

What does a modern data platform for analytics in the company look like?

München, 2021-02-10, Arne Roßmann





Arne Roßmann



Education:

- Computer Science (BSc) with Focus on Business Intelligence
- International Management (MBA)

Key Competences:

- Enterprise Architecture
- DevOps / DataOps
- Big Data / Cloud

Projects / Roles:

- Chief Architect
- DevOps Coach
- Solution Architect
- (before: Developer, Scrum Master, Project Manager, ...)



Capgemini Certified
Chief Architect

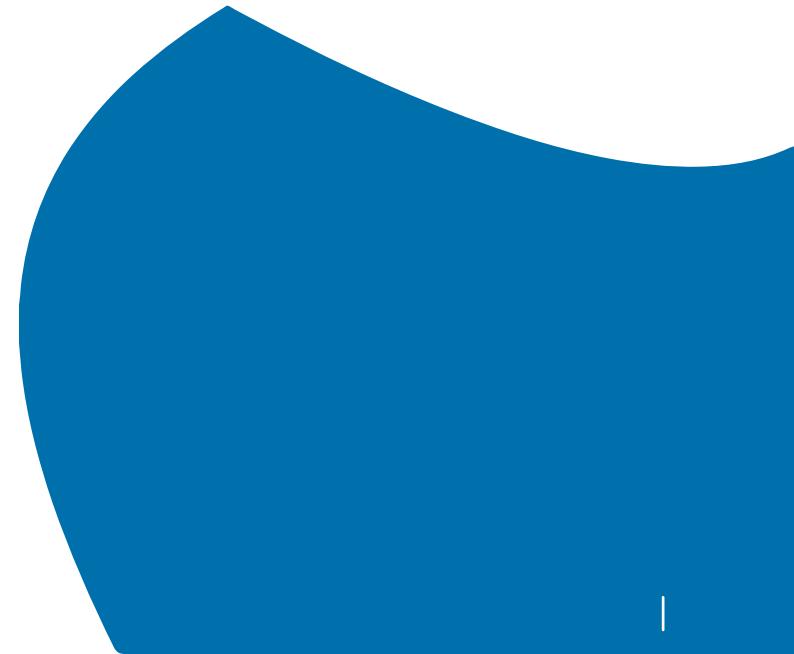
Level 3





Agenda

- What are the characteristics of an Enterprise Data & AI Platform
- How does a Reference Architecture for an Enterprise Data & AI Platform look like?
- Why Kafka is a perfect key component in the modern platform?
- A real world example
- Q & A





Enterprise Data & AI Platform Characteristics



-  Discoverable
-  Addressable
-  Trustworthy
(defined & monitored SLO)
-  Self Service
-  Inter Operable
(governed by open standards)
-  Secure

Reference Architecture for an Enterprise Data & AI Platform

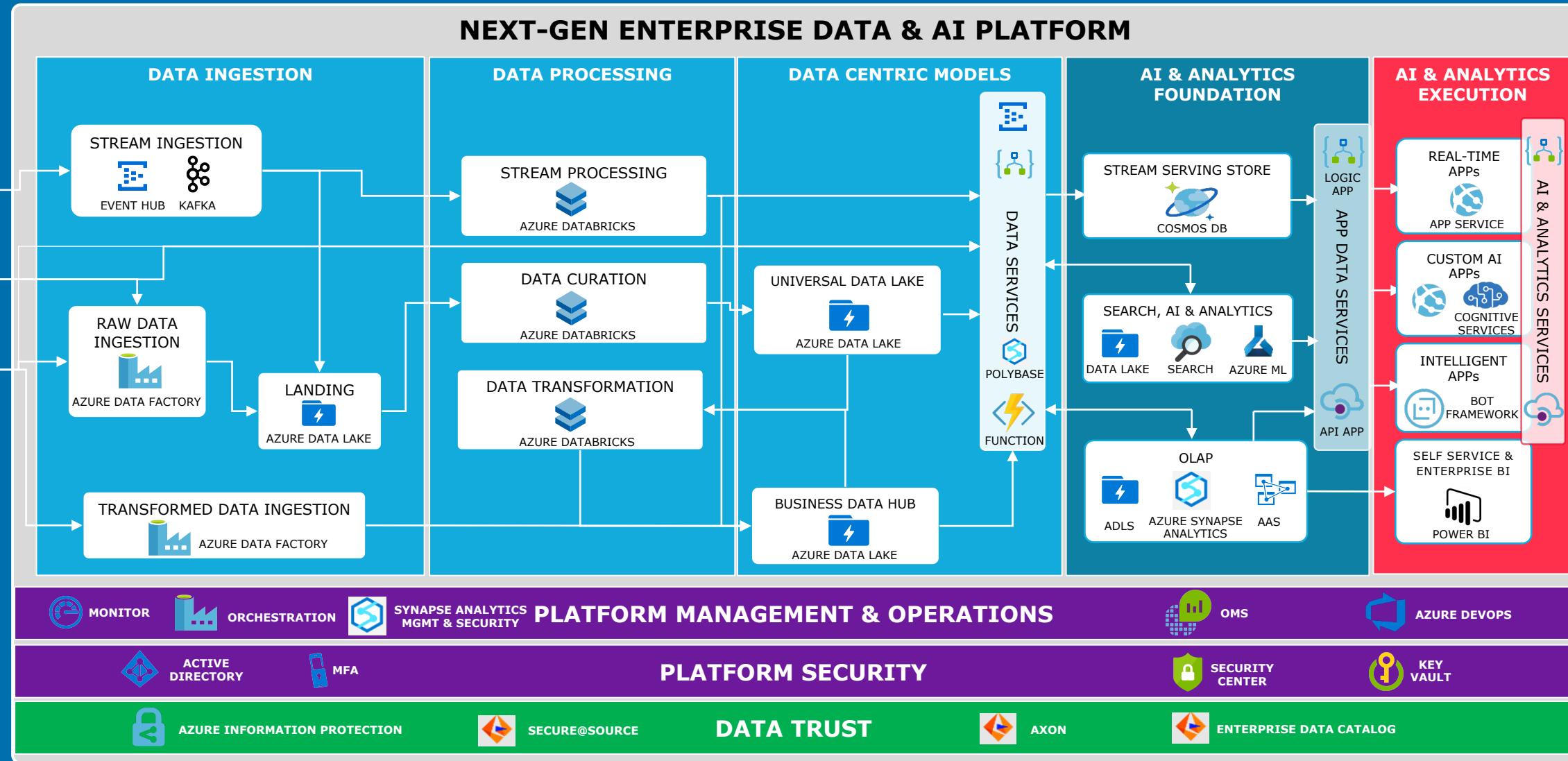


System of Insights Approach

Multiple sources converge to a common Data & AI platform using **Microsoft Azure centric** services

Goals: Consistent, repeatable methods and processes that can scale

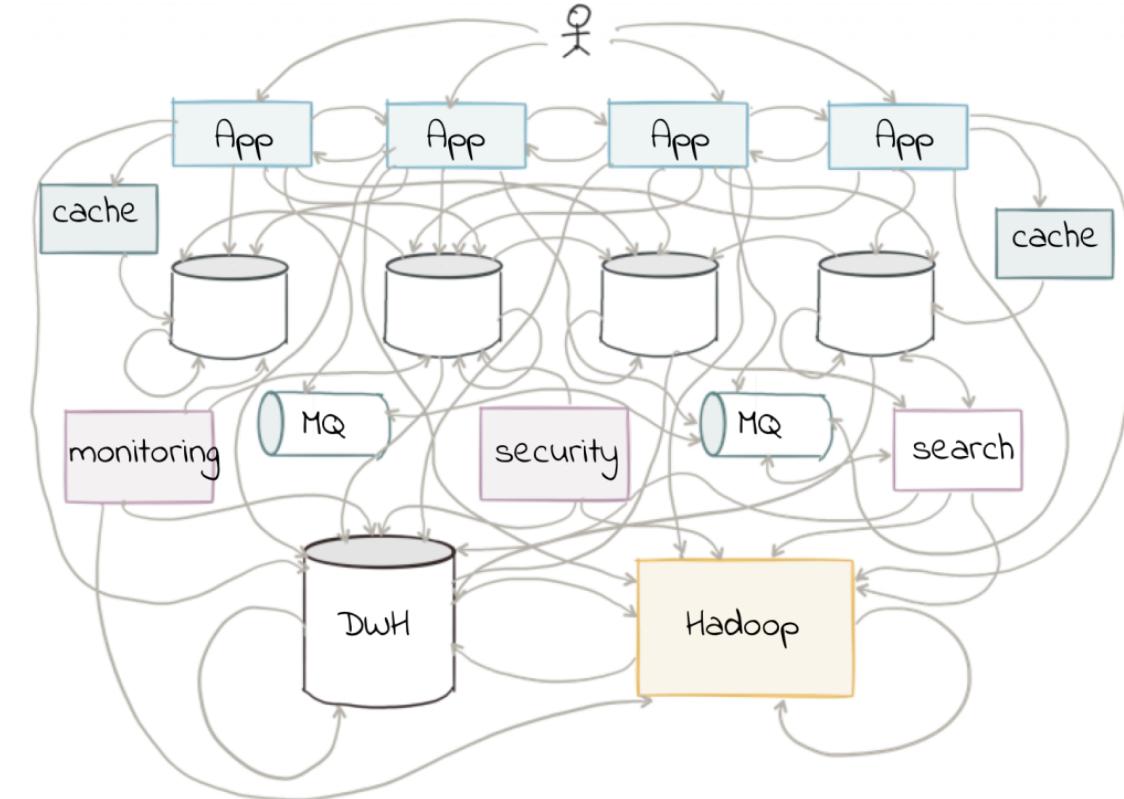
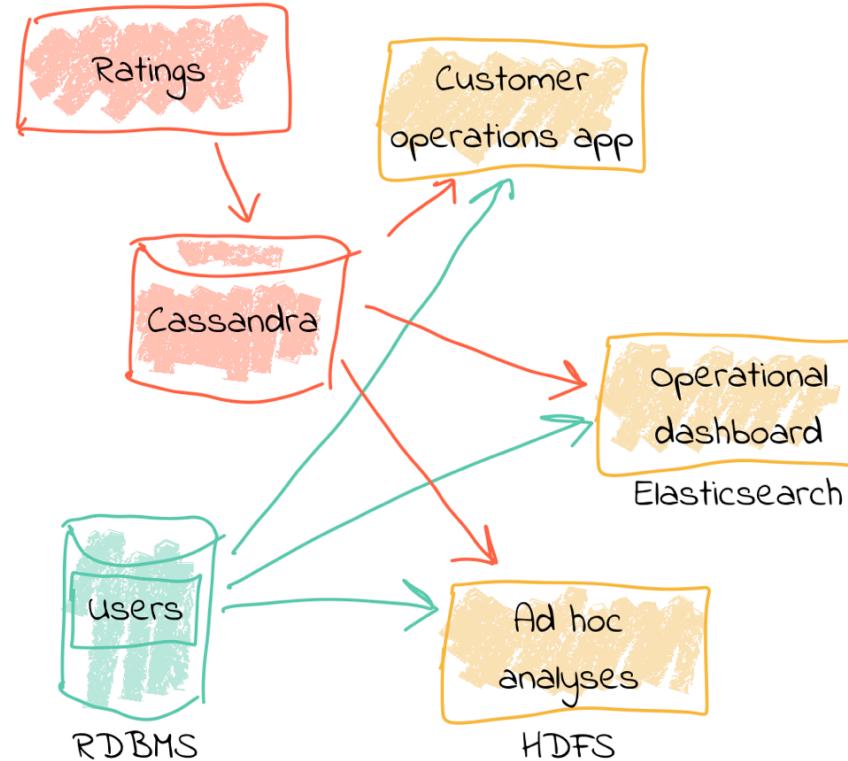
Govern locally where it matters, manage centrally





Kafka as a key component
in the architecture

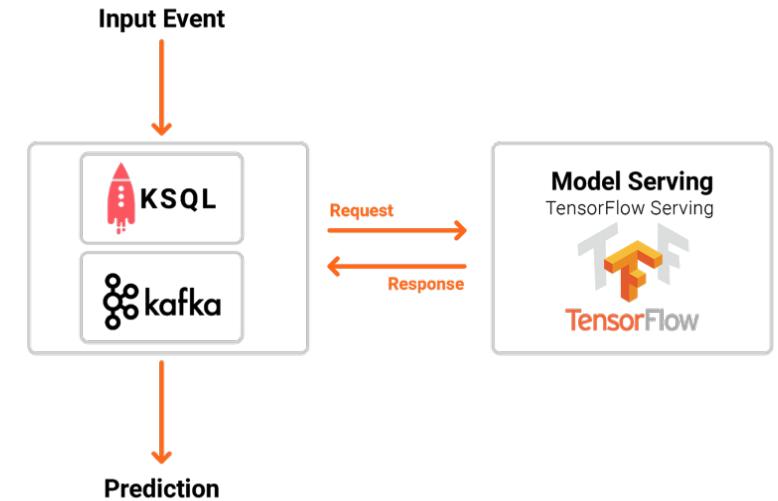
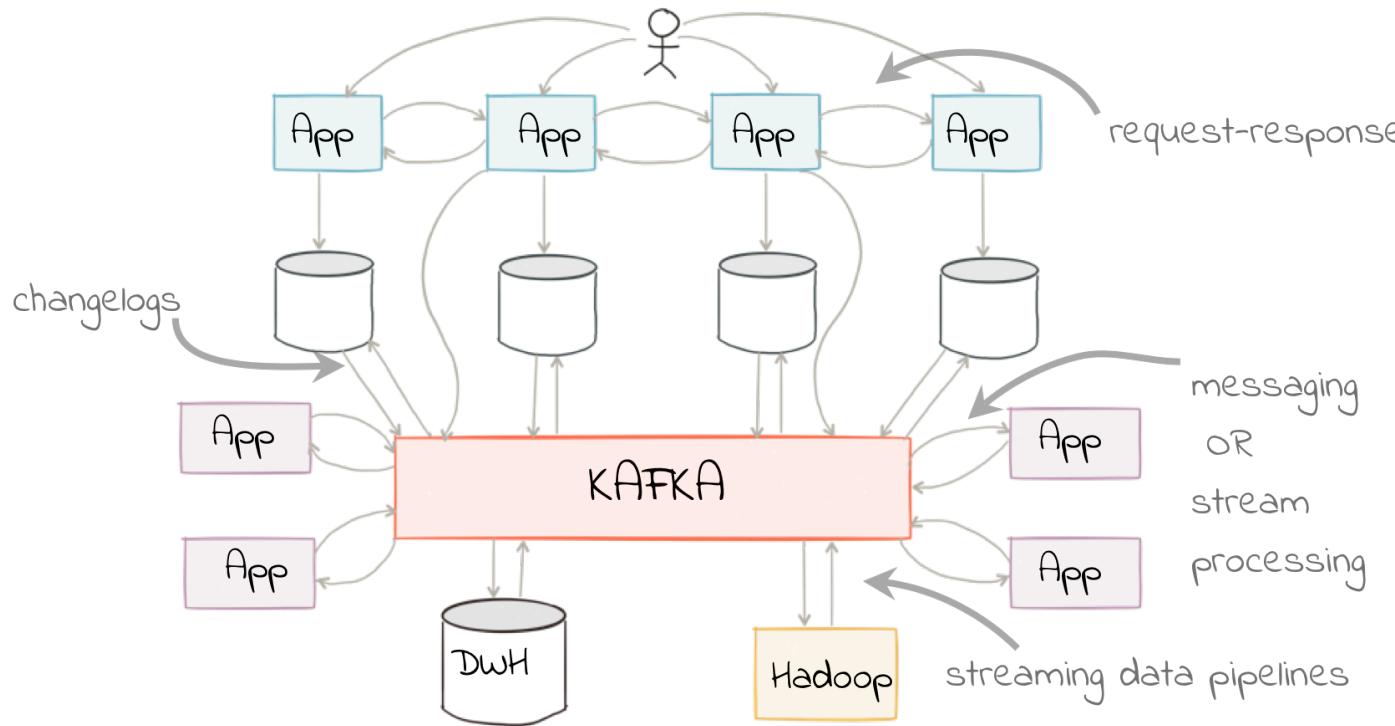
Event Driven Architecture – an approach to solve the Big Ball of Mud problem



<https://www.confluent.io/blog/using-apache-kafka-drive-cutting-edge-machine-learning/>

<https://www.confluent.io/blog/changing-face-etl/>

Event Driven Architecture – “clean” architecture and AI integration



<https://www.confluent.io/blog/using-apache-kafka-drive-cutting-edge-machine-learning/>

<https://www.confluent.io/blog/changing-face-etl/>

<https://www.confluent.io/blog/importance-of-distributed-tracing-for-apache-kafka-based-applications/>

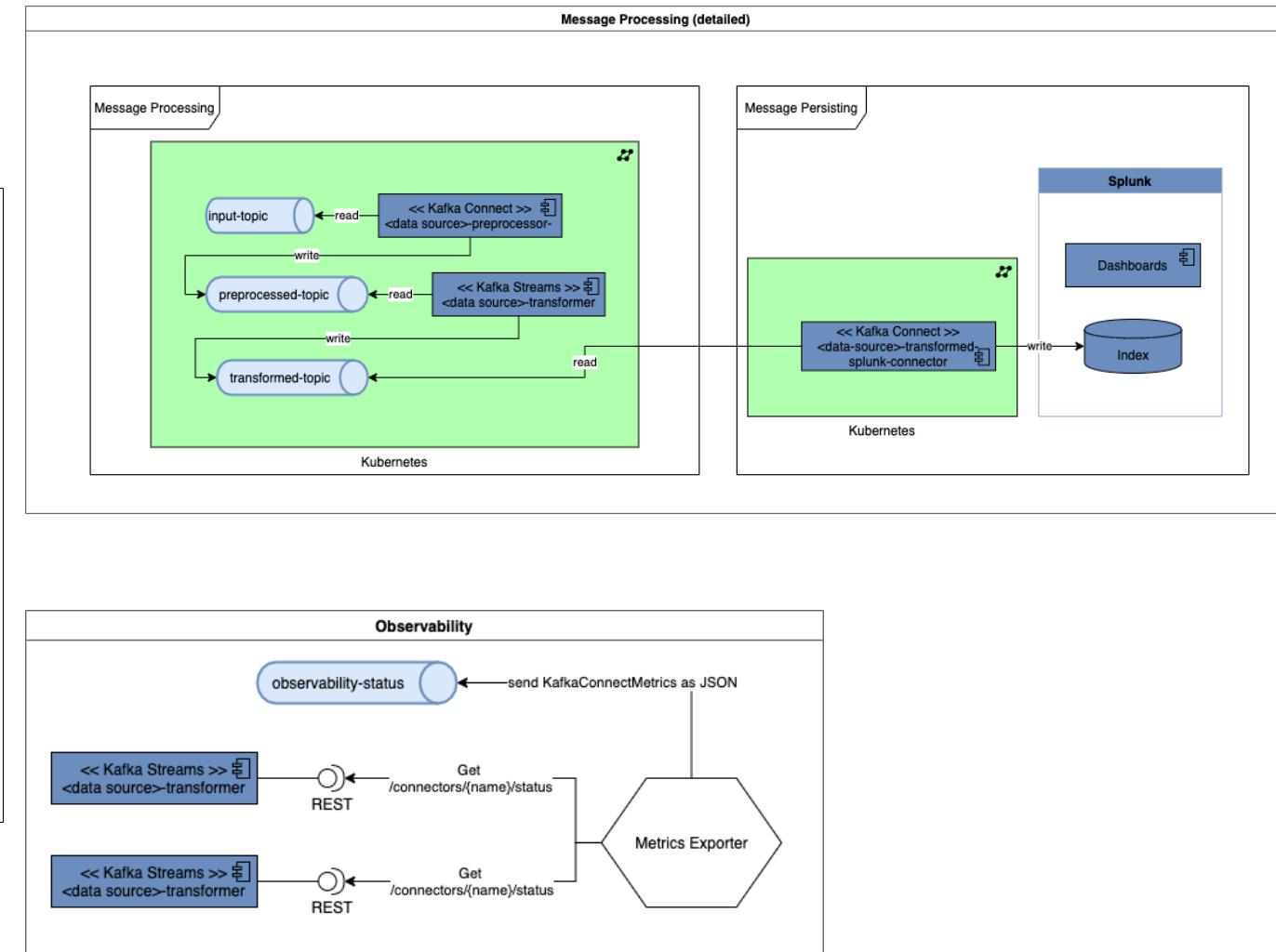
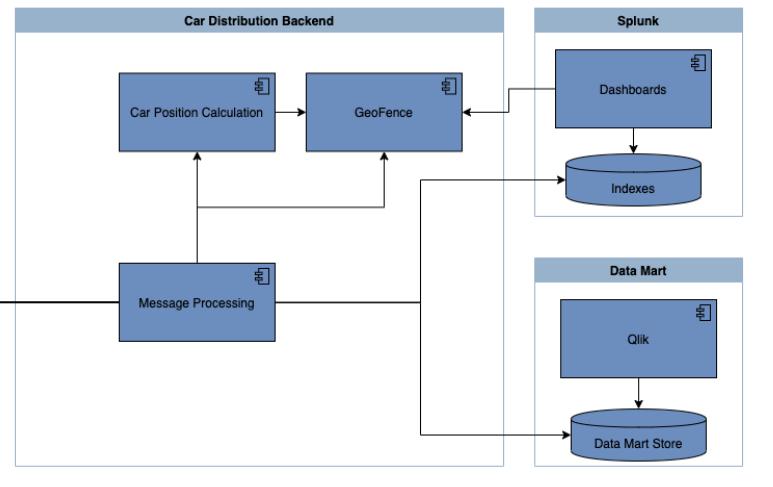


A real world example



A real world example on Car Distribution

Car Distribution Example
Conceptual View
Version: 2021-02-10
Author: A. Roßmann



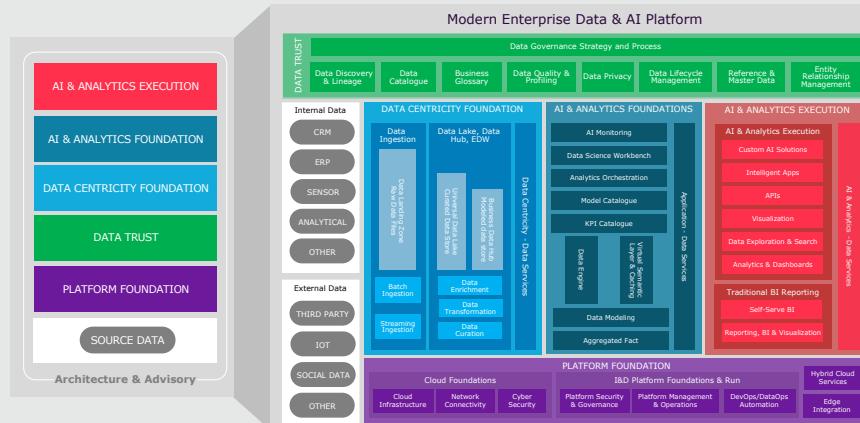


Summary & Q&A



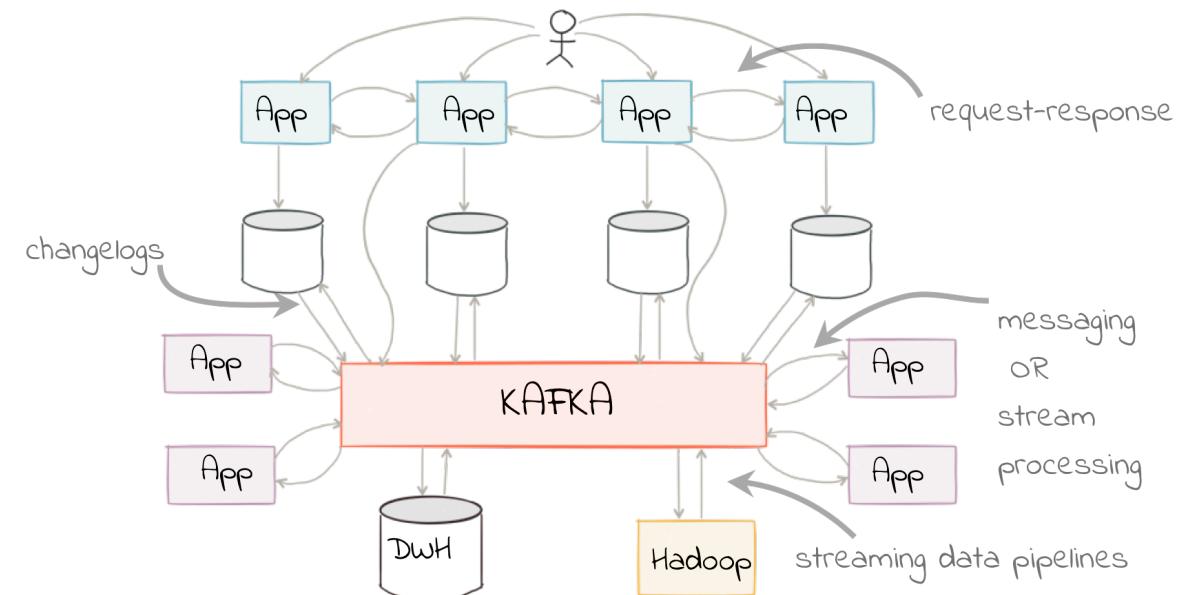
A Modern Enterprise Data & AI Platform

The AI Engineering Data Centricity Platform Reference Architecture



- Discoverable
- Addressable
- Trustworthy
(defined & monitored SLO)

- Self Service
- Inter Operable
(governed by open standards)
- Secure



I coding

Abendveranstaltung mit
Capgemini

11.02.2021 von 18:00 bis 20:00 Uhr

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Abendprogramm **am 11.02.2021 von 18:00 Uhr bis 20:00
Uhr** dabei.

Es erwartet dich unter anderem eine Keynote „*Coding at Capgemini – Revolution or Evolution for Clients*“ von unserem **Head of Innovation Thilo Hermann**.

Erhalte spannende Einblicke und Beispiele, wie Capgemini seine Kunden revolutionär aber auch evolutionär mit Software unterstützt.

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Du hast Interesse?

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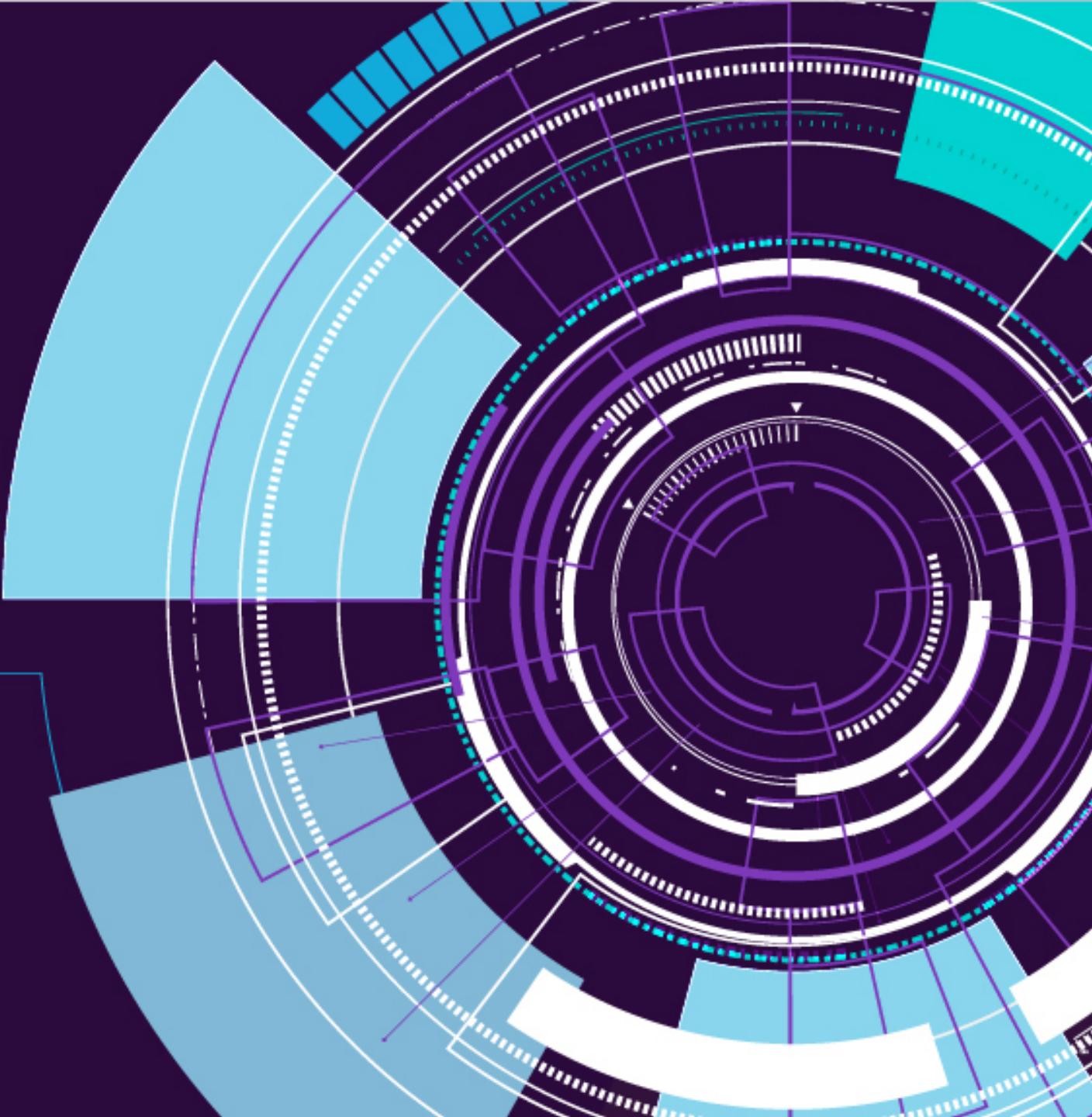
Wir freuen uns auf dich!





Architecting Our Future

Let's get in contact and visit us now at
our virtual [booth/258](#)
here on the OOP!





Contact



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