

HUMANITY

Finance Industry Retail Knowledge

Mondragon-X

A Data Space for the Industrial Companies of the MONDRAGON Corporation

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Mondragon-X

General Initiative to set up a **generic federated data space** within the scope
of the MONDRAGON Corporation to be
subsequently applicable to various
sectors







MONDRAGON Automotive

fagor<mark>ederlan</mark>group











































MONDRAGON Capital Goods / Components













































BENEFITS

- Improve productivity and operational efficiency
- Facilitate the development of new business models, products, and services
- Improve supply chain efficiency
- Enable Smart Factories and the transition to Green Economy
- Boosting Al Spaces





- We are the biggest professional services group with Basque capital.
- LKS Next is a cooperative company that belongs to Mondragón.
- With more than 33 years of history as an independent consultant company.
- More than 720 professionals in multiple disciplines.
- Comprehensive Industrial Service orientation
- Continued presence in the public sector and large business groups.







INTERNATIONAL DATA SPACES ASSOCIATION

DSP Protocol DCP Protocol

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Eclipse EDC

- Standards Reference Impl.
- MVD
- Protocol TCKs

Focuses on connector tecnology and its components



MXD

Extends
Connector Base

Umbrella

Data Space Infrastructure





Eclipse Tractus-X

Where we build secure, self-sovereign & open collaborative dataspaces!







is contributing on its development, with currently 2 active committers and several contributors, along with others from

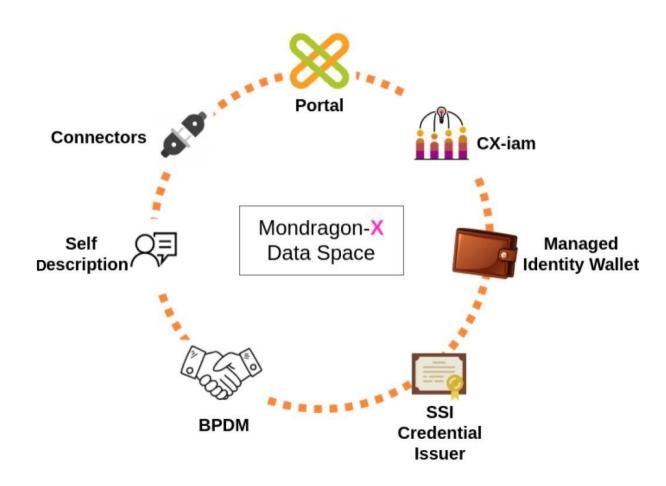








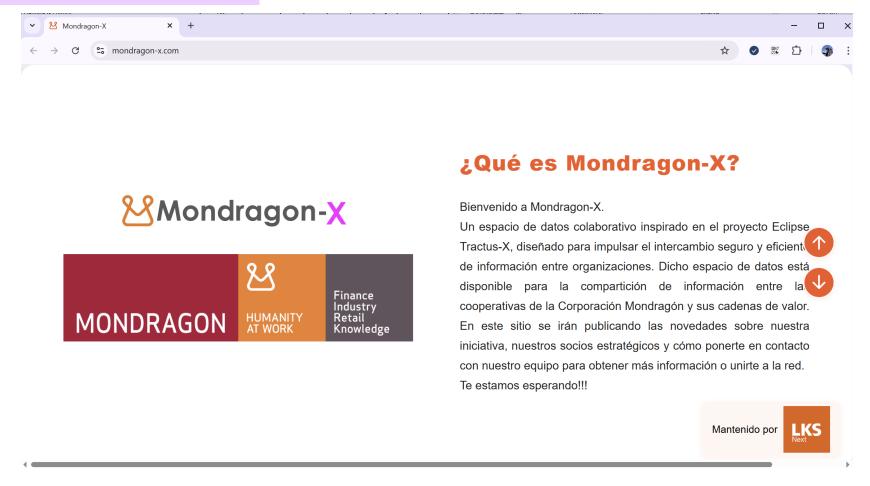












https://mondragon-x.com/ IS OPERATIONAL AND ONLINE!

For Data Sharing Demonstration purposes for Mondragon Corporation Cooperatives!

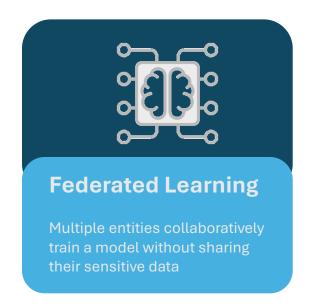






USE CASES













Following CX-0029ProductCarbonFootprintRulebook







Pro	"companyName" = Goimek S.Coop
Pro	pp "companylds" = urn:bpn:id:BPNL00000000GOI
Pro	pp "productDescription" = TAPA GREEN A9B10339833
Pro	pp "productids" = urn:id:100000465
Pro	pp "productCategoryCpc"
Pro	pp "productNameCompany" = TAPA GREEN A9B10339833
SIV	1C "PcfEntity" (40 elements)
	Prop "declaredUnit" = kilogram
	Prop "unitaryProductAmount" = 1.0
	Prop "productMassPerDeclaredUnit" = 4564.0
	Prop "exemptedEmissionsPercent" = 0.0
	Prop "exemptedEmissionsDescription" = No exemption
	Prop "boundaryProcessesDescription"
	Prop "geographyCountrySubdivision" = ES
	Prop "geographyCountry" = ES
	Prop "geographyRegionOrSubregion" = Europe
	Prop "referencePeriodStart" = 2024-01-01T00:00:01Z
	Prop "referencePeriodEnd" = 2024-12-31T00:00:01Z
	SML "crossSectoralStandardsUsed" (1 elements)
\triangleright	SML "productOrSectorSpecificRules" (1 elements)
	Prop "characterizationFactors"
	Prop "allocationRulesDescription" = In accordance with Catena-X PCF Rulebook
	Prop "allocationWasteIncineration" = cut-off
	Prop "primaryDataShare" = 96.51
	SML "secondaryEmissionFactorSources" (1 elements)
\triangleright	SMC "DataQualityIndicator" (6 elements)
	Prop "packagingEmissionsIncluded" = 0
	Prop "pcfExcludingBiogenic" = 51.63

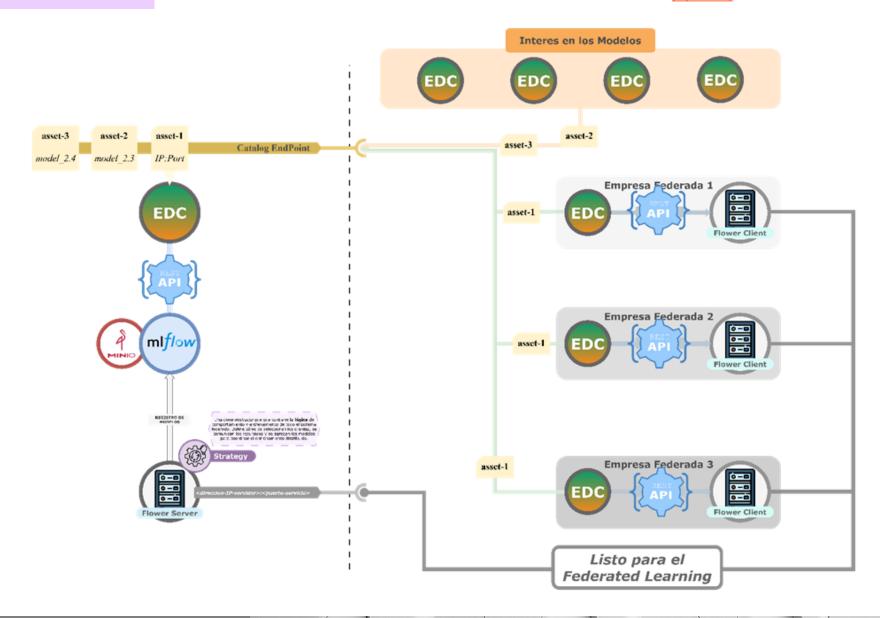






Federated Learning

Multiple entities collaboratively train a model without sharing their sensitive data









FUTURE WORK

- Keep Collaboration in Eclipse Tractus-X in Several Projects:
 - Industry Core Hub: Ease Use Case implementation
 - Eclipse Tractus-X EDC Expansion: Identity Hub / Wallet **Implementation**
- New Data Space Projects (SEDIA):



- ESAUTO-X: Data Space for Spanish Automotive Sector within Catena-X
 - Demonstration and Test Infrastructure
 - Develop Spanish (Local) Services for Catena-X













FUTURE WORK

- Open to new Industrial Services and collaborations on:
 - Manufacturing
 - Logistics
 - AeroSpace
 - Health
 - ...