COLLABORATIVE DATA ECOSYSTEM

is Data sharing = caring or a waste of investment?
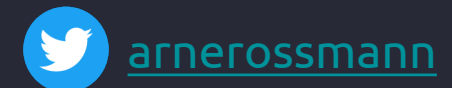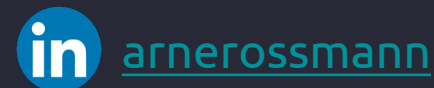
Capgemini

INTRODUCTION

Arne Rossmann

o Working at Insights & Data @ Capgemini Germany

o Roles:

   o Chief Architect Data & AI for Intelligent Industry

   o Portfolio Lead Data & AI Engineering Germany

o Supporting Clients on journey towards Collaborative Data Ecosystems with modern & sustainable Data Analytics Platforms

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THE ROAD INTO THE FUTURE IS PAVED WITH MULTIPLE CHALLENGES ...

Future

Sustainability

Intelligent Products

Data Driven Business

Data Mastery

Data Sharing

Data Ecosystem

> ... but all have a common baseline – they require Data Mastery (*)

(*) Only about one in six organizations globally can be categorized as a data master (7% Data aware, 7% Data enabled,71% Data laggards) // Source: Capgemini Research Institute, Data-powered enterprises survey, August 2020
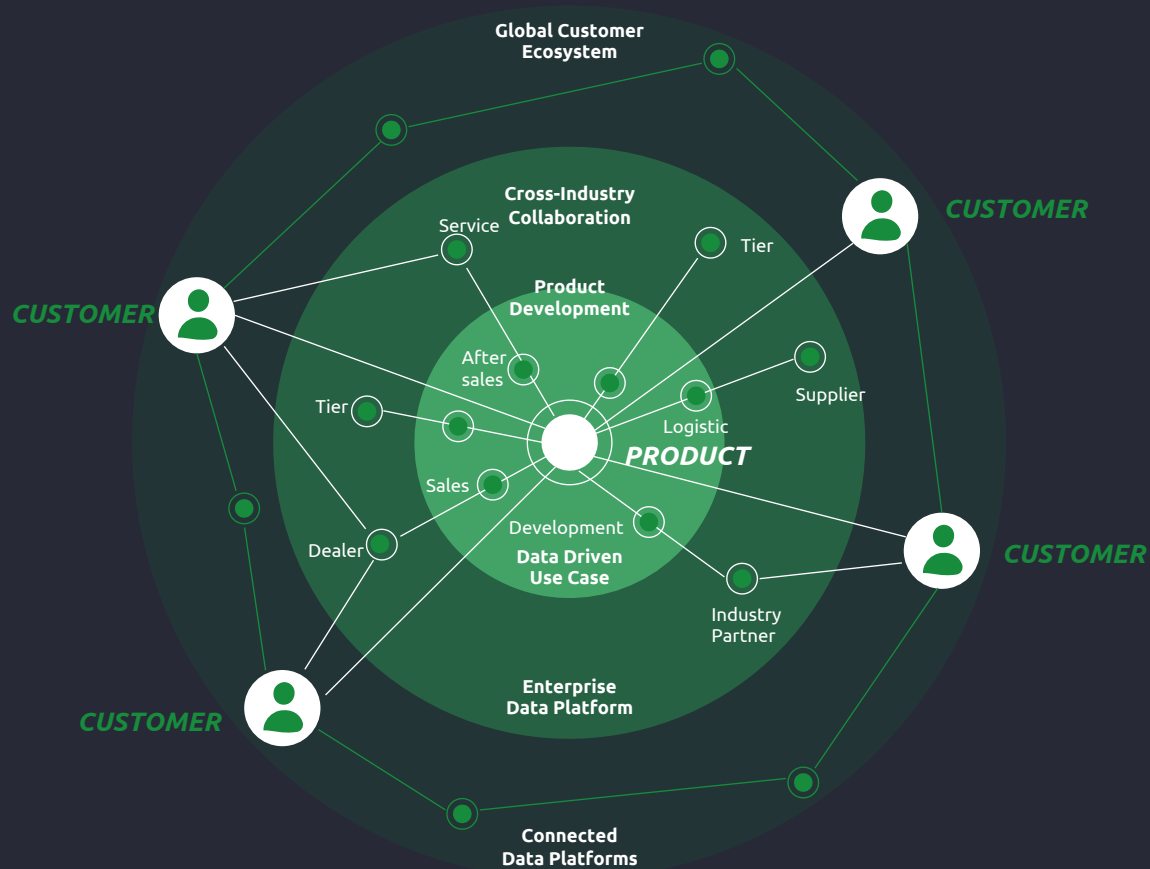
FROM CLIENT SIDE WE CAN SEE VARIOUS EXPECTATIONS BASED ON THREE CORE PERSPECTIVES

1. **Developing Data Driven Use Cases**

2. **Future proof enterprise data platform**

3. **Customers global digital ecosystem**

WHY IS THIS IMPORTANT FOR THE ENTERPRISE SUSTAINABILITY GOALS?

Data Driven Use Cases

o Sustainability can be treated as an additional business domain within the enterprise

o Sustainability Use Case like Reporting / Visualization, Prediction or Recommendation are treated as any other important business case
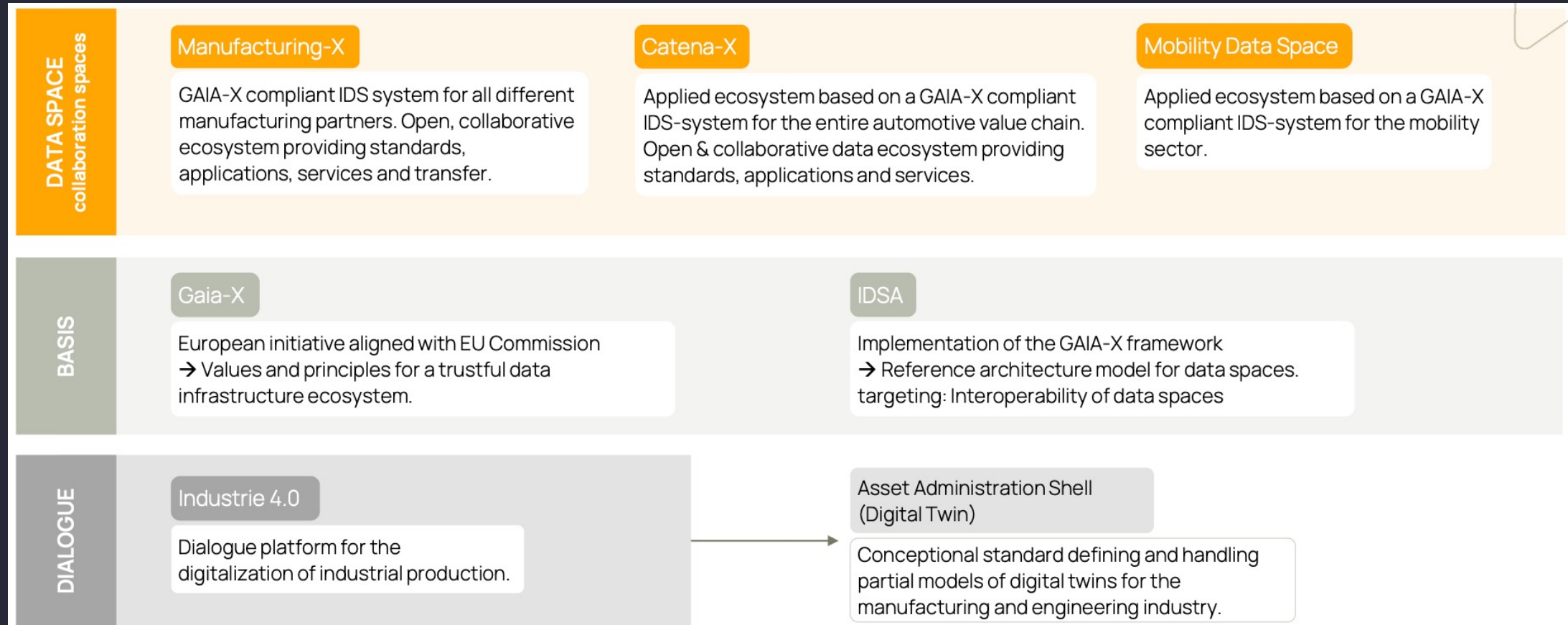
Future proof enterprise data platform

o Modern Data Analytics Platforms ease path for creation of valuable Data Products.

o Reuse of existing, valuable data supports Green IT ambitions and goals

Customers global digital ecosystem

o Data Sharing within and across Enterprises reduces additional data integration efforts

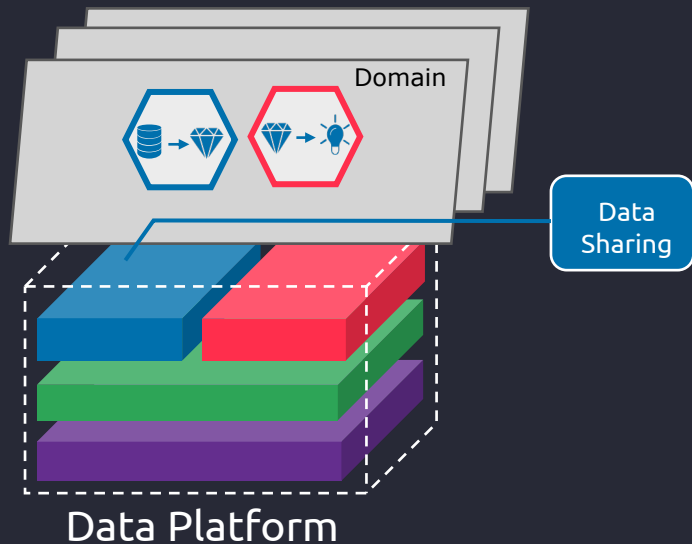o Visibility and transparency gets increased

GAIA-X AND CATENA-X ARE EUROPEAN SOVEREIGN CLOUD AND COLLABORATIVE ECOSYSTEM INITIATIVES

DATA SPACE
collaboration spaces

Manufacturing-X

GAIA-X compliant IDS system for all different manufacturing partners. Open, collaborative ecosystem providing standards, applications, services and transfer.

Catena-X

Applied ecosystem based on a GAIA-X compliant IDS-system for the entire automotive value chain. Open & collaborative data ecosystem providing standards, applications and services.

Mobility Data Space

Applied ecosystem based on a GAIA-X compliant IDS-system for the mobility sector.

BASIS

Gaia-X

European initiative aligned with EU Commission
→ Values and principles for a trustful data infrastructure ecosystem.

IDSA

Implementation of the GAIA-X framework
→ Reference architecture model for data spaces.
targeting: Interoperability of data spaces

DIALOGUE

Industrie 4.0

Dialogue platform for the digitalization of industrial production.

Asset Administration Shell (Digital Twin)

Conceptional standard defining and handling partial models of digital twins for the manufacturing and engineering industry.

DATA SHARING IS ENABLED VIA DEDICATED FRAMEWORKS AND INTEGRATED WITHIN THE MODERN DATA ANALYTICS PLATFORM

Domain

Data Sharing

Data Platform

- Data Products and Use Cases can share data through the integrated Data Sharing Framework

- Data Sharing has to be tightly integrated into the Data Platform to leverage Access Control and Data Protection in a governed way

- Platform wide Security ensures deep platform integration leveraging the established Security mechanism

- Multiple Data Sharing Frameworks exist to be enabled in the Cloud platforms

Examples for Data Sharing

Azure Data Share

Delta Sharing

Redshift Datashare

GCP Datashare

gaia-x

Catena-X

10

{ API }

SUMMARY

Data Driven Business

Future

Intelligent Products

Sustainability

o Create a Data Strategy driven by the Business Goals

o Build a modern Data Analytics Platform to support data driven Use Cases

o Treat Sustainability as an important Business Domain to prioritize their Use Cases and progress towards Sustainability Goals

o Establish an Enterprise wide Data Ecosystem, enable participation in Ecosystem initiatives

About Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of over 325,000 team members more than 50 countries. With its strong 55-year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fueled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms. The Group reported in 2021 global revenues of €18 billion.

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