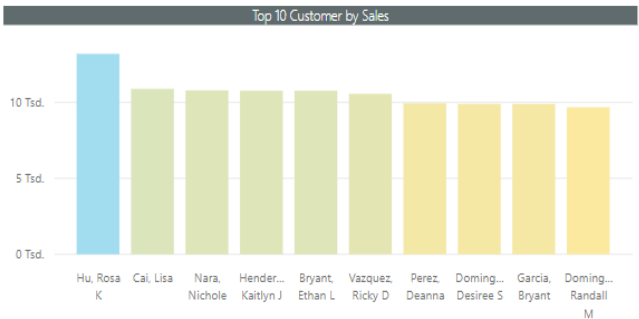
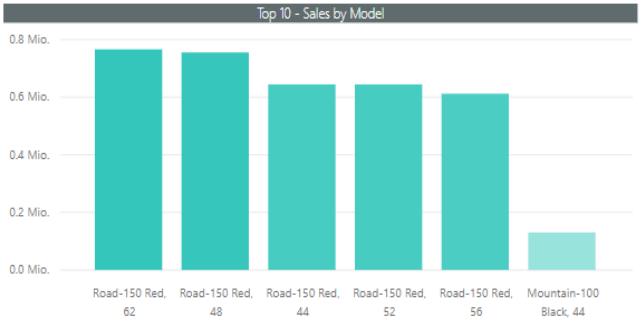


Evolution of Data Analytics



Slow IT
Data Warehouse

Fast IT
Golden DataSets



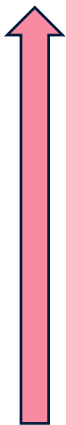
Data Domain
IoT/Big Data

DP
1

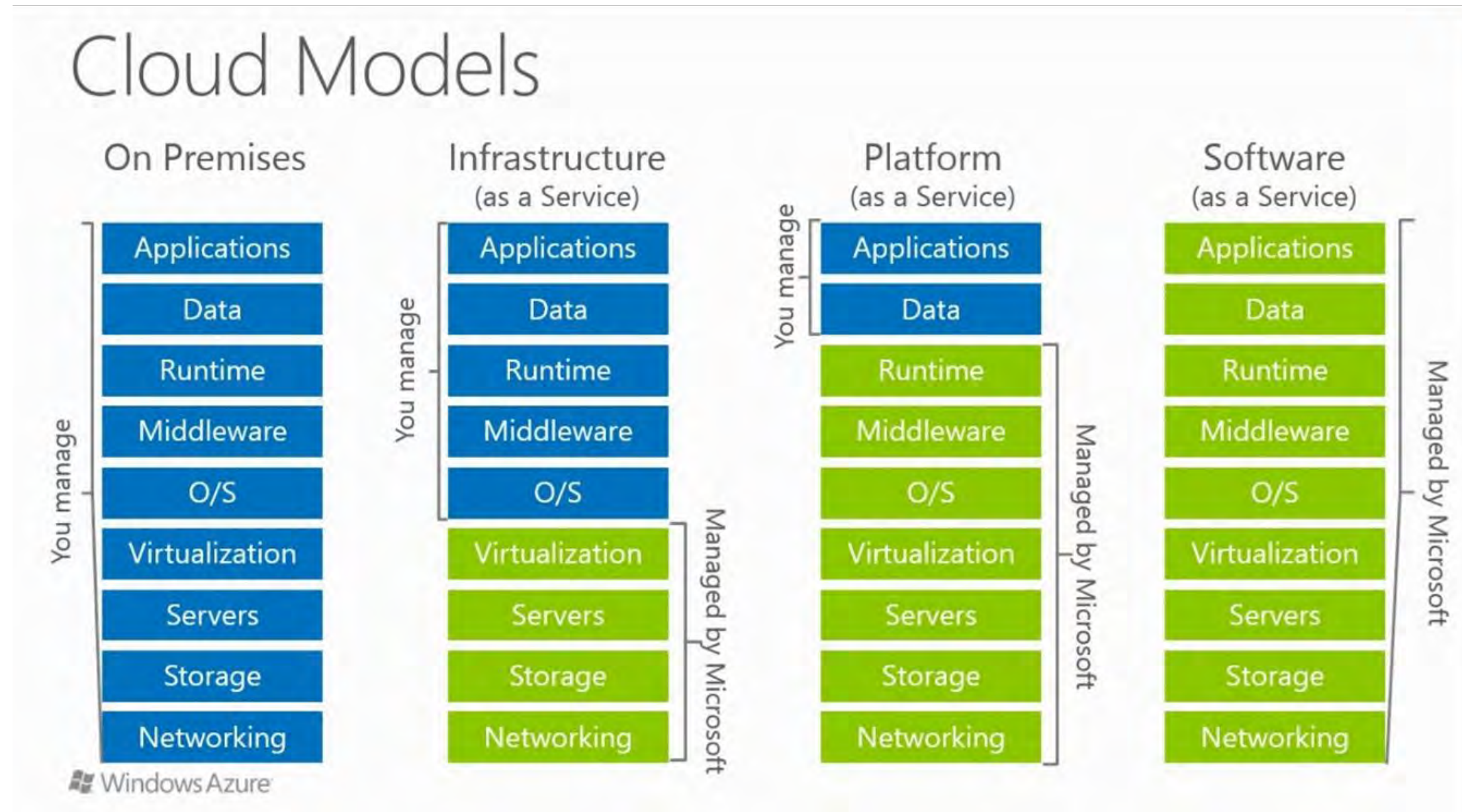
Data Domain
BI

Microsoft
SQL Server[®] 2012
Business Intelligence

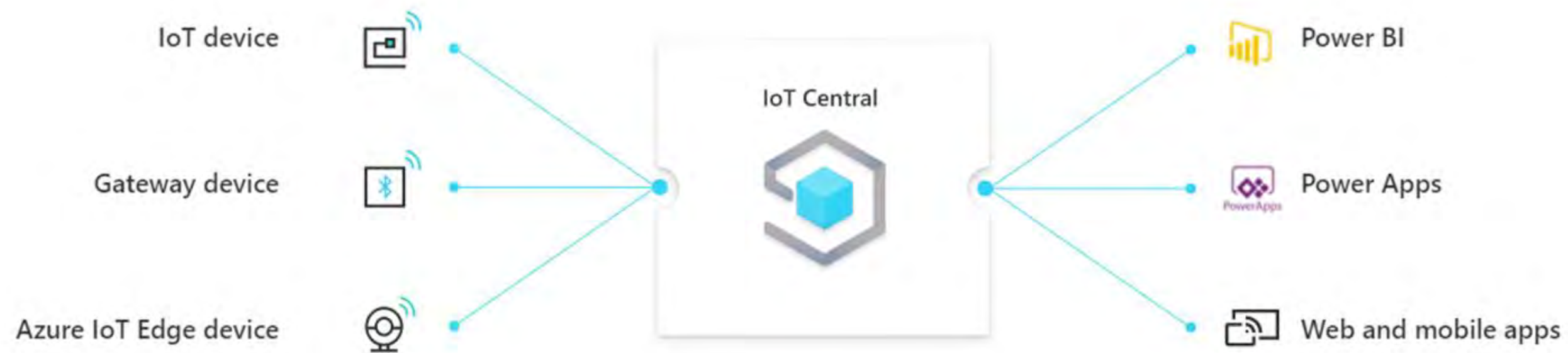
Data Product (DWH)



Mit PaaS Diensten schneller zum Ziel



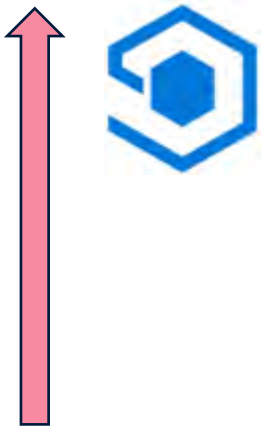
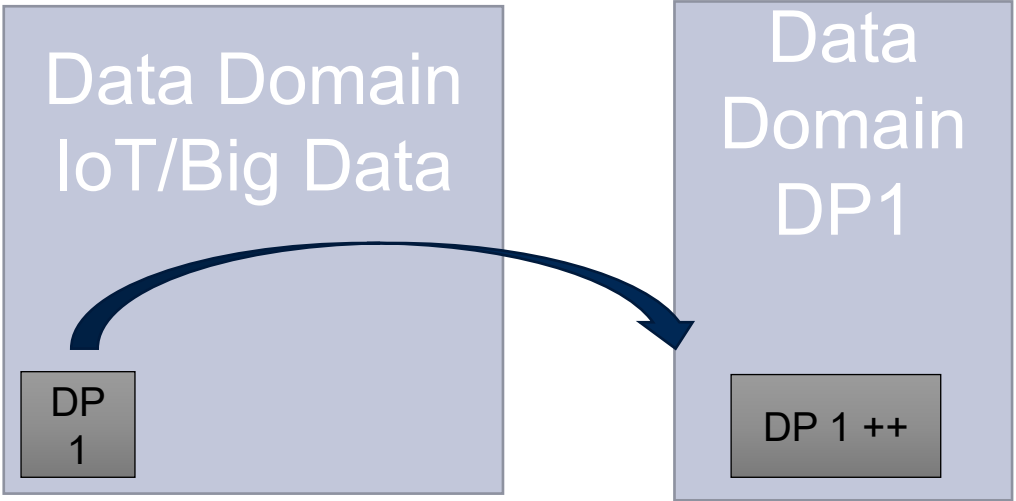
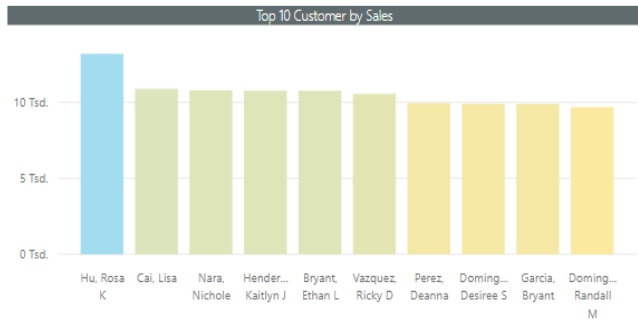
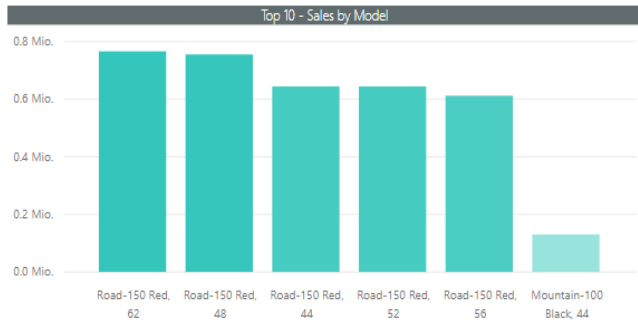
Mit PaaS Diensten schneller zum Ziel



Demo

IoT PaaS Lösung

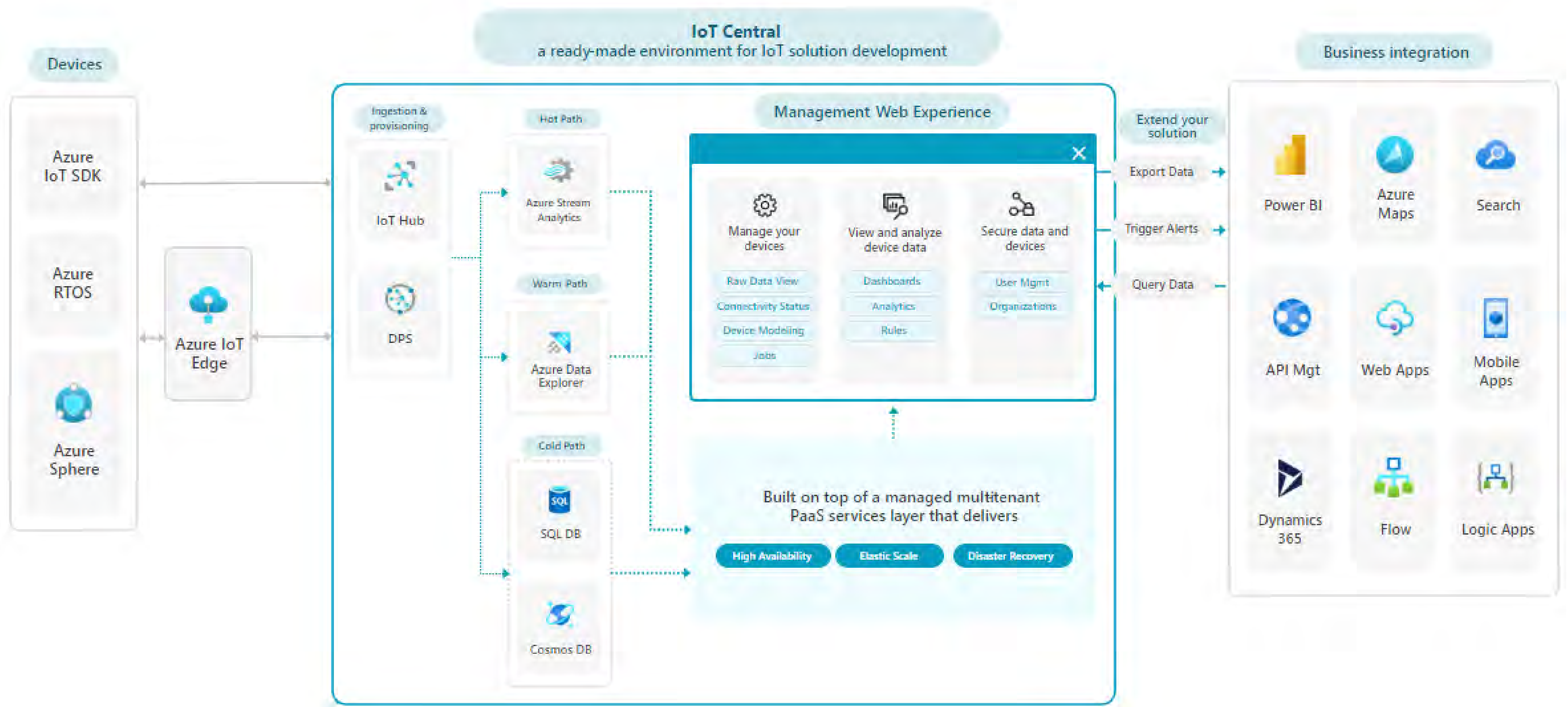
Evolution of Data Analytics



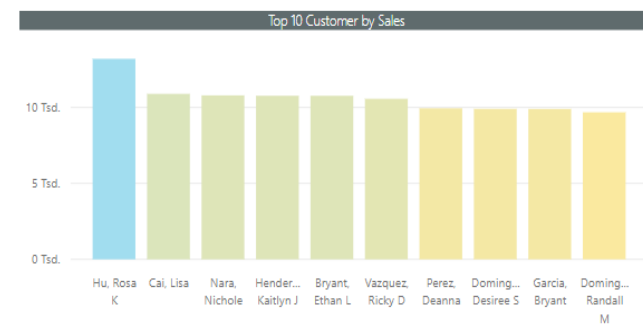
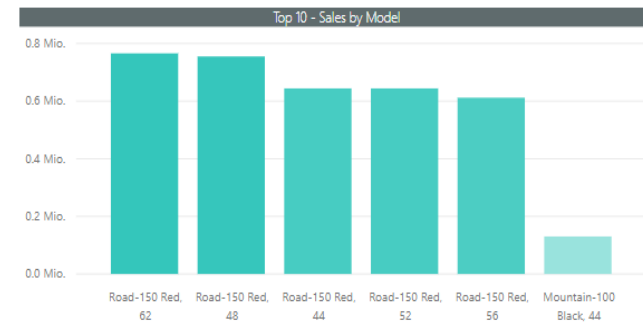
Demo

Anbindung Twitter und Export

Mit PaaS Diensten schneller zum Ziel



Evolution of Data Analytics



- Startseite
- Entdecken
- Mitteilungen
- Nachrichten
- Lesezeichen
- Listen
- Profil
- Mehr

Twittern

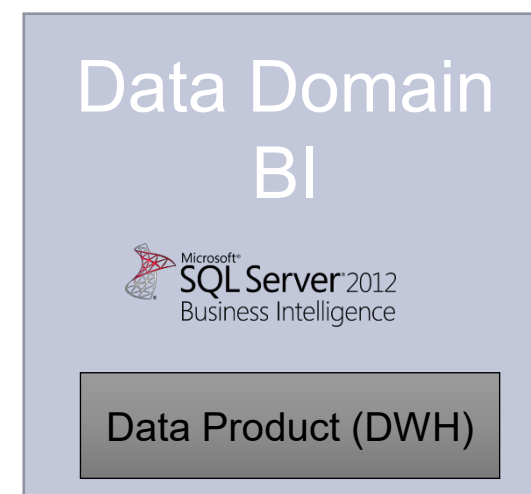
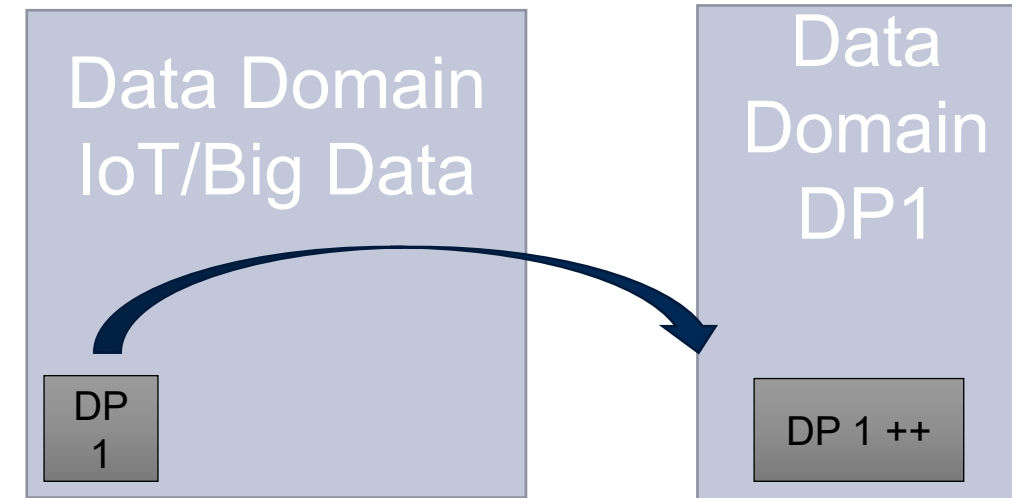
ORAYLISpresales
83 Tweets



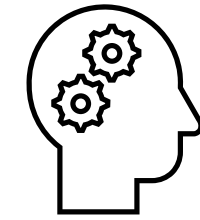
Profil bearbeiten

ORAYLISpresales
@ORAYLISpresales
Seit April 2014 bei Twitter
3 Folge ich 1 Follower

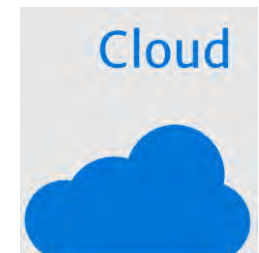
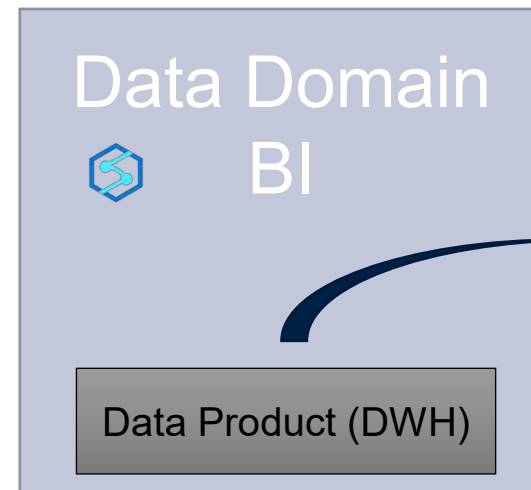
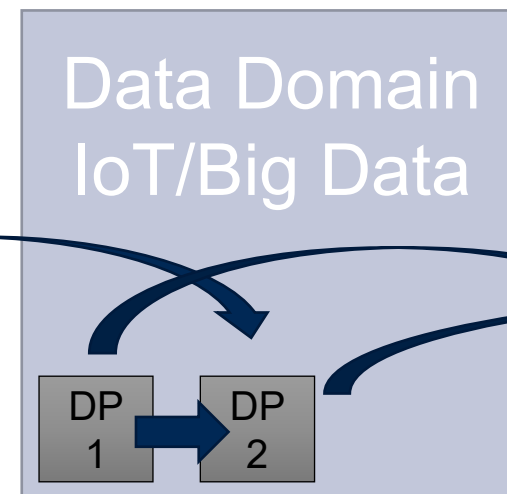
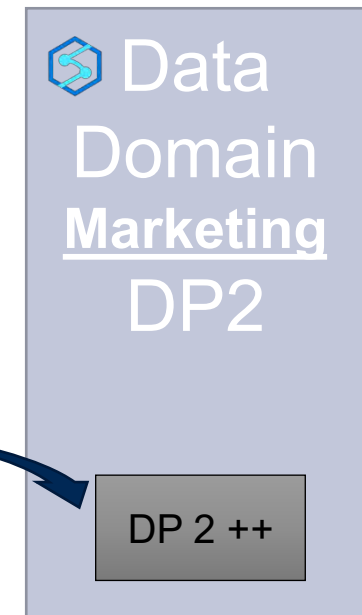
- Tweets
 - Tweets und Antworten
 - Medien
 - Gefällt mir
- ORAYLISpresales @ORAYLISpresales · 19. Mai
["Username":"JK300","eventprocessedutctime":"2022-05-19T07:37:39.5900495Z"]
- ORAYLISpresales @ORAYLISpresales · 18. Mai
["Username":"Chris","eventprocessedutctime":"2022-05-18T20:27:28.1133545Z"]



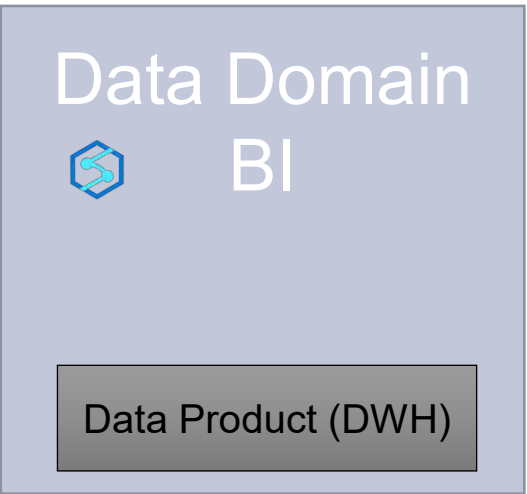
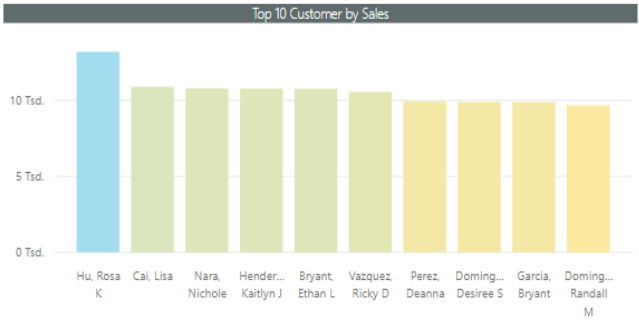
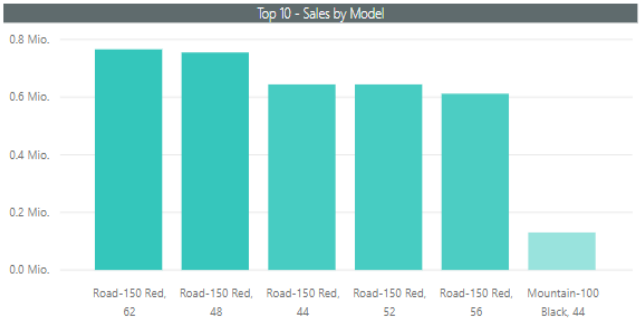
Centralization vs Decentralization



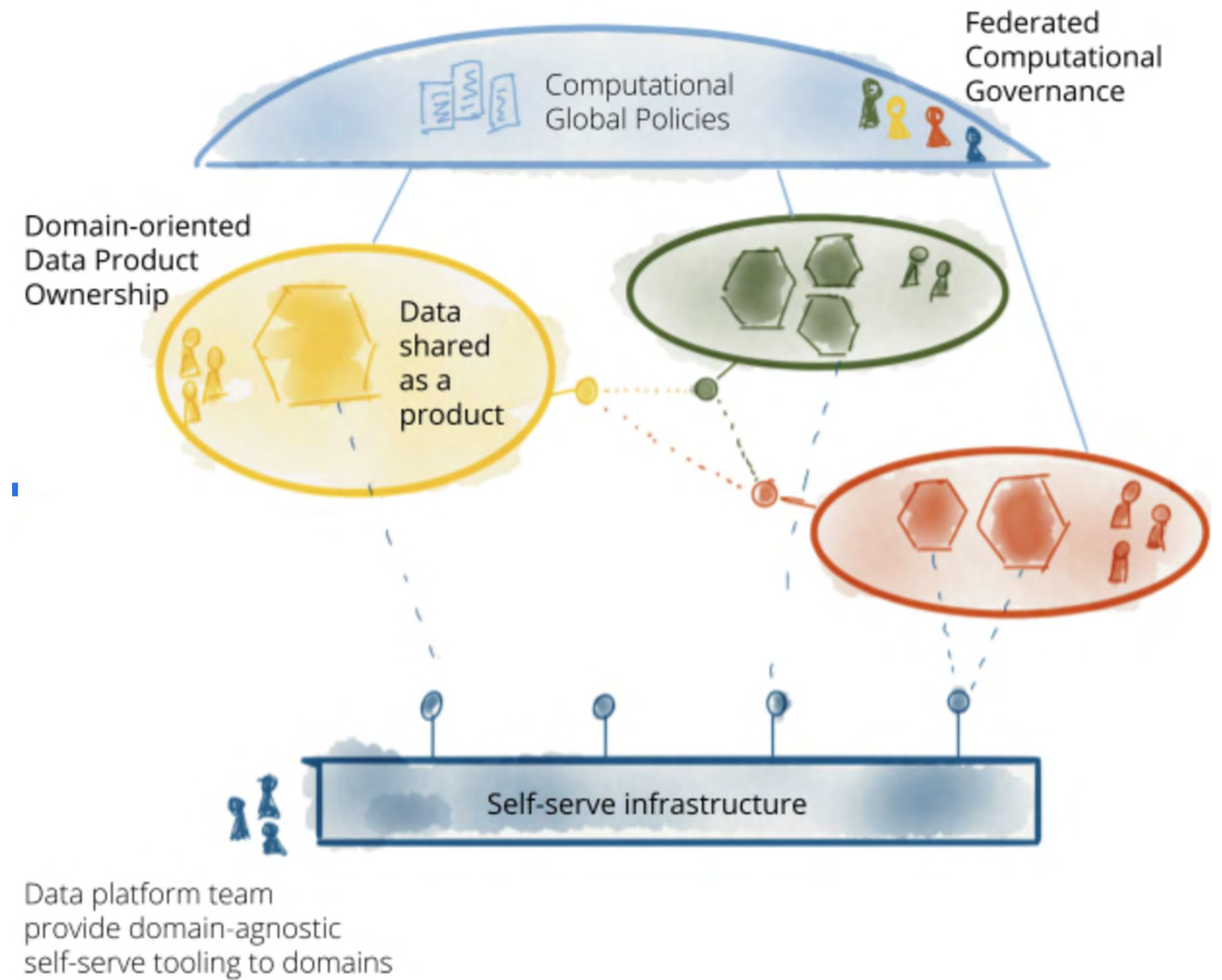
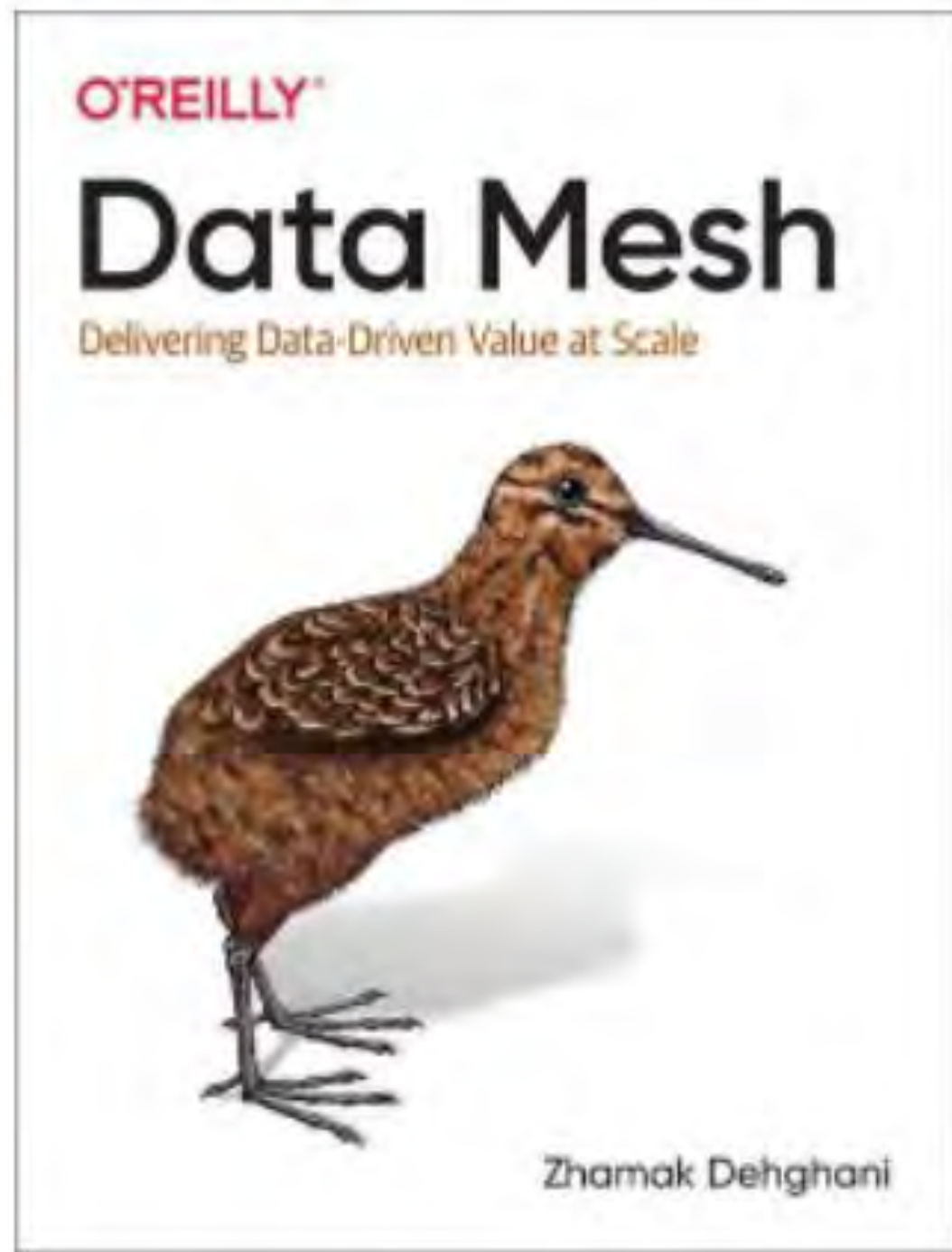
2. Bike Buyer?



Centralization vs Decentralization



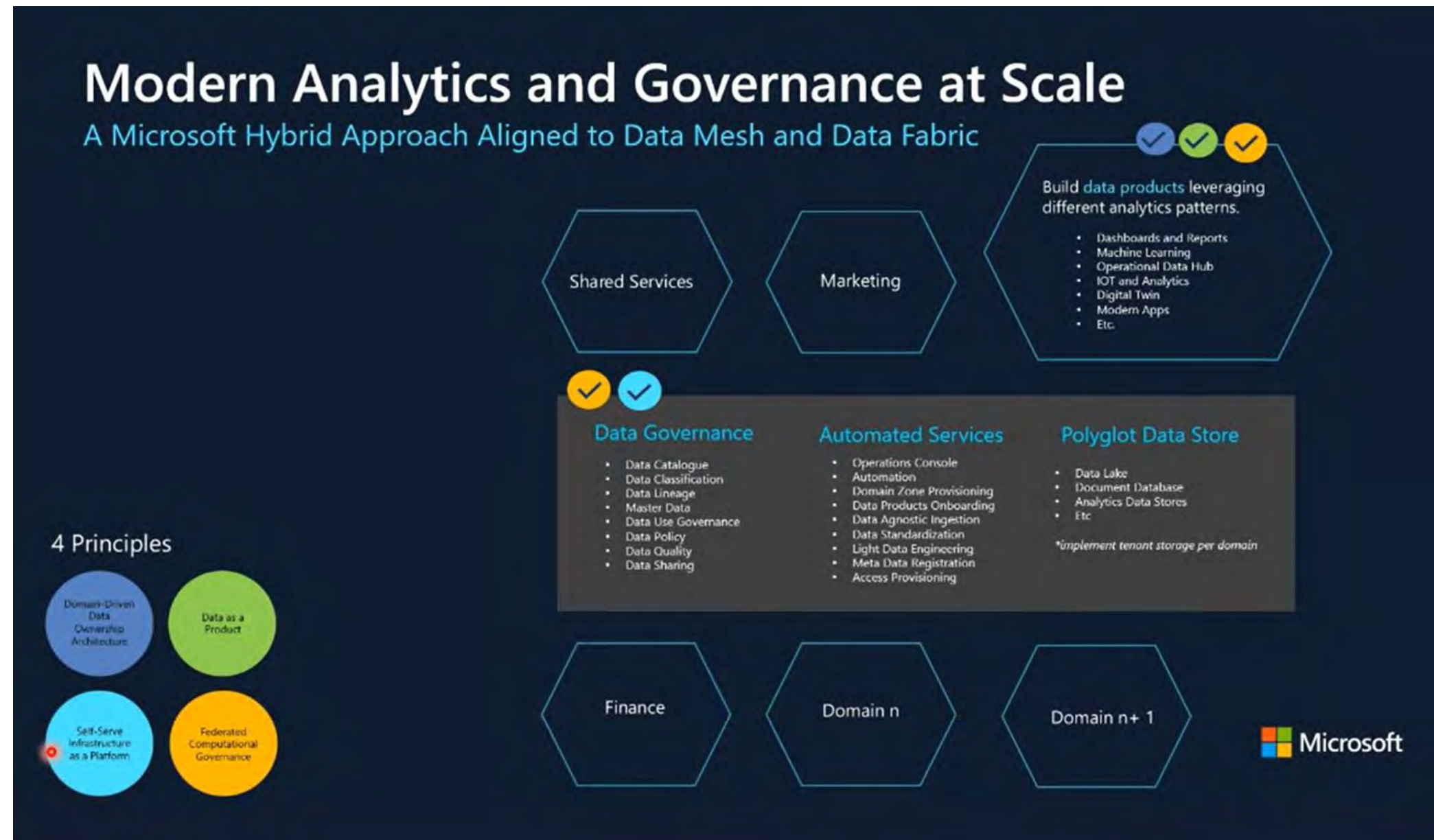
Delivering Data-Driven Value at Scale



Data Domains

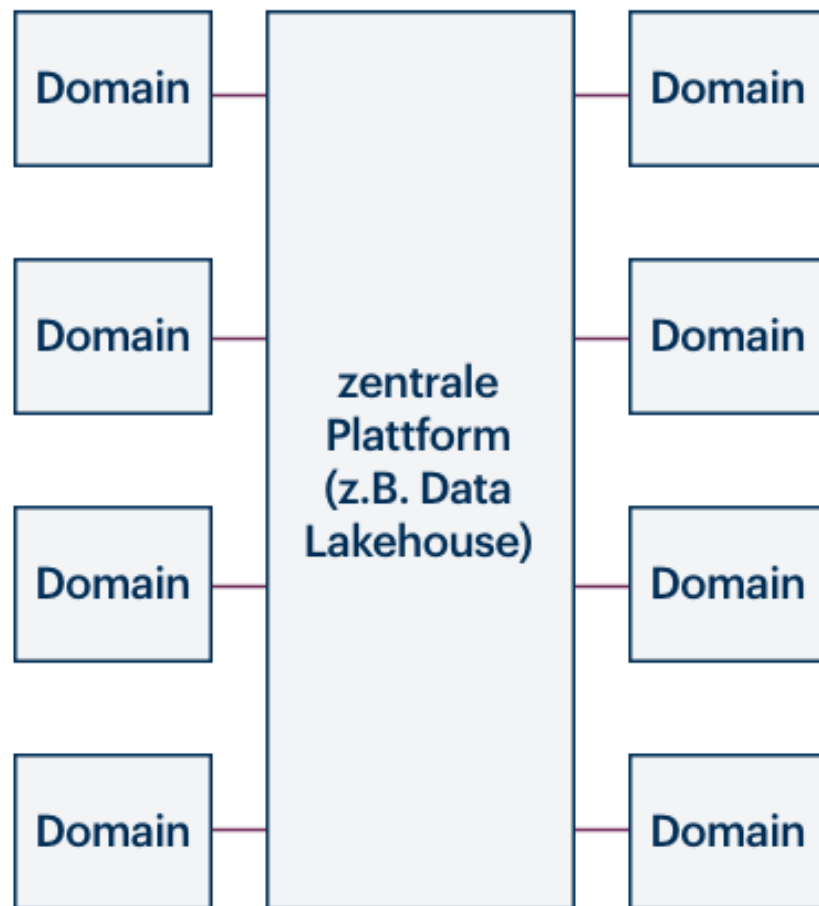
The following concepts are foundational for understanding data mesh architecture:

- › Data domains
- › Data products
- › Self Service Platform
- › Federated Governance

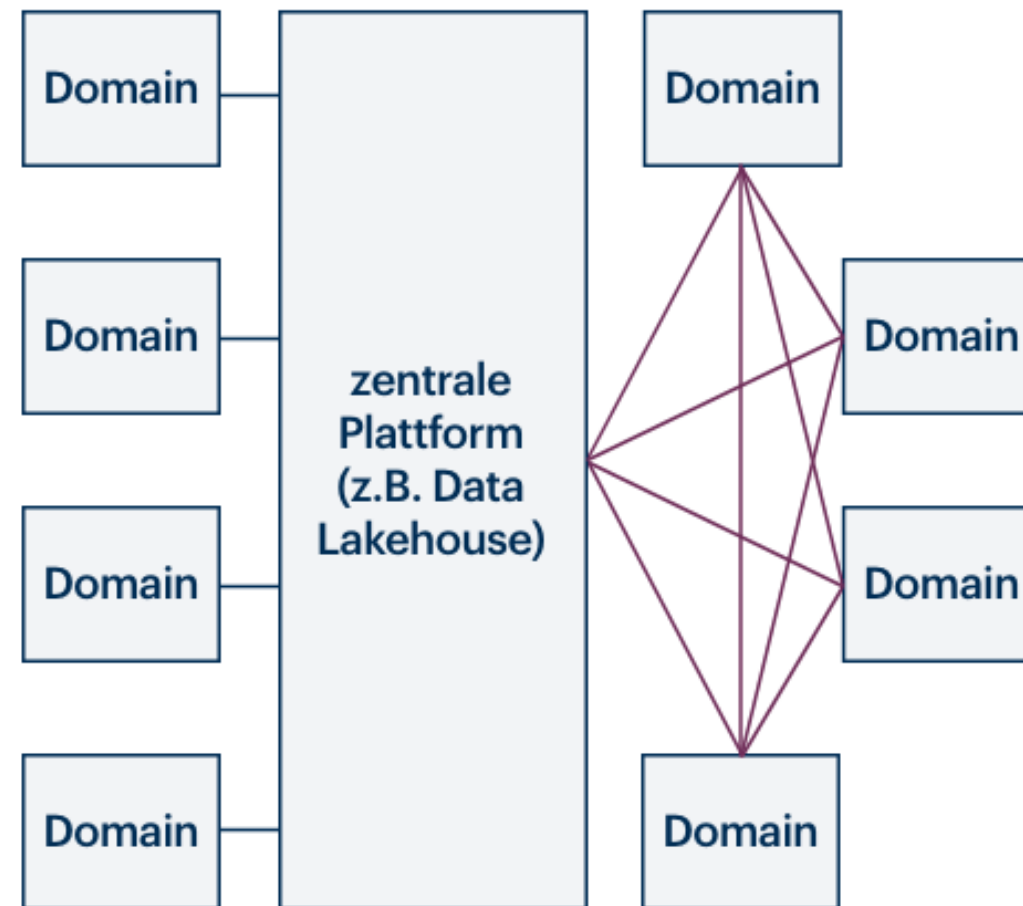


Hybrid or Governed on central Platform (Azure)

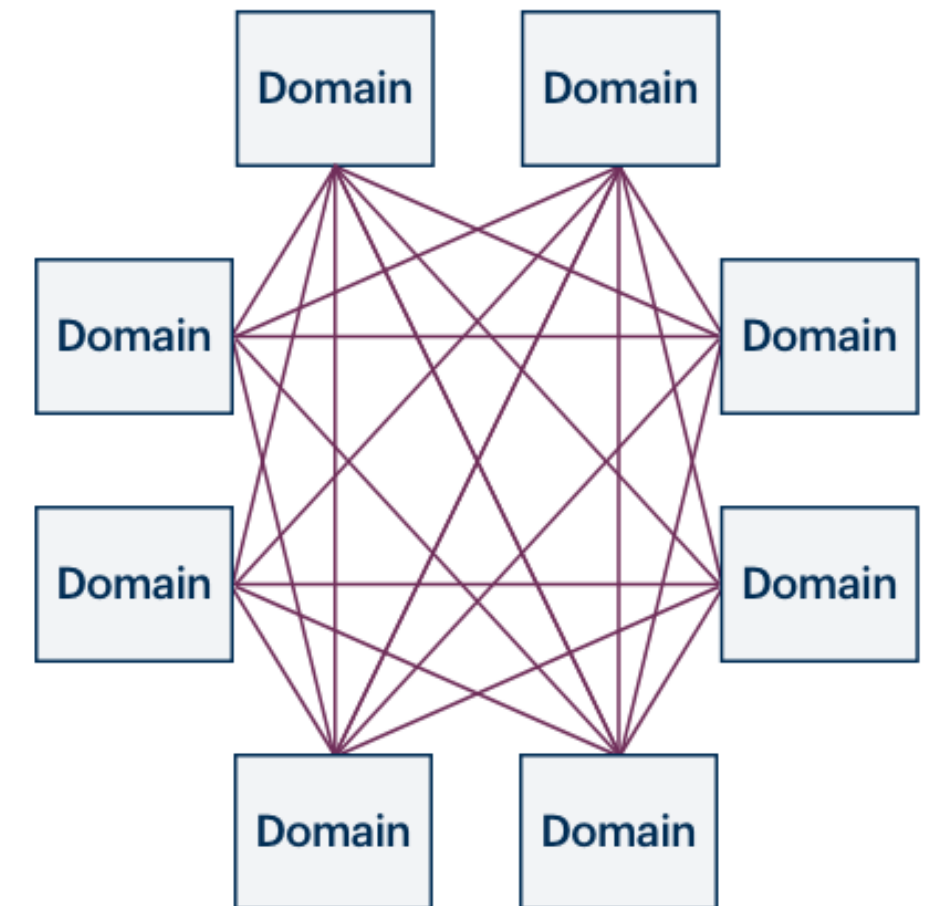
Governed mesh



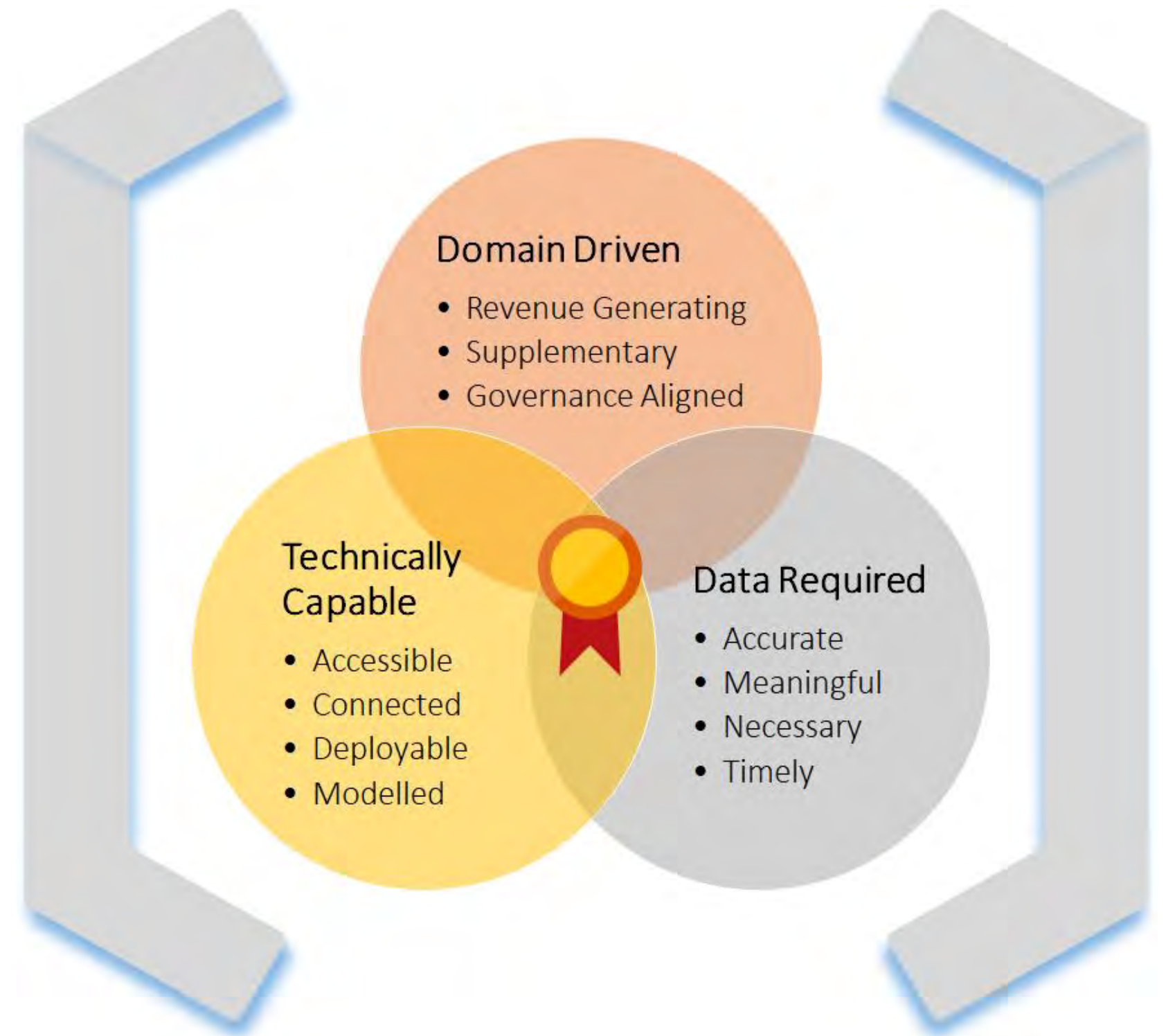
Hybrid mesh federation



Full mesh federation



Data Domains





STRATEGY

Kundensituation: Wie innovieren?

Modern Cloud based Analytics

ORAYLIS

DEFINITION

Data Strategy

A data strategy is your guidebook to turn data into business value.

Eine Datenstrategie ist ihr Wegweiser, um Daten in Geschäftsmehrwerte zu wandeln.

Möglichkeiten beurteilen – Konkrete Lösung(en) vereinbaren

Kickoff ➡ Envision ➡ Engage ➡ Evolve ➡ Evaluate ➡ Review



DER ERSTE SCHRITT IST DIE INITIALE STRATEGIE MIT EINEM LEUCHTTURM PILOT-PROJEKT

Microsoft Cloud Adoption Framework





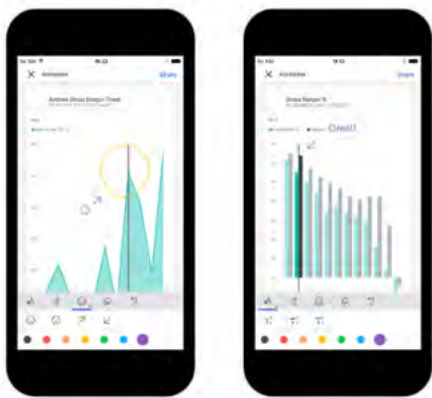
Data Strategy Assessment – von der Idee bis zum MVP-Plan

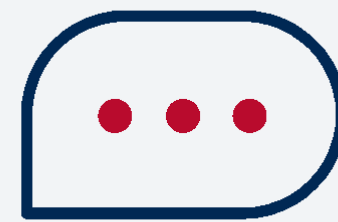
ASSESSMENT PHASES 1 TO 4

USE CASES	1-ENVISION	2-ENGAGE	3-EVOLVE	4-EVALUATE
	data driven company vision	department input	model business cases	prioritize business cases
	customer goals & situation	IT input	perform SWOT analysis	define low hanging fruits
	discover theme	define business outcomes	build financial model (ROI)	define projekt roadmap
PLATFORM	target-actual comparison	align to learning metrics	cloud accounting	first project ready to start
	MOTIVATION	OUTCOME	JUSTIFICATION	FIRST PROJECT (MVP)

RECOMMENDATIONS

- Strategy Overview
- Prioritized Business Cases
- Rollout Plan
- Prototype (optional)





Q&A



Mit Power BI zur Data Driven Company: Wie eine Analysesoftware zum zentralen Punkt Ihrer Digitalisierung wird



In 6 Schritten zur Data Driven Company: Wie Sie Ihr Unternehmen mithilfe von Daten digital transformieren

<https://www.oraylis.de/>

In 6 Schritten zur Data Driven Company

01. **DATENSTRATEGIE**
Ermöglichen Sie Innovationen
02. **DATENKULTUR**
Nehmen Sie alle Mitarbeiter mit
03. **DATENMANAGEMENT**
Nutzen Sie die richtigen Daten für Ihre Prozesse
04. **DATENQUALITÄT**
Sorgen Sie für verlässliche Erkenntnisse
05. **DATA GOVERNANCE**
Formulieren Sie ein Regelwerk
06. **TECHNOLOGIEN**
Die Cloud als Ihr Schlüssel zur Data Driven Company

Besuchen Sie unsere Events und Webinare!



Lassen sie uns loslegen!



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IoT Expert
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Jens

Principal Solution Architect
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STOP WAITING. START CHANGING.

turn your data into value



MAY THE DATA BE WITH YOU

ORAYLIS
turn your data into value