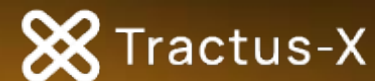


SECOND

# ECLIPSE TRACTUS-X COMMUNITY DAYS

16. – 17.05.2024  
STUTTGART



**ARENA2036**



SUPPORTED BY:





# „Dataspace Connectivity“ Workshop

The Tractus X logo, featuring two interlocking loops, is displayed on the screen of a computer monitor. The monitor is part of a workstation with an orange desk and keyboard. The background of the slide shows a blurred industrial or laboratory setting with white equipment and blue accents.

Tractus X



**First and second day**

**Stephan Bauer, Catena-X  
Johannes Diemer, Arena2036**



# What are the major goals?



## **Try & Error -> gain knowledge**

Try to complete the challenges and gain new knowledge.

Approach the topic in a playful way.

Let's share ideas and expertise!

**Provide feedback, ask the coaches**



## **Help each other**

We are people of different knowledge and experience, but we all are interested in tractus-x and the community and the related products.

**We share the same interests.**



## **Have fun / network**

We are a big community / network. Maybe you know a lot of the people from video calls ... face to face is much better ;)

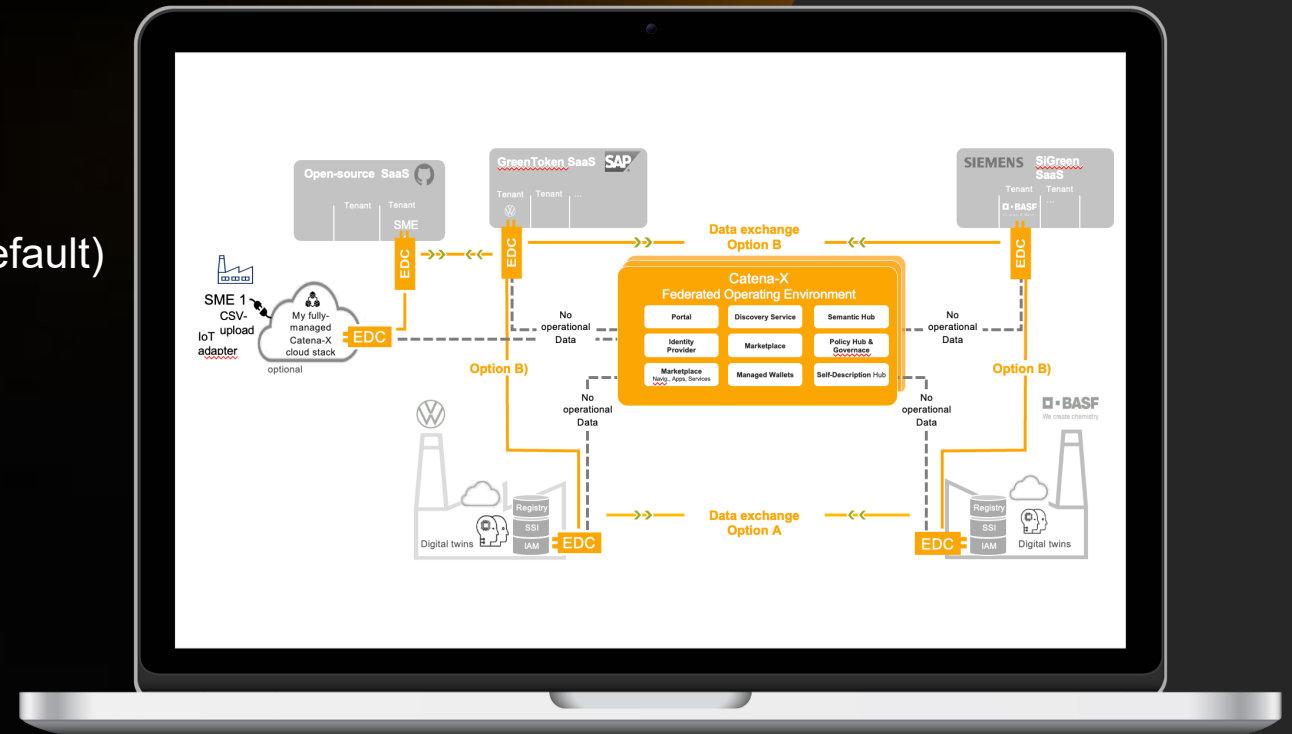
**Collaborate & create partnerships!**



# Architecture

The Umbrella Helm Charts provide the following services (some are initially disabled) :

- Three already registered EDCs:
  - Alice (Dataconsumer-1)
  - Bob (Dataprovider)
  - Trudy (Dataconsumer-2 deactivated by default)
- KeyCloak
- Managed Identity Wallet (MIW)
- The needed databases
- vaults
- Portal
- Digital Twin Registry (DTR)
- DiscoveryServices
- ...



# General Hints for today

If you are using the user accounts on the VMs provided by ARENA2036, please be aware of that you are working in a multi-user environment. Your minikube cluster will not be the only one, running in your VM, therefore :

- Use specific names for your cluster profile and namespaces for helm
  - Proposed name for the cluster: “minikube- $\$USER$ ”
  - Proposed name for the namespace: “umbrella- $\$USER$ ”
- Ensure you are using the option `-p`, everytime you calling minikube

```
minikube -p minikube- $\$USER$  ...
```

- Ensure you are using the option `-n`, everytime you calling helm

```
helm ... -n umbrella- $\$USER$ 
```

Before you enable ingress enter:

```
minikube profile minikube- $\$USER$ 
```

Documentation:

- [Tractus-X specific Tutorial](#)
- [README](#) for Umbrella Helm Charts on Tractus X



# Challenge 1

## “Your own Dataspace”

Try to setup your own local dataspace and learn how the communication/transfer between two EDCs works. The Challenge is along the provided “E2E adopter journey tutorial and its deployment with Umbrella Helm Charts”

### Goals

- Getting familiar with Umbrella Helm Charts, kubernetes and minikube and its dashboard
- Understanding the architecture
- Working with a local dataspace deployment
- Play around with assets, policies ...
- Communication between two (already registered EDCs)
- Providing feedback



# Challenge 2

## “Second data consumer”

Try to activate and deploy (locally) a second EDC and play with different assets and policies

### Goals

- Further understand the power of helm charts
- Get to know the configuration parameters
- Play around with restricted assets, policies ...
- Use the [Policy playground](#) to generate different types of policies



# Challenge 3

## “Open challenge”

Try to activate the Portal, use different components

### Goals

- Further understand the power of helm charts
- Get to know the configuration parameters
- For Experts (working on VM): Try to open the Portal – find out why its not working
  - Try to open the centraldip and sharedidp via the hostname links by using the minikube dashboard or a local browser
  - Confirm the non secure access
  - Retry to open the portal
  - Try to open the keycloak and reconfigure the URL-Redirect





⌘ Developer ⌘



⌘ Tractus X



Let's work  
together  
[tractus-x.com](https://tractus-x.com)