

Get the future  
you want

# Follow the Golden Path

Unlocking Data Insights and AI  
Excellence

1<sup>st</sup> Oct

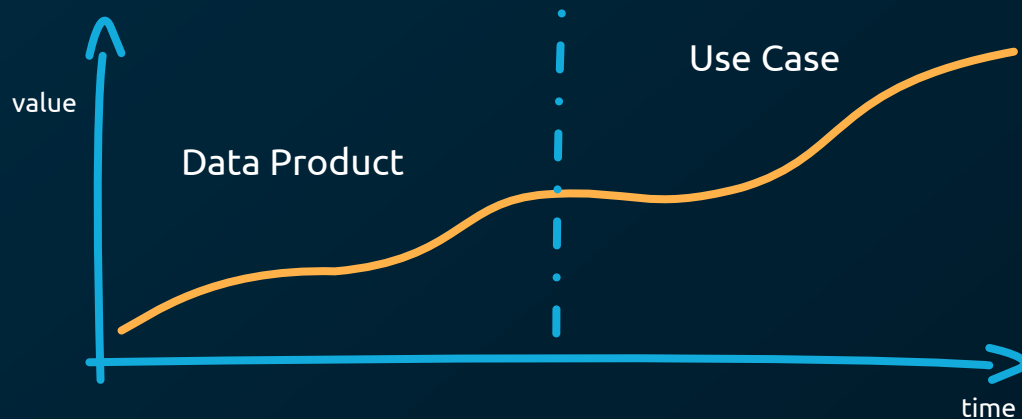
Arne Rossmann

Capgemini 





# WHAT'S YOUR TIME-TO-VALUE?



”

For a simple **Data Product** – roughly 3 sprints. So **9 weeks**. For the Use Case than again 2-4 sprints. ”

And how long for the next Data Product & Use Case?

”

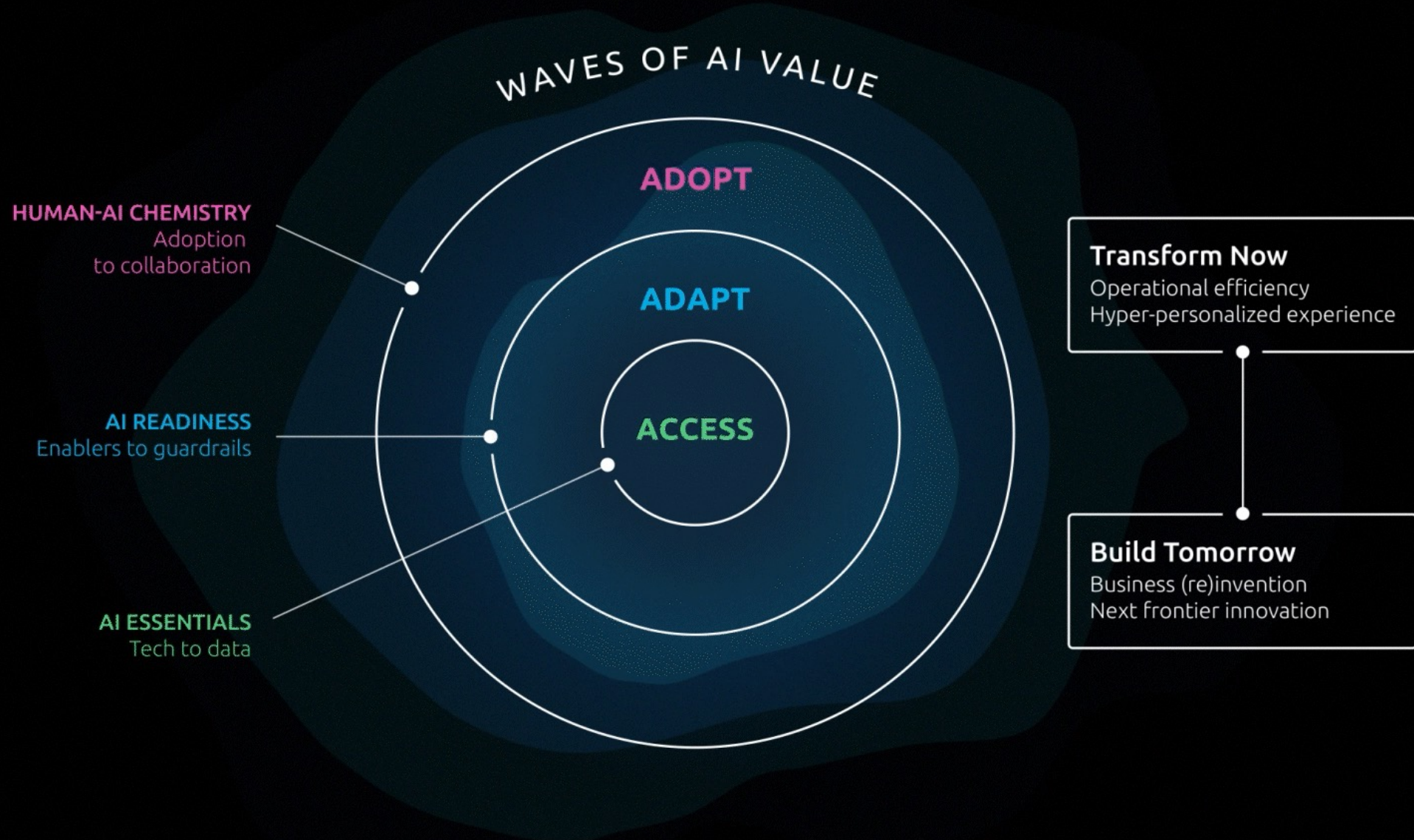
That would take again – assuming a simple Data Product – taking maybe two sprints. Plus 2-4 Sprints for the Use Case. ”

➤ Wouldn't it be nice to **reduce** that **time** and **increase** the **repeatability**?



# The Resonance AI Framework by Capgemini

*A strategic blueprint to unlock AI-driven transformation in the agentic age*







Only 1 in 5 organizations have a mature AI infrastructure

20%

of organizations report high maturity in any aspect of data-readiness

Only around 2 in 5 organizations have overall trust in GenAI for decision making

71%

of organizations say they cannot fully trust an autonomous AI Agent for enterprise

69%

say they have retained human expertise in their operational flow in case of failure of agents

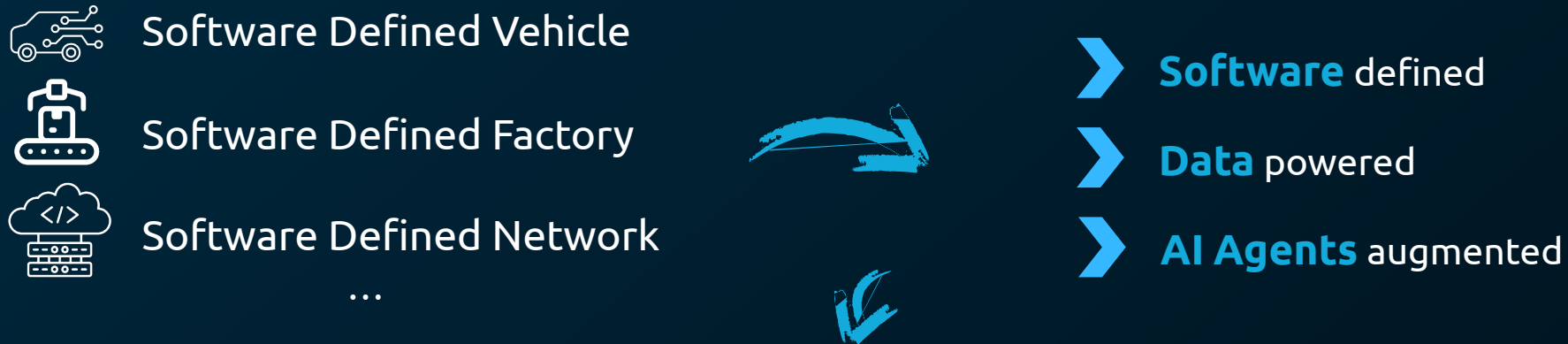
46%

are concerned that use of AI Agents can have unforeseen consequences



# The industry is transformation towards Software Defined Everything

The transition towards Software Defined Everything requires a fundamental change in Product & Software Thinking





## Assess and build capabilities, resources, and strategic alignment to effectively implement and adopt AI at scale

Multi-dimensional assessment of an organization's preparedness ensuring that AI initiatives are not only technically feasible but also strategically aligned, ethically sound, and sustainable in the long term.





# These FOUR Data Mesh principles manage the SCALE OF MODERN DATA ESTATES



DOMAIN ORIENTED DECENTRALIZATION



DATA AS A PRODUCT

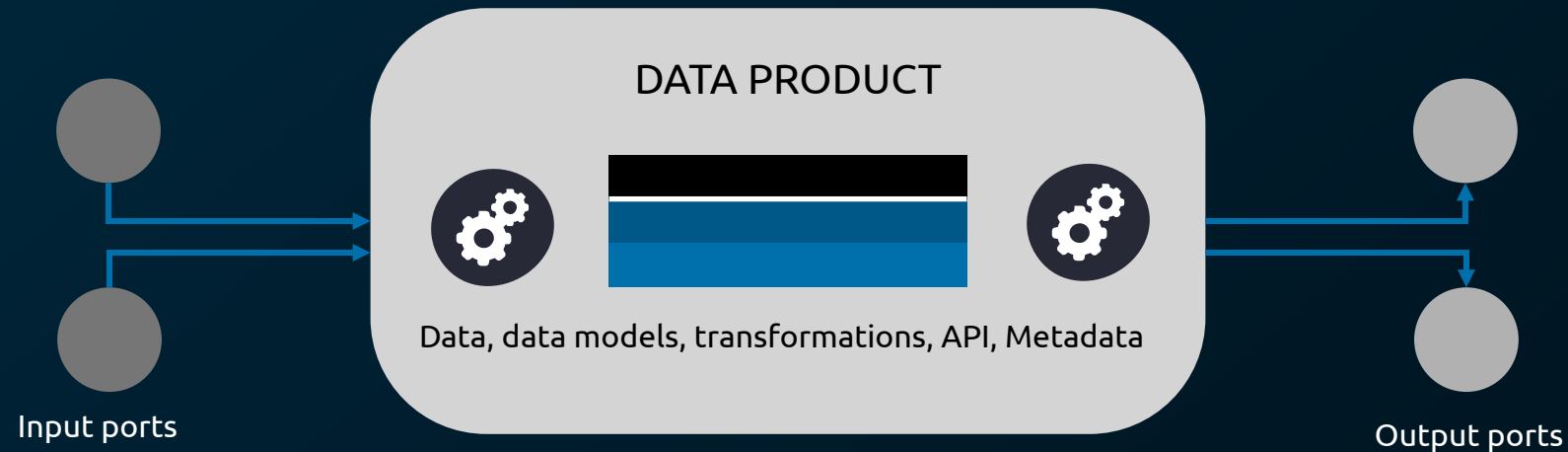


SELF-SERVE DATA INFRA AS A PLATFORM



FEDERATED COMPUTATIONAL GOVERNANCE

The Data Product comprises an ensemble of information objects belonging to a business capability and its required technical components





A large, dense pile of unsorted LEGO bricks in various colors including red, blue, yellow, green, white, black, and grey. The bricks are of different shapes and sizes, creating a chaotic and colorful background.

How to keep the Data & AI landscape out of chaos and maintain speed?

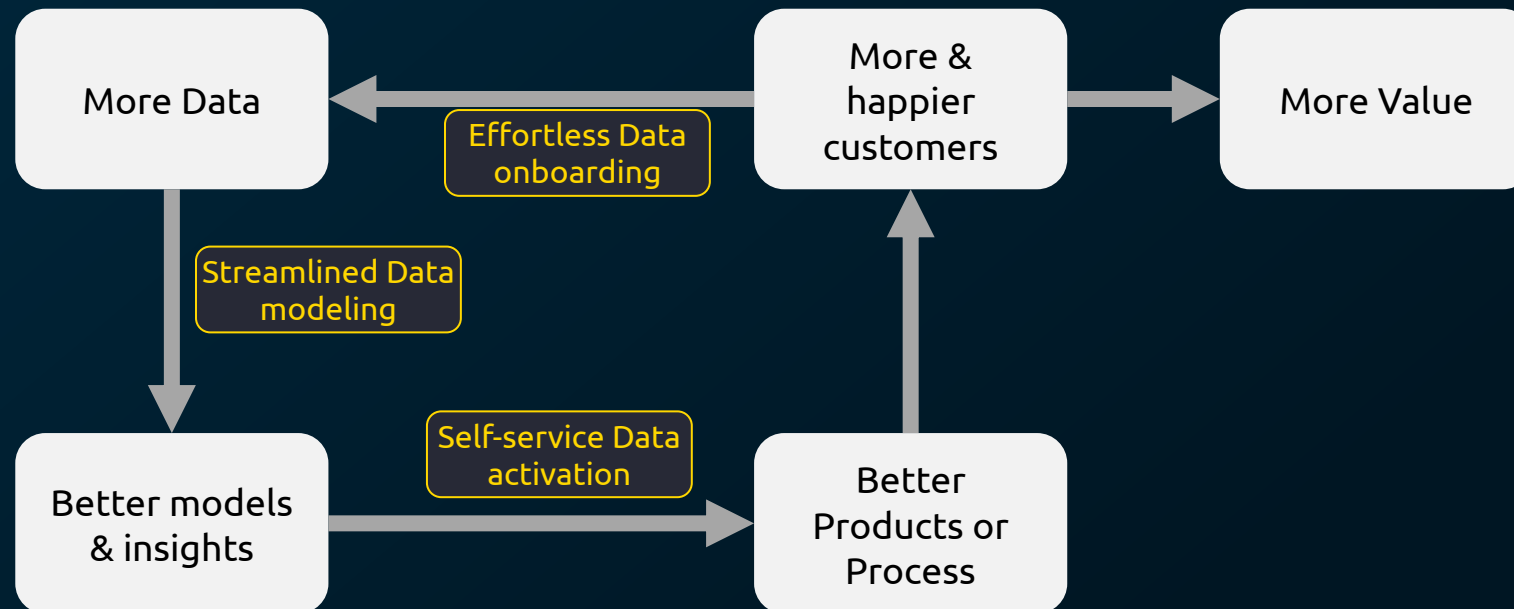




# Golden Paths optimize the development experience for day 2+, not just day 1



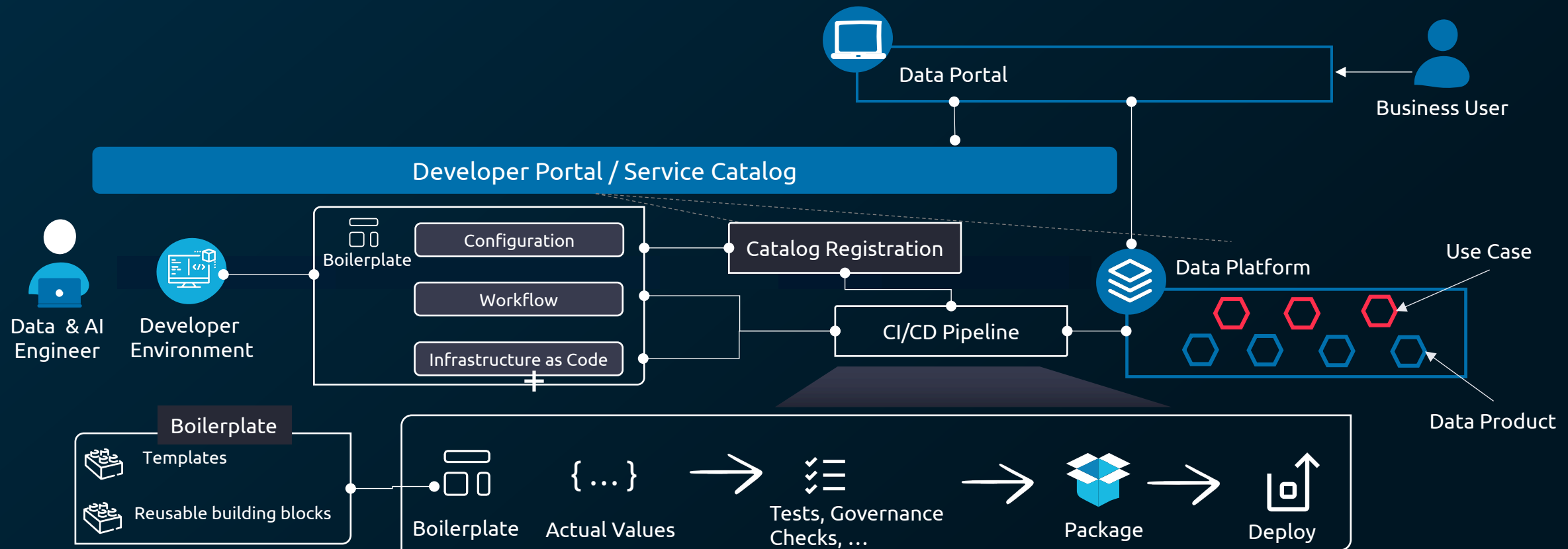
the platform offers some form of pre-architected and supported approaches to building and deploying a particular piece of software<sup>(1)</sup>





# The Internal Developer Portal acts as a self-service store for Data & AI Engineers

They can leverage the IDP capabilities to streamline and accelerate Data & AI product creation







# Using Backstage as the InnerSource Portal provides many benefits



## Software Catalog

- Metadata driven approach to add new and find components (libraries, ML & AI Models, documentation, ...)
- Meant to build an ecosystem, not a wilderness
- Discovery through graph representation



## Software Templates

- Spin up new projects based on defined flows and standards
- Repository creation and possible CI/CD integration
- Fully customizable templates



## TechDocs

- Doc as code approach (Markdown) with integrated rendering
- Automatically included in Software Templates
- Documentation included in search



# This short demo shows the capabilities of Backstage to scaffold a Data Product

The screenshot displays the 'My Company Catalog' interface in a web browser. The browser's address bar shows 'localhost'. The interface features a dark theme with a green header bar. On the left, a sidebar contains navigation links: Home, APIs, Docs, Tech Radars, ToolBox, and Create... Below these are filters for Kind (set to 'Component'), Type (set to 'all'), and a section for 'PERSONAL' (Owned: 0, Starred: 0) and 'MY COMPANY' (All: 2). At the bottom of the sidebar is a 'Settings' link. The main content area is titled 'All Components (2)' and includes a search filter. It contains a table with the following data:

NAME	SYSTEM	OWNER	TYPE	LIFECYCLE	DESCRIPTION	TAGS	ACTIONS
Data & AI Backstage		ame.rossmann@capgemini.com	website	production	Data & AI...		[Icon] [Icon] [Icon]
example-website	examples	guests	website	experimental			[Icon] [Icon] [Icon]



# Companies benefit from the IDP adoption by getting reliability, sustainability, agility and speed



## Speed & Consistency

- Standardized starting point → no reinvention.
- CI/CD & validation pre-baked → faster time-to-value.



## Governance by Design

- Schema validation, logging, catalogue registration built-in.
- Compliance & discoverability are automatic.



## Reusability & Modularity

- Extend with validation, feature stores, or agent toolkits.
- Assemble solutions like LEGO blocks.



## Democratized Innovation

- Business teams create data products/AI without infra expertise.
- Self-service via IDP accelerates domain innovation.



## Quality & Reliability

- Golden paths reduce errors, enforce trustworthiness.
- AI/Agentic AI safety checks baked in.

Time for spinning up a new service:  
from 2-3 weeks down to **< 1hr**

Volvo Cars (\*)

Minimum **15.000 hrs saved** on  
waiting time

IKEA (\*)

Time to get first code deployed: from  
1-2 months to **5mins.**

H&M (\*)





# The Golden Path to a Data-Powered & AI-Augmented Enterprise

To achieve **Data & AI Mastery** and leverage the **Value** from **Data**



**Operated** Data-Driven Analytical Use Cases



**Fast & Reliable** Data Product & Use Case delivery



**Cloud native, Data & AI ecosystem** which supports Data & AI Engineers & Business Users



Follow ~~the White Rabbit~~



The Golden Path



## About Capgemini

Capgemini is a global business and technology transformation partner, helping organizations to accelerate their dual transition to a digital and sustainable world, while creating tangible impact for enterprises and society. It is a responsible and diverse group of 340,000 team members in more than 50 countries. With its strong over 55-year heritage, Capgemini is trusted by its clients to unlock the value of technology to address the entire breadth of their business needs. It delivers end-to-end services and solutions leveraging strengths from strategy and design to engineering, all fueled by its market leading capabilities in AI, generative AI, cloud and data, combined with its deep industry expertise and partner ecosystem. The Group reported 2024 global revenues of €22.1 billion.

Get the future you want | [www.capgemini.com](https://www.capgemini.com)

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