



PUBLIC SECTOR SYMPOSIUM

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AWS for Data Spaces: Share data across organisations securely

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Why are you here?

- To understand what Data Spaces are...
- ...Why they matter to our customers
- ...What AWS for Data Spaces offers
- And...to take action

What problem are we solving?

- Data on its own has limited value
- Actionable insights are generated when data is aggregated
- Most of the world's data sits idle
- Sharing data securely across organizations is not new
- Sharing it while being able to retain control is!

Use case: Energy Data Space

- Sustainability requires digitalization
- The energy sector holds a large amount of information, that however is very often not utilized
- Energy platforms (electricity, gas, heat...) need to become interoperable
- To verify environmental credentials, so called guarantees of origin (Gos) need to be issued and attributed in real time
- This requires trusted, multi-party information sharing at scale
 - Issue certificates related to asset sensor data
 - Transfer certificates between market participants)
 - Retire certificates based on timely (e.g. 15 minutes) asset sensor data



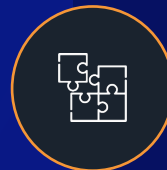
AWS customers want to share data with a trusted community of organizations, but face challenges



Data siloes



Lack of trust



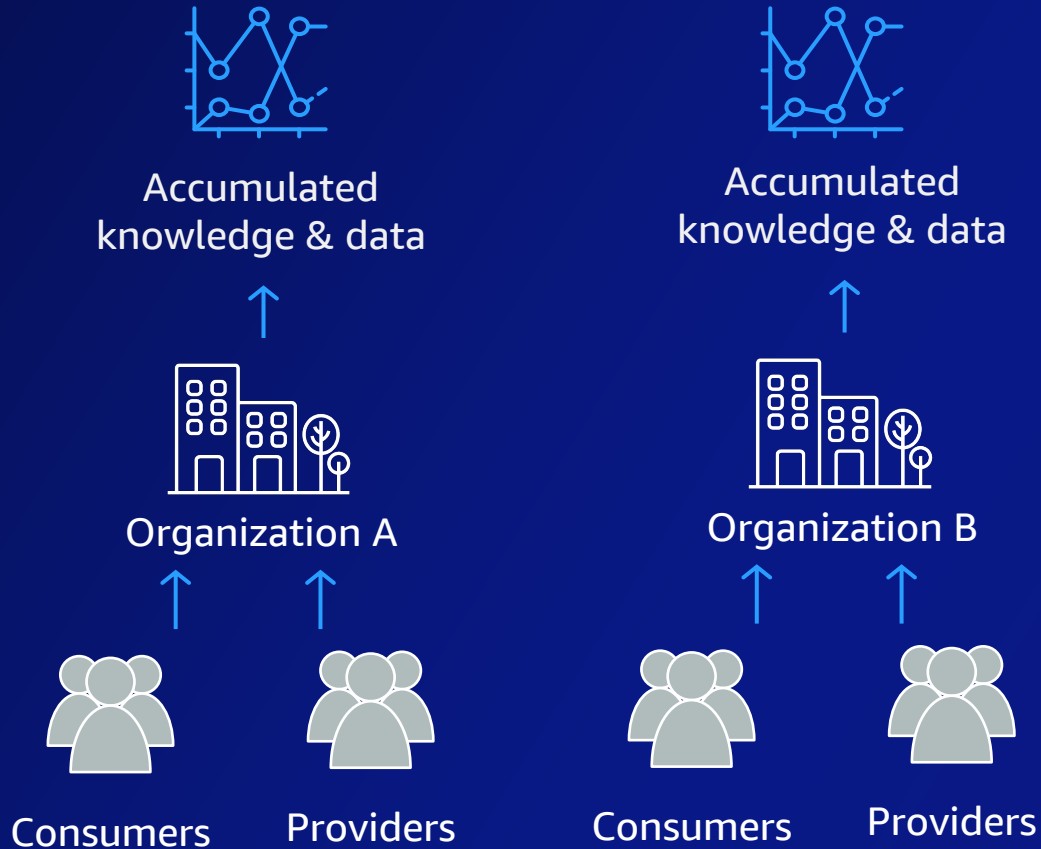
Lack of standards

What are Data Spaces?

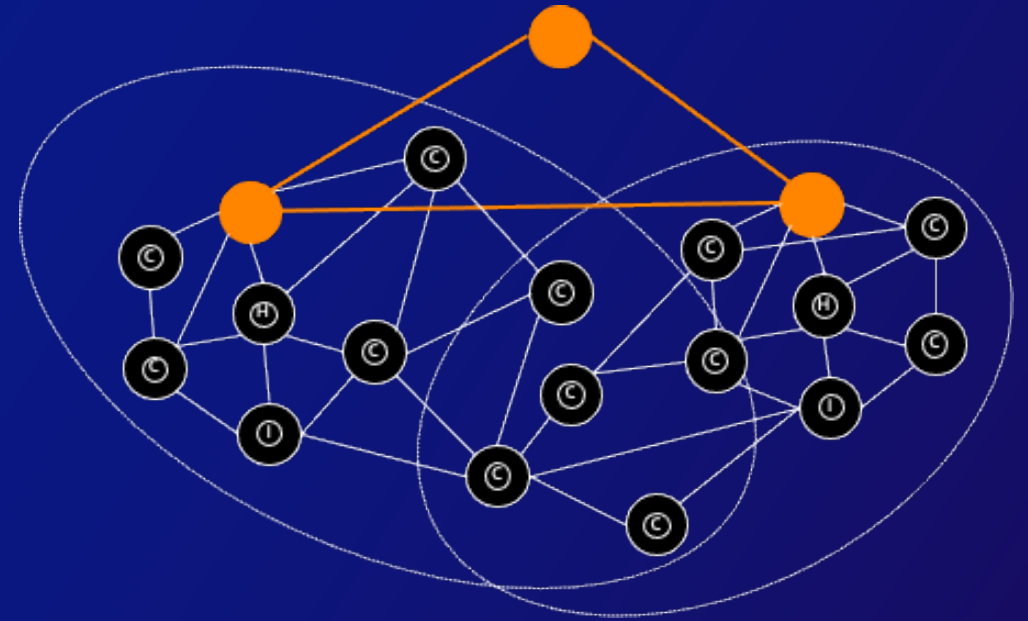


Data spaces for inter-organizational data sharing

Data silos across organizations

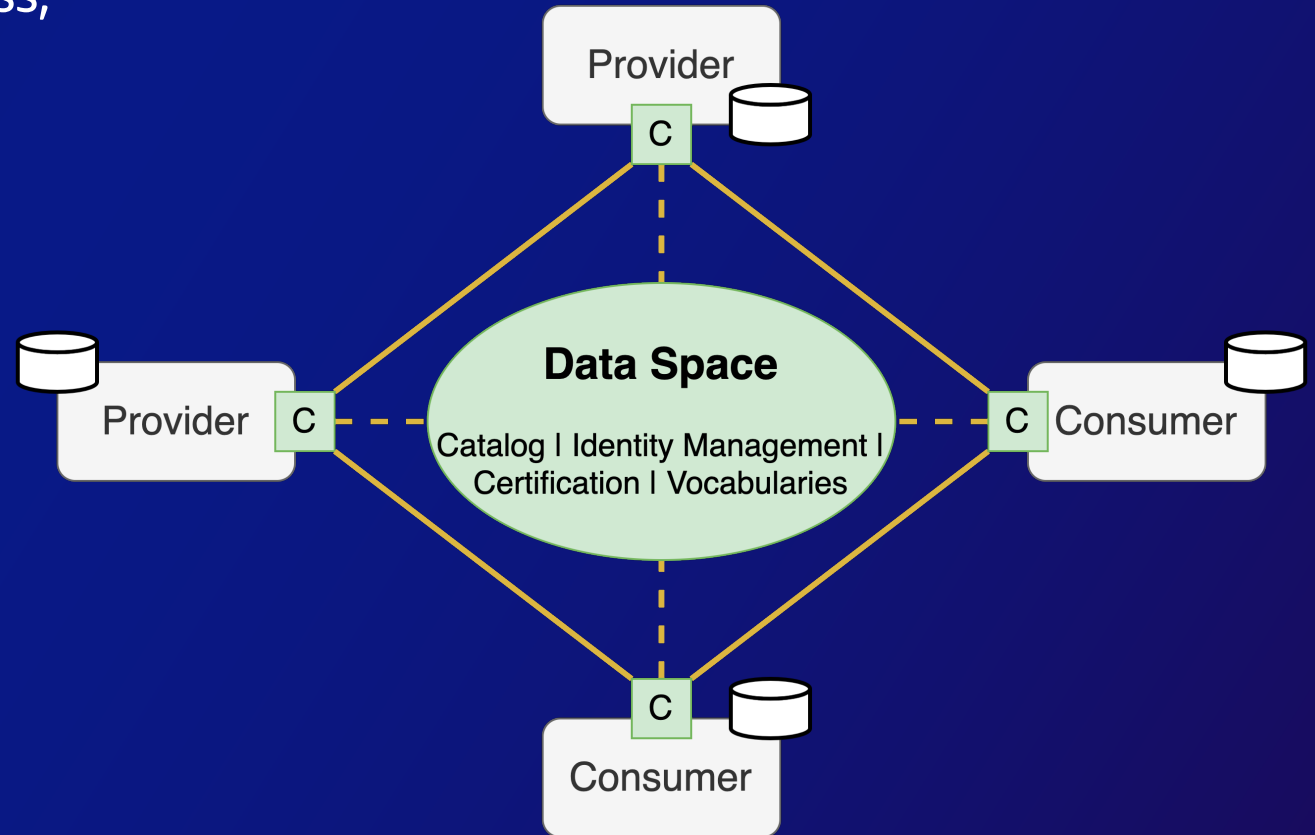


Data Space

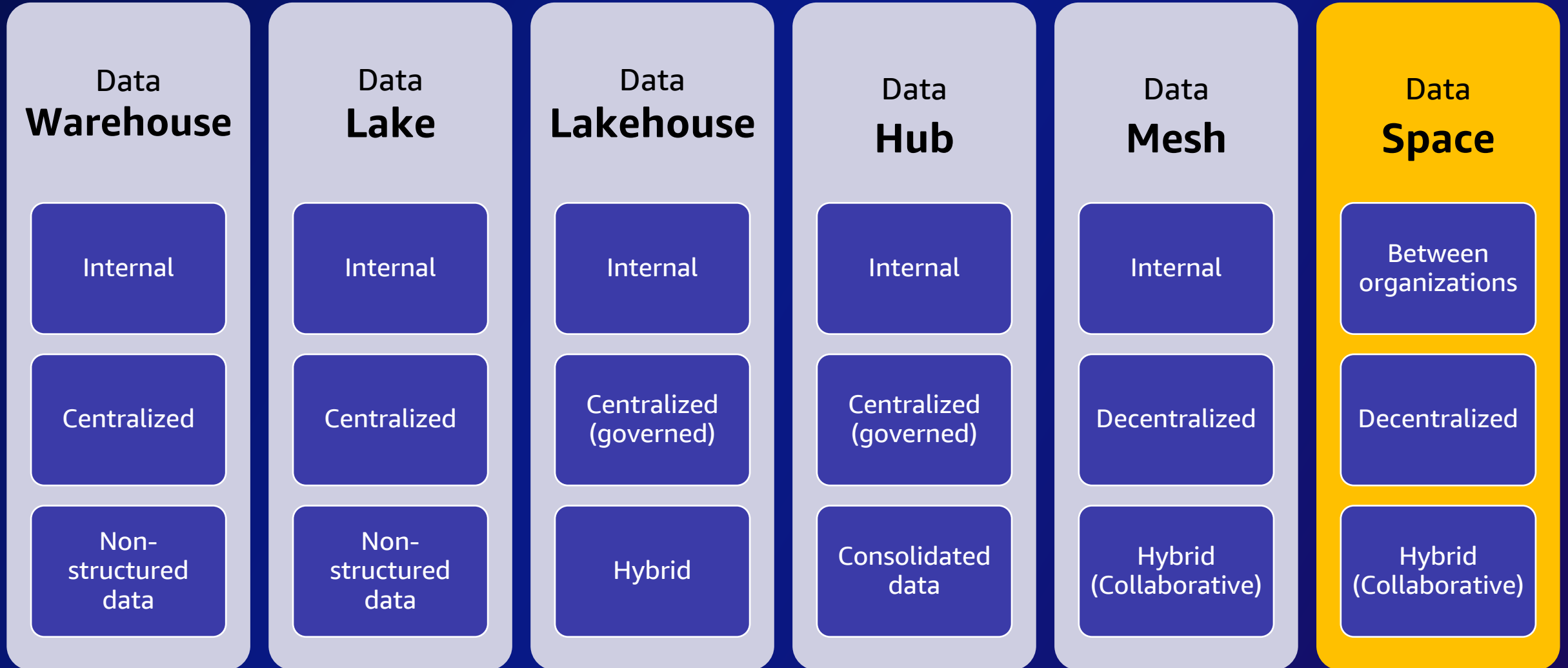


Key requirements of a Data Space

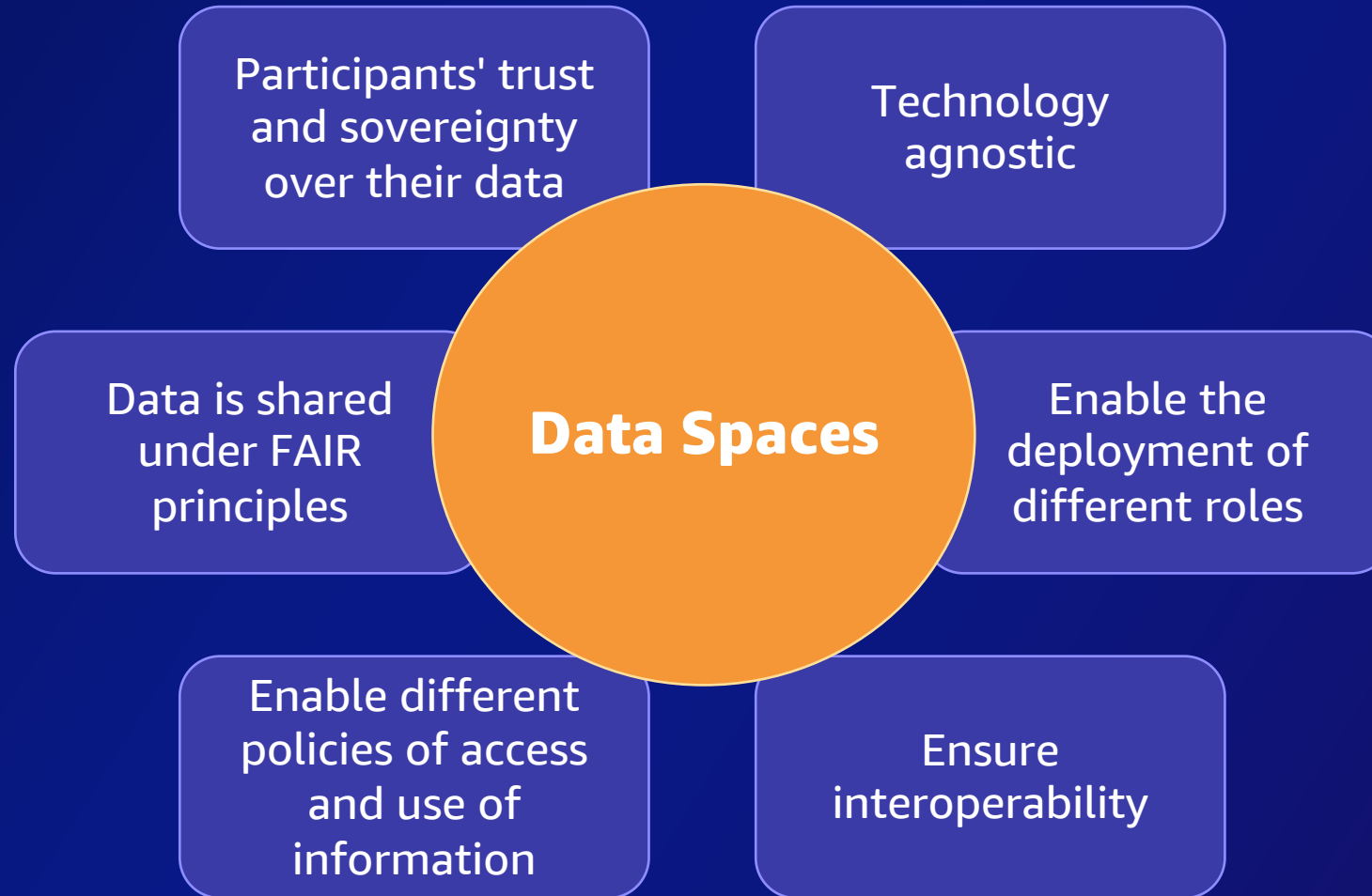
- Participants want to pool, access, process, use and share data
- Open and decentralized data exchange
- Software functionality for data sovereignty and trust
- Standard building blocks
- Interoperability and portability



Cooperation on data



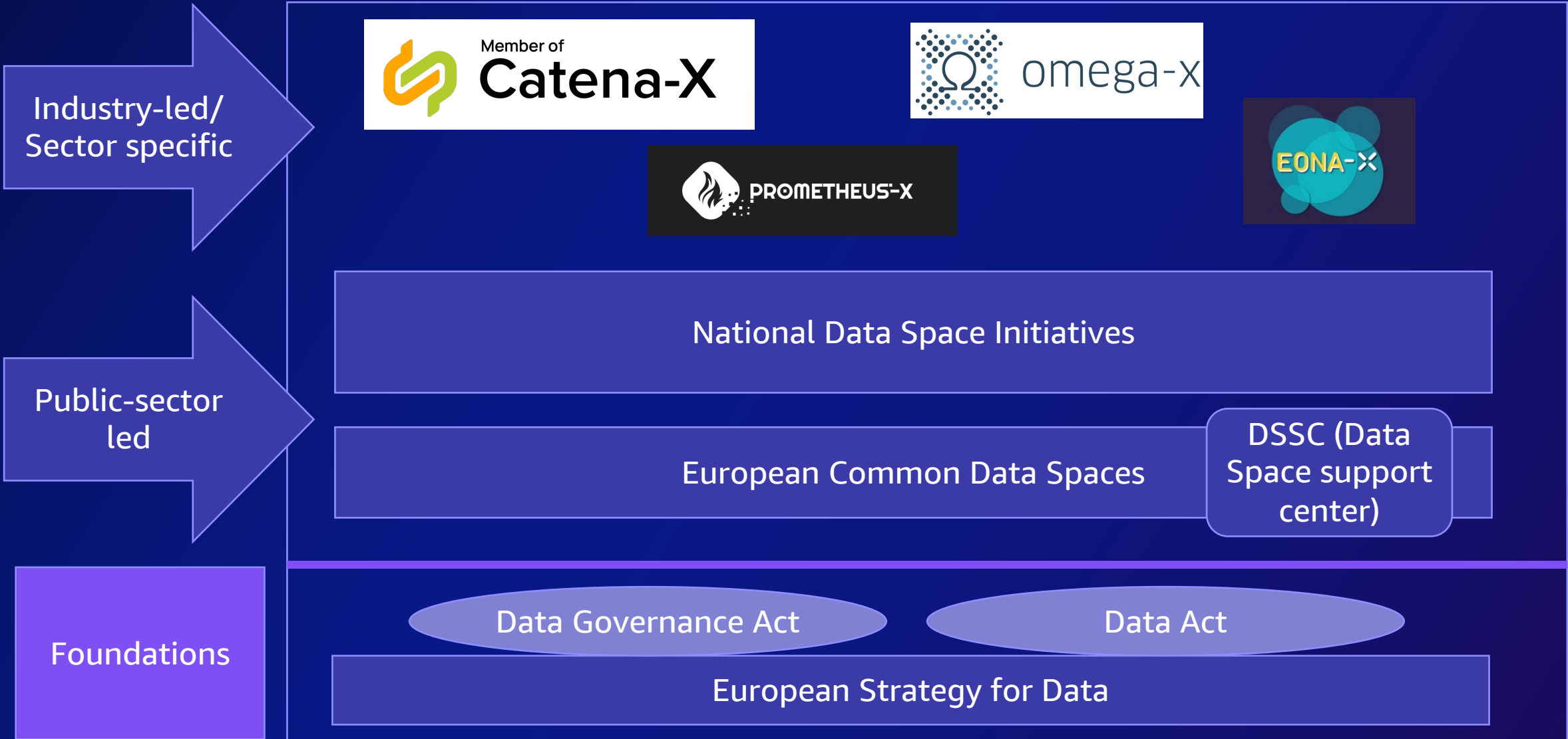
Benefits of Data Spaces



Data Spaces landscape



Key initiatives



Common European Data Spaces



Mobility

Preventing car accidents through local hazard tracking via car sensors and data-sharing



Energy

Creating better models to understand the renewable distribution systems



Industrial & Manufacturing

Achieving supply chain transparency through an automatized exchange of data between all involved supply chain parties



Public administration

Increasing transparency and integrity through linking industry data and public procurement data across Europe



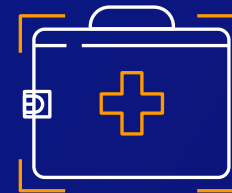
Green Deal

Creation of open digital solutions for identification, tracking, mapping, integrity-check and sharing of product information.



Skills

Modelling educational trends and guidance pathways to improve tailor-made counselling



Health

Identifying patients of high risk of disease by integrating long-term follow-up data from hospitals and health insurers

...Financial
...Agriculture
...Open Science Cloud (Research)
...Media
...Cultural Heritage

Common European Data Spaces



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Preventing car accidents through local hazard tracking via car sensors and data-sharing



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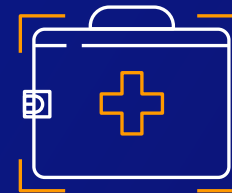
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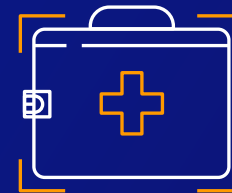
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AWS and Catena-X



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Catena-X
Automotive Network

AWS joined Catena-X in January 2023

AWS Contributions:

- AWS reference solution for Catena-X
- Improved integration of the Eclipse Dataspace Components (EDC) into AWS
- Participation in Catena-X working groups for selected Catena-X use-cases

Data Spaces and AWS



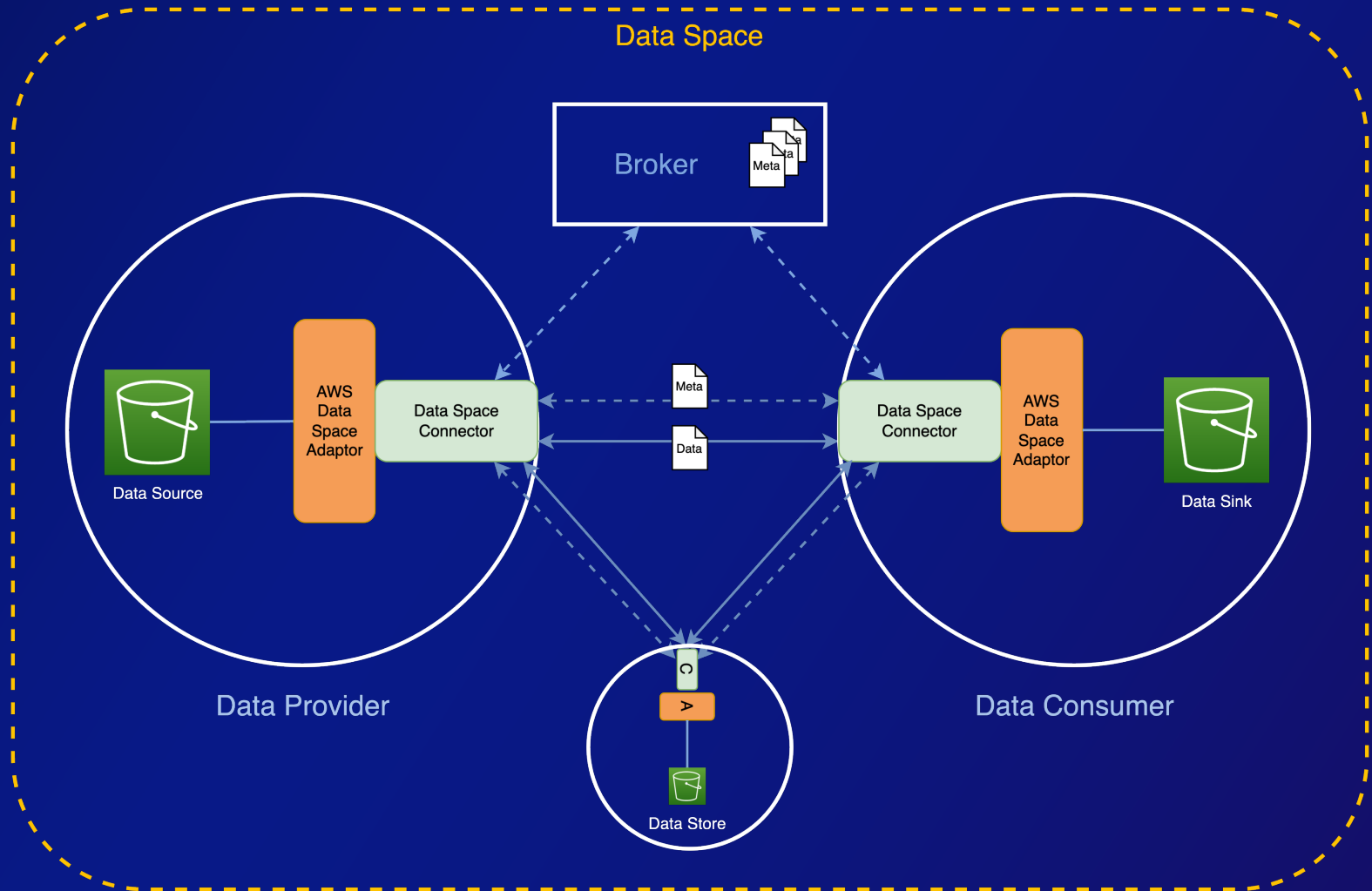
The AWS role in Data Spaces

1. Trusted infrastructure provider for data spaces to contribute the building blocks to customers who create, manage and use a Data Space.
2. Provider of prescriptive guidance to help accelerate Data Space deployments on AWS.
3. Supplier of data services, that can be used to extract value from data in Data Spaces.

Data Spaces on AWS



Data Spaces on AWS – high level architecture



The AWS difference

AWS and our APN Network can help you accelerate creating and joining Data Spaces.



Most functionality



Fastest pace of innovation



Fine-grained control



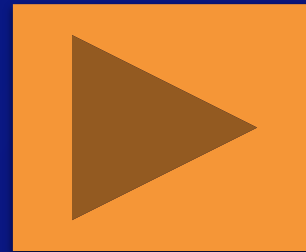
Best place to build and run open source e.g. the EDC components



AWS Digital Sovereignty Pledge: Control without compromise

How can you get involved?

1. Come join us at our booth to see the demo of the EDC components on AWS.
2. Reach out to learn more about Data Space solutions on AWS.
3. Let us explore how you can benefit from a Data Space with our Data Spaces Innovation Workshop.



Additional resources



[AWS Blogpost: Enabling data sharing through data spaces and AWS](#)



[AWS Blogpost: Learn more about our involvement in Catena-X](#)



[AWS Blogpost: Read about AWS' work with Gaia-X](#)

Thank you!

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