



The Ecosystem of Catena-X

05.12.2024

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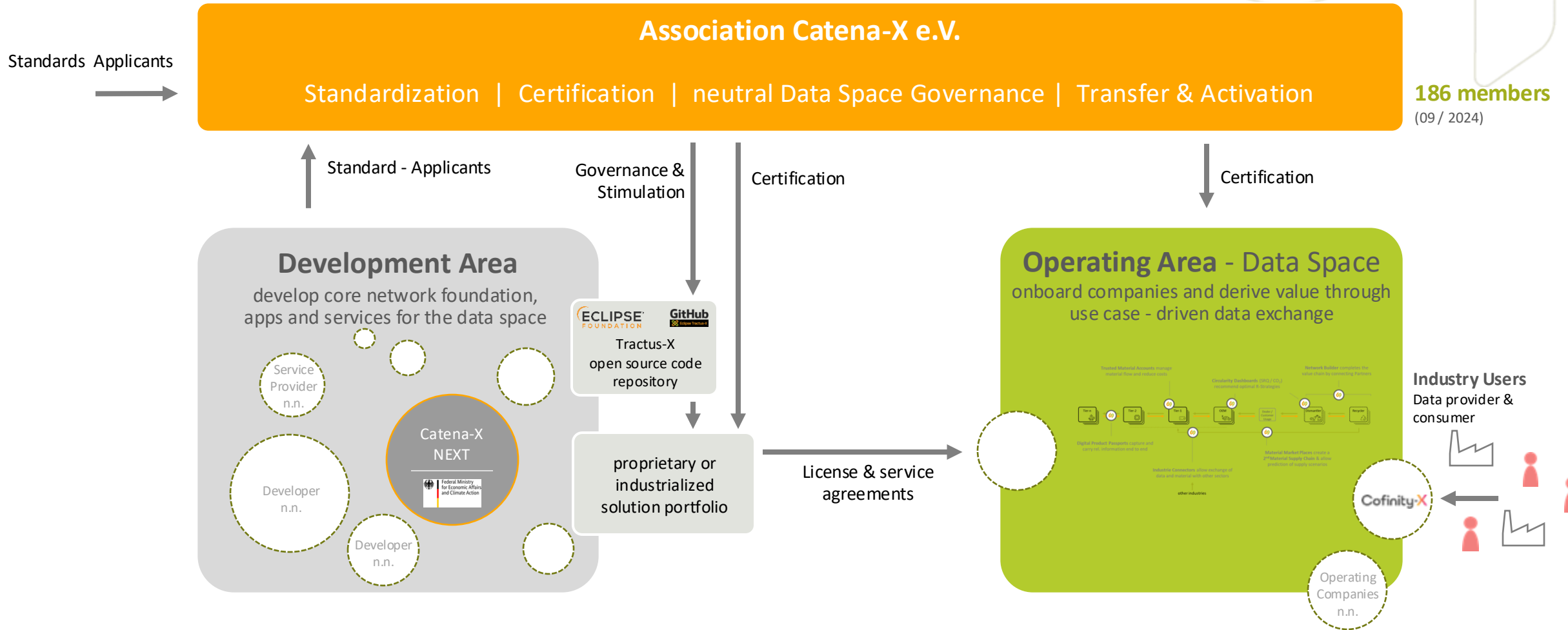
MD Value Creation & Technology
Catena-X Automotive Network e.V.

The background features large, stylized, overlapping shapes filled with fine, parallel lines. One shape is orange and another is green, creating a layered, 3D effect. The lines are closely spaced and run in the same direction within each shape.

1 Overview of the Ecosystem



Organizing the activities of Catena-X













The background features a large, stylized graphic composed of two interlocking, rounded shapes. The left shape is filled with orange diagonal stripes, and the right shape is filled with green vertical stripes. The text is positioned in the white space between these two shapes.

2 The Catena-X Automotive Network e.V.



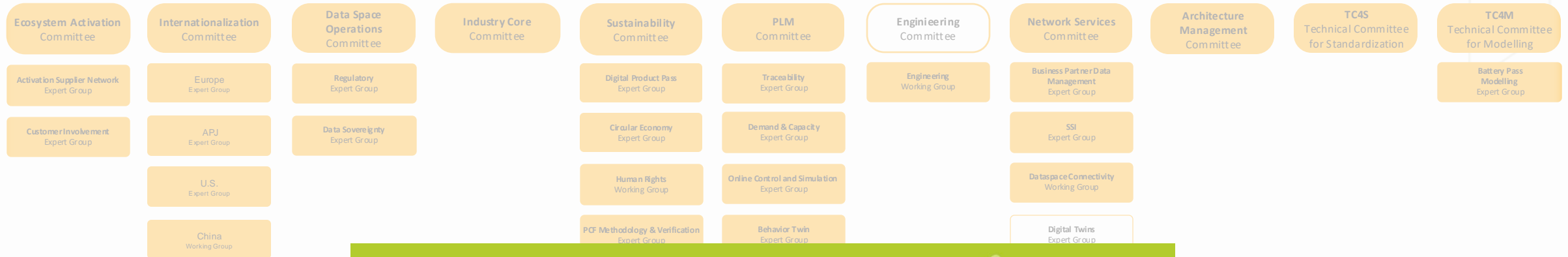
Catena-X Association – Purpose and tasks

-  Bundling of the interests of the **Association members** for **technical standards**
-  Development and promotion of **common standards and principles**
-  Formulation of requirements for the creation of a **neutral industry network** based on GAIA-X and IDSA
-  Certifying and promoting **interoperable applications and implementations**
-  Stimulate the **Open source** development
-  Promotion of the distribution and internationalization of the objectives of the Association
-  Promotion of **cooperation** between science, research and industry
-  Selection and qualification of suitable Service Providers (Solution Partners)
-  Promoting the establishment of **end-to-end data chains**
-  Promotion of education, training and **qualification**



Catena-X Association – Association bodies

(Status November 2024)



- 10 Committees
- More than 20 Expert Groups
- 90 actively participating companies
- More than 300 active experts in our association bodies

Association Bodies

- Operational
- Announced



Working Model

- Comprehensive guide to understanding the organizational structure, the specific roles within the association, and the interrelation between Catenax and Tractus-X
- Includes detailed information on **planning, building** and testing (Plan and Build), contrasting with the Operating model that describes the model for the production/live environment (Run).
- **Non-Normative**
- Part of the Catenax – Library (<https://catenax-ev.github.io>)

<https://catenax-ev.github.io/docs/working-model/overview>

The screenshot shows the 'Overview of Release phases a processes' page. It features a navigation sidebar on the left with categories like 'Catenax-X Ecosystem', 'Organizational Structure', and 'Process Structure'. The main content area has a title 'Overview of Release phases a processes' and a sub-section 'Release: CK-Jupter (current)'. Below the text, there is a flowchart diagram with three main categories: 'Tractus-X', 'Catenax-X', and 'Organizational'. Each category has a series of steps represented by icons and text boxes. The Tractus-X path includes 'Plan', 'Build', and 'Release'. The Catenax-X path includes 'Plan', 'Build', and 'Release'. The Organizational path includes 'Plan', 'Build', and 'Release'. The diagram is color-coded with green for Tractus-X, orange for Catenax-X, and blue for Organizational.

The screenshot shows the 'Development Environment' page. It features a navigation sidebar on the left with categories like 'Catenax-X Ecosystem', 'Organizational Structure', and 'Process Structure'. The main content area has a title 'Development Environment #'. Below the text, there is a flowchart diagram showing the relationship between 'Catenax-X Association', 'Catenax-X Release', and 'Tractus-X Release'. The Catenax-X Association is at the top, with arrows pointing to 'Catenax-X Release' and 'Tractus-X Release'. Below 'Catenax-X Release' are 'Other commercial documents' and 'Standards'. Below 'Tractus-X Release' are 'KPIs' and 'Products'. The diagram is color-coded with orange for Catenax-X and blue for Tractus-X.

The background features two large, overlapping, stylized shapes. The left shape is filled with orange diagonal stripes, and the right shape is filled with green vertical stripes. Both shapes have a white, irregular cutout in the center.

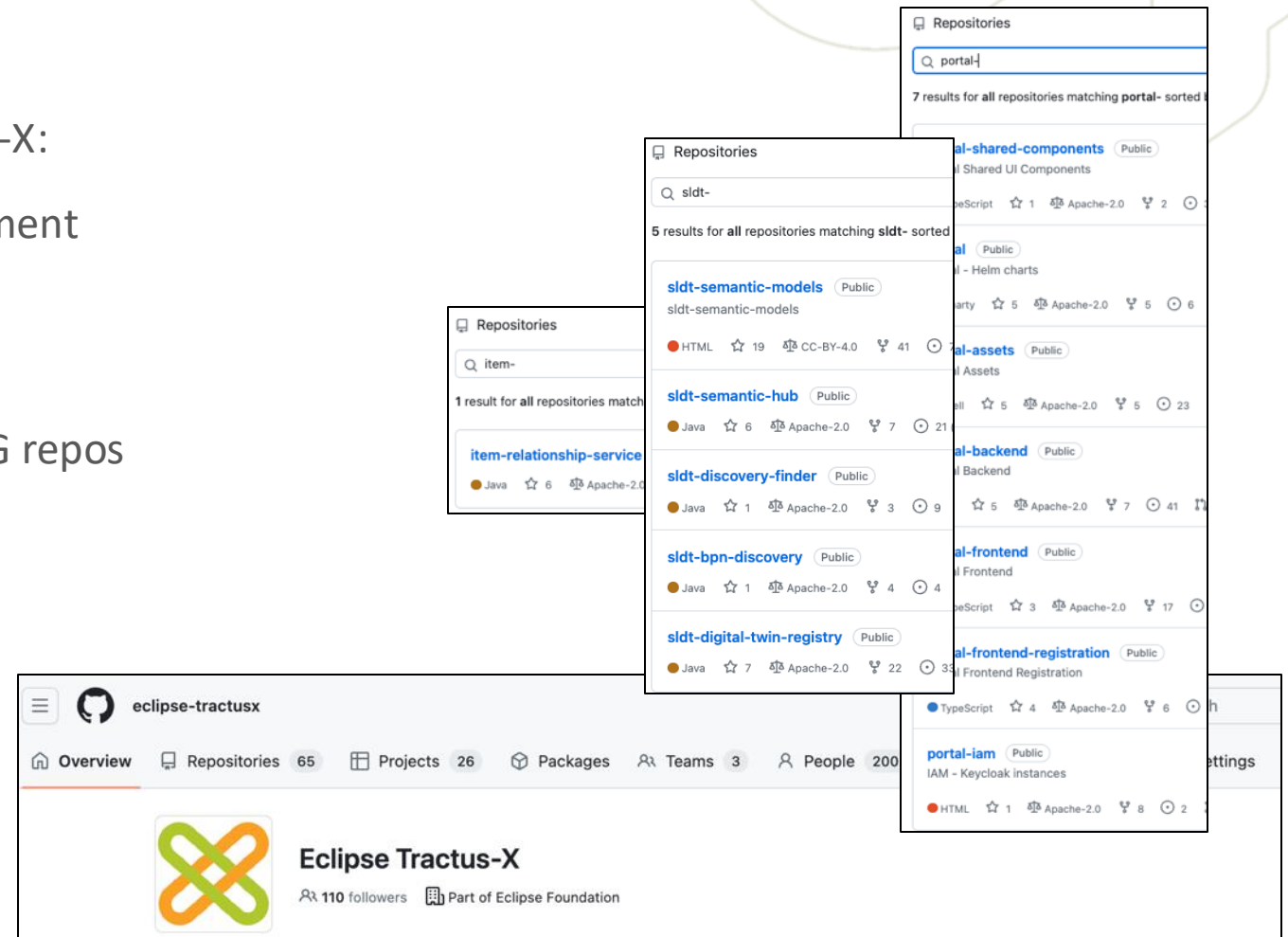
3 Tractus-X – Development based on Open Source



Tractus-X – started as the open source base of Catena-X

Tractus-X - the reference implementation of Catena-X:

- ❏ Source code, technical documentation, deployment open source project
- ❏ Hosted on GitHub github.com/eclipse-tractusx
- ❏ ~70 product repos (~20 products), couple of SIG repos
- ❏ Provides new releases four times a year
- ❏ Under the umbrella of the Eclipse Foundation





Eclipse Foundation Development Process

eclipse.org/projects/dev_process

- ⌘ Open Source Rules of Engagement
- ⌘ Openness, transparency, meritocracy
- ⌘ Governance structure
- ⌘ Roles
- ⌘ Provides a framework for project lifecycle management (releases and reviews)
- ⌘ Project teams make project decisions
- ⌘ Committers are in charge

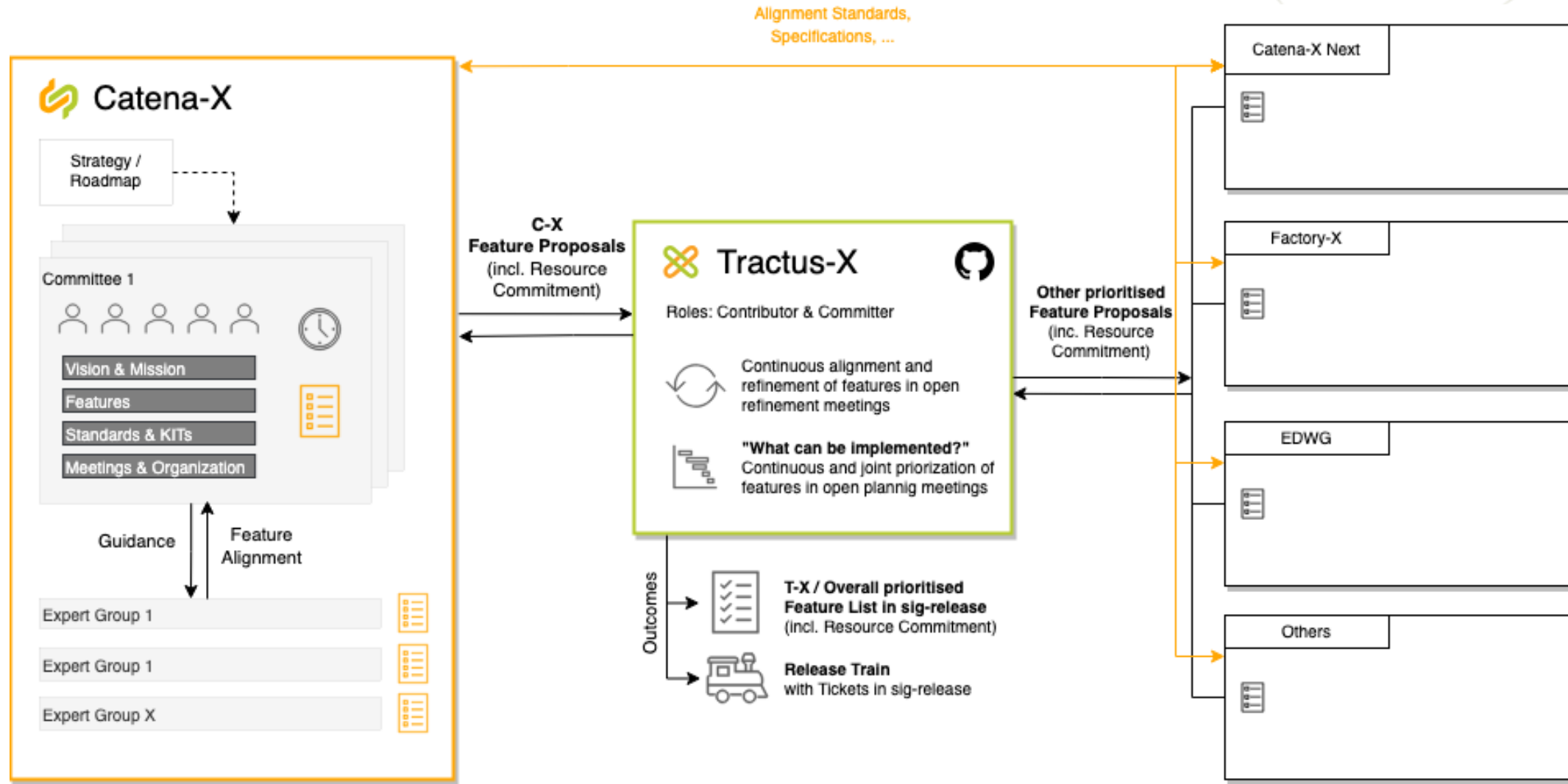
Strategies for decision making

- ⌘ Voting
- ⌘ Rules
- ⌘ Everything in public





Cooperation Model for Tractus-X



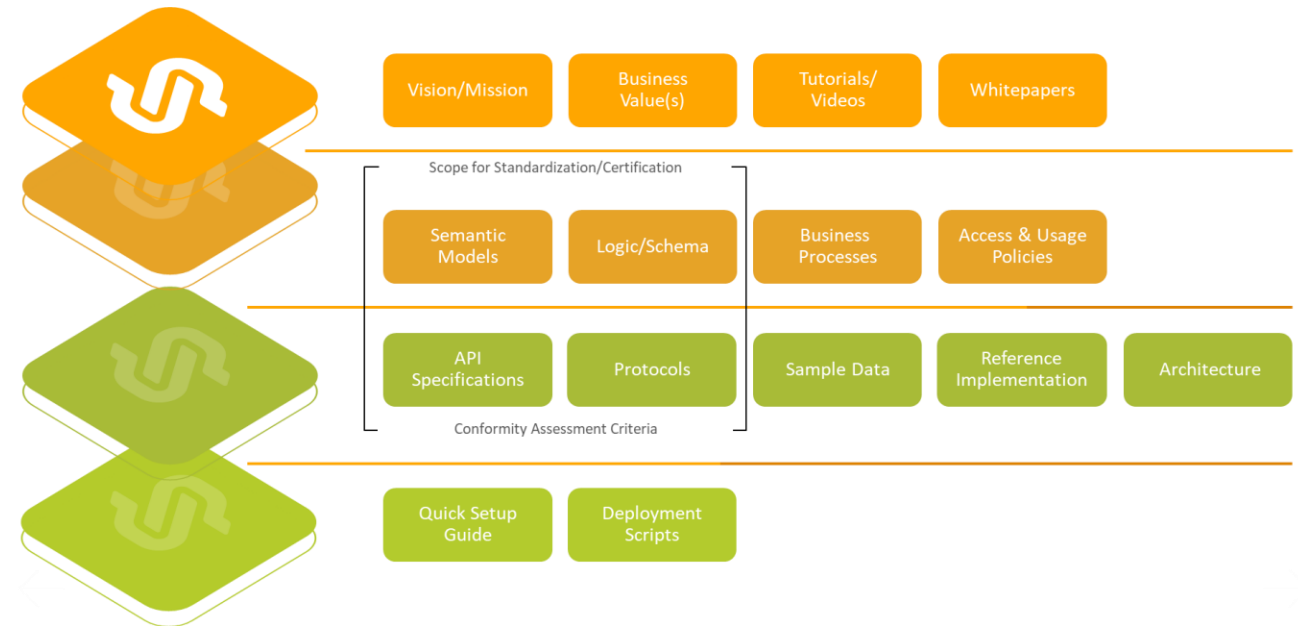


KITs – the foundation of each Business Solution

One dedicated KIT per Business Problem



... and many more!



Publicly available under: <https://eclipse-tractusx.github.io/Kits>

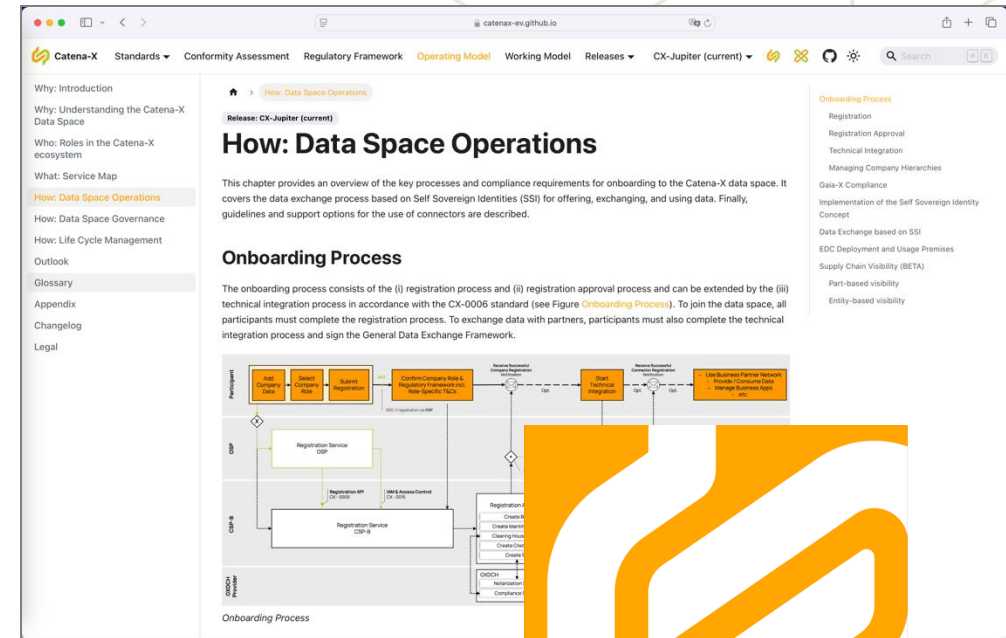
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4 The Operating Environment

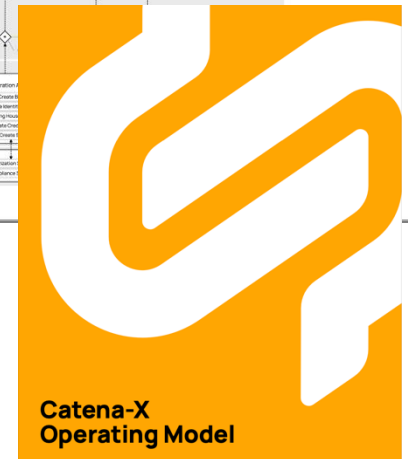


The Operating Model

- Defines the operating model and processes required within the Catena-X ecosystem
- Describes the entire Catena-X ecosystem, focusing on the operating environment and its roles, processes, and solutions, and how they interact (“Run“)
- **Normative** (outline rules, guidelines, and characteristics for activities and results for all participants within the Catena-X ecosystem)
- Part of the Catena-X – Library (<https://catenax-ev.github.io>)



<https://catenax-ev.github.io/docs/operating-model/why-introduction>

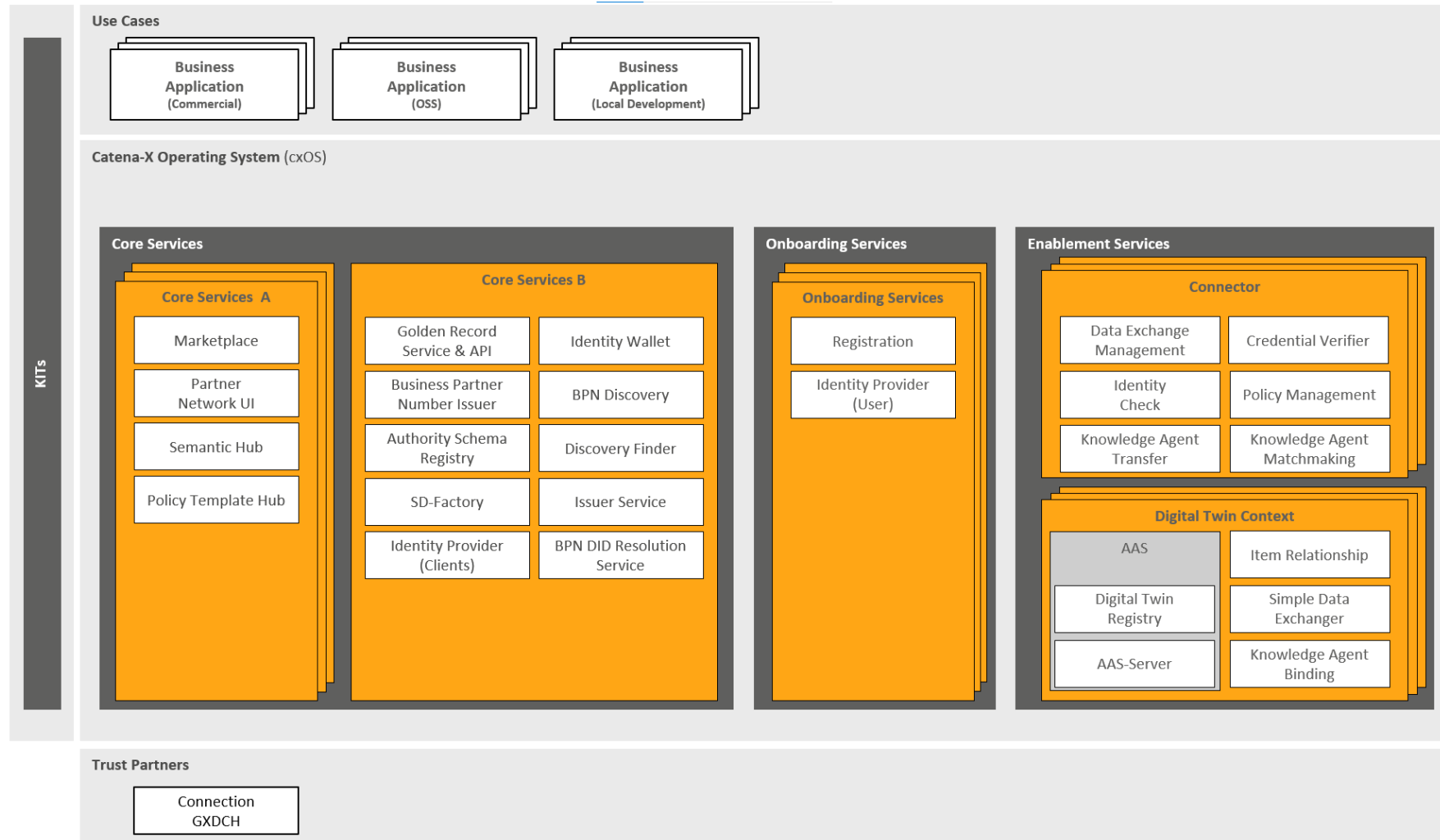


Released October 16, 2023
Released Version 21

Catena-X
Your Automotive Network



Core Services in the Dataspace

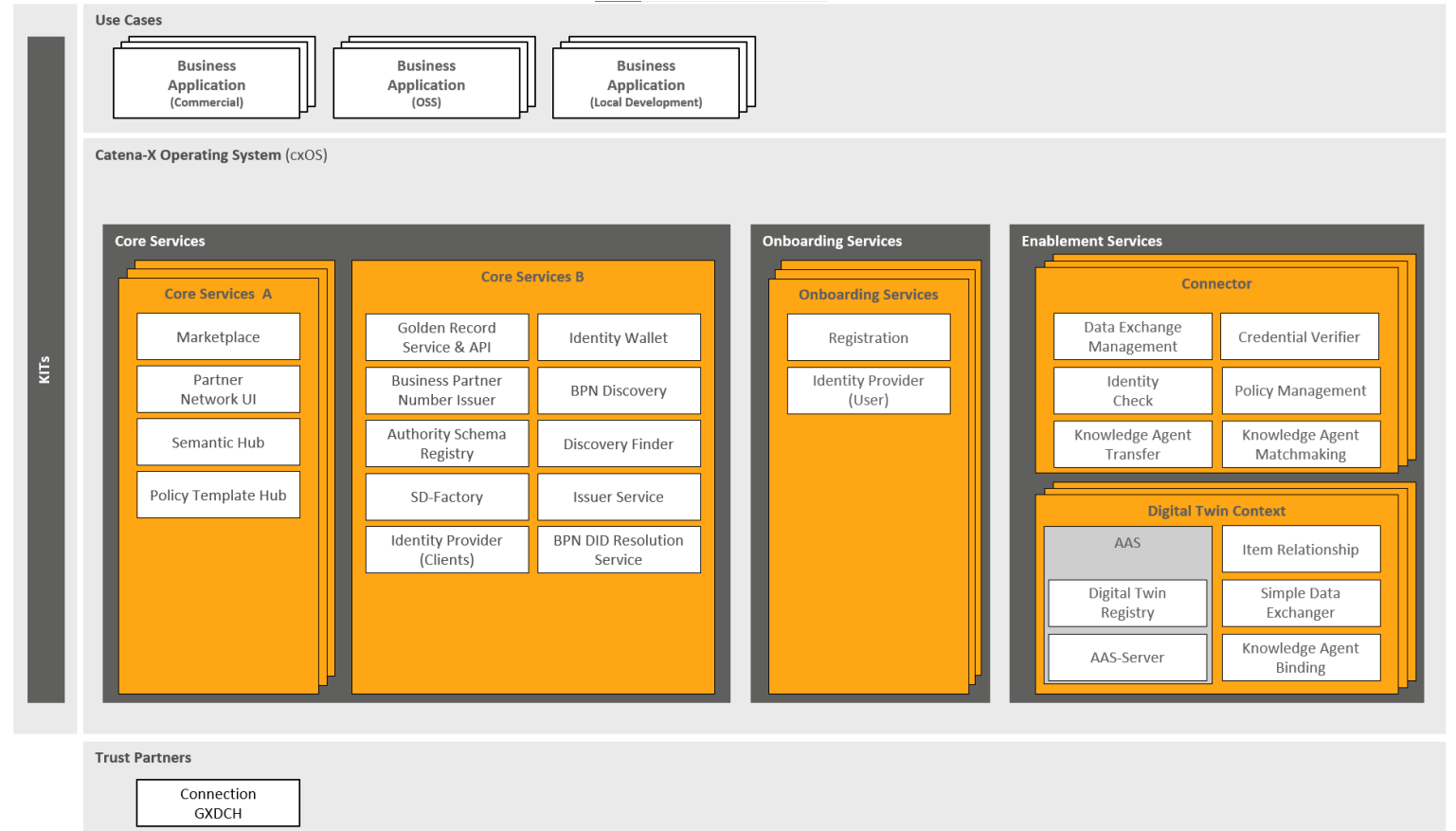




Core Services in the Dataspace

Cofinity-X

- 1st Operating Company in Catena-X
- Operates Core Services A and B
- Independent Company, selected by Catena-X Association



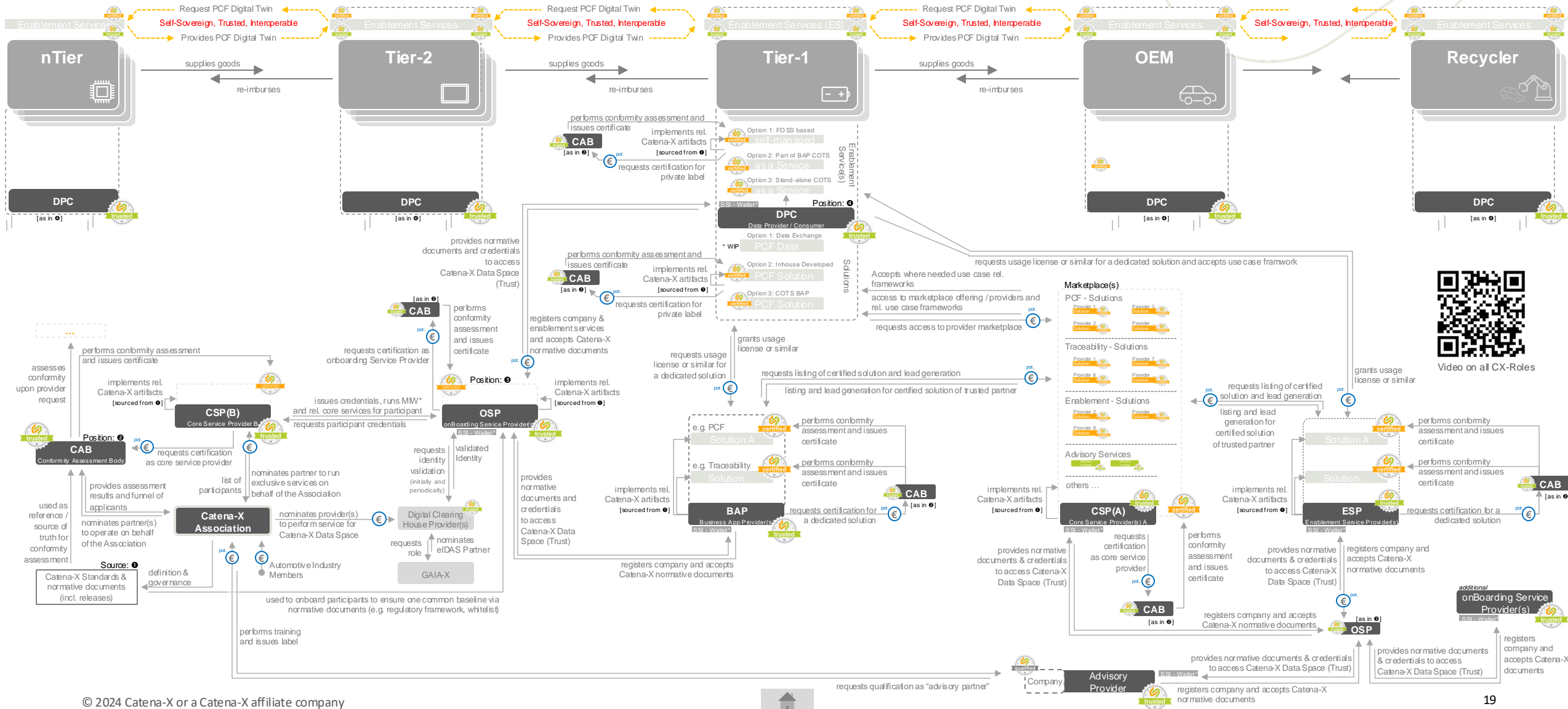


More roles are needed for a successful ecosystem

- **Onboarding Service Provider (OSP):** Facilitates the registration, onboarding, and offboarding of participants within the Catena-X data space.
- **Enablement Service Provider (ESP):** Offers services that enable sovereign participation and data exchange for data providers and consumers within the Catena-X data space.
- **Business Application Provider (BAP):** Develops and offers business applications that address specific business issues within the Catena-X data space.
- **Advisory Provider (AP):** Offers consulting services in areas such as strategy, operations, technology, or business use cases related to the Catena-X data space.
- **Data Provider and Consumer (DPC):** Entities that provide and process data to interoperate with other ecosystem participants using core and data services and business applications.
- **Conformity Assessment Body (CAB):** Performs conformity assessments as part of the certification process to ensure that solutions meet relevant requirements.



More roles are needed for a successful ecosystem



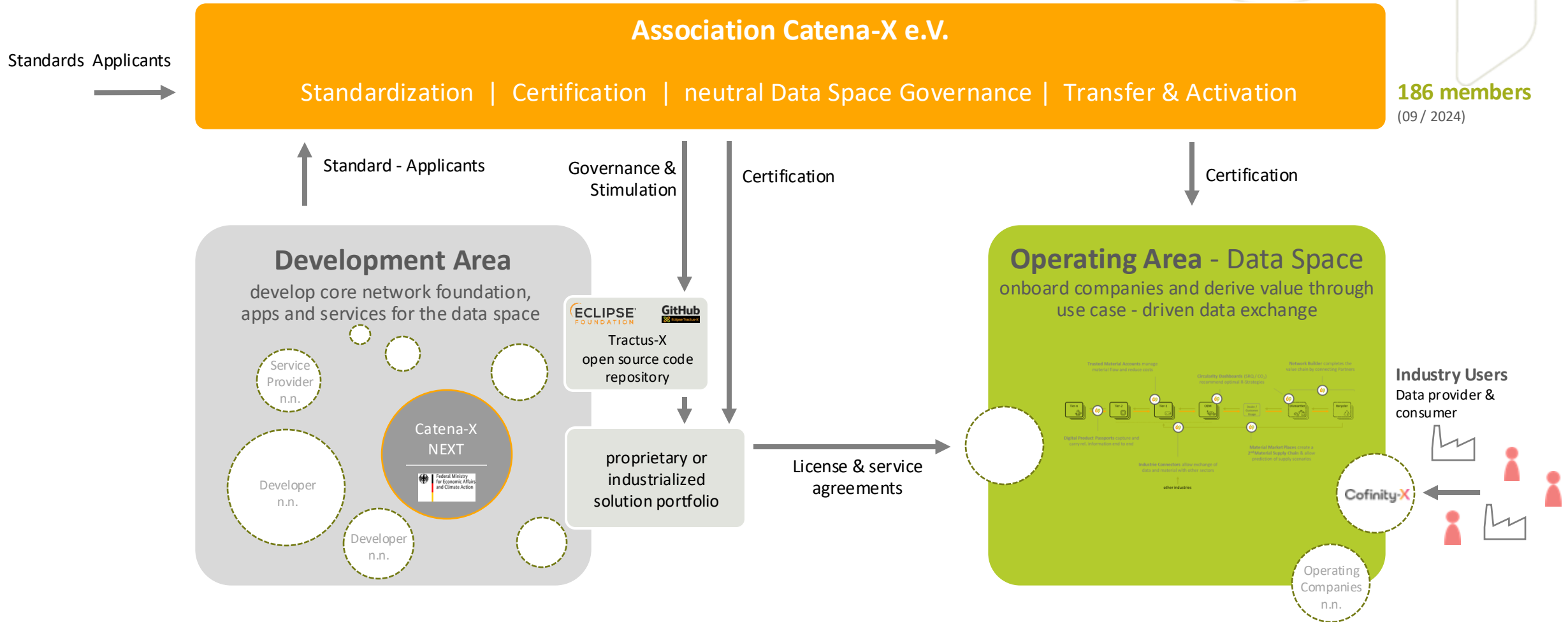
Video on all CX-Roles

5 Questions





Organizing the activities of Catena-X





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