Sixth

# ECLIPSE TRACTUS-X COMMUNITY DAYS

**July 02–03, 2026**
**STUTTGART**

ARENA2036 Catena-X Your Automotive Network Eclipse Tractus-X Where we build dataspaces! Eclipse Foundation

SUPPORTED BY: LKS Next LKS Next

# ESAUTO-X

# The access point to Catena-X for the Spanish Automotive Industry

**July 2nd 2026**

**Iñaki Paz – ipaz@lksnext.com**
Dataspace Leader
Innovation Project Coordinator
LKS Next

Nº Exp: TSI-100122-2024-0011
Financiado por la Unión Europea NextGenerationEU
Gobierno de España · Ministerio de Asuntos Económicos y Transformación Digital · Secretaría de Estado de Digitalización e Inteligencia Artificial
Plan de Recuperación, Transformación y Resiliencia
España | digital 2026

# 01. LKS Next

# LKS Next

- **Basque Technology Group** with **35 years** of history.
- More than **840 professionals**.
- Integrated in **MONDRAGON Corporación**.
- LKS S.Coop., parent company of the group is a **cooperative** (workers – owners).

INDUSTRY

PUBLIC SECTOR

BANKING & INSURANCE

SOCIAL ECONOMY

Consultoría

Tecnología

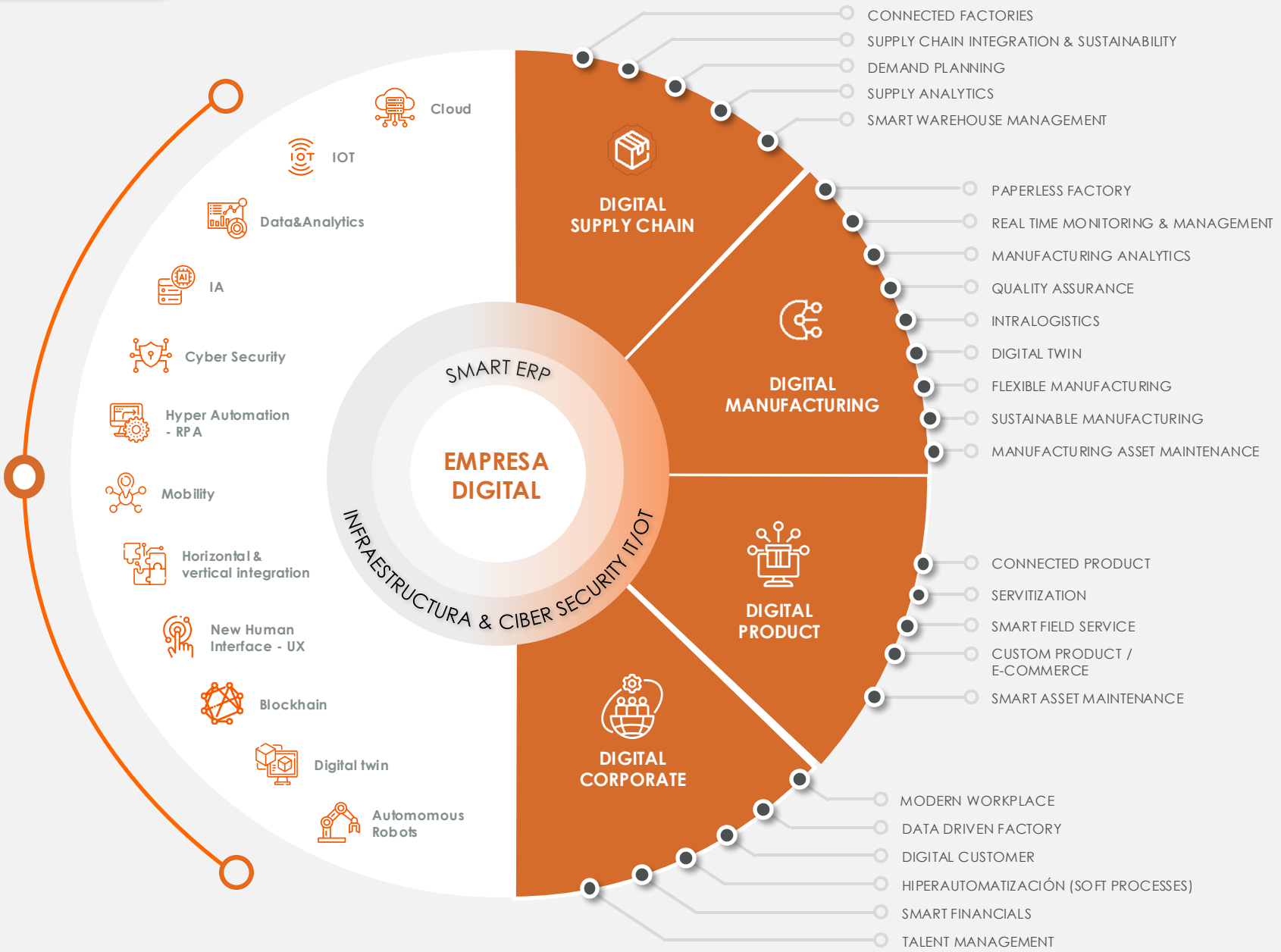
Ciberseguridad

Legal

# Digital Enterprise Model

## Multi Sectorial

- Industry
- Services
- Public Sector
- Farma & BioTech
- Retail
- …



# LKS Next Innovation

*"The best way to predict the future is to create it"*
*Peter Drucker*

## Alliances

tecnalia
MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

ikerlan
MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

MONDRAGON UNIBERTSITATEA

Universidad del País Vasco
Euskal Herriko Unibertsitatea

Deusto

BAIC
BASQUE ARTIFICIAL INTELLIGENCE CENTER

BAIDATA

Catena-X

# LKS Next Innovation

*"The best way to predict the future is to create it"*
*Peter Drucker*

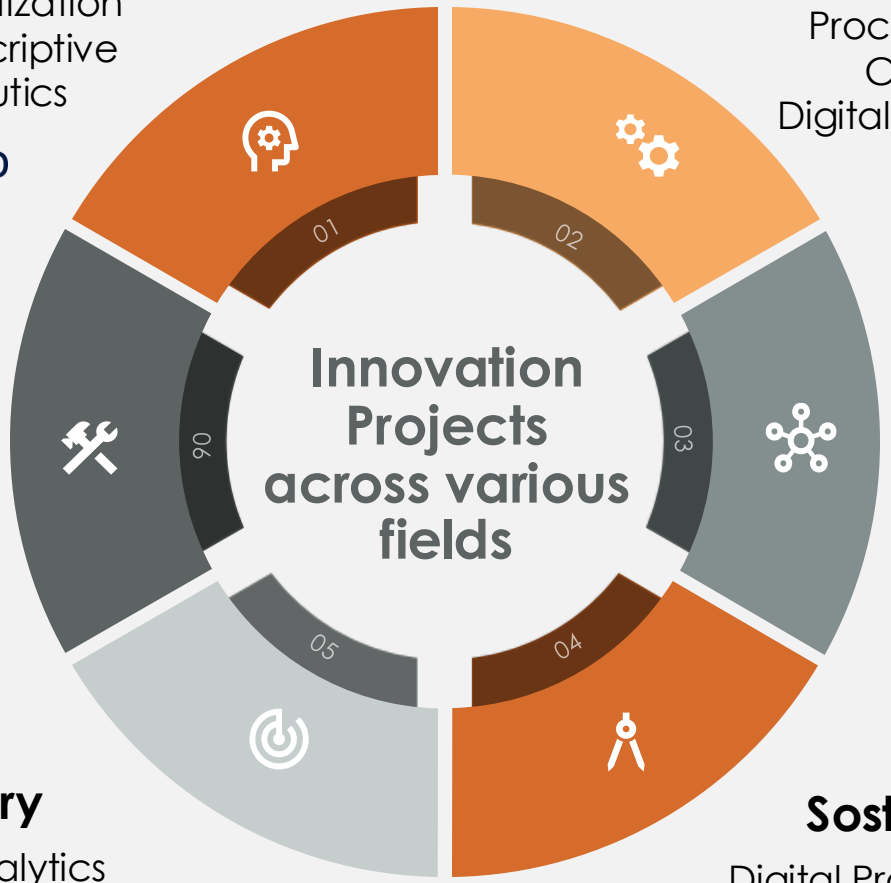
## IA

Agentic Automatization
Predictive / Prescriptive
IA for Aeronautics

PAIRAMID
mattin AI

## Quantum

Process Optimization
Cryptoanalisys
Digital Twins / Simulation




## Ciberseguridad

Automatization
Vigilance & response
Post-Quantum Cryptography (PQC)
IA ⟷ Ciber

Lamassu IoT
SHASAI

## Data Spaces

Mondragon-X
ESAUTO-X in Catena-X
Aerospace / Health / Industry

ESAUTO-X by LKS
Catena-X Automotive Network
BAIDATA
Tractus-X Where we build dataspaces!
ZAINDATA
Mondragon-X

## Smart Factury

Manufacturing Analytics
Energy Eficiency

NeXphere

## Sostenibility

Digital Product Passport
Circular Economy

# 02. ¿What is ESAUTO-X ?

# ¿What is ESAUTO-X ?

https://www.esauto-x.com

- Data Space's **National Demonstration Center**
- Aligned and Integrated with ***Catena-X***, using the same technological open source base: *Eclipse Tractus-X*
- For the **Spanish Automotive Industry**
- Acting as a **Doorway to Catena-X**, through **certified services** integrated in ESAUTO-X

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GOBIERNO DE ESPAÑA MINISTERIO DE ASUNTOS ECONÓMICOS Y TRANSFORMACIÓN DIGITAL SECRETARÍA DE ESTADO DE DIGITALIZACIÓN E INTELIGENCIA ARTIFICIAL

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# ¿Qué es ESAUTO-X ?

https://www.esauto-x.com

## With the support of:

Catena-X Your Automotive Network

**Association**

Catena-X Your Automotive Network

**Spanish Hub**

sernauto Spanish Association of Automotive Suppliers

ANFAC La Movilidad del Futuro

MONDRAGON HUMANITY AT WORK Finanzas Industria Distribución Conocimiento

**Corporación Mondragon**

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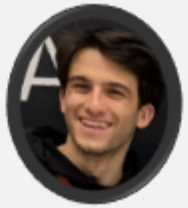
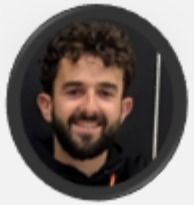
# ¿And LKS Next ?

- Knowledge, Consulting, Closeness, Support
- **Promoter of ESAUTO-X**
- Active Participation in Eclipse Tractus-X:
  - **1 Project Lead** out of **4**
  - **2 Committers**, 2 more in the process
- Member with Active Participation in Committees working in the **future of Catena-X**
- ESAUTO-X provides the **FIRST** **products & services certified in Catena-X** **100% Spanish**





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# 03. ¿Which are those ESAUTO-X services?

Catena-X
Your Automotive Network

ESAUTO-X

LKS Next

https://catena-x.net/ecosystem/collaboration-roles/

**EACH ROLE** provides different **PRODUCTS & SERVICES**

## Key roles in the Catena-X ecosystem

- **Role 1 – Data Provider and Consumer (DPC)**
- **Role 2 – Business Application Provider (BAP)**
- **Role 3 – Advisory Service Provider (AP)**
- **Role 4 – Enablement Service Provider (ESP)**
- **Role 5: Onboarding Service Provider (OSP)**
- **Role 6 – Conformity Assessment Body (CABs)**
- **Role 7 – Core Service Provider (CSP)**

Role for companies that offer **applications** that implement **Catena-X Use Cases**.
LKS - ESAUTO-X is **certified for CCM Use case**.
LKS - ESAUTO-X is finishing certification for **PCF**.

Role that enables companies to offer **consulting & assessment service** over Catena-X .
LKS - ESAUTO-X is **certified**.

Role that belongs to companies that offer **connector services in Catena-X**.
LKS - ESAUTO-X is **certified**.

Role that belongs to companies that are able to **onboard companies in Catena-X**.
LKS - ESAUTO-X is **certified**.

SQS SOFTWARE QUALITY SYSTEMS

https://catena-x.net/ecosystem/collaboration-roles/

**Key roles in the Catena-X ecosystem**

- Role 1 – Data Provider and Consumer (DPC)
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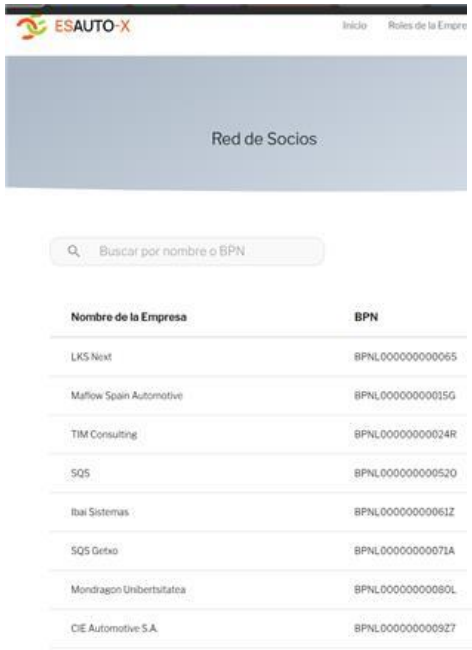
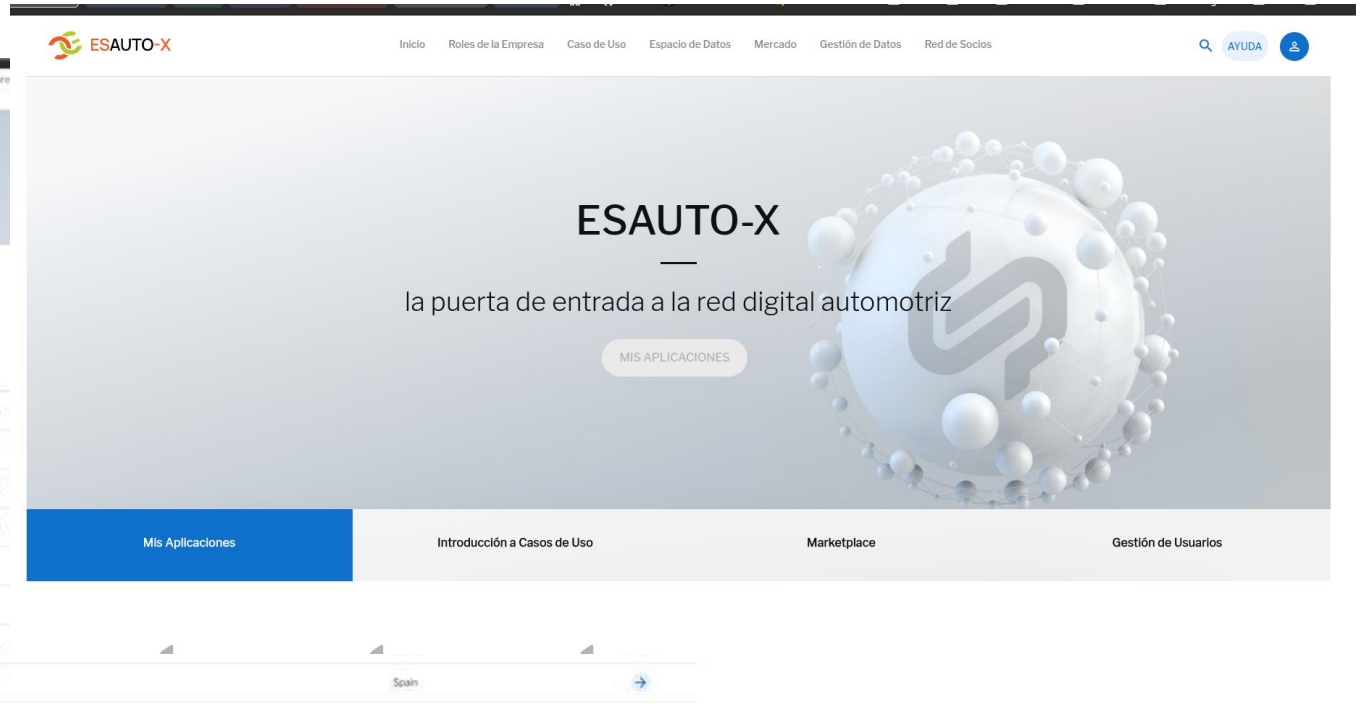
- Role 4 – Enablement Service Provider (ESP)
- Role 5: Onboarding Service Provider (OSP)
- Role 6 – Conformity Assessment Body (CABs)
- Role 7 – Core Service Provider (CSP)

All these **products & services** asociated to the corresponding **roles** can be tested in the **Demonstration Center of ESAUTO-X**:



- **Fully based on Eclipse Tractus-X Umbrella**
- **Used in 1st Eclipse Tractus-X Hackathon in February in Bilbao - Spain**

# ¿What comes from Eclipse Tractus-X ? ESAUTO-X

- **Umbrella** https://github.com/eclipse-tractusx/tractus-x-umbrella
  - General Building and Configuration of the Data Space -> **Check Workshop**

- **Portal** https://github.com/eclipse-tractusx/portal
  - Specific Processes for Management and Onboarding.

- **Eclipse Tractus-X EDC** https://github.com/eclipse-tractusx/tractusx-edc
  - Connector Base

- **Eclipse Tractus-X Identity Hub** https://github.com/eclipse-tractusx/tractusx-identityhub
  - Identity Wallet Processes -> **Check Workshop**

- **Eclipse Tractus-X Industry Core Hub (ICH)** https://github.com/eclipse-tractusx/industry-core-hub
  - Business Application Base: **CCM – PCF** – DPP -> **Check Workshop**

ESAUTO-X

# 04.Onboarding Process to

Catena-X
Automotive Network

# ESAUTO-X Onboarding Process to Catena-X Automotive Network

1 Diagnosis & Contracting — 2 Training & Connection — 3 Connection to Catena-X

## 1 Diagnosis and Contracting: The starting point

We analyze your starting point, define the strategy and formalize your access to ESAUTO-X. All the administrative part, resolved from day one.

### What will we do?

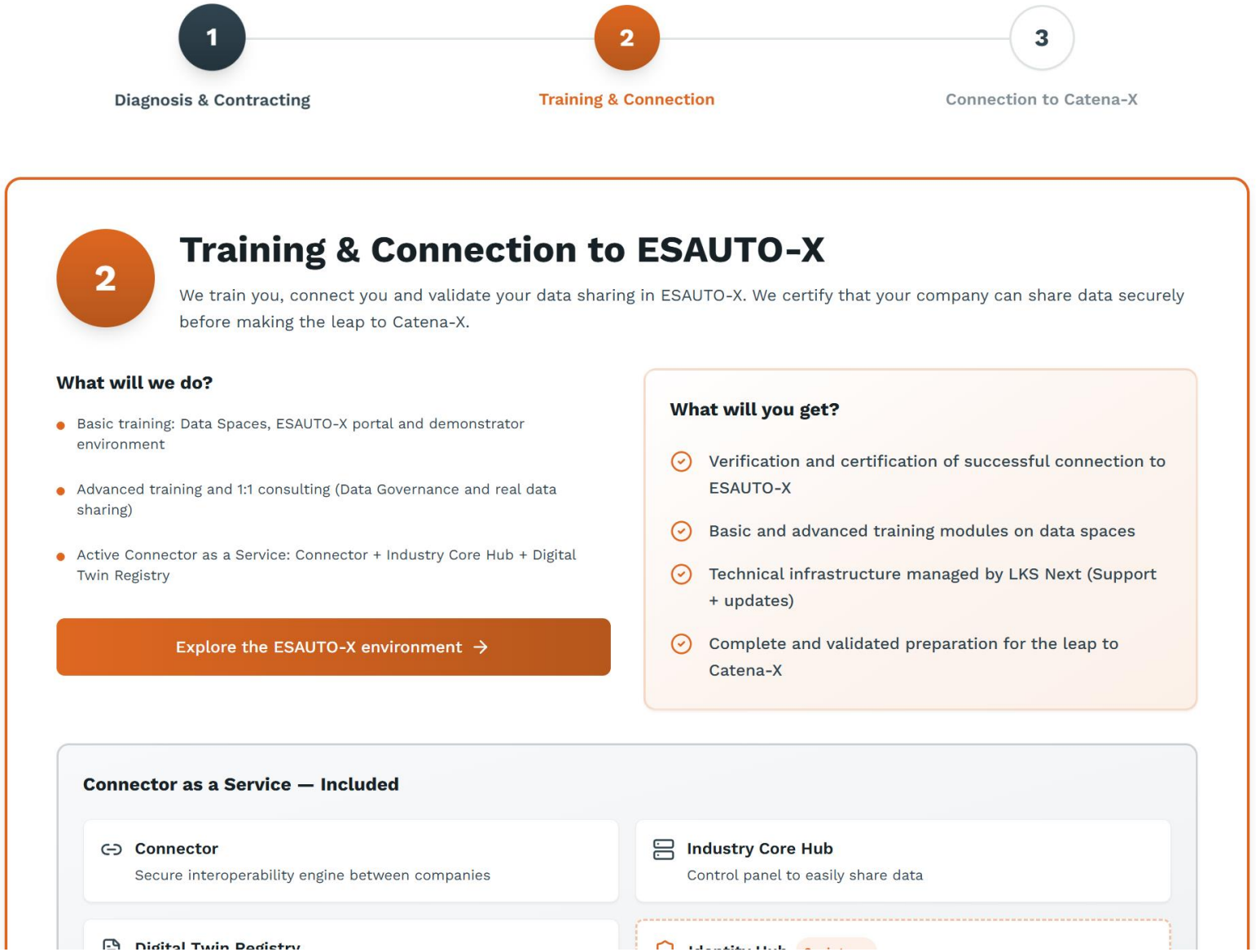
- Diagnosis of your digital maturity and starting point in the ecosystem
- Definition of your personalized ESAUTO-X access strategy
- Agreement signing and formalization of access to the Demonstrator Center

Start my process →

### What will you get?

- Clear and personalized diagnosis of your current situation
- Roadmap adapted to your company and sector
- Official welcome to the ESAUTO-X ecosystem
- Access to ESAUTO-X and its Private Zone

# ESAUTO-X Onboarding Process to Catena-X




- **Onboard** into **ESAUTO-X**
  - Same Data requested as Onboarding to Catena-X which will be used for that

- Train and prepare
  - Use **Certified Components**
  - Integrate with enterprise systems
  - Test Data Publication and Consumption

# ESAUTO-X Onboarding Process to Catena-X

Automotive Network

1 Diagnosis & Contracting — 2 Training & Connection — 3 Connection to Catena-X

## 3 Connection to Catena-X: Your official passport

Once you're running in ESAUTO-X, we open the doors to the global network. We act as your official OSP (Onboarding Service Providers) for your registration in Cofinity-X and the deployment of your infrastructure there.

### What will we do?

- **3.1 Registration in Cofinity-X:** Get your BPN: unique passport in the ecosystem
- **3.2 User and Entity Management:** Configured accesses and roles
- **3.3 Connector as a Service in Catena-X:** Your real data engine: Connector + Industry Core Hub (PCF/CCM) + Digital Twin Registry

Start the process →

### What will you get?

- Your verified BPN: unique and non-transferable passport in Catena-X
- Access to the global Catena-X portal via Cofinity-X (CSP)
- Industry Core Hub prepared for PCF and CCM use cases
- Active Digital Twin Registry + Identity Hub (Coming soon)
- Complete support throughout the entire process from LKS Next as official OSP in Spain

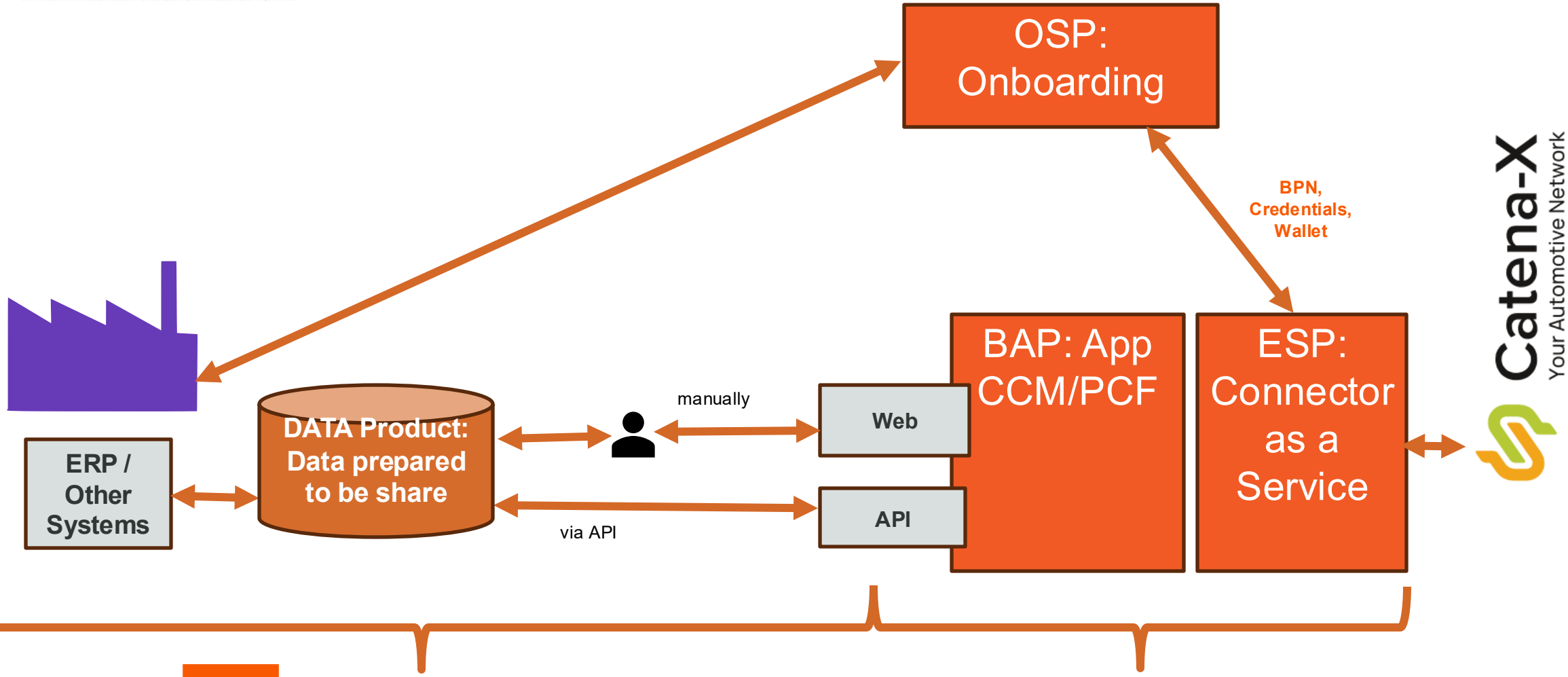
**Onboard** into **Catena-X / Cofinity-X**

**Share Data** with your Client using **Certified Components**

ESAUTO-X

# 05.ICH Demo with PCF (also attend corresponding workshop)

# Participation Roles



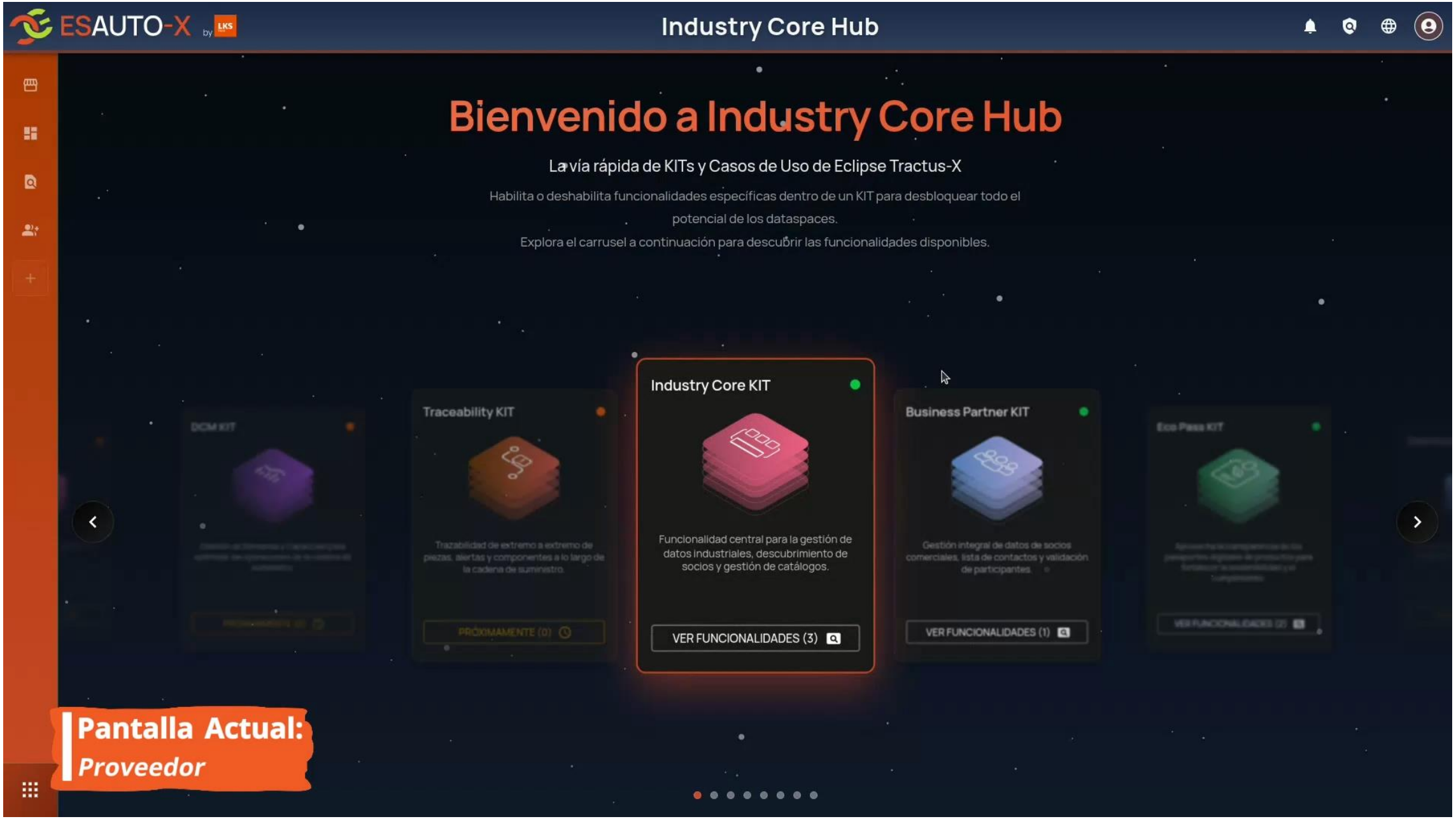

**Consultancy & Integration**

**Certified** in Catena-X

AP: Advisory Service Provider

# Estándares implicados en PCF:

- Standard: https://catenax-ev.github.io/docs/standards/CX-0136-UseCasePCF
- Semantics: https://github.com/eclipse-tractusx/sldt-semantic-models/tree/main/io.catenax.pcf/9.0.0
- Sample PCF: https://github.com/eclipse-tractusx/sldt-semantic-models/blob/main/io.catenax.pcf/9.0.0/gen/Pcf.json




ESAUTO-X_ PCF Demo.mp4

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ESAUTO-X

# 06. Future Work

# Future Work in Eclipse Tractus-X

ESAUTO-X

LKS Next

- **Eclipse Tractus-X Industry Core Hub (ICH)** https://github.com/eclipse-tractusx/industry-core-hub
  - Add PCF Calculator
  - Add Traceability
  - Complete DPP

- **Eclipse Tractus-X EDC** https://github.com/eclipse-tractusx/tractusx-edc
  - Complete EDC Multi-tenant integration (EDC v1.0 stable release)

- **Eclipse Tractus-X Identity Hub** https://github.com/eclipse-tractusx/tractusx-identityhub
  - Finalize Identity Wallet Integration and independence from wallet-stub
  - Enable Multiple Issuers in Dataspace, Enable Chains of Trust with DIDs.

- **Portal** https://github.com/eclipse-tractusx/portal
  - Refactor to minimize required services (onboarding, participant lists)

# Future Work in ESAUTO-X and Catena-X Automotive Network

- **Certify new Use Cases and Applications**

- **Simplify Onboarding and Participant Management**
  - Contracting independence from CSP-B
  - Standards evolution
  - Dataspace Credential issuing
  - Avoid Vendor Lock-in
  - Reduce CSP-B services

# 07.More Info

- Please contact for more info
- We can assist on building Data Spaces

ESAUTO-X

https://www.esauto-x.com/signup

**info@esauto-x.com**

**Iñaki Paz**

Data Space Leader
Innovation Project Coordinator

**ipaz@lksnext.com**

LKS Next

**Thanks for your attention!**
**Questions?**

¡Muchas gracias por tu atención!
¿Preguntas?

Eskerrik asko zure arretagatik!
Galderarik?

# LKS Next

# Our Offices

### ARRASATE-MONDRAGÓN

Goiru Kalea, 7

20500 Arrasate-Mondragon

Tfno. 902 540 990

info@lksnext.com

### DONOSTIA - P. EMPRESARIAL ZUATZU

Edificio Urumea – planta 1 – local 1
Zubiberri Bidea, 31
20018 Donostia-San Sebastián
Tfno. 902 540 990

### MADRID

C/Perú, 6 Edificio A Bajo 3º. Las Rozas
CP 28290 Madrid
Tfno. 911 196 995

### BILBAO

Máximo Aguirre, 18 BIS – 6º Dpto. 8
48009 Bilbao
Tfno. 946 42 90 70

### BILBAO

Gran Vía, 33 – 3º
48009 Bilbao
Tfno. 94 439 96 50

### P. TECNOLÓGICO ZAMUDIO

Edificio 207-A; Bajo
48170 Zamudio
Tfno. 902 540 990

### VITORIA-GASTEIZ

Pedro Asúa 75 Bajo
01008 Vitoria-Gasteiz
Tfno. 945 287 800

### FRANCE

Technopole Izarbel
Inmeuble Cré@ticité Batîment A
64210 Bidart
Tfno: +33 5 59 58 00 00

### CANTABRIA

Parque Empresarial Tirso González –
Fase 2 - Portal 22 – 1ª Planta – Of. 1-2
39610 El Astillero
Tfno. 942 544 938

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# ¿Who is who?

Catena-X
Your Automotive Network

**ASSOCIATION**
- **Standards**, gobernance, data models, use cases, operations, roles, etc.
- Non-profit: Agnostic from company and business

**Reference Implementation**

Eclipse Tractus-X

- Reference Implementations
- Data Space Implementation

**Teaching**

Catena-X
Centro de Competencia

- Teaching for participants and technology providers

**National Representation**

Catena-X
Your Automotive Network

**HUB Español**
- Disemination and access
- Promotion

**Production environment**

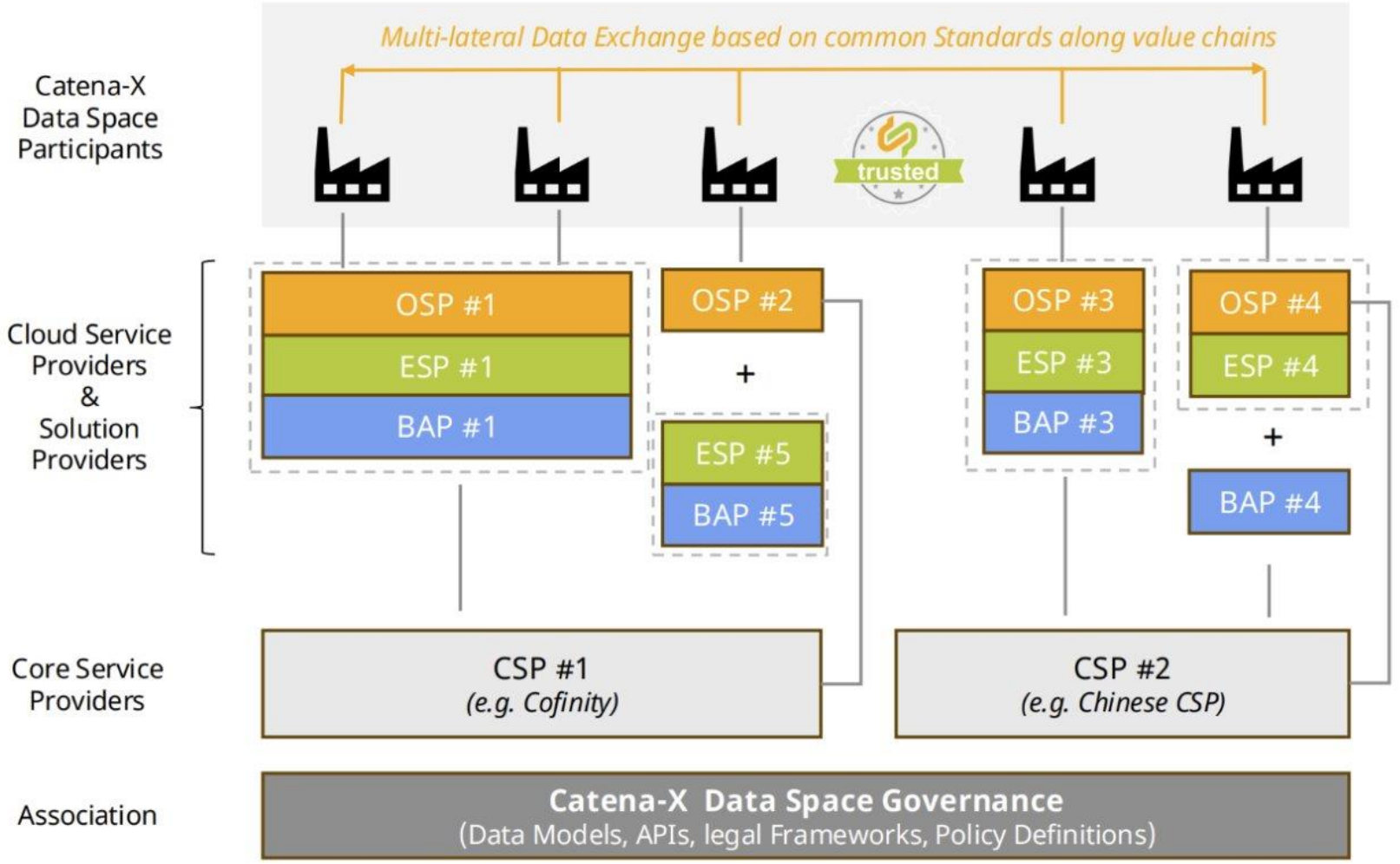
Cofinity-X

**Stabilize**

**CSP-B: Provider Company**
- Catena-X Production Data Space
- Contracted as the **unique** Core Service Provider B

All participants can exchange data in interoperable, use case centric data exchange irrespective of their individual onboarding journey

# A Scalable Ecosystem based on Trust & Freedom of Choices




**Key Ambitions**

- OSP role evolves into a **full-service customer-oriented** role to support brad scalability
- Multiple Providers offer **multi-tenant capable turnkey solutions**
- Multiple Core Service Providers exist to address **regional regulations**.

**Ecosystem Roles**
OSP: Onboarding Service Provider
ESP: Enablement Service Provider
BAP: Business Application Provider
CSP: Core Service Provider

CERTIFIED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