



KEYNOTE

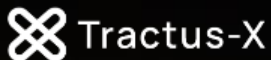
THE STATE OF TRACTUS-X

EVELYN GURSCHLER - BMW

Eclipse Tractus-X Project Lead – Technical Lead Catena-X Implementation

MATHIAS BRUNKOW MOSER - Catena-X e.V.

Eclipse Tractus-X Project Lead – Chief Software Architect





Outline

∞ Some numbers

∞ 2024

∞ Architecture & Structure

∞ Road to 2025

∞ Community Building

∞ Vision for 2025



Some numbers

*since the beginning: Wednesday April 7, 2021



Contributors & Commits

942

Contributors

66,960

Commits



Repositories

68

in total

55

currently
active

***19**

KITs

4

SIG: release, infra, security, architecture

12

supporting e.g. API hub, website *

42

Product repositories

Products

Discovery Finder

BPN Discovery



Business Partner Data Management

Credential Issuer

Semantic Hub

Portal & Marketplace

Semantic Models

Managed Identity Wallet

Identity & Access Management

Authority & Schema Registry

Policy Hub

SD Factory

24

BPN DID Resolution Service

Products

Tractus-X EDC

Knowledge Agents

Digital Twin Registry

Item Relationship Service

Demand Capacity Management

Digital Product Pass

Traceability

PURIS

Simple Data Exchanger

Managed Service Orchestrator

Country Risk



Releases & Guidelines

52

1

Overarching releases

1

4 releases / year

Release Guidelines

- TRG 1 - Documentation >
- TRG 2 - GIT >
- TRG 3 - Kubernetes >
- TRG 4 - Container >
- TRG 5 - Helm >
- TRG 6 - Artefacts >
- TRG 7 - Open Source Governance >
- TRG 8 - Security >
- TRG 9 - UX/UX Styleguide >



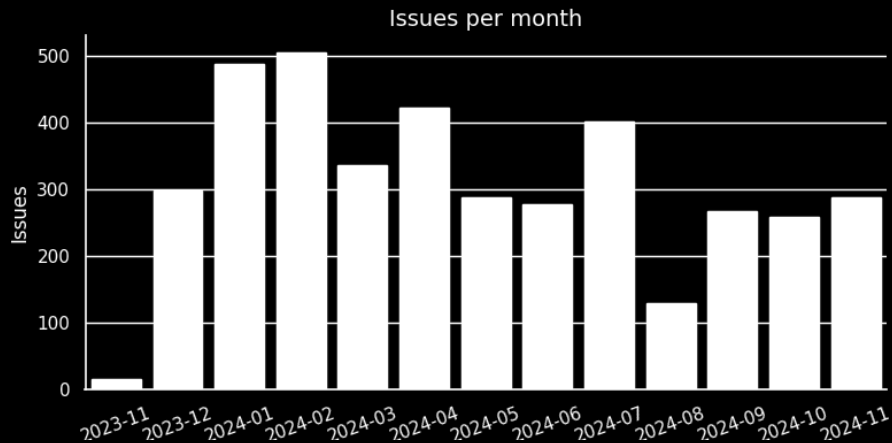
Post consortia

CX consortia 1 ended on July 31

fewer resources and funding

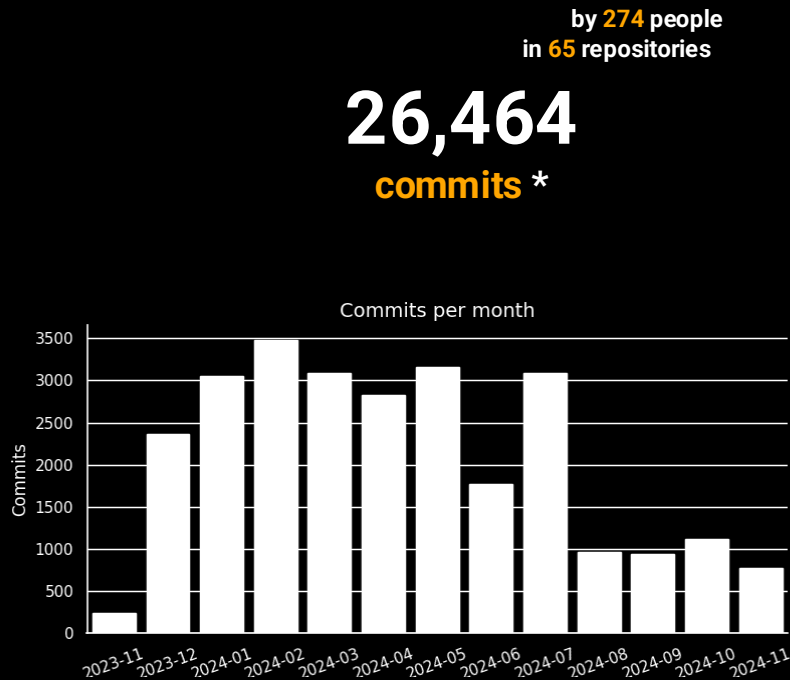


Issues & Commits



by **270** people
in **60** repositories

3977
issues



* incomplete data for November 2024

Post consortia

CX consortia 1 ended on July 31

fewer resources and funding

activity settled at a
lower but stable level



Releases, releases and again releases



24.03

24.05

24.08

= CX Jupiter release

24.12



Graduation Review

mature Eclipse Project since June
by working openly and transparently,
releasing consistently and nurturing our community

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... and much more

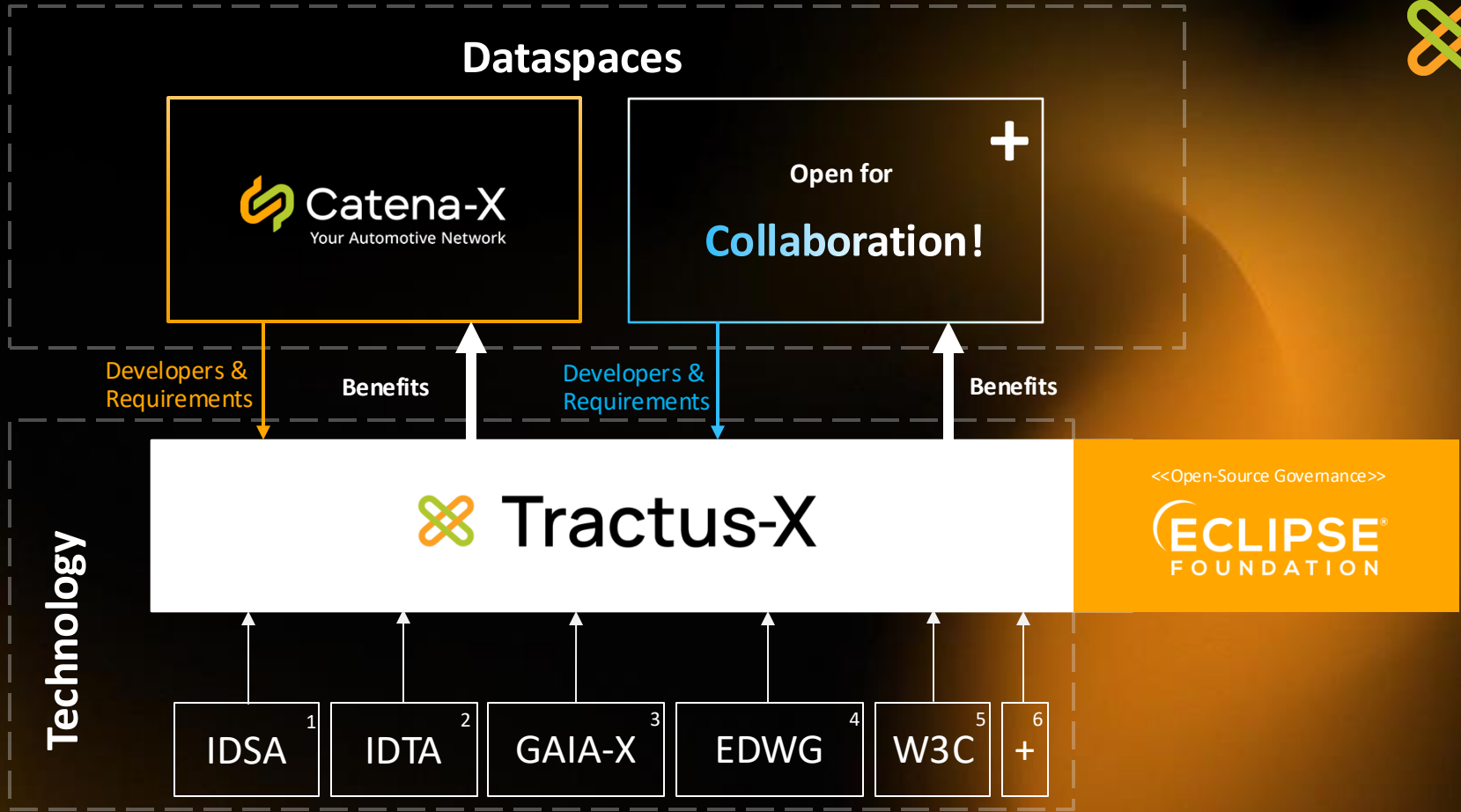


ECLIPSE TRACTUS-X™

Where we build dataspaces!



Architecture



1. International Dataspace

2. Industrial Digital Twins & More

3. Data Sovereignty

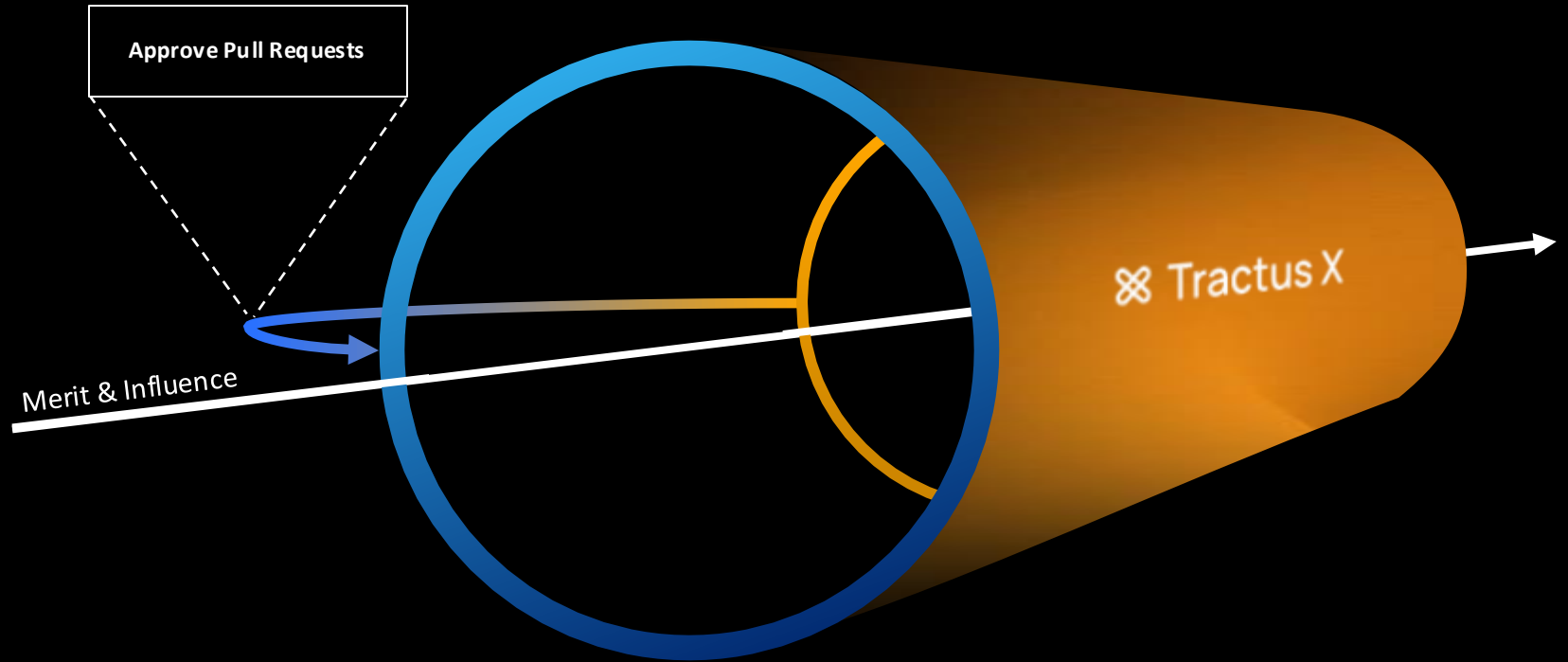
4. Decentral Data Exchange

5. Secure + Web3.0

6. Innovative

Community Structure

Tractus-X Roles

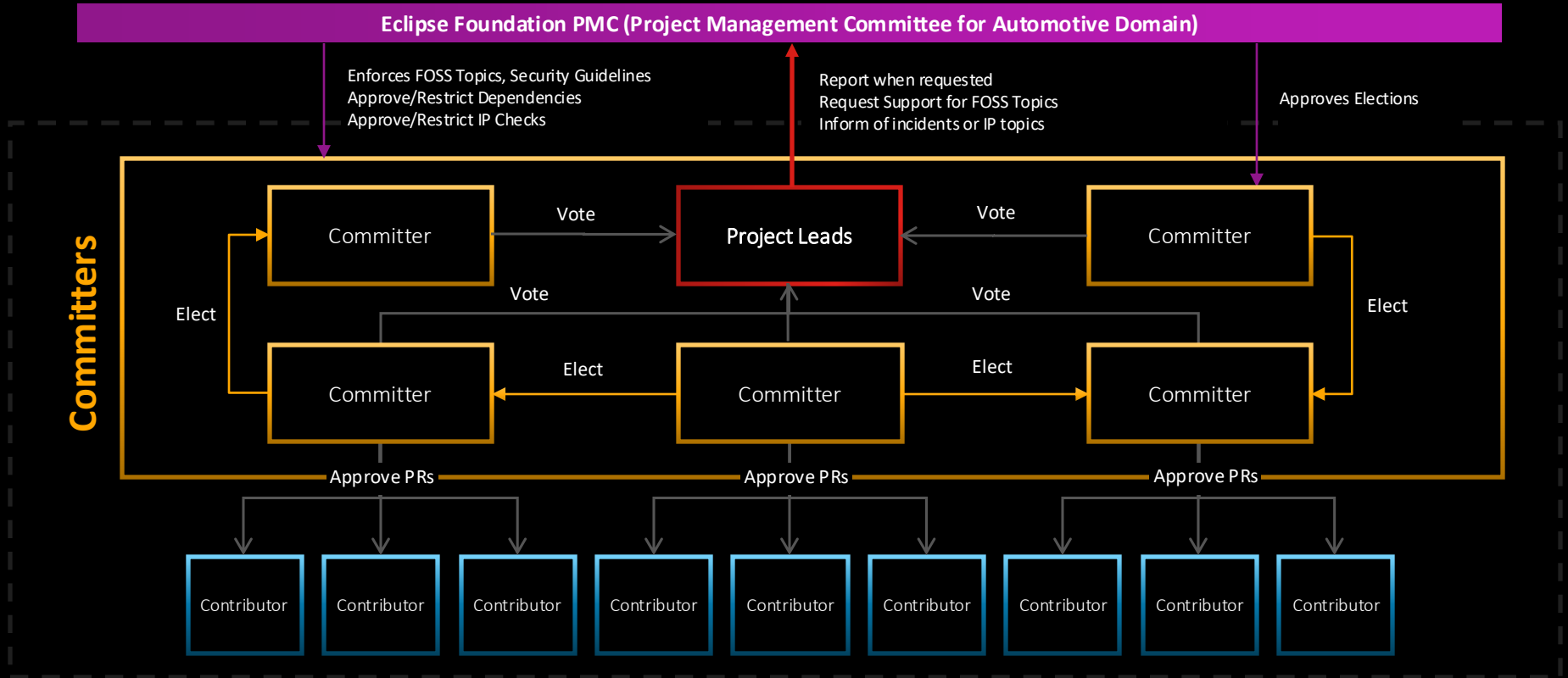


Contributors

Committers

Project Leads

Tractus-X Organization chart

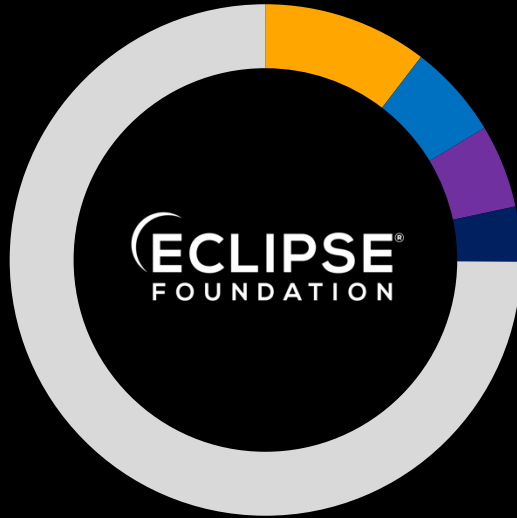


ROAD TO 2025

Community Growth



Contributions



■ Eclipse Tractus-X

■ OpenHW Group CORE-V Cores

■ Eclipse SUMO™

■ Eclipse OpenJ9

■ Other




Eclipse Tractus-X

IS

Top #1



Actual state in **contrast** with last year & 2025

862  68.62%

Contributors

*489 Active Participants

*1,104 **New** Participants

36 

Committers

Stable Committers Numbers
with **High** Interest to Growth!

5 

Project Leads

- Siegfried Kiermayer

+ Evelyn Gurschler

+ Mathias Moser

COMMUNITY BUILDING

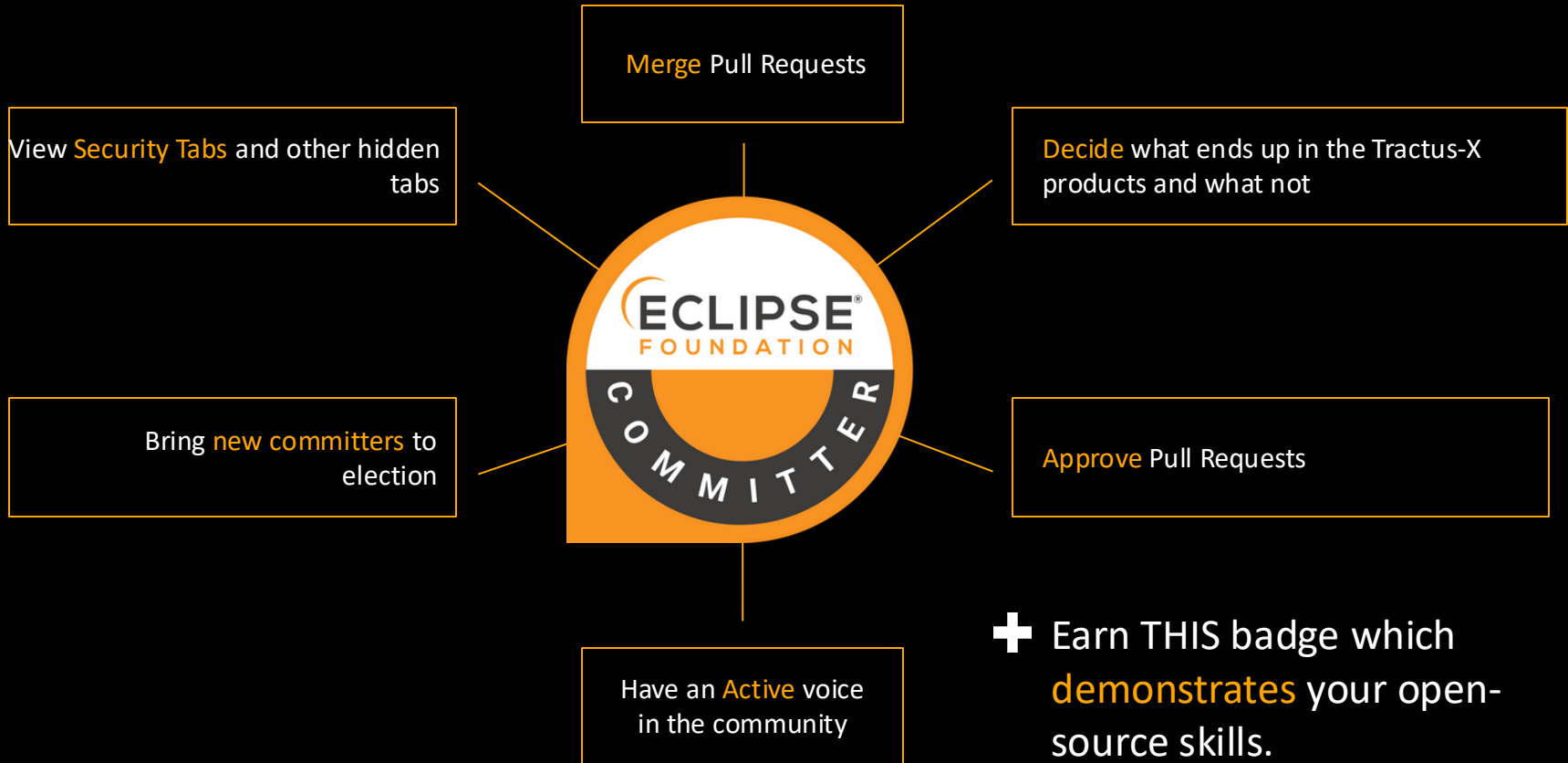
What is a **committer**? How do I become one?

“**Committers** are the ones who hold the keys.”

-

Eclipse Project Handbook

GREAT POWERS



“With great powers comes great responsibility!”



-
Uncle Ben

Committers are Elected

Contributors are elected by other **committers** in the community and approved with %50 of the “+1” votes. Anytime during the election any Committer can veto the election by casting a “-1” vote .

“0” (abstain) votes are also allowed. Once completed the PMC will review the election.

Responsibilities





“Becoming a committer isn’t necessarily hard, but it does
require a demonstration of **merit**.”

-

Eclipse Project Handbook



So, if you also want to be a committer...

WHY SHALL **COMMITTERS** VOTE +1 ON YOU?

HOW DO I BECOME A COMMITTER?



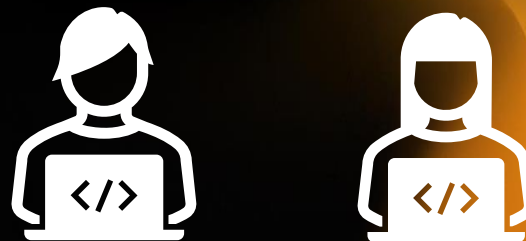
INTRODUCING TRACTUS-X PATHS

Explorers



**Business, Experts
& Innovation Enthusiasts**

Builders



**Developers, Architects
& Tech Enthusiasts**

Explorers

Know, **follow** and spread
the **TRGs** (TX Release Guidelines)!

Be a **Coach** at the Community Days!
Bring and **share** your **expertise**!

Actively identify **bugs** and **report** them!

Bring your **requirements**
and ideas to improve Tractus-X!

Start as a **Contributor**

Decide the Future of Tractus-X!

Be a **Committer**

Contribute to the KITs &
improve the documentation!

Stay **tuned** by attending
regularly the Community Office Hours,
Subscribing to the mailing list and the matrix-chat!

Be a Tractus-X **Ambassador**!



Builders

Act **responsible** to gain the **trust** of the committers!
Be active in the community & **show** what you've got!

Know & Follow the TRGs (TX Release Guidelines)
in your contributions & **propose** improvements!

Contribute **relevant** and **quality** code!
Learn from our committers and **grow** in your career!

Start as a **Contributor**

Build the Future of Tractus-X!



Be a **Committer**

Identify **bugs**, report them & propose code fixes!
Share your **best practices** and **learnings**!

Attend **regularly** the Community Office Hours,
Subscribe to the mailing list and
engage in **discussions** at the matrix-chat!



VISION FOR 2025

RE-USE

IMPROVE

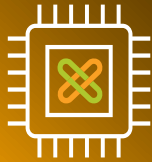
COMBINE

REPEAT



Dataspaces

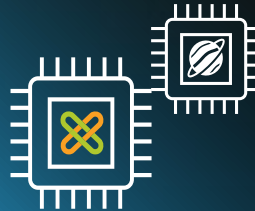
Catena-X
Your Automotive Network



Ready for

-X

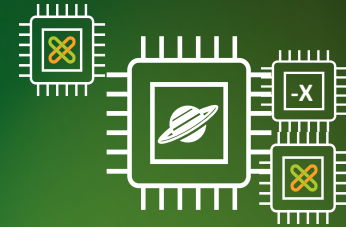
Collaboration!



Open for

+

Collaboration!



1,2,3,4,5,6



Tractus-X

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4. Decentral Data Exchange

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Thank you for your contributions



ECLIPSE
Tractus-X™

Where we build dataspaces!