Gaia-X SUMMIT 2025

DIGITAL ECOSYSTEMS IN ACTION

Porto, Portugal | 20 & 21 November

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Porto.

Tech Theatre | Thursday | 20.11.2025

Time	Title	Presenter(s)
12:00 – 12:30	**Loire – How to use Gaia-X Label Level 2/Level 3**	**Giuditta Del Buono**, Technical Product Manager, Gaia-X **Ryan Reychico,** Software Engineer, Gaia-X
12:30 – 13:00	**Loire Notaries: Theory & Practice**	**Yassir Sellami,** Software Engineer, Gaia-X **Pierre Gronlier,** CINO, Gaia-X
13:20 – 15:10	Networking Lunch & Expo Area	
15:00 – 15:20	**From Data Meshes to Data Spaces**	**Stefan Dumss,** Senior Researcher, Posedio GmbH
15:20 – 15:35	**Eclipse Cloud Interest Group**	**Marco D'Angelo,** Founder, Cloud Ecosystem OS, Director, Cloud Ecosystem Lead Open Source, Huawei **Manuel Gutiérrez,** Senior Digital Ecosystems Manager, Gaia-X **Klaus Ottradovetz,** VP Global Service Delivery, Atos
15:35 – 16:00	**Simpl – Current State**	**Valentina Staveris,** IT Project Officer, European Commission DG CNECT Cloud & Software
16:00 – 16:15	**Orchestrating Sovereign Data Exchange**	**Yannick Meinberg**, Research Engineer, Contact Software
16:15 – 16:30	**Myrtus: A Computing Continuum Platform**	**Giulia Biagoni**, Scientist, TNO
16:30 – 17:15	Networking Coffee & Expo Area	
17:00 – 17:15	**Data Exchange Services WG – Update & Roadmap**	**Frédéric Bellaiche,** VP Technology & Research, Dawex
17:15 – 17:45	**Geography & Domain Extensions**	**Catherine Simonnin,** Tech lead Trust & Governance, Orange **Bert Verdonck,** CEO, LNDS

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Loire - How to use Gaia-X Label Level 2 & Level 3

Giuditta Del Buono & Ryan Reychico

Technical Product Manager – Software Engineer

Gaia-X

Agenda

- Introduction to Gaia-X Compliance
- Combining Certifications and Declarations to Achieve Gaia-X Labels
- Use of Certifications and Declarations in the context of L2 & L3
- Gaia-X Loire Compliance as a Danube extension

- Technical terms
- GX - Certification Notary
- Compliance Workflow
- Label Level 2 Valid Combination example
- VC-JWT Playground
- Q&A

Introduction to Gaia-X Compliance

- **Four Conformity assessment schemes - Standard Compliance, Label L1, L2, L3** - define criteria for cloud services aligned with Gaia-X goals (transparency, data protection, security, interoperability, portability, sustainability). Label L2 & L3 include additional requirements on European Control.

- Claims must be encoded as **Verifiable Credentials (VCs)** per W3C VC Data Model 2.0 and using the Gaia-X Ontology.

- To achieve Standard Compliance or a Label level, all VCs must be included in a single **Verifiable Presentation (VP)** and submitted to an accredited Gaia-X Digital Clearing House, which issues a VC attesting compliance upon successful verification.

Combining Certifications and Declarations to Achieve Gaia-X Labels

- Depending on the assessment scheme and specific criterion, **Declarations and Certifications are required.**

- **Gaia-X Standard Compliance and Label L1** can be achieved by providing **Declarations only.**

- **Permissible Standards** that can be used to prove compliance with the criteria are **defined in the Gaia-X Compliance Document.**

- **Third-party assessment** by **Gaia-X accepted CABs** and under defined permissible standards is **mandatory** for many criteria in **L2** and **L3**, and optionally applicable also to Standard Compliance and Label L1.

Use of Certifications and Declarations for Label L2

Examples of combinations allowing achievement of Label L2:

SecNumCloud + CISPE (cert.) + 1.1.5, 1.2.8, 1.3.1, 1.3.2, 3.1.19, 4.1.2, 6.1.1, 6.1.2, 6.13, 6.1.4 (decl.)

SecNumCloud + CISPE + CNDCP (cert.) + 1.1.5, 1.2.8, 1.3.1, 1.3.2, 3.1.19, 4.1.2, 6.1.1 (decl.)

EUCloudCoC (cert) + 1.1.5, 1.2.1, 1.2.5, 1.3.1, 1.3.2, 4.1.1, 4.1.2, 5.1.1, 6.1.1, 6.1.2, 6.13, 6.1.4 (decl)

ISO/IEC 27001 + CISPE (cert) + 1.1.3, 1.1.5, 1.2.8, 1.3.1, 1.3.2, 3.1.19, 4.1.1, 4.1.2, 6.1.1, 6.1.2, 6.13, 6.1.4 (decl.)

Use of Certifications and Declarations for Label L3

Examples of combinations of standards allowing achievement of Label L3:

SecNumCloud + CISPE (cert.) + 1.1.5, 1.2.8, 1.3.1, 1.3.2, 3.1.19, 4.1.2, 5.1.5, 5.1.6, 6.1.1, 6.1.2, 6.13, 6.1.4 (decl.)

EUCloudCoC (cert.) + 1.1.5, 1.2.1, 1.2.5, 1.3.1, 1.3.2, 4.1.1, 4.1.2, 5.1.2, 5.1.4, 5.1.5, 5.1.6, 5.1.7, 6.1.1, 6.1.2, 6.13, 6.1.4 (decl.)

ISO/IEC 27001 + CISPE (cert.) + 1.1.3, 1.1.5, 1.2.8, 1.3.1, 1.3.2, 3.1.19, 4.1.1, 4.1.2, 5.1.4, 5.1.5, 5.1.6, 5.1.7, 6.1.1, 6.1.2, 6.13, 6.1.4 (decl.)

CISPE + BSI C5 + CSA CCM (cert) + 1.1.3, 1.1.5, 1.2.8, 1.3.1, 1.3.2, 4.1.1, 4.1.2, 5.1.4, 5.1.5, 5.1.6, 5.1.7, 6.1.1, 6.1.2, 6.13, 6.1.4 (decl.)

Gaia-X Loire Compliance as a Danube Compliance extension

In the **Gaia-X 3.0 Danube** release, **Gaia-X Technical Compatibility is fully decoupled from Compliance**.

In the context of the Danube Architecture, the **Gaia-X Loire Compliance** represents a supported **Compliance extension**, in which the component that checks compliance (Gaia-X Loire Compliance Engine) runs outside the runtime control of the Gaia-X Core Engine and is accessed over the network.

Technical Terms

- **DID (Decentralized Identifier):** A DID is a unique, self-owned digital identifier that enables secure, verifiable interactions without relying on a central authority.

- **VC (Verifiable Credential):** A VC is a tamper-evident digital claim that proves information about an individual or entity, verified using cryptographic proofs.

GX - Certification Notary

The goal of the certification notary is to provide the Gaia-X compliance with trustworthy Verifiable Credentials of certifications within the Permissible Standards of the Compliance Document.

➢ Inputs

- The original paper certificate

➢ Output

- A JWT format signed **VC** of the type **cap:Certification** and **scheme** of type **cap:ConformityAssessmentScheme** as well as **cap:issuer** of type **cap:ConformityAssessmentBody**

https://gitlab.com/gaia-x/lab/gaia-x-onboarding-prototypes/gx-certification-notary/-/blob/main/README.md

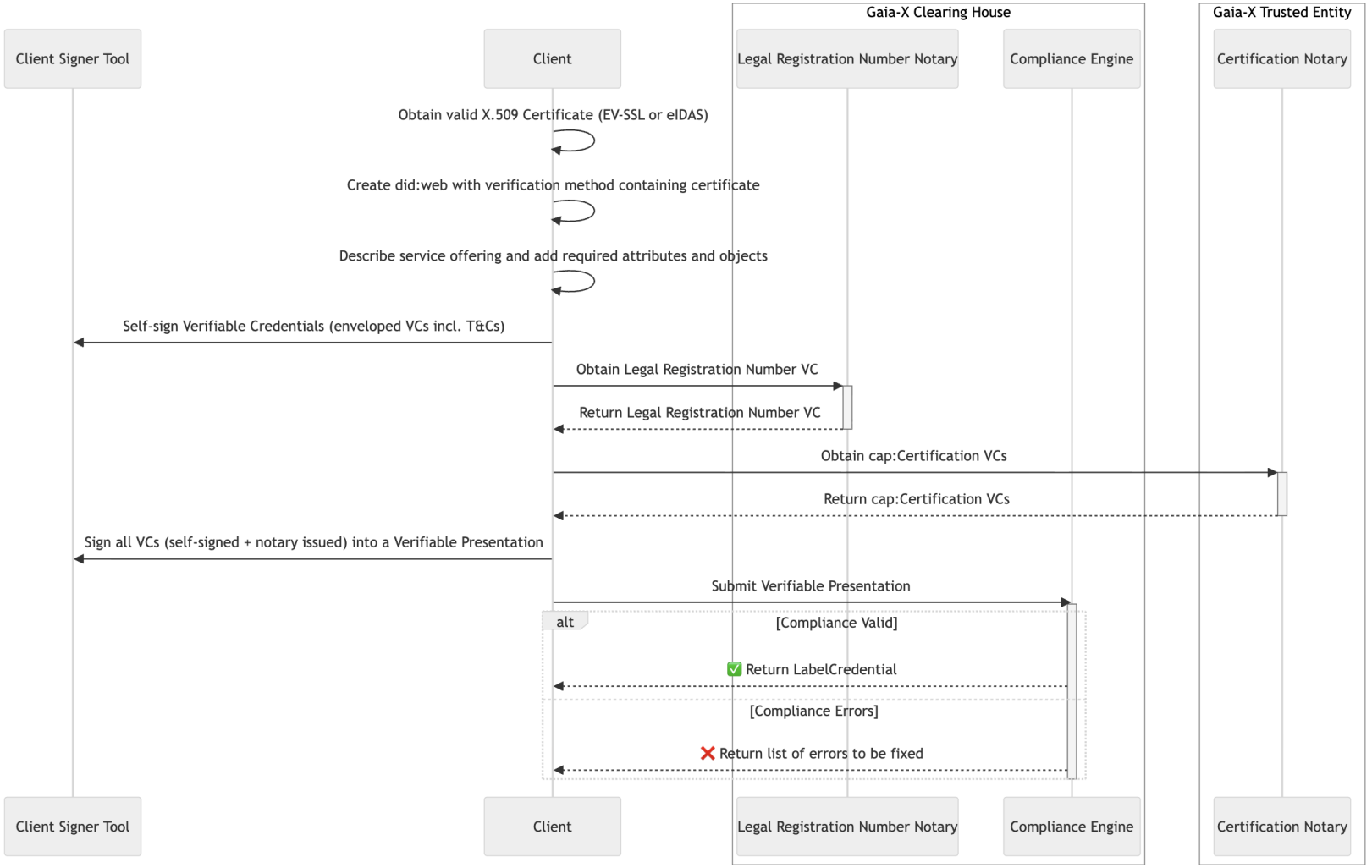
Cap:Certification Verifiable Credentials

```
"@id": "ex:certification_vc_010fdba1-02be-43b9-8fd8-a5d7763cf87b",
"type": [
  "VerifiableCredential",
  "cap:Certification"
],
"issuer": "did:web:certification.notary.lab.gaia-x.eu:main",
"validFrom": "2025-04-24T14:25:50.227+00:00",
"validUntil": "2025-11-12T09:15:13.042+00:00",
"credentialSubject": {
  "@id": "ex:certification_vc_010fdba1-02be-43b9-8fd8-a5d7763cf87b#cs",
  "@type": "cap:Certification",
  "cap:object": {
    "@id": "ex:test#cs",
    "@type": "cap:Object"
  },
  "cap:conformity_assessment_scheme": {
    "@type": "cap:ConformityAssessmentScheme",
    "cap:name": "SecNumCloud",
    "cap:version": "3.2"
  },
```

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
eyJzdWIiOiIxMjM0NTY3ODkwIiwibmFtZSI6IkpvaG4
gRG9lIiwiaXNTb2NpYWwiOnRydWV9.
4pcPyMD09olPSyXnrXCjTwXyr4BsezdI1AVTmud2fU4

https://gitlab.com/gaia-x/lab/gaia-x-onboarding-prototypes/gx-certification-notary/-/blob/main/README.md

Compliance workflow



https://gitlab.com/gaia-x/lab/compliance/gx-compliance/-/blob/development/docs/level2-and-level3-compliance.md

Label Level2 Valid Combination example

SecNumCloud + **CISPE (cert.)** + 1.1.5, 1.2.8, 1.3.1, 1.3.2, 3.1.19, 4.1.2, 6.1.1, 6.1.2, 6.13, 6.1.4 **(decl.)**

SecNumCloud and **CISPE certification criterions** (P1.1.1, P1.1.2 ....)

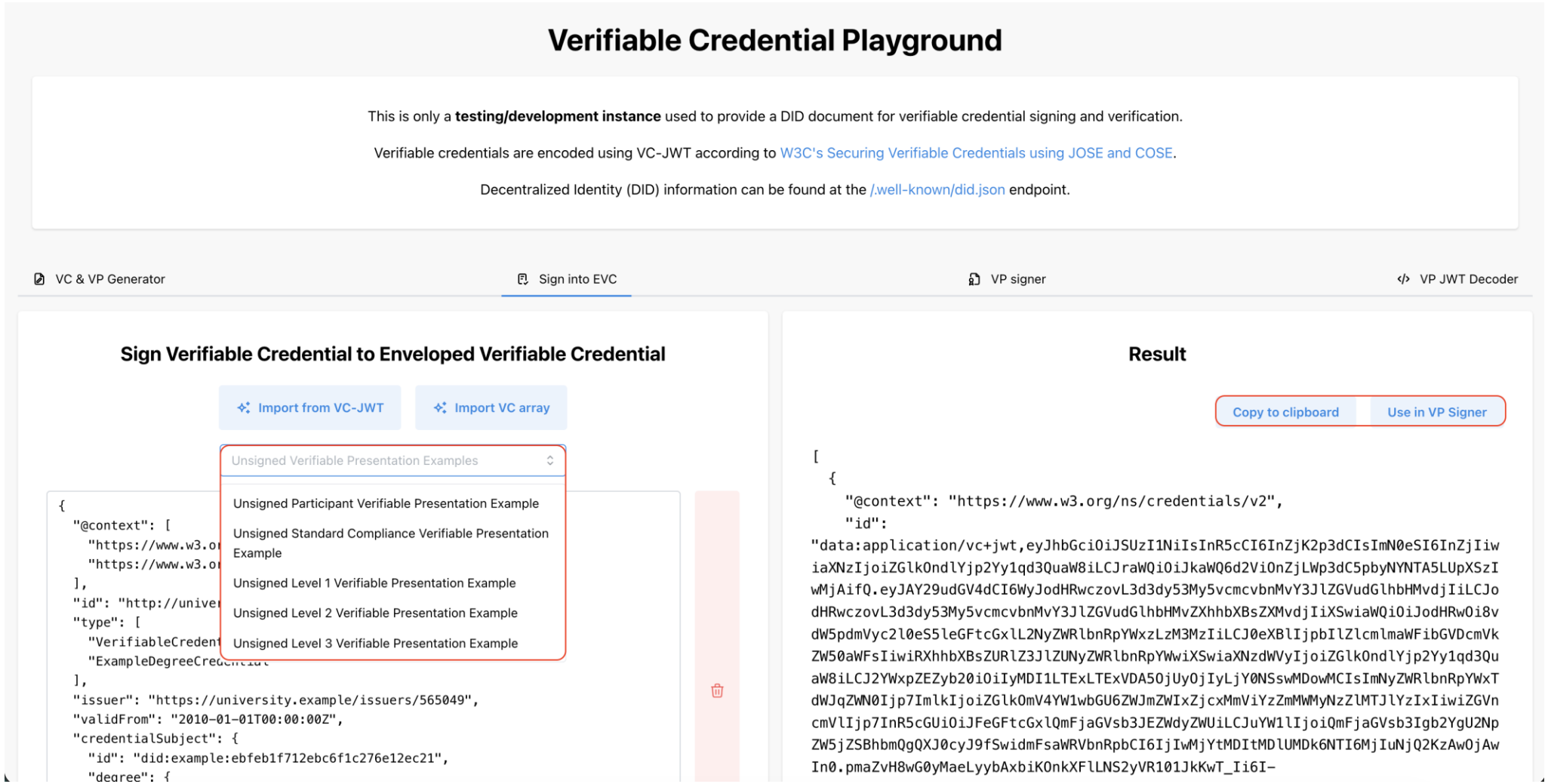
- **P1.1.1 : ServiceOffering** has at least one **LegallyBindingAct** in its **legalDocuments**
- **P3.1.3 : ServiceOffering** has at least one **InformationSecurityRiskManagement** in its **legalDocuments**

Declaration criterions

- **P1.1.5:** Every **LegallyBindingAct** of **ServiceOfferings** have at least one **countryCode** in **governingLawCountries**
- **P3.1.19: ServiceOffering** has at least one **GovernmentInvestigationManagement** in its **legalDocuments**

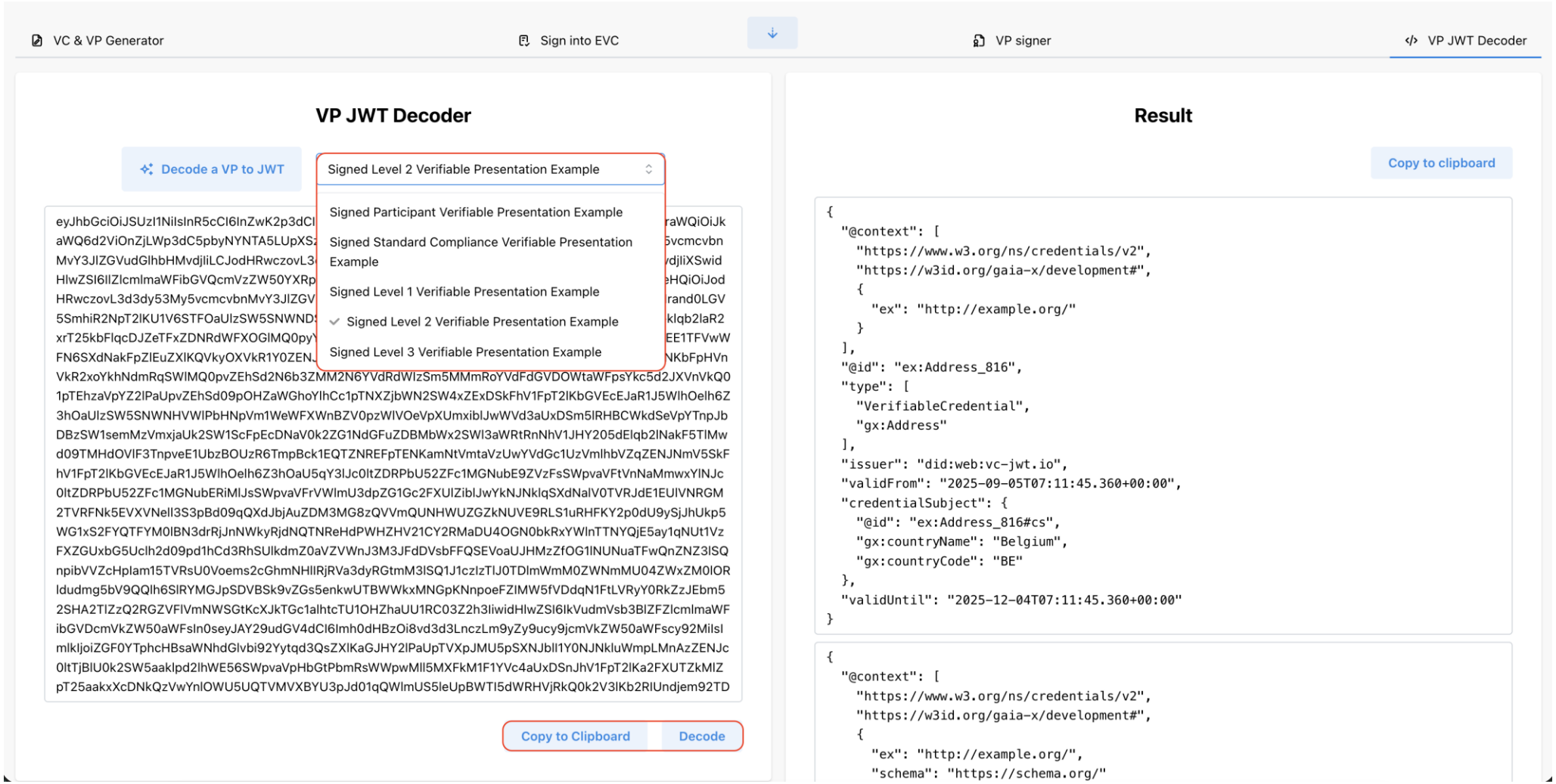
https://gitlab.com/gaia-x/lab/compliance/gx-compliance/-/blob/development/docs/labelling-criteria.md

VC-JWT Playground



https://vc-jwt.io/playground

VC-JWT Playground



https://vc-jwt.io/playground

Q&A

https://vc-jwt.io/playground

Thank you!

Giuditta Del Buono & Ryan Reychico

Contacts

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ryan.reychico@gaia-x.eu

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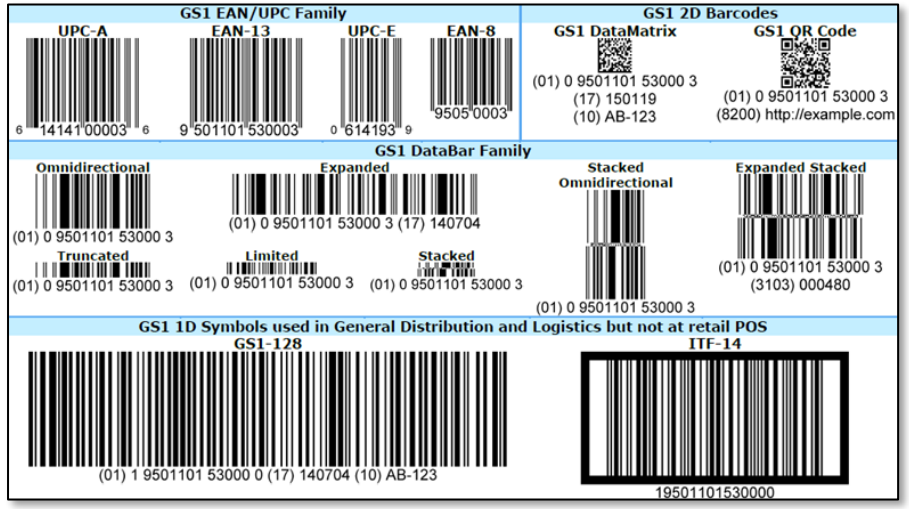
Loire Notaries: Theory & Practice

Pierre Gronlier, CInO

Yassir Sellami, Tech Lead

Gaia-X AISBL

What is an identifier ?



gaia-x

LEI registration details

LEI number	9695009HSLO8O4OSX010
Status	ISSUED
Next renewal date	2026-01-17
Managing LOU	INSTITUT NATIONAL DE LA STATISTIQUE ET DES ETUDES ...

Address[c]

back to ToC or Class ToC

IRI: http://www.w3.org/2006/vcard/ns#Address

is defined by
http://www.w3.org/2006/vcard/ns

To specify the components of the delivery address for the object

is equivalent to
((country name[dp] **some** xsd:string) **and** (country name[dp] **max** 1)) **or** ((locality[dp] **some** xsd:string) **and** (locality[dp] **max** 1)) **or** ((postal code[dp] **some** xsd:string) **and** (postal code[dp] **max** 1)) **or** ((region[dp] **some** xsd:string) **and** (region[dp] **max** 1)) **or** ((street address[dp] **some** xsd:string) **and** (street address[dp] **max** 1))

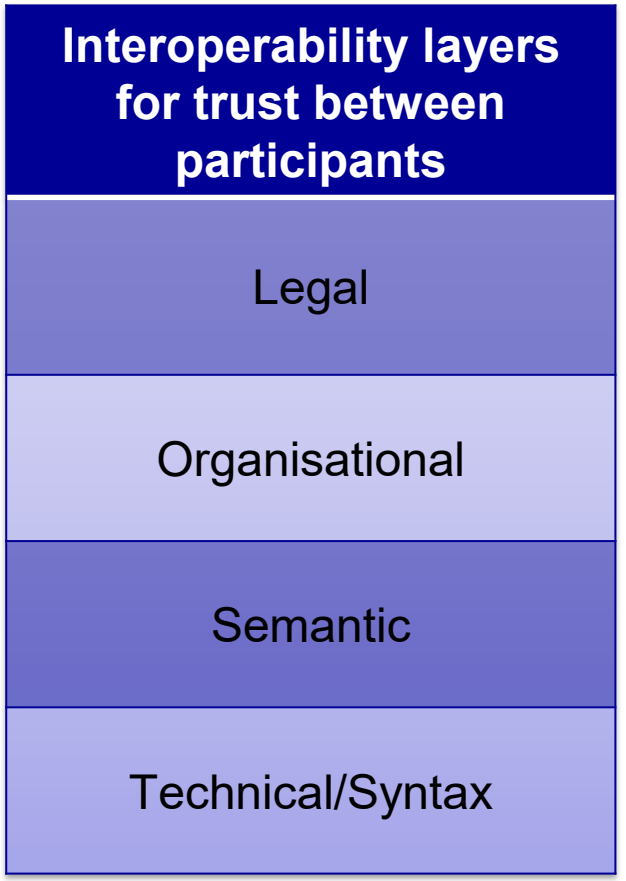
is in range of
has address[op]

What can it identify ?

- A physical object, place, or building (GS1, AAS, OPC-UA, Digital Product Passport, etc.)
- An organisation or legal entity (EU EORI, LEI, JP Corporate number, etc.)
- A natural person (a citizen, freelancer, employee, agent, legal representative, data right holder, etc.)
- An instance of an IT service (an agent, wallet, connector, DB, control plane, etc.)
- A word, a property of an intangible object (a document, evidence, proof, rulebook, etc.)
- A statement

Trust at all levels: Trust Anchors

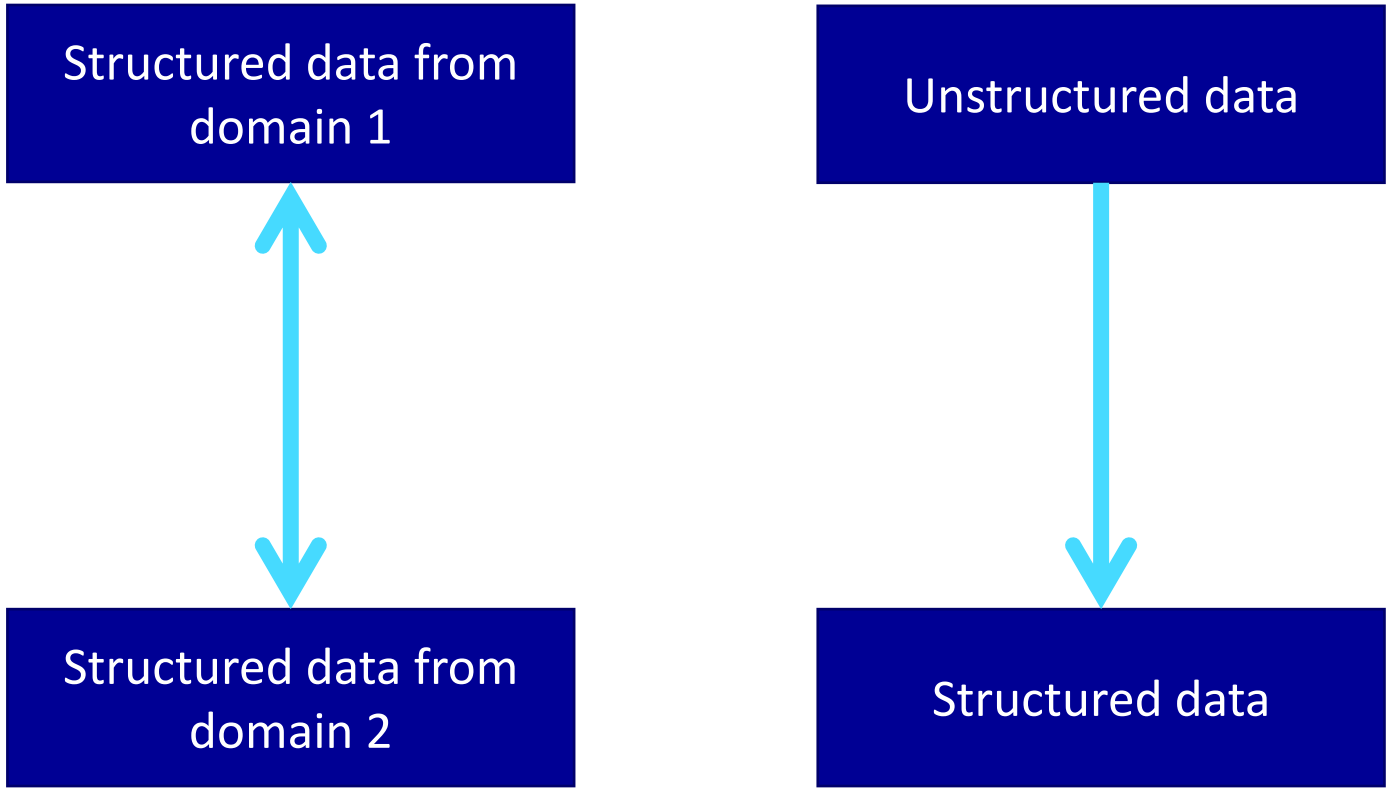
- **Trust in the source of information, the claims, the evidence: Trust Anchors**
  - Where does it come from ? *(traceability: Who is the issuer ? ...)*
  - Are there impartial confirmations ? *(quality: code of conduct, certifications, audit report, ...)*
  - What is the history ? *(past behavior: Is it a new certification, a renewal ? Is it a new company ?...)*
- **Trust in the verifiability / proof of the execution**
  - *Has the data been deleted after use ? Has the data left the computing enclave ? Can the algorithm be leaked ?*
- **Trust in my future strategic autonomy**
  - *Data Portability ? Software vendor lock-in ? License portability ?*
- **Automated Compliance**
  - *regulatory compliance / policy compliance*



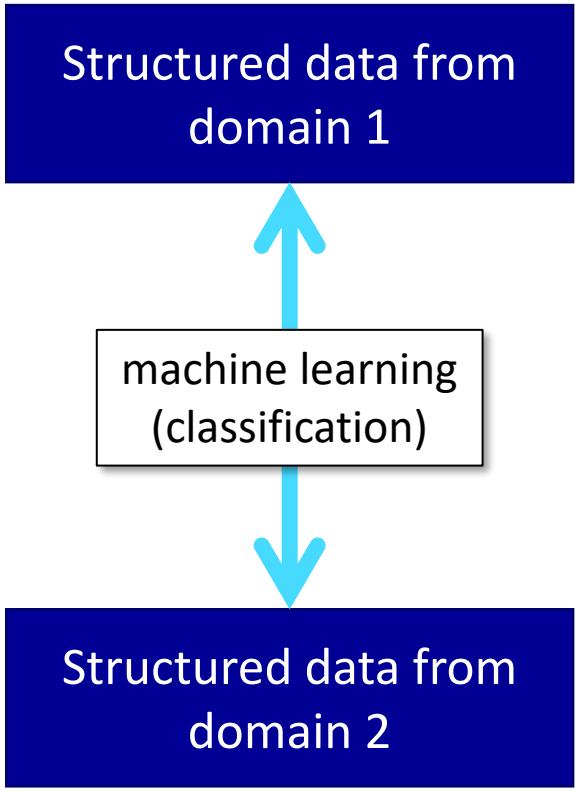
EIF: European Interoperability Framework by European Commission.

ISO 19941:2017: IT - Cloud Computing - Interoperability and portability

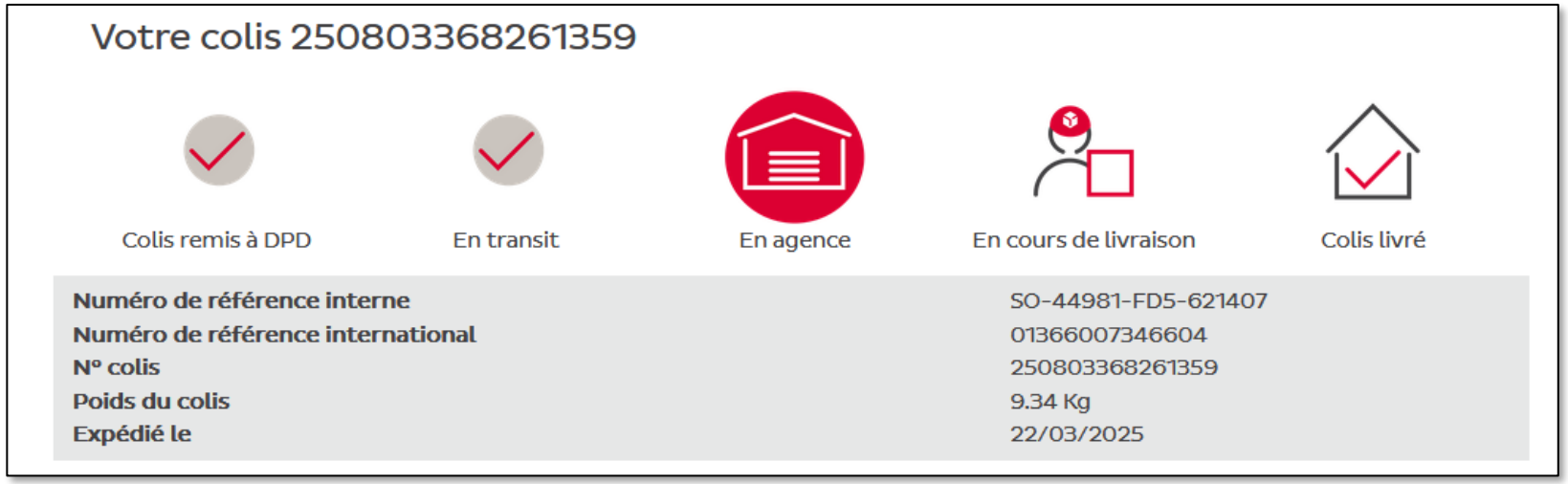
Semantic Interoperability



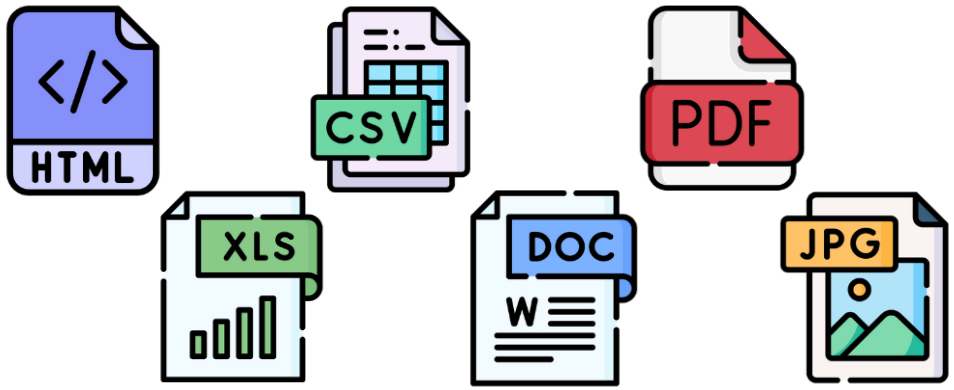
Semantic interoperability of identifiers (hub semantic)



- domain1:customerID <-> domain2:accountID
- TYVA:cell <-> Renault:battery
- vcard:Individual <-> schema:Person <-> gaiax:Participant
  - “did:sov:abc123 is a vcard:Individual” <-> “mylocalID is a gaiax:Participant”



Semantic interoperability of identifiers

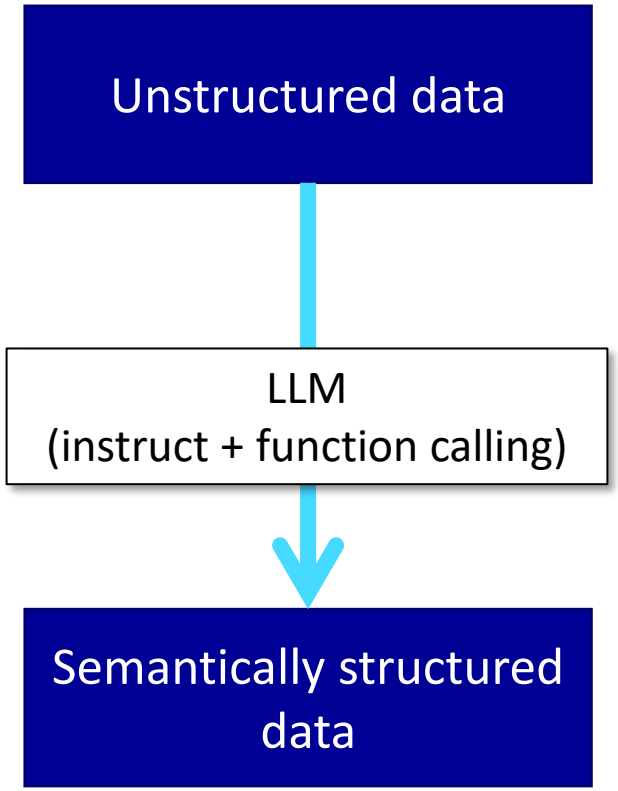


Intervention time schedule(.ics) <-> vcard:calendar

Business card (.jpg) <-> vcard:Contact

ISO certification (.pdf) <-> cap:Certification

...



Notary features (summary)

- Translate data
- Federate Identifiers

Gaia-X Compliance Document - 25.10 Release
Compliance for Cloud Services

Criterion P3.1.15: Incident Management: Ensure a consistent and comprehensive approach to the capture, assessment, communication and escalation of security incidents.

Standard Compliance	Label Level 1	Label Level 2	Label Level 3
declaration	declaration	certification	certification

Declaration: Using the Gaia-X Ontology, the declaration shall include evidences about the provisions covering the criterion, either copied from Provider's documentation or in a structured machine-readable format (DSL). The evidence shall detail:

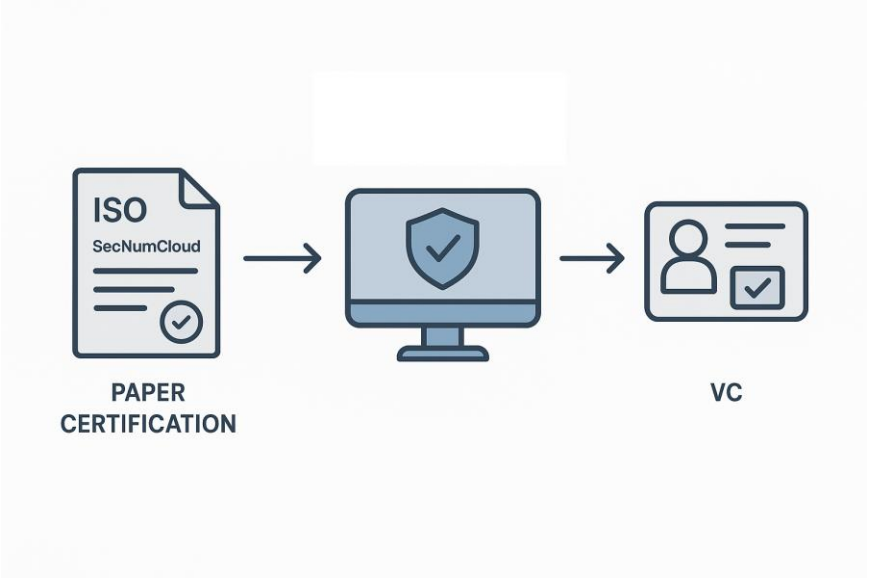
- procedures to provide prompt and effective response to security incidents, including the means and timelines for communicating security incidents and recommendations to limit their impact to all customers concerned;
- procedures related to the communication of responsibilities of internal and external personnel, third party and customers with regard to the reporting of security incidents ;
- procedures and guidelines for the assessment, classification, prioritisation and escalation of security incidents.

Permissible Standards

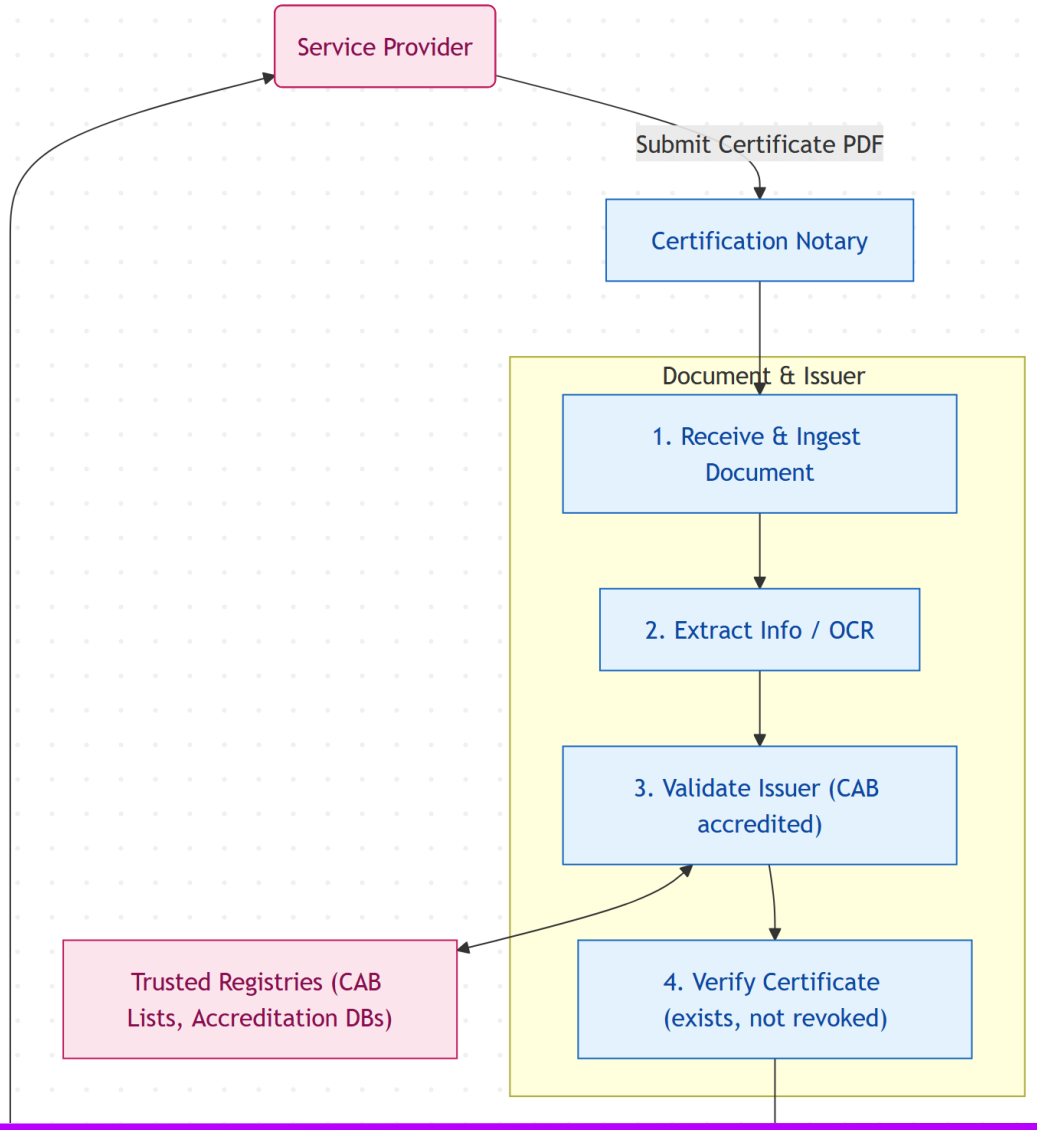
Identified / Term in this Document	Short Description (where necessary)	Version Reference & Access (might be behind a paywall)
SecNumCloud	French Cloud Service Requirements maintained by the Agence nationale de la sécurité des systèmes d'information (ANSSI); further information available at the project's website.	SecNumCloud 3.2.a, as of March, 8th 2022
BSI C5	The C5 (Cloud Computing Compliance Criteria Catalogue) criteria catalogue specifies minimum requirements for secure cloud computing and is primarily intended for professional cloud providers, their auditors and customers. It is published by the German Federal Office for Information Security.	BSI C5:2020
ISO/IEC 27001		ISO/IEC 27001:2022
CISPE (GDPR, Infrastructure & IaaS)	Approved GDPR Code Of Conduct maintained by CISPE, covering Infrastructure and IaaS Cloud Services; further information available at the project's website.	February 9th, 2021
EU Cloud CoC (GDPR, XAAS)	Approved GDPR Code of Conduct maintained by the EU Cloud CoC General Assembly, covering the full cloud stack (XAAS); further information available at the project's website.	EU Cloud CoC v2.11 as of December 2020

Verifiable Credentials are more useful

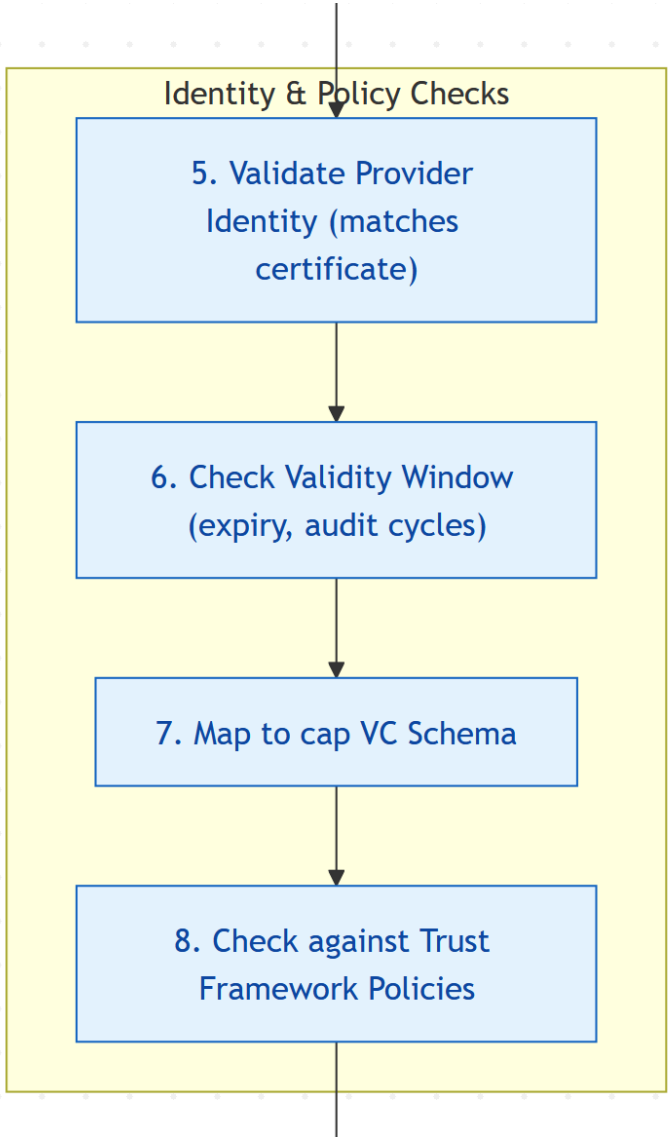
- Tamper-proof: Cryptographically secure and resistant to forgery.
- Instantly verifiable: No manual checks or contacting issuing authorities.
- Machine-readable: Enables automation and integration in digital workflows.
- Privacy-preserving: Selective disclosure allows sharing only necessary claims.
- Portable & durable: Cannot be lost or damaged like paper documents.
- Updatable & revocable: Issuers can update or revoke credentials in real time.



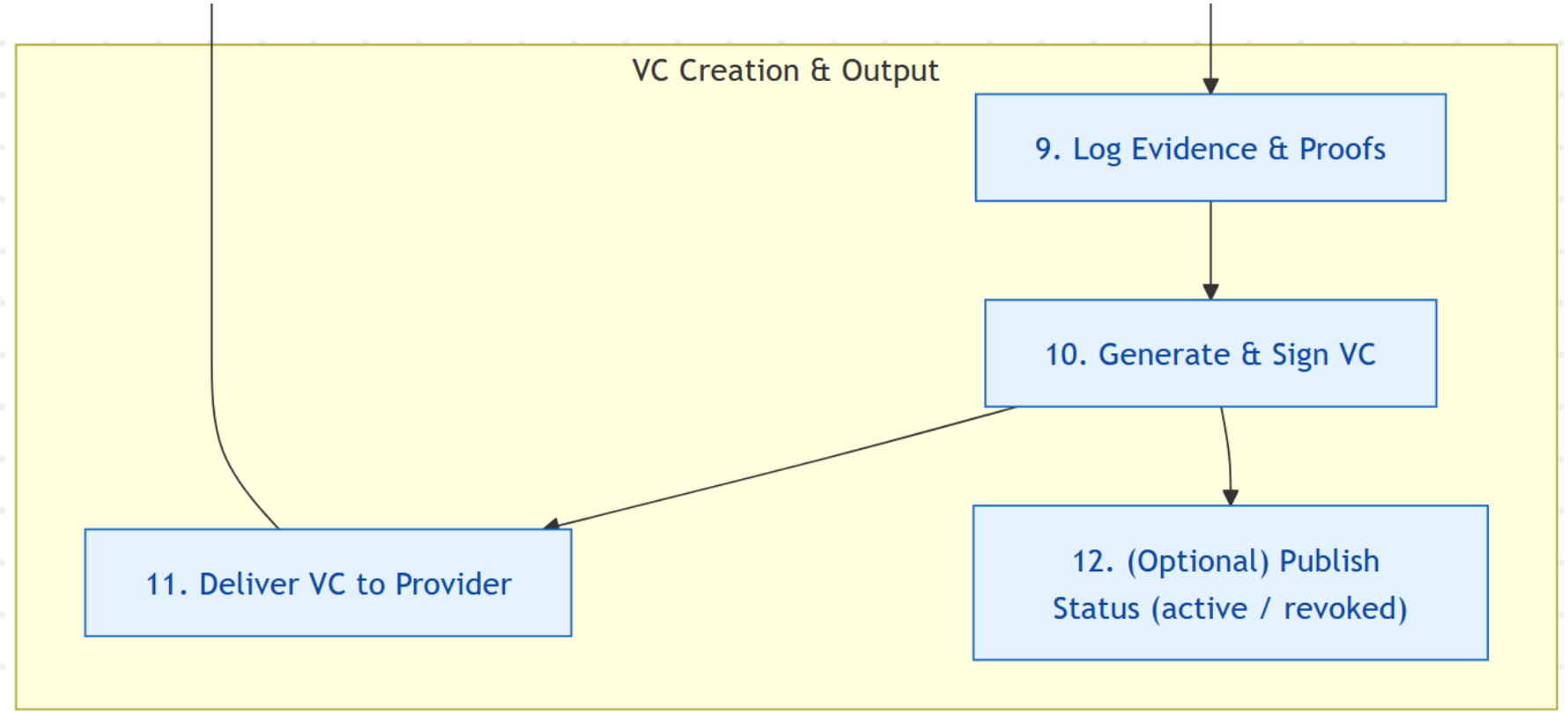
The certification notary flow



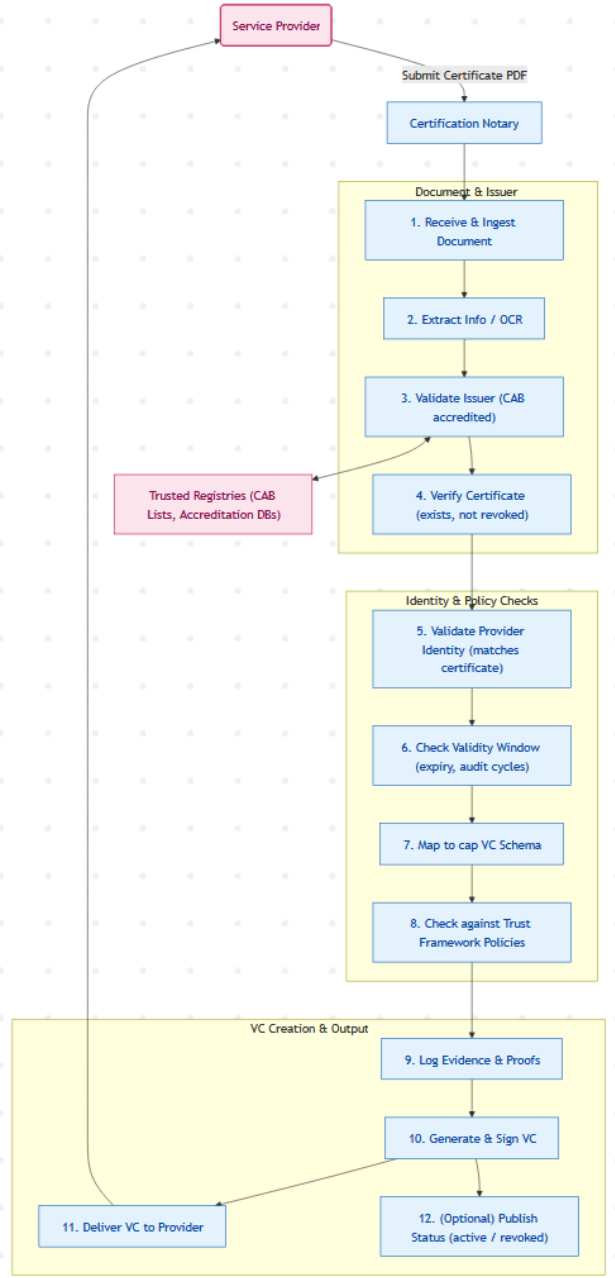
The certification notary flow



The certification notary flow



The certification notary flow



gx-certification-notary

Star 0 | Fork 0

main | gx-certification-notary | + | Find file | Code

chore(release): 1.5.0
semantic-release-bot authored 2 weeks ago

a0f1cffc | History

Name	Last commit	Last update
.husky	feat: initialize project for certification no...	3 months ago
k8s/gx-certification-notary	feat: initialize project for certification no...	3 months ago
src	feat: add service Offering id as a param...	2 weeks ago
.dockerignore	feat: initialize project for certification no...	3 months ago
.env.example	feat: initialize project for certification no...	3 months ago
.eslintrc.js	feat: initialize project for certification no...	3 months ago
.gitignore	feat: initialize project for certification no...	3 months ago
.gitlab-ci.yml	fix: cap certification vc	3 months ago
.nvmrc	feat: initialize project for certification no...	3 months ago
.prettierrc	feat: initialize project for certification no...	3 months ago
.releaserc	feat: initialize project for certification no...	3 months ago
CHANGELOG.md	chore(release): 1.5.0	2 weeks ago

Project information

LICENSE | ECLIPSE PUBLIC LICENSE 2.0

RELEASE | V1.5.0 | coverage | unknown

- 32 Commits
- 2 Branches
- 14 Tags
- 2.2 MiB Project Storage
- 14 Releases

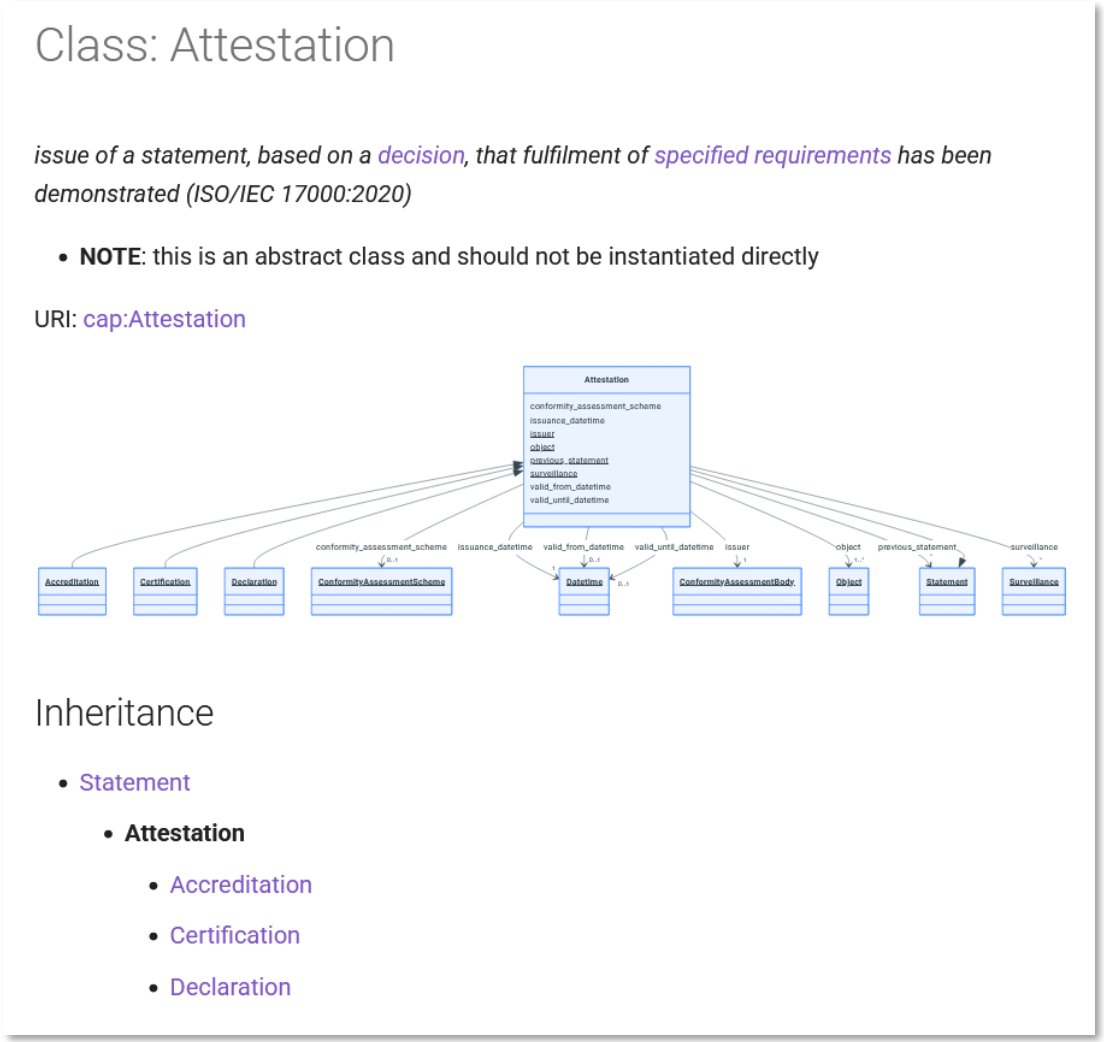
- README
- Eclipse Public License 2.0
- CHANGELOG
- CI/CD configuration
- + Add CONTRIBUTING
- + Add Kubernetes cluster
- + Add Wiki
- + Configure Integrations

Created on
May 23, 2025

Eclipse Foundation

- In the Eclipse Dataspace Working Group (EDWG), Gaia-X contributions to the **Eclipse Conformity Assessment Profile (CAP)** have been released in April as v2.0 📦
  - Current testing projects : Gaia-X Label level 2&3, CISPE, DOME, Fulcrum

- On the path for ISO Publicly Available Specification (PAS) submission with:
  - Specification -> `cap.owl.ttl` or `cap.owl.xml`
  - TCK (shape) -> `cap.shape.ttl`
  - Reference implementation -> `cap.py`

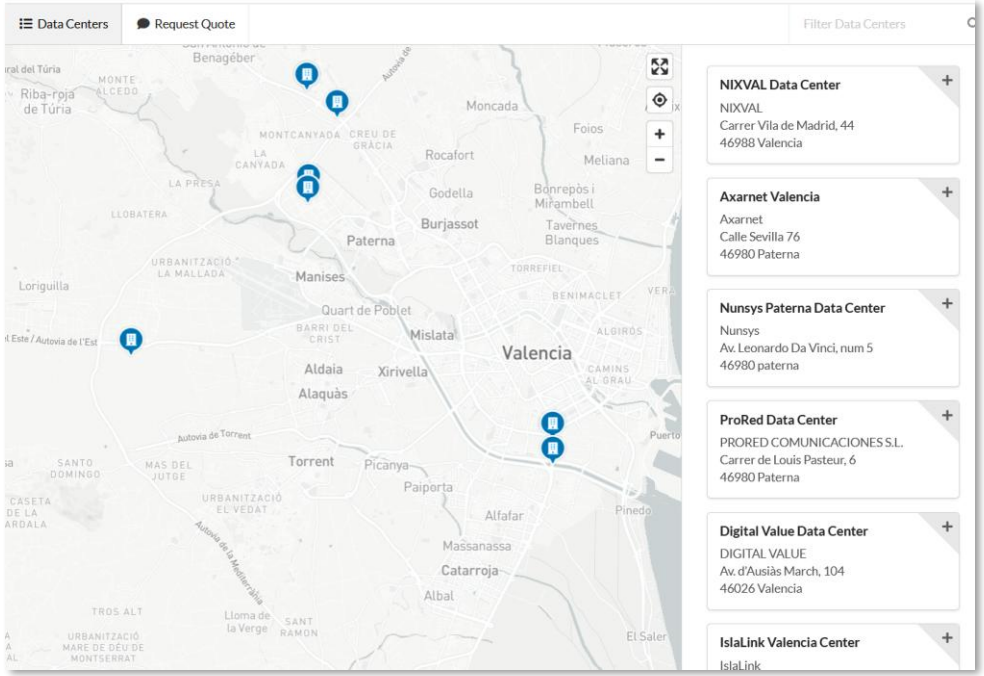


https://github.com/eclipse-dataspace-cap/cap-ontology (v2.1.3)

Eclipse CAP – example of enablements

- Today's challenge:
  - certifications are PDF-based and require intensive manual labor to be assessed.
  - It's expensive and scope is usually vague

- Example with W3C ODRL + Eclipse CAP
  - ODRL:Offer
    - «The dataset <idXXX> shall **only** be processed on ISO 27001 qualified services in Valencian Community, Spain»
  - ODRL:Request
    - « I would like to consume the dataset <idXXX> and here is the services's ISO27001 certificate hosted in the ES-VC adnimistrative area»



https://www.datacentermap.com

cap:Certification Verifiable Credentials


```
"@id": "ex:certification_vc_010fdba1-02be-43b9-8fd8-a5d7763cf87b",
"type": [
  "VerifiableCredential",
  "cap:Certification"
],
"issuer": "did:web:certification.notary.lab.gaia-x.eu:main",
"validFrom": "2025-04-24T14:25:50.227+00:00",
"validUntil": "2025-11-12T09:15:13.042+00:00",
"credentialSubject": {
  "@id": "ex:certification_vc_010fdba1-02be-43b9-8fd8-a5d7763cf87b#cs",
  "@type": "cap:Certification",
  "cap:object": {
    "@id": "ex:test#cs",
    "@type": "cap:Object"
  },
  "cap:conformity_assessment_scheme": {
    "@type": "cap:ConformityAssessmentScheme",
    "cap:name": "SecNumCloud",
    "cap:version": "3.2"
  },
```



```
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
eyJzdWIiOiIxMjM0NTY3ODkwIiwibmFtZSI6IkpvaG4
gRG9lIiwiaXNTb2NpYWwiOnRydWV9.
4pcPyMD09olPSyXnrXCjTwXyr4BsezdI1AVTmud2fU4
```


Source: jwt.io

- https://gaia-x.gitlab.io/policy-rules-committee/compliance-document/
- https://gitlab.com/gaia-x/lab/compliance/gx-compliance/-/blob/development/docs/level2-and-level3-compliance.md
- https://gitlab.com/gaia-x/lab/gaia-x-onboarding-prototypes/gx-certification-notary
- https://vc-jwt.io/playground

Thank you!

Pierre Gronlier, CInO

Yassir Sellami, Tech Lead

Gaia-X SUMMIT 2025

DIGITAL ECOSYSTEMS IN ACTION

Porto, Portugal | 20 & 21 November

gaia-x

In partnership with

gaia-x Hub Portugal

tice.pt

PORTO DIGITAL

Porto.

From Data Mesh to Data Space

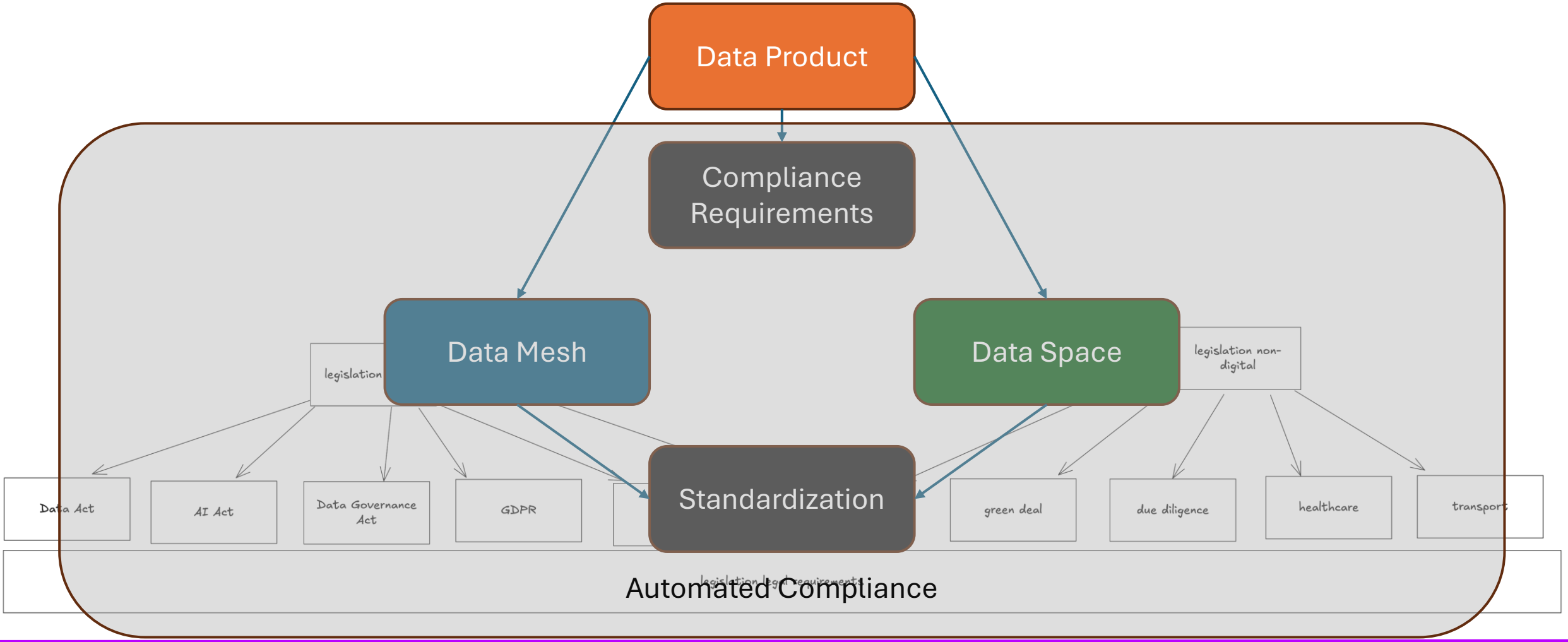
Using Data Products in Data Mesh and Space with Gaia-X Danube Architecture

Stefan Dumss

Senior Researcher

Posedio GmbH

Motivation: Automatization of Compliance



Data Governance based on ISO 20151
Draft

- Which company data is shared with whom?
- Which external data (sources) are used within the company?
- What obligations and restrictions apply to the use of specific data?
  - Do these data sets contain personal data?
  - Which rights must be respected (usage duration, scope of use, etc.)?
- Where in the company is data generated, and for what purposes is it used?
  - Is the data quality sufficient?
  - Can this data be shared (internally)?

Data Mesh[1]

Goal: decentralized responsibility and controlled data provisioning

Principles:

- Domain Ownership
  - Business Domains (Domain Driven Development)
- Data as Product Product
  - Includes **all components** to share data (metadata, code, policy, declarations)
- Self-Service (Data Platform)
  - Empower domains to help among other things the full life cycle
- Federated Governance
  - Governance: How are data quality and ownership ensured?
  - Compliance: Are we legally allowed to use the data in this way?

[1] Data Mesh by by Zhamak Dehghani

Product Definition

ISO 9000: „output of an organization that can be produced without any transaction taking place between the organization and the customer“[1]

… but products for customers usually are standardised and regulated[2]

[1] ISO 9000:2015 Chapter Terms and Definitions

[2] e.g. EU product requirements https://commission.europa.eu/business-economy-euro/doing-business-eu/eu-product-safety-and-labelling/eu-product-requirements_en

Data Product

- Data Product describes the data with metadata, interfaces, policies and more[1]

Three dimensions:

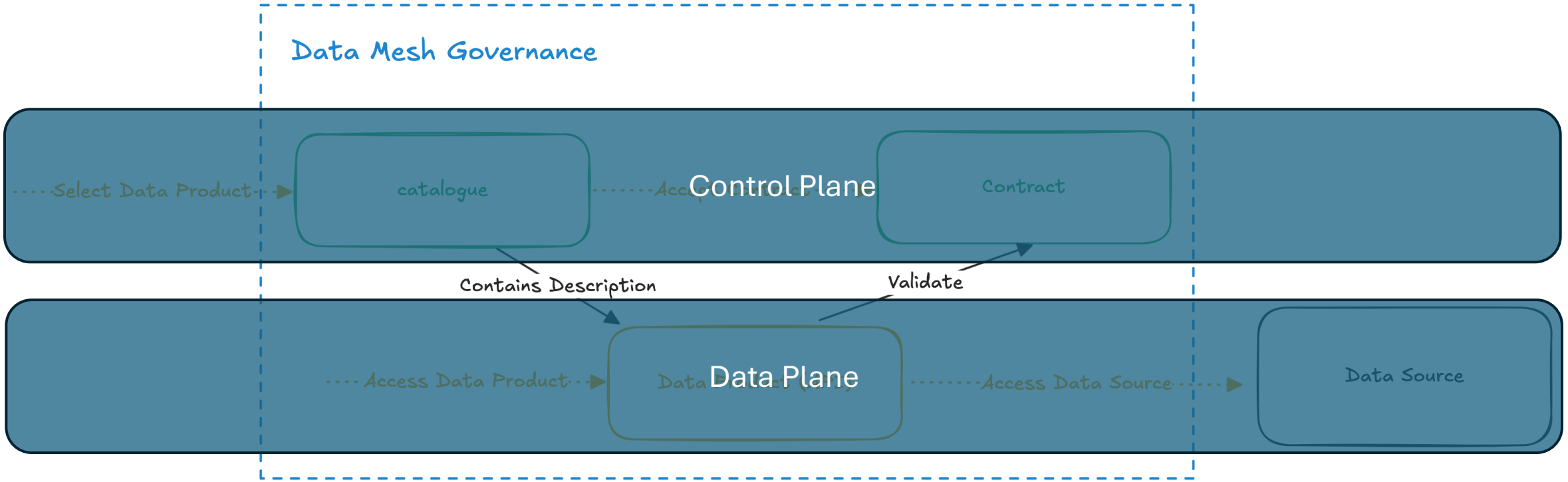
- Technical: API, schema, storage, input/output interfaces
- Organizational: owner, SLA, domain
- Regulatory: source, licensing, compliance requirements[2]

Goal: reusable, transparent, and responsibly managed data assets.

[1] https://opendataproducts.org/v4.1/ https://martinfowler.com/articles/designing-data-products.html https://dpds.opendatamesh.org/specifications/dpds/1.0.0/ https://www.datamesh-governance.com/policies/definitions/data-product/data-product.html https://docs.gaia-x.eu/ontology/development/classes/DataProduct

[2] some of the specifications see it as part of the Data Contracts

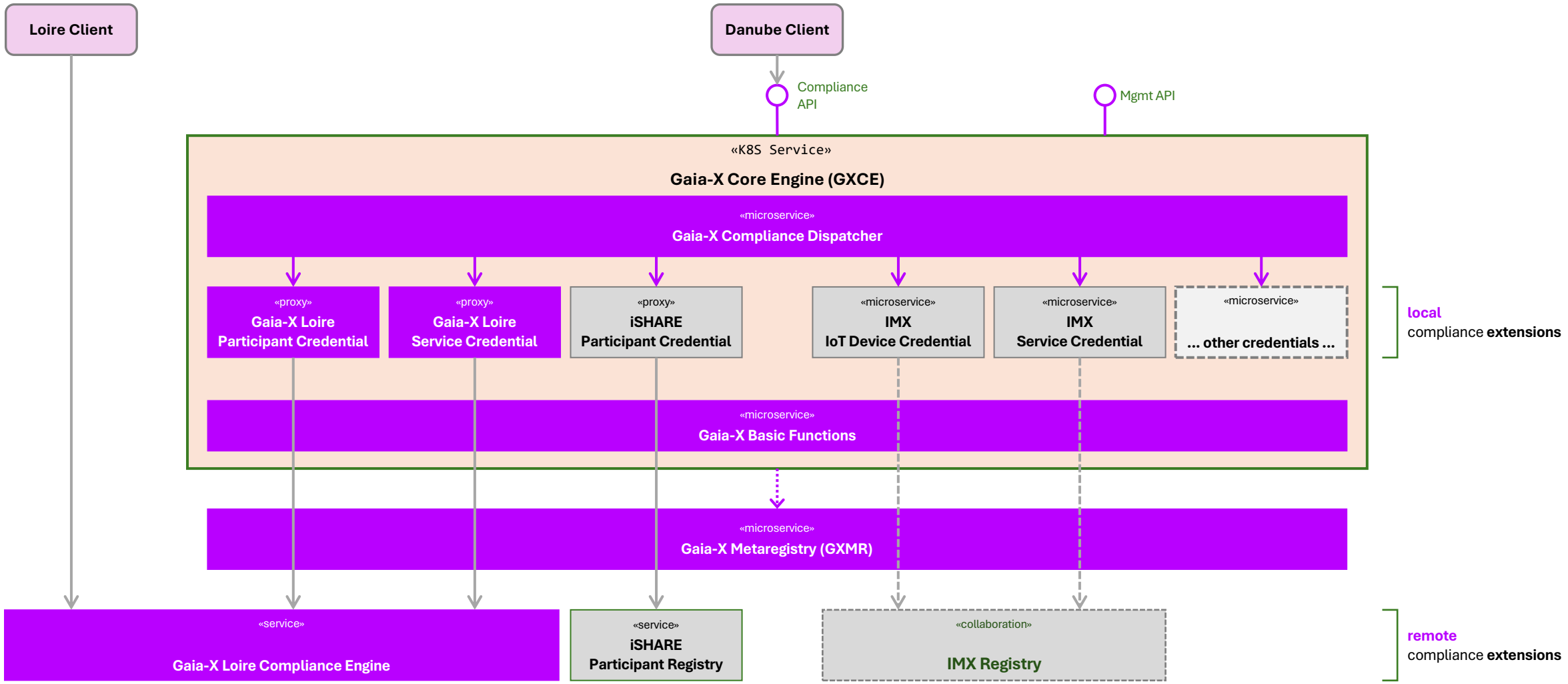
Compliant Data Mesh Access Control



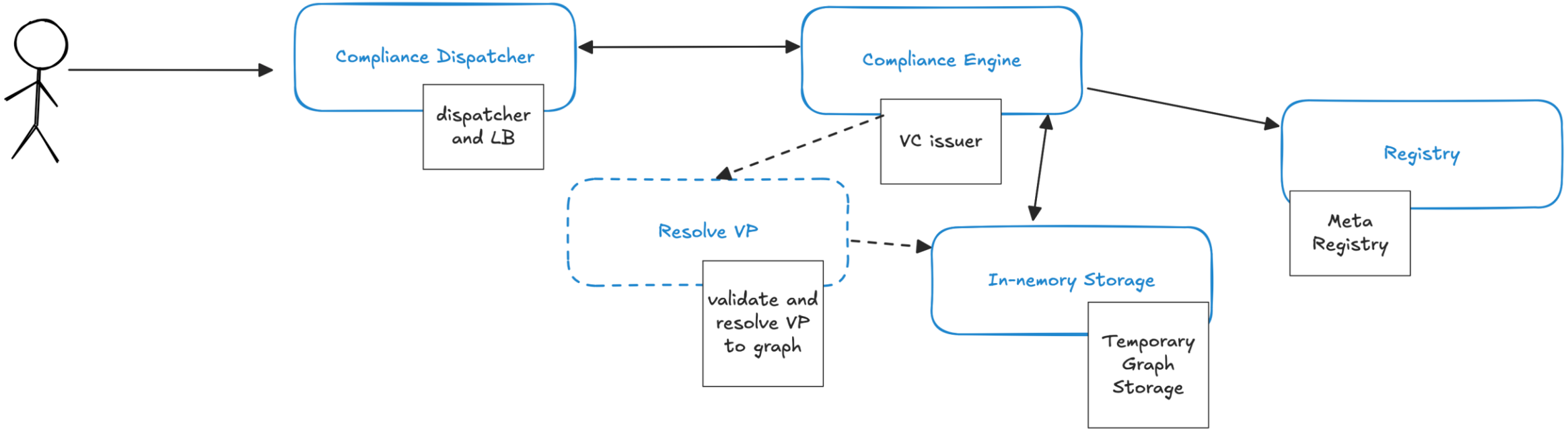
Data Space (ISO 20151)

- Participants Maintain Control over the data
  - Claims, obligations, roles in interactions, and rules are defined in a standardized way
- Across organizational boundaries:
  - Create trust across organizational boundaries
    - They require agreement on shared rules, trust frameworks, trust anchors, etc.
  - Data is published in a form that makes it discoverable (for both humans and machines)
    - Metadata is represented in a unified manner across company borders
  - Enable (automated) contract negotiation with standardized components
    - This is supported through shared ontologies, both in terms of semantics and predefined components
- Dataspaces rely on interoperability in all of these aspects
  - Parts of the system can be reused both technically and conceptually

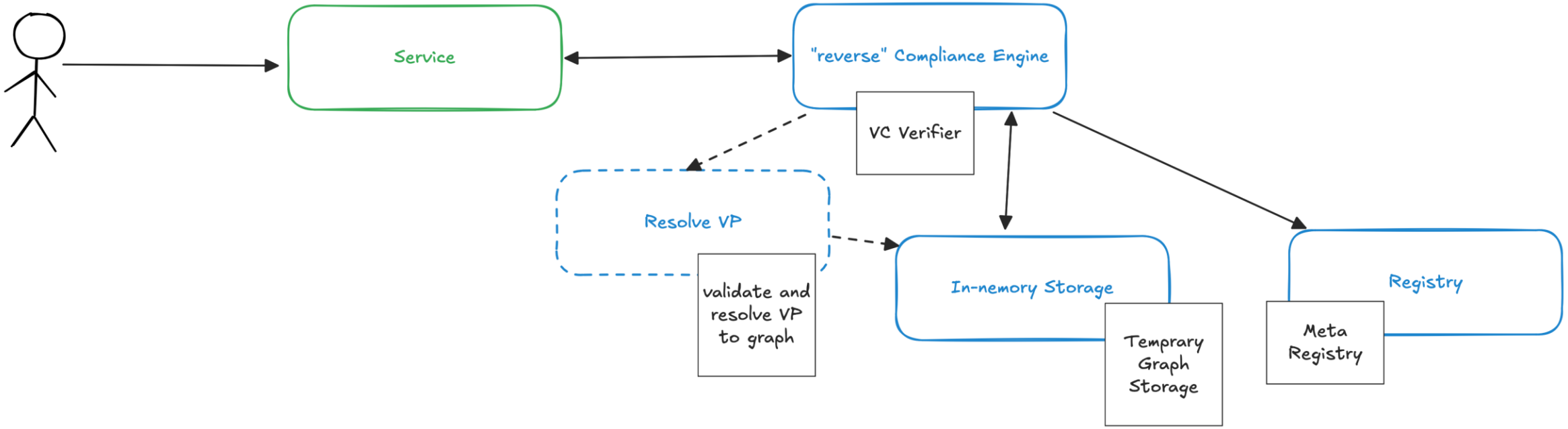
Danube Architecture



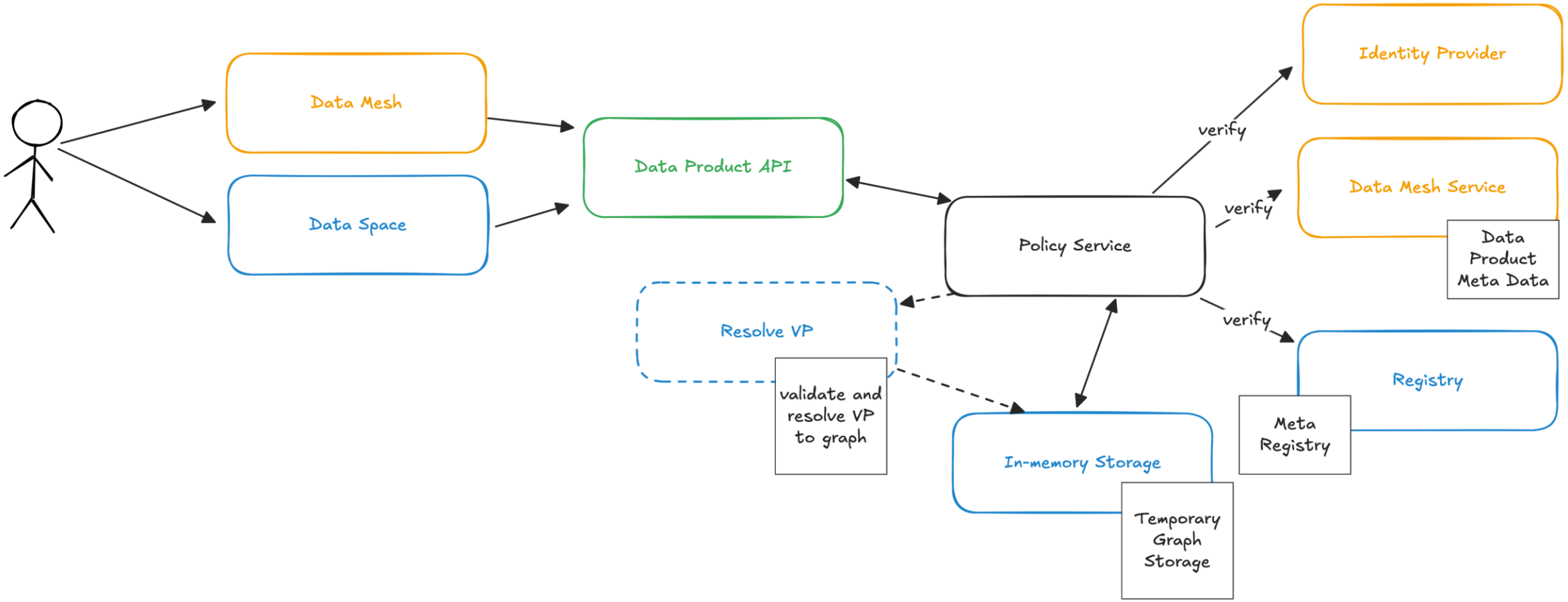
Compliance Issuance



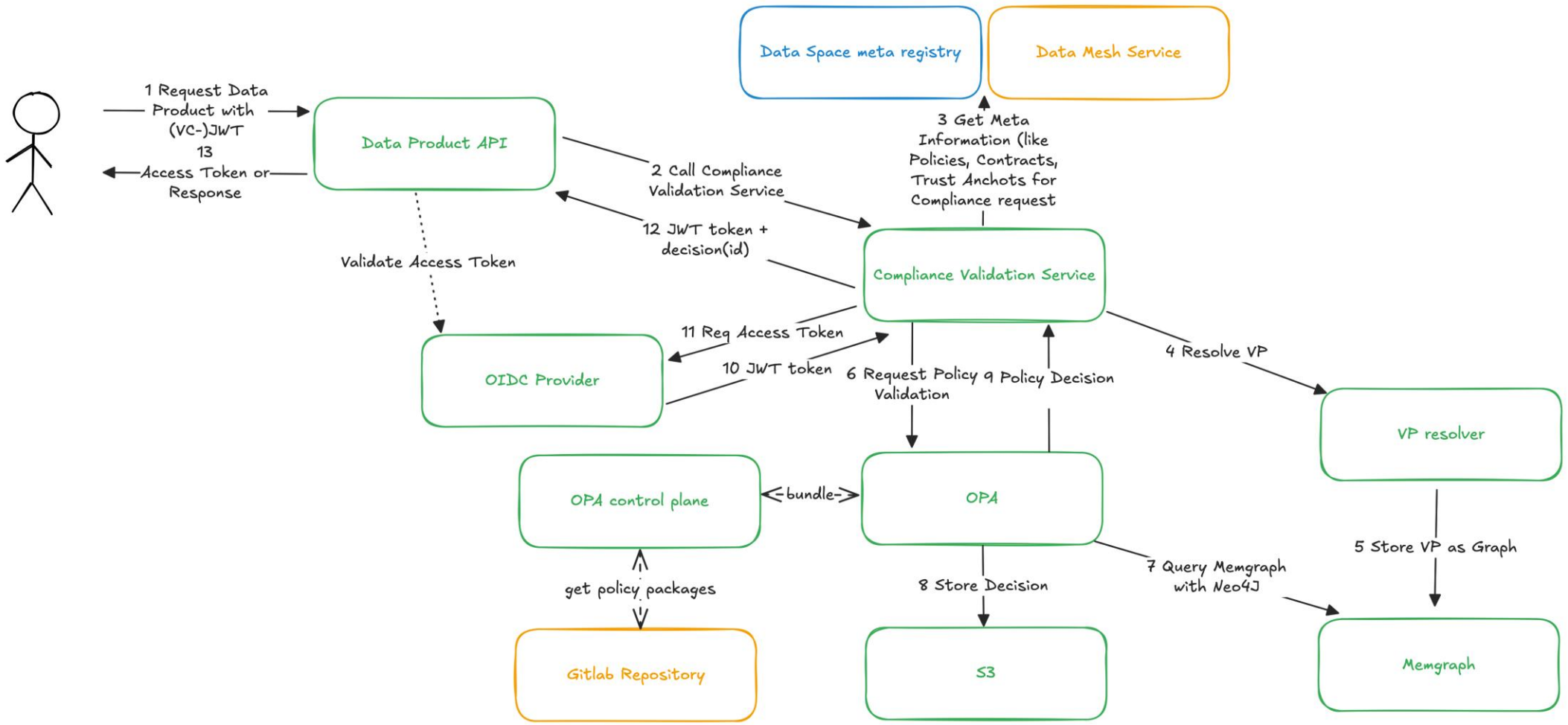
Compliance Validation for Access Control



Combination Space and Mesh



Example Technical Architecture



Advantages Aligning Data Mesh and Space for Compliance

- Consistent trust framework across organizations
- With the aligned Data Product view:
  - Unified internal governance for internal and external provisioning
  - Traceability and auditability as a built-in standard capability
  - Automation instead of manual audit processes
  - Policy validation integrated into data flows

→ Seamless integration between Data Space and Data Mesh principles

Thank you!

Stefan Dumss, stefan.dumss@posedio.com

gaia-x CERTIFIED ADVISOR

Eclipse Cloud Interest Group

Marco D’Angelo, Klaus Ottradovetz, Manuel Gutiérrez

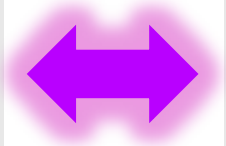
Gaia-X & Eclipse Cloud Interest Group – WHY?

gaia-x

gaia-x

ECLIPSE FOUNDATION *Eclipse Cloud Interest Group*

- Creating the **de facto standard** to enable **federated and trusted** data and infrastructure ecosystems
- Our goal is to establish an ecosystem, whereby data is shared and made available in a **trustworthy environment**
- Our intention is that we **give the control back** to the users by retaining sovereignty
- Our outcome is a federated system linking many cloud service providers and users together in a **transparent environment**



- Eclipse Cloud IG aims to empower stakeholders in the cloud landscape to explore and assess ways to **independently** build, manage, operate, and consume the cloud services **of their choice**
- **Freedom** from vendor lock-in
- **Scalability, resilience, and flexibility** in cloud environments
- Fostering operational **independence** and resilience
- **Interoperable**, adaptable, and easy to manage systems

WHAT we'll see in this session

Marco D'Angelo

- +25 y. of experience in SW (Microsoft and open-source ecosystem)
- External Director at Huawei for the Open-Source Office in Europe.
- Founder of Radixia.ai, startup member of Eclipse foundation with the goal to drive Open Source adoption in the ISP/CSP
- Boosting Eclipse Cloud Interest Group

Klaus Ottradovetz

- Member of the Atos Scientific community at Atos International Germany GmbH
- Having worked closely with many innovation partners on the definition and implementation of industry- and technology platforms
- Currently, Lead of the Gaia-X Technical Committee

Interest Group

- Status, opportunities, a look to the future

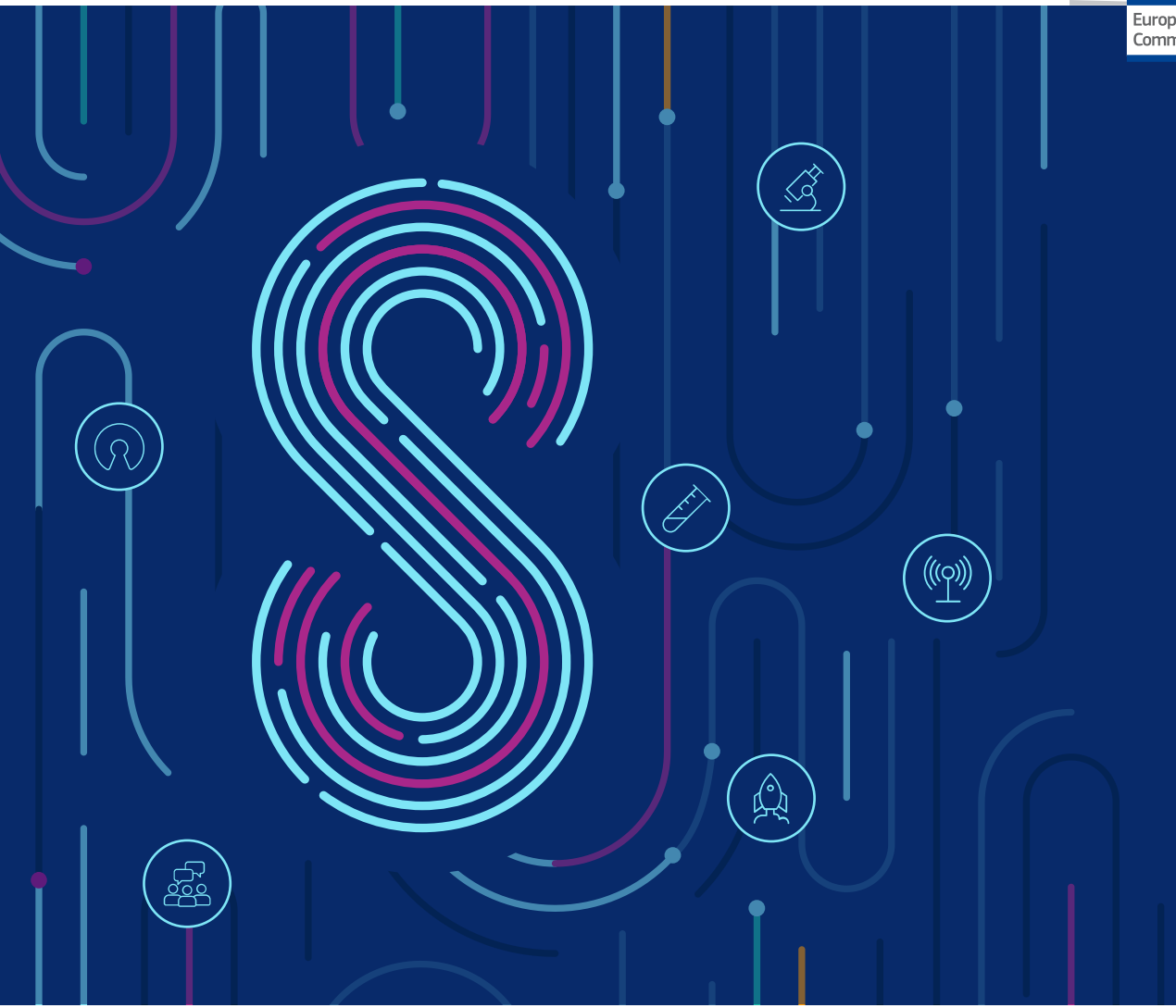
Gaia-X & open source

- How Gaia-X works with open-source tools in a technically compatible way – practical example

Eclipse Cloud Interest Group

The Eclipse Cloud Interest Group aims at becoming a Working Group to foster innovation and development of open source cloud **technologies**, **protocols** and **specifications** that enable **multi-cloud interoperability** in line with the **Data Act switching** requirements and other relevant regulations, and **strategic autonomy**.

Thank you!



Simpl Programme

Gaia-X Summit 2025

Simpl State of play

Valentina Staveris IT Project officer

EC DG CNECT Cloud and Software unit

What is Simpl?

open-source means built-in trust & security, flexibility to deploy, simplicity to customise

middleware are software suites that enable applications and databases to work seamlessly together and provide a flawless user experience

Simpl is the open-source smart middleware that enables cloud-to-edge federations and all major data initiatives funded by the European Commission

all major data initiatives, in particular the development of **Common European Data Spaces** modular and interoperable way.

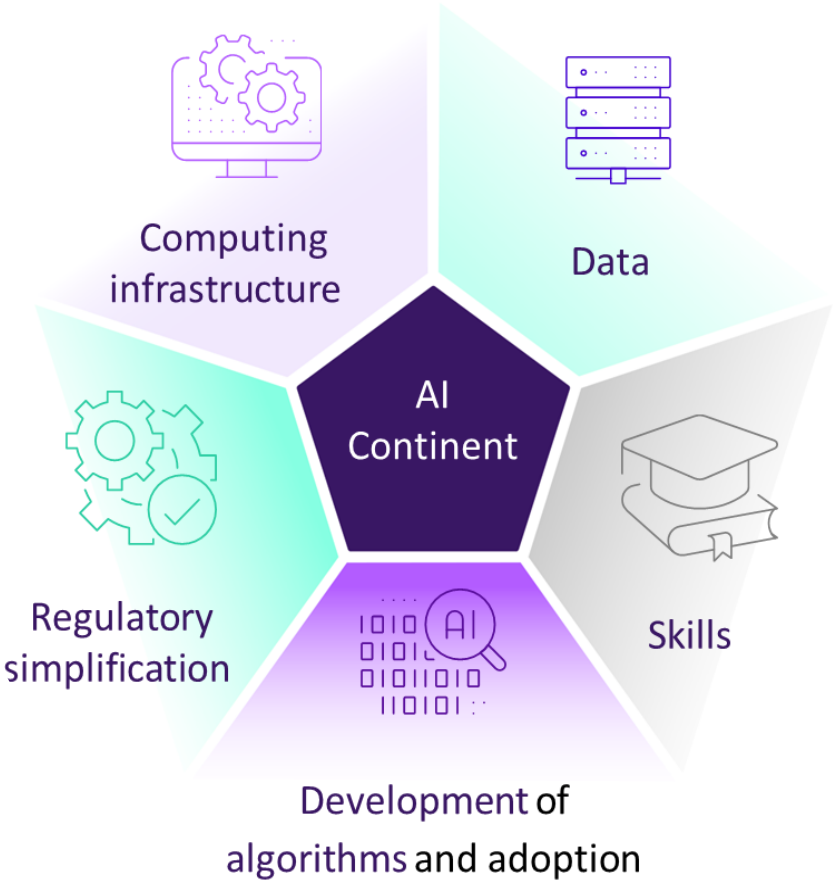
cloud-to-edge federations put together resources across cloud and edge computing environments as a cohesive system, creating a seamless integrated infrastructure that combines the strength of both cloud and edge computing.

AI Continent: the policy imperative

"The Commission is supporting these efforts by developing Simpl, a shared cloud software to make it easier to manage and connect data spaces"

The **AI Continent Action plan** will transform Europe's strong traditional industries and its exceptional talent pool into powerful engines of AI innovation and acceleration.

1. **Building a large-scale AI data and computing infrastructure**
   AI Factories and Gigafactories; Cloud and AI Development Act;
2. **Increasing access to large and high-quality data**
   Data Union Strategy; Data Labs; Common European Data Spaces; ***Simpl;***
3. **Developing algorithms and fostering AI adoption in strategic EU sectors**
   Apply AI Strategy, European Digital Innovation Hubs; GenAI4EU, Resource for AI Science in Europe;
4. **Strengthening AI skills and talents**
   AI Skills Academy; AI Literacy; Mobility of non-EU workers in the AI Sector;
5. **Regulatory simplification**
   AI Act Service Desk, ongoing *Stakeholder consultation.*



European Commission

Digital Package including Simpl

Digital package

Simpler EU digital rules and new digital wallets to save billions for businesses and boost innovation.

1. DIGITAL OMNIBUS
simplifying rules on data, cyber and AI

2. DATA UNION STRATEGY
unlocking more, high-quality data for AI

3. EU BUSINESS WALLETS
cutting paperwork and ease regulatory burdens

2. DATA UNION STRATEGY

Scales up access to high quality data for AI.

Streamlines and **simplifies data rules**, while protecting fundamental rights.

Protects Europe's data sovereignty.

"Simpl cloud middleware will enable interoperability across initiatives through an open-source, modular, and secure set of components. This lowers barriers for SMEs and creates faster links between ecosystems.

The data spaces support centre will reinforce uptake, especially among SMEs, by raising awareness and practical guidance."

Simpl-Open is the core open-source software

Simpl-Open

Simpl-Open

- Open-source
- Middleware
- Cloud to edge federations
- Common engine behind data spaces

Core features

Next Major release in December 25

Ending: December 2026

Extension

New Simpl-Open AI and ML capabilities

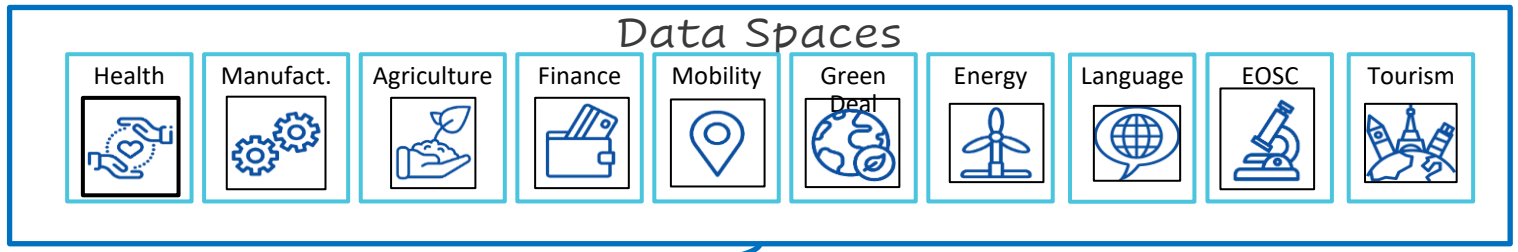
Simpl and DOME Marketplace catalogue connection

Monetisation

Simpl-Open – AI enablement, AI factories and DOME integration

1) New Simpl-Open AI and ML capabilities

Simpl-open AI and ML services:
Extensions to PaaS services ML provisioning.
New layer of **AI services** to be added Simpl-open, as **built-in AI services for Data spaces**.



use

Simpl

Simpl as an enabler for data spaces and other initiatives to access AI factories resources.

and gives access to

EuroHPC AI Factories

AI factories – HPC capacity

AI factories – Data storage facilities

Simpl-open Infrastructure connectors to connect to **AI Factories using EuroHPC federation services**

Simpl-open Data services to **make use of Data facilities and data services provided by AI Factories**

2) Simpl and DOME Marketplace catalogue connection

Simpl

Availability of **DOME products** in **Simpl-open catalogues**

New **Simpl AI services** published in **DOME catalogues**

DOME
(Distributed Open Marketplace for Europe)

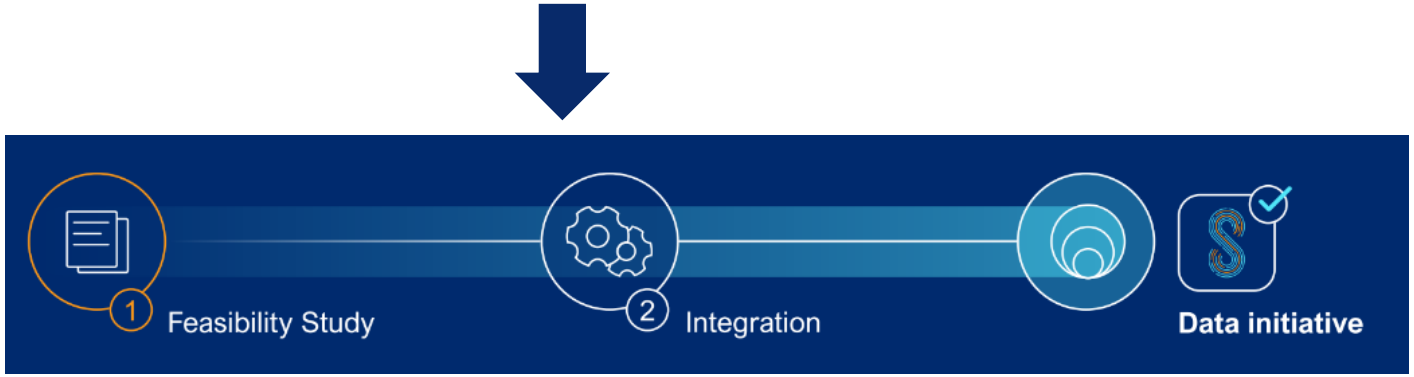
European Commission

Simpl-Live are instances of Simpl-Open deployed for specific data spaces

Simpl-Live

- **distinct instances** of Simpl-Open
- deployed for **specific sectoral data spaces**/ initiatives

- Public Procurement Data Space (PPDS)
- European Open Science Cloud (EOSC)
- Destination Earth (DestinE)
- Language Data Space (LDS)
- Smart Communities Data Space (SCDS)
- European Health Data Space of Secondary Data (EHDS2)



European Commission

Simpl-Live are instances of Simpl-Open deployed for specific data spaces

Simpl-Live

- **distinct instances** of Simpl-Open
- deployed for **specific sectoral data spaces**/ initiatives

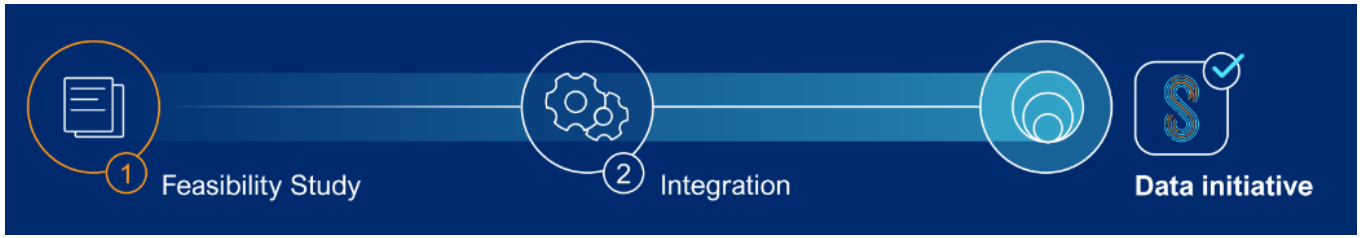
EuroCloud initiative

Energy Data Space

European Mobility Data Space

Agriculture Data Space

Green Deal Data Space



European Commission


Mark the date!
Simpl Annual
Community Event
29 January 2026

Get involved and participate!

COMING UP

Simpl Annual Community Event

29 January 2026

Hybrid, Brussels

Register here!

Website

Visit our website for Simpl documentation, requirements and latest news.

Social Media

Join and engage with our growing community!

Forum

Keep a look out for Simpl's forum launch! Coming soon!

Webinars & Workshops

Join technical and business sessions, online and in person.

Code Repository

Check out and review the code!

Simpl Newsletter

Subscribe to stay up-to-date with Simpl!

NEW

Scan me for more information about Simpl

Thank you

Orchestrating Sovereign Data Exchange

Yannick Meinberg

Gaia-X Summit 2025, Porto

Inspire great minds to shape a sustainable future

CONTACT Research

Agenda

1. CONTACT Software: Who we are
2. Dataspaces Integration
3. Use Case: Product Carbon Footprints
4. The Internal Process
5. How to enable Trust

Company profile

Focus

Innovations for **digital product processes** for more than 30 years

Mission

Strengthening employee collaboration and making **companies more agile**

Industries

Customers with challenging processes

Mechanical and plant engineering

Automotive

High-tech & Medical

Consumer

~ 600 Employees

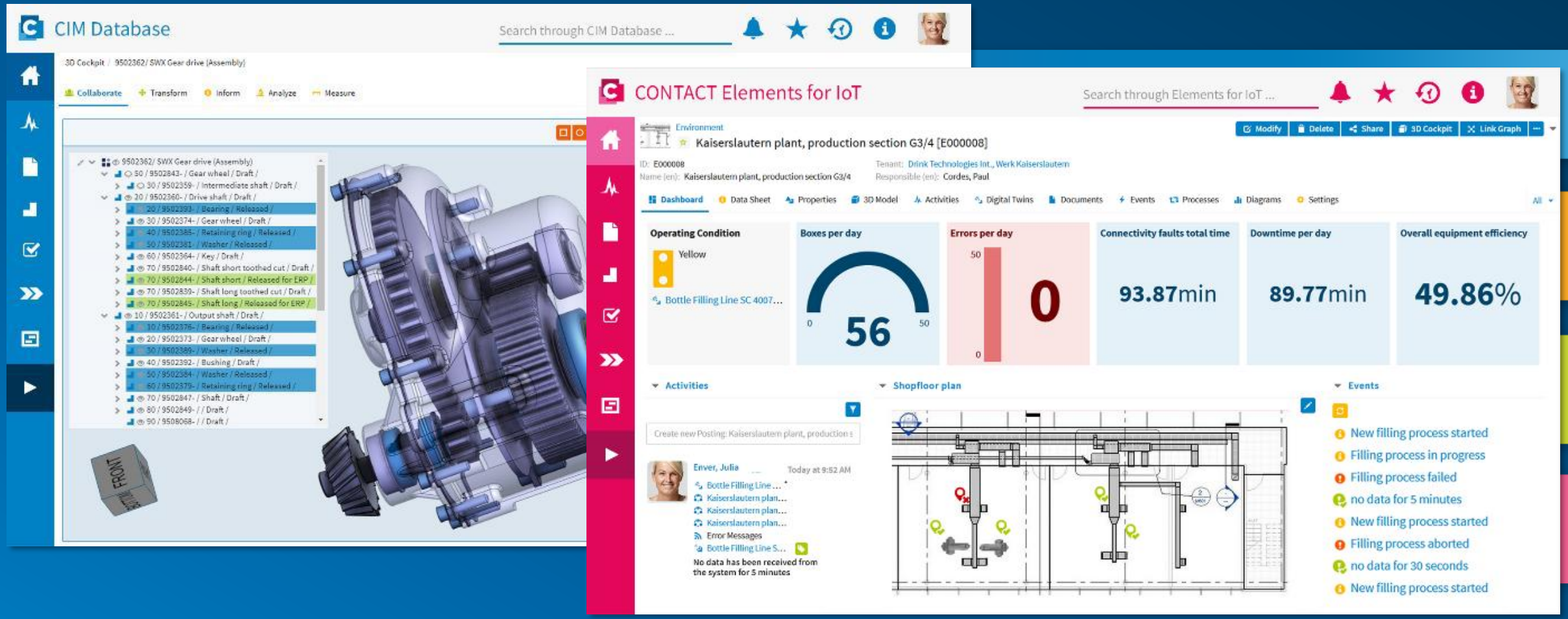
More than 27% R&D investments

Global **Ecosystem**

Community with **2000** customer locations in 40 countries

60 partners

Products & services



Our Research Areas

Green Technology & Sustainability

„Shape sustainability in the product life cycle” – The resources of our planet are limited. That is why we at CONTACT Research are researching digital methods, processes and solutions to put the relationship between nature and society on a permanently sustainable footing by means of technological-industrial innovation and reorganization.

Digital Lifecycle Management

„Go digital or go home” – We work on strengthening and future-proofing collaboration and inter-operability between a wide variety of systems, organizations or industries. The focus of our research is on use cases along the entire product lifecycle. We do not limit ourselves to the classic branches of engineering, but systematically open up new fields of competence.

Data & Service Ecosystems

„Data sovereignty in a world of distributed services” – We are working on solutions for innovative data and service ecosystems to help shape the digital transformation in industry and society. We take global availability into account just as much as the ever-growing need for sovereignty over one's own data.

Artificial Intelligence

„Bringing artificial intelligence into the engineering domains” – With CONTACT Research, we want to bring artificial intelligence (AI) into the engineering domains. Our research focuses on use cases from all phases of the product lifecycle. This puts a broad spectrum of technologies, methods and processes at the center of our work.

User Centered Approach

„Embrace the user as the most important and exciting part of the system”– Human Factors in software development support social sustainability by ensuring software is accessible, inclusive, and improves quality of work for all users.

*Our **industrial research** embodies CONTACT's commitment to **long-term action** and **sustained investment.***

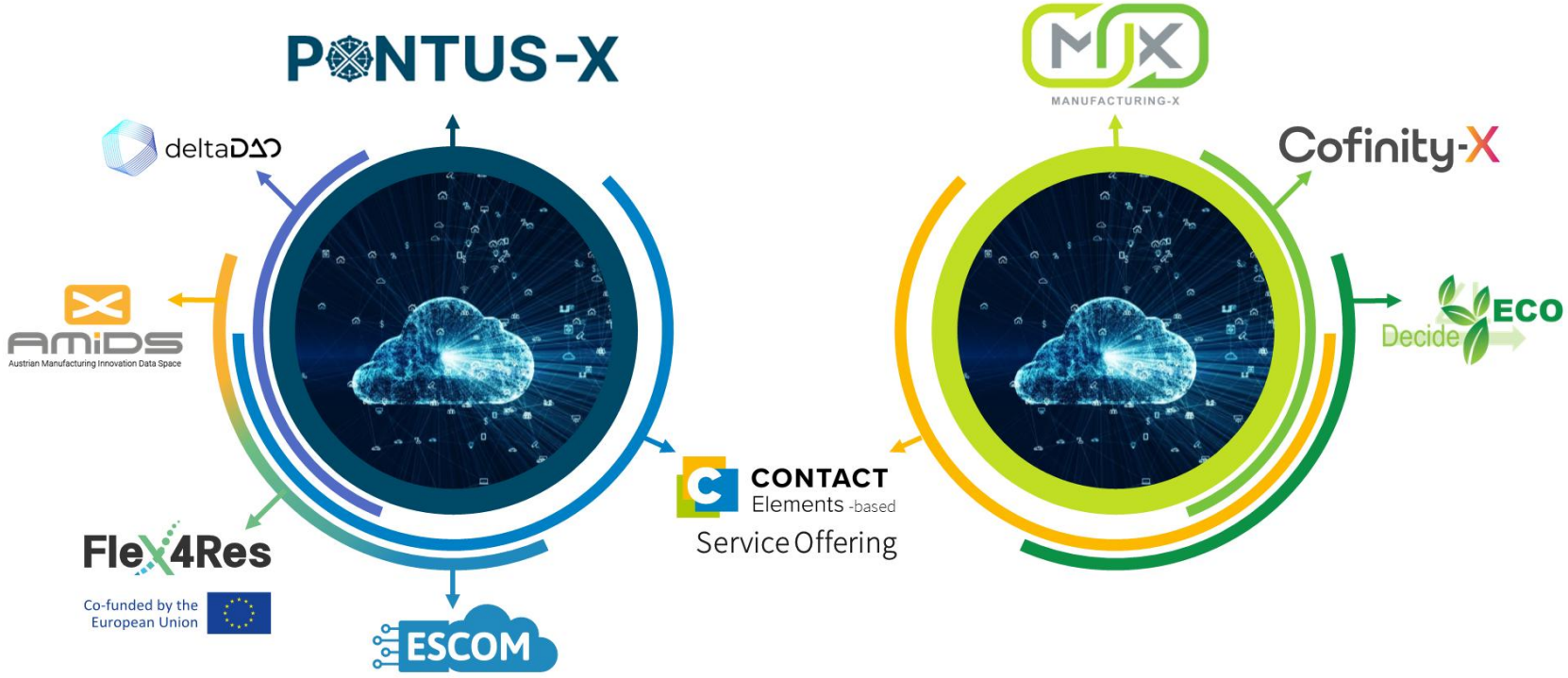
Our Research Areas

Data & Service Ecosystems

„Data sovereignty in a world of distributed services" – We are working on solutions for innovative data and service ecosystems to help shape the digital transformation in industry and society. We take global availability into account just as much as the ever-growing need for sovereignty over one's own data.

Connecting Data Management Systems to Gaia-X based Data Spaces

"Always one Data Space ahead"



*Our **industrial research** embodies CONTACT's commitment to **long-term action** and **sustained investment.***

Agenda

1. CONTACT Software: Who we are
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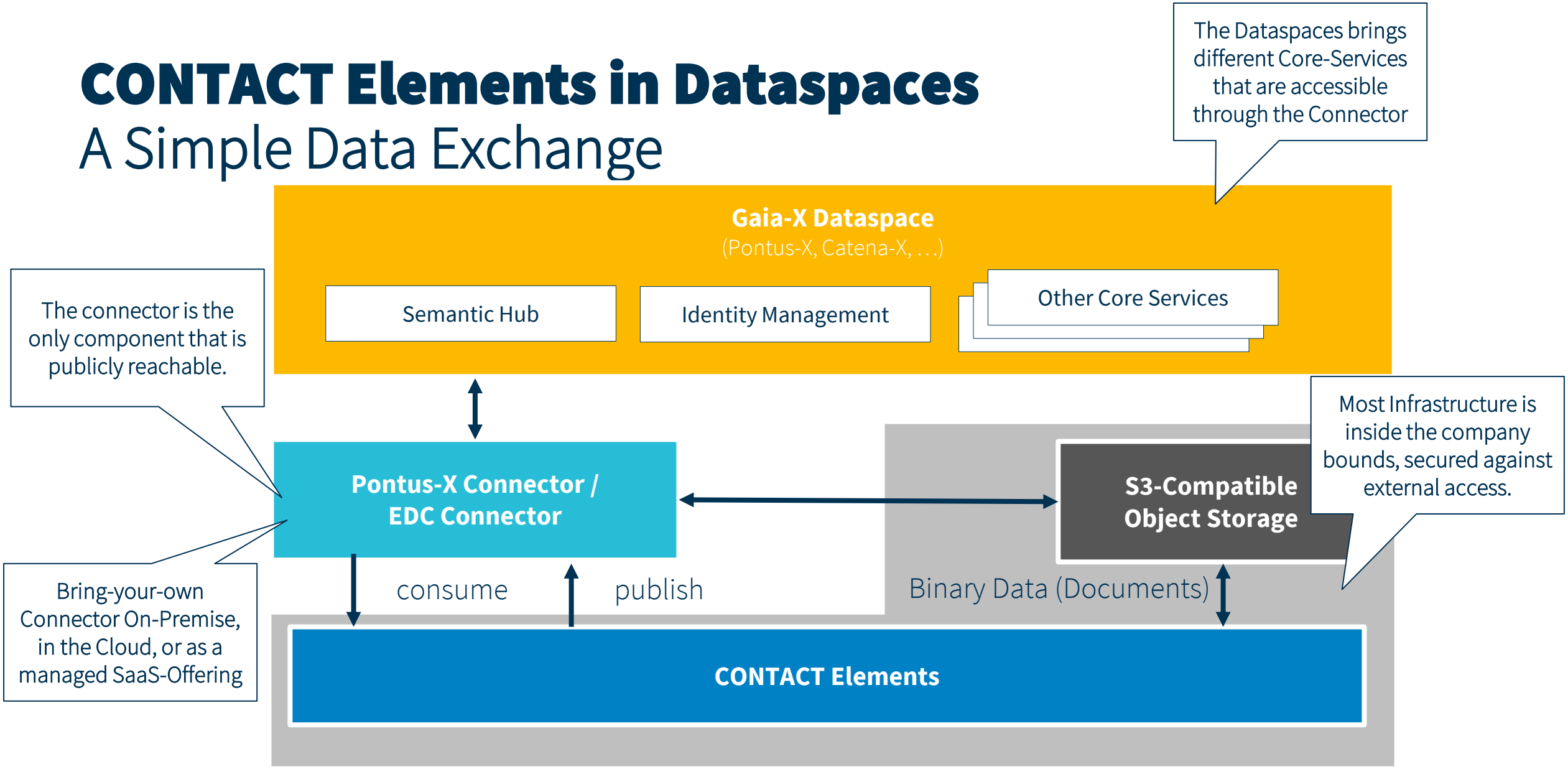
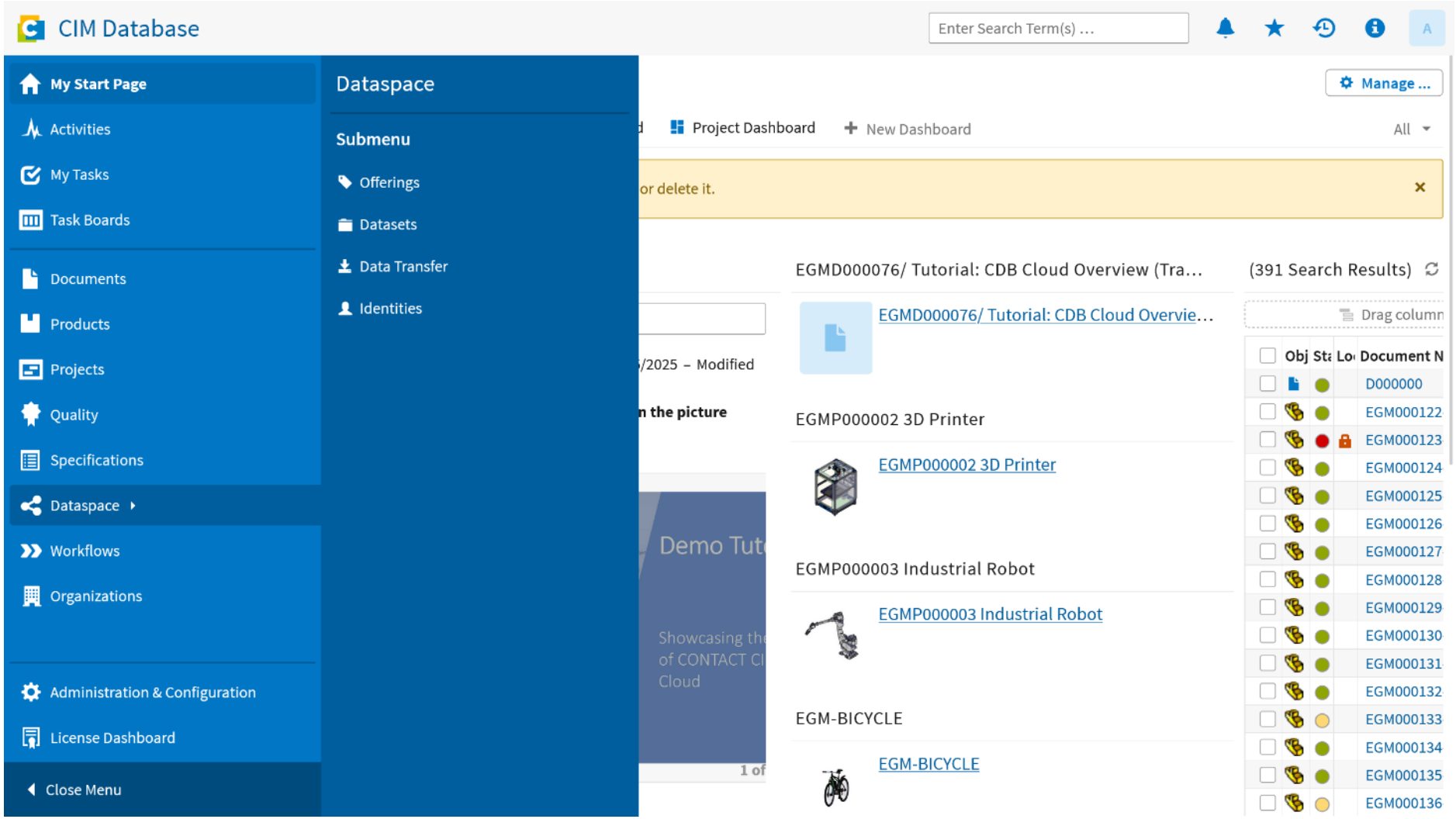
5. How to enable Trust

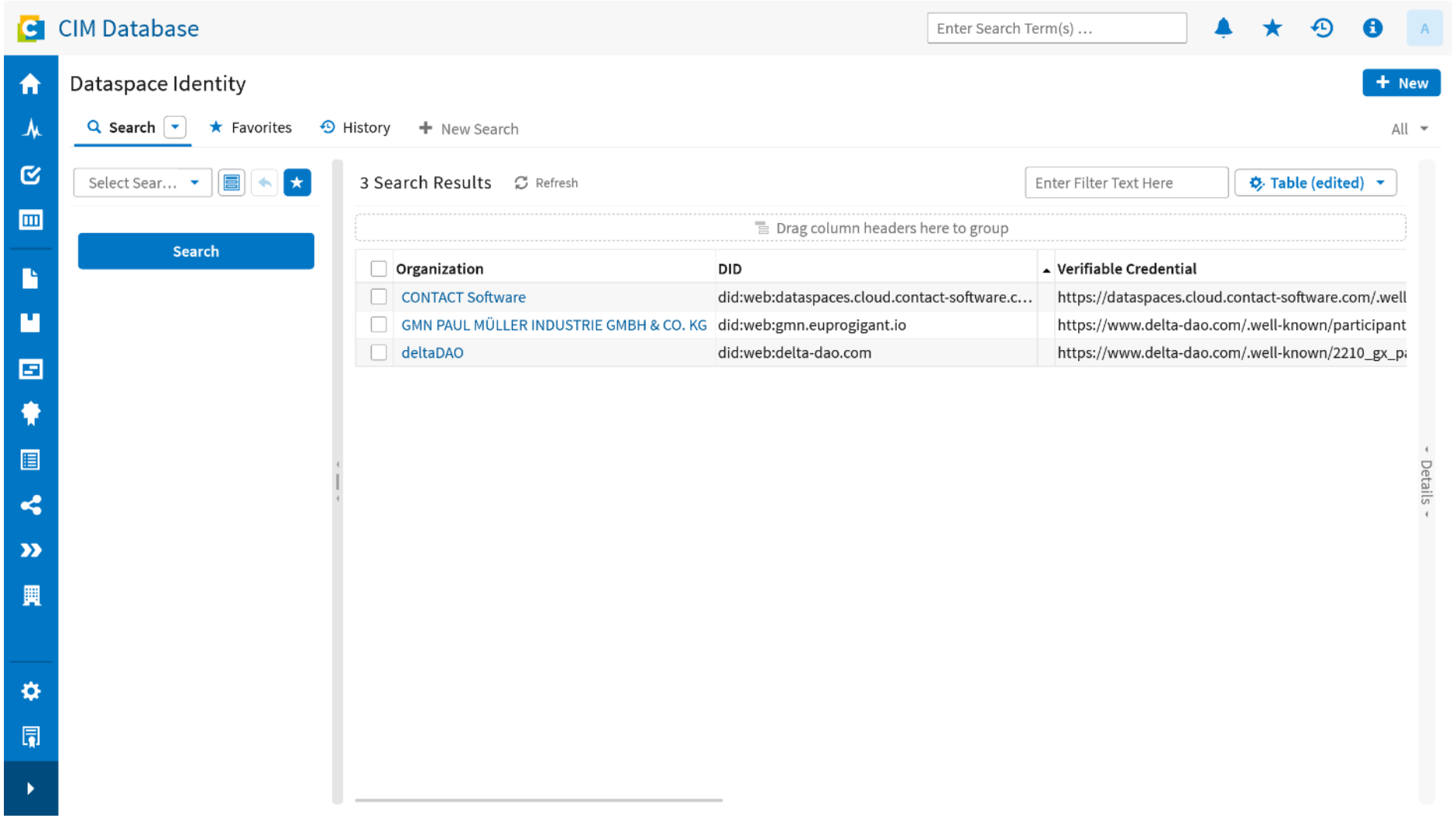
CONTACT Elements in Dataspaces
A Simple Data Exchange



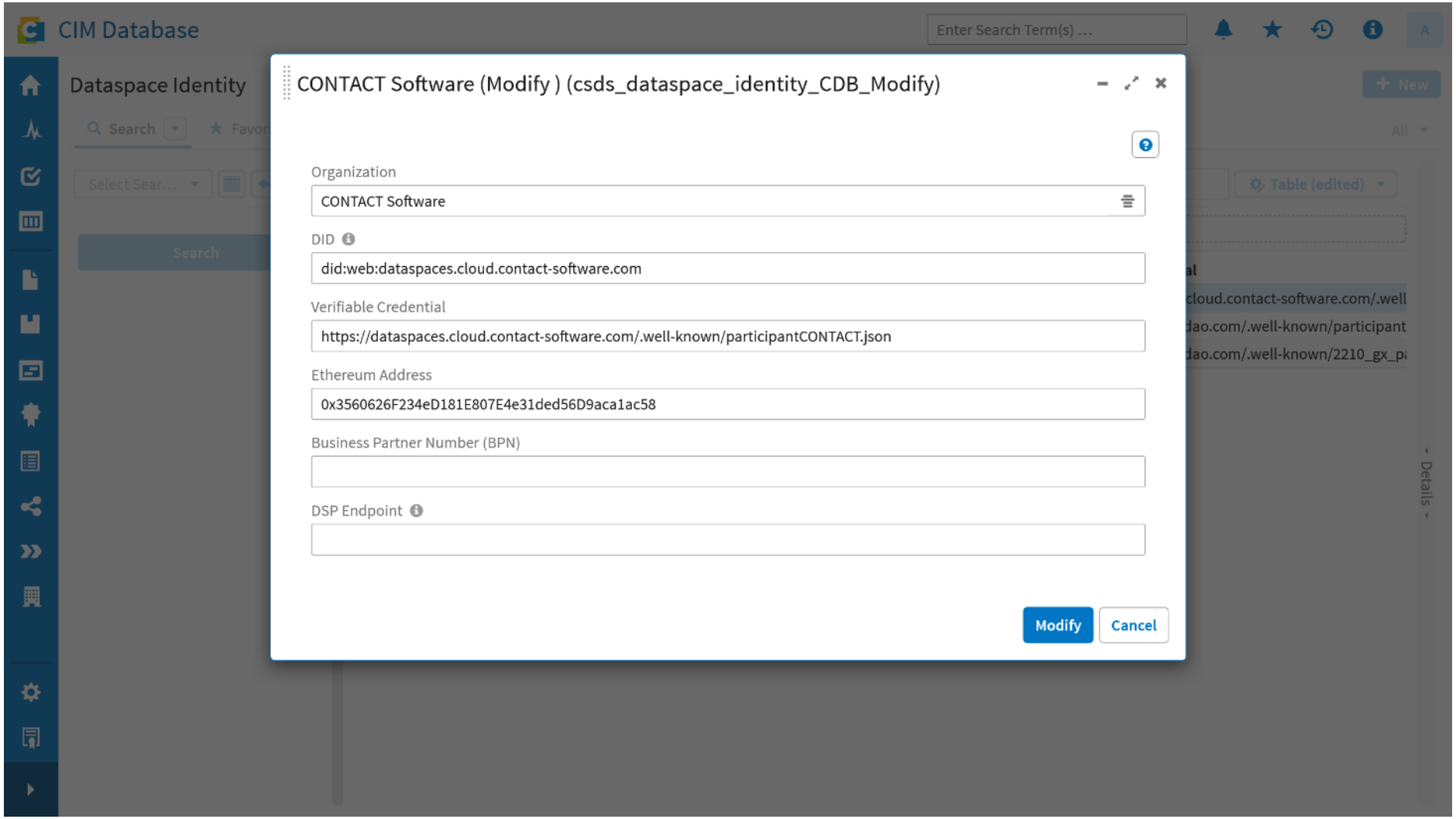
CONTACT Elements in Dataspaces



CONTACT Elements in Dataspaces



CONTACT Elements in Dataspaces



Agenda

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(Supplier / Manufacturer)

-simplified process view-

data management system

PLM

ERP

MES / MOM / IIoT

REST

Service Portal

processing

Design

Materials

BOM

Workplan

Resourcing

Order

Cutting

Moulding

Autoclave

LDS

EPD

Component

EPD

environmental impacts

Static Data

Dynamic Data

Sustainability Product Info

product

as-designed

as-ordered

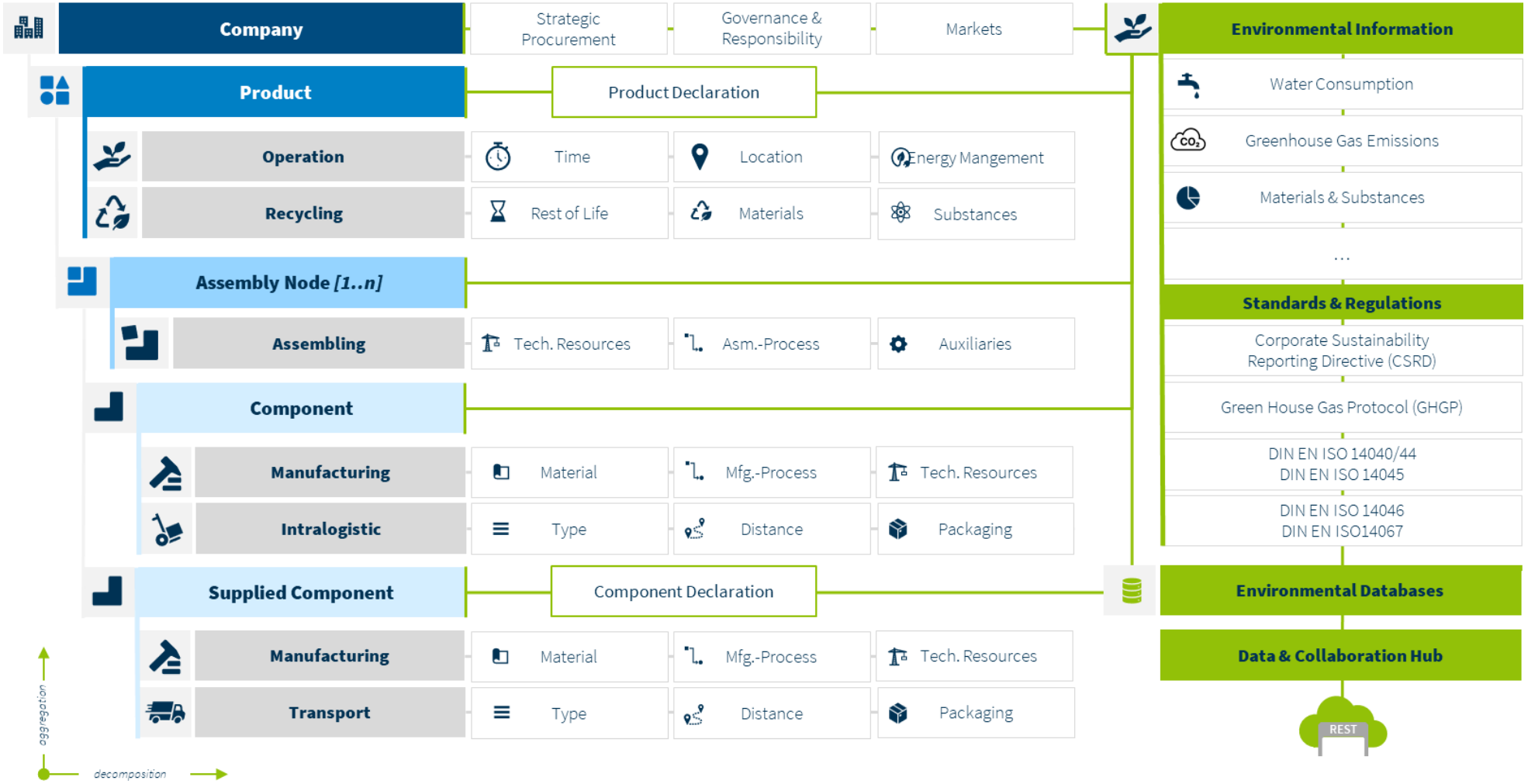
as-build

as-delivered/ as-maintained

internal

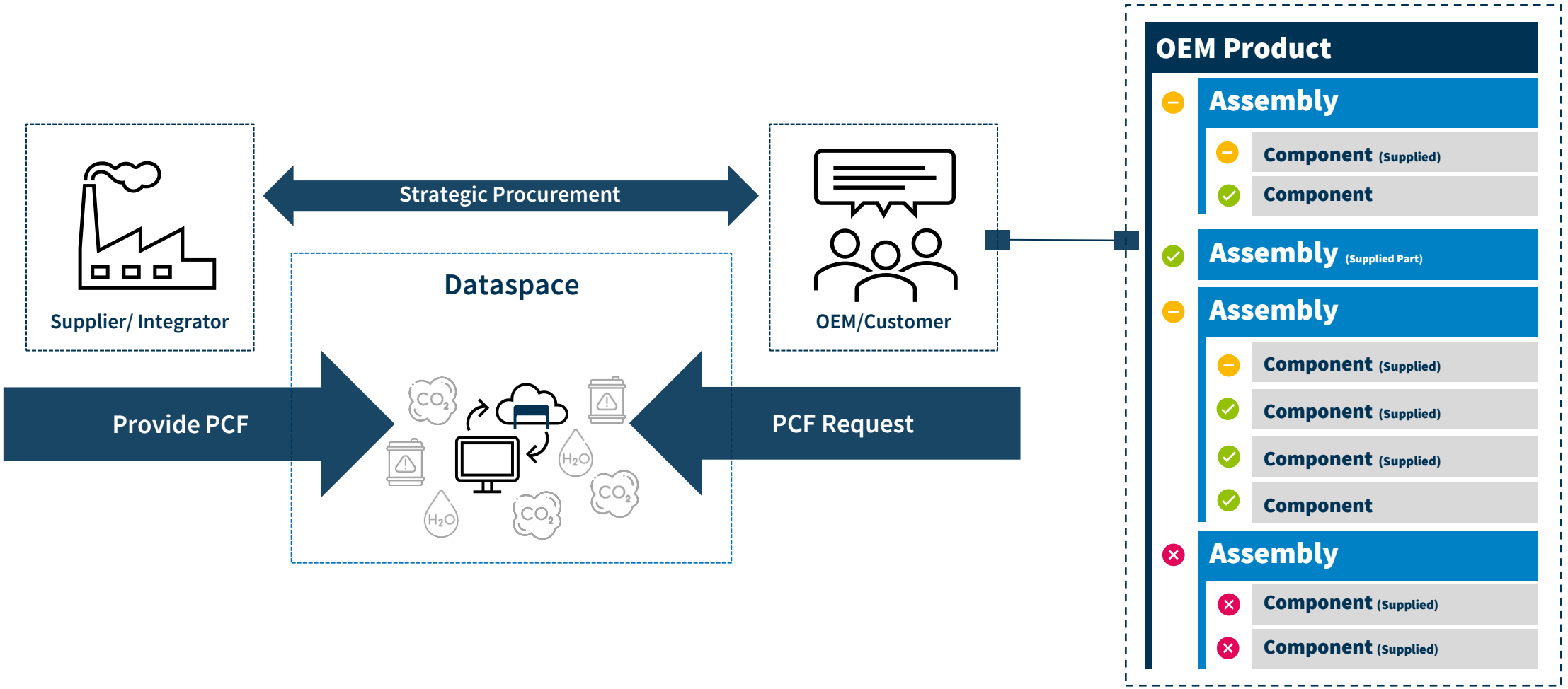
external

Environmental factors along the Product Structure



Calculation of product environmental performance

with PCF data support



Agenda

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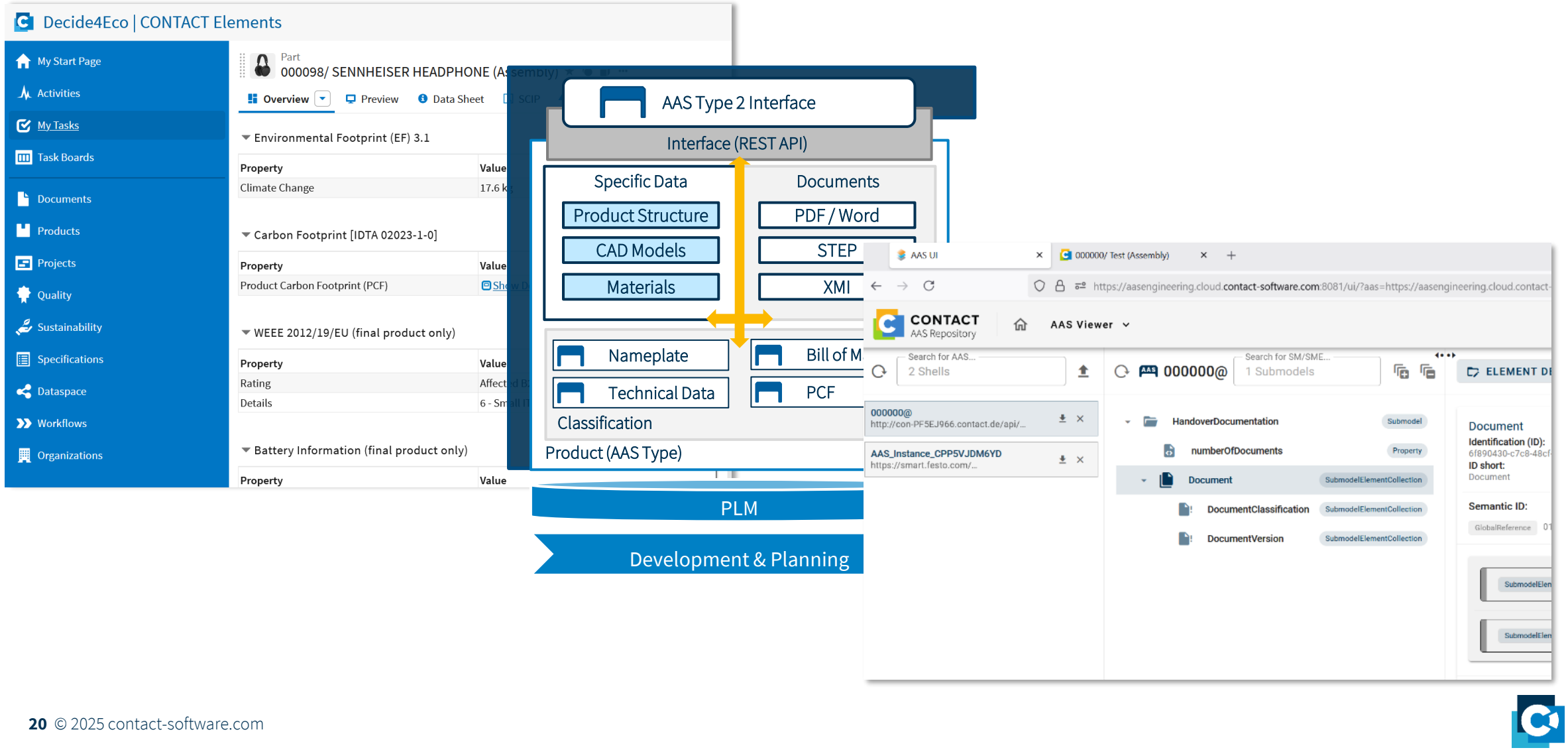
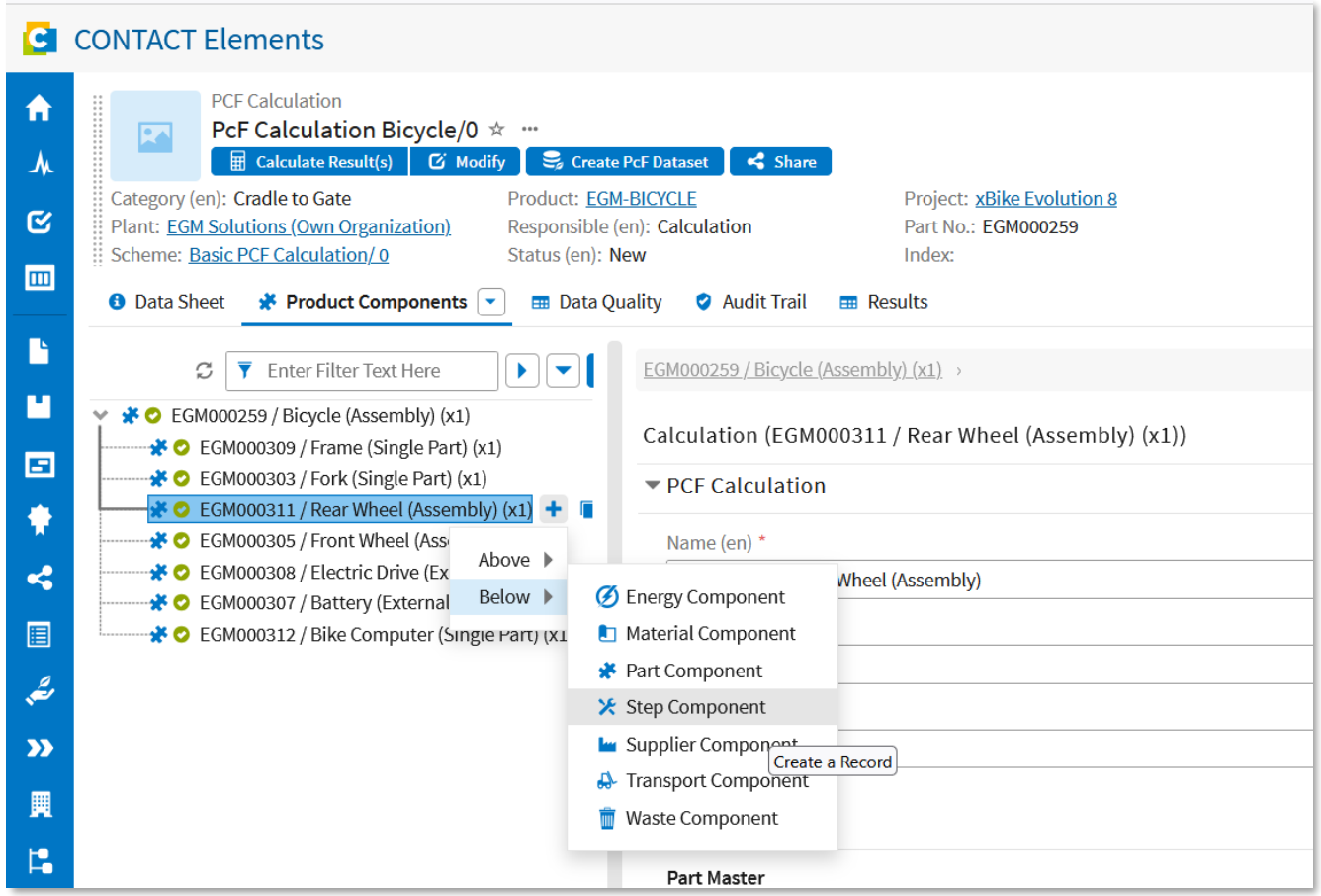
AAS in CDB and the Digital Twin Registry



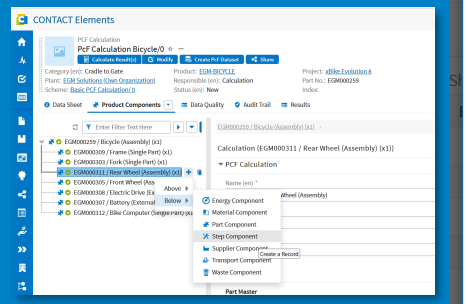
From PCF Calculation into Dataspace
Perform PCF-Calculation in CIM Database

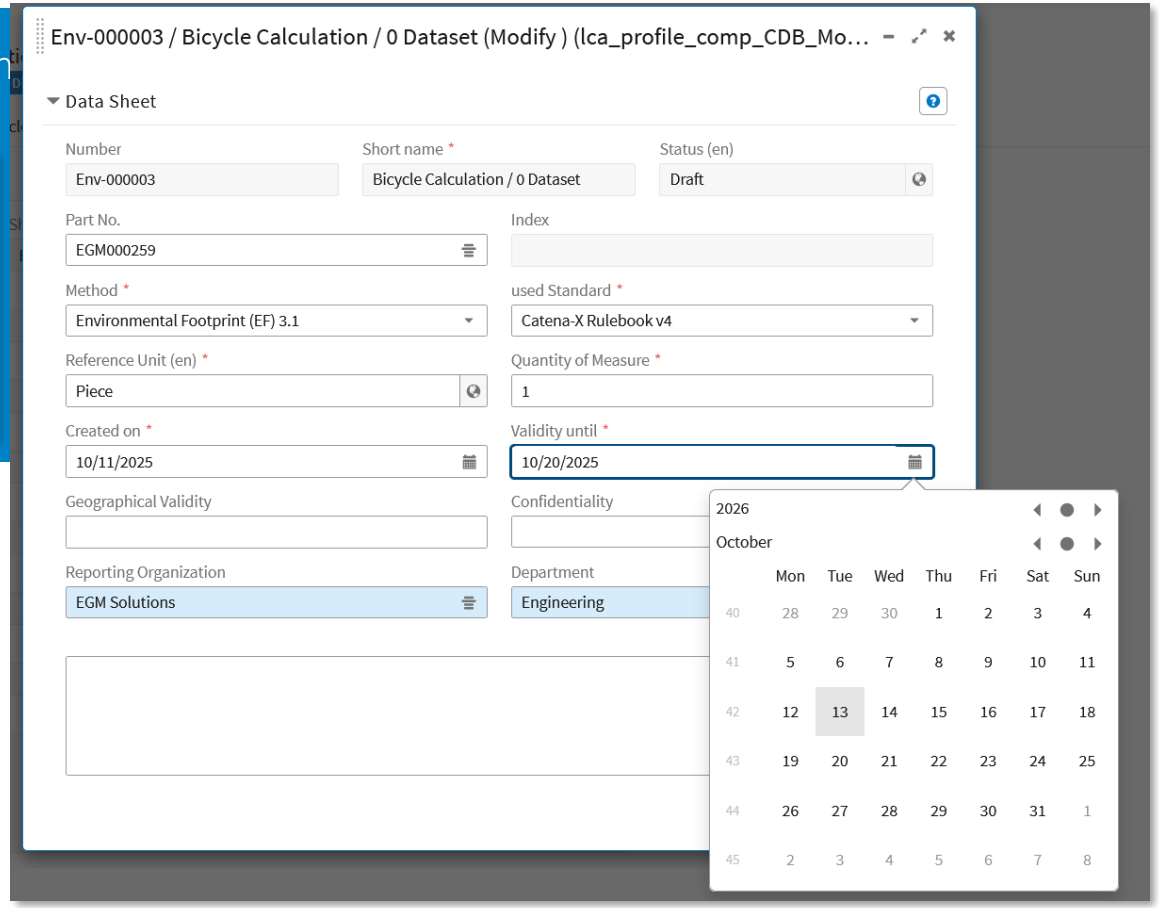


From PCF Calculation into Dataspace

Create PCF Dataset from result for administrative information

Perform PCF-Calculation in CIM Database

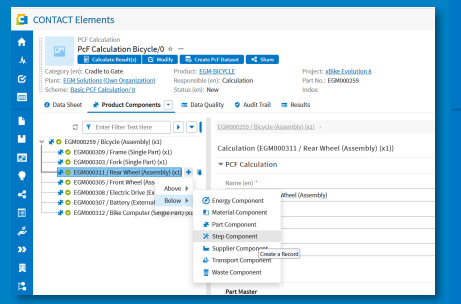


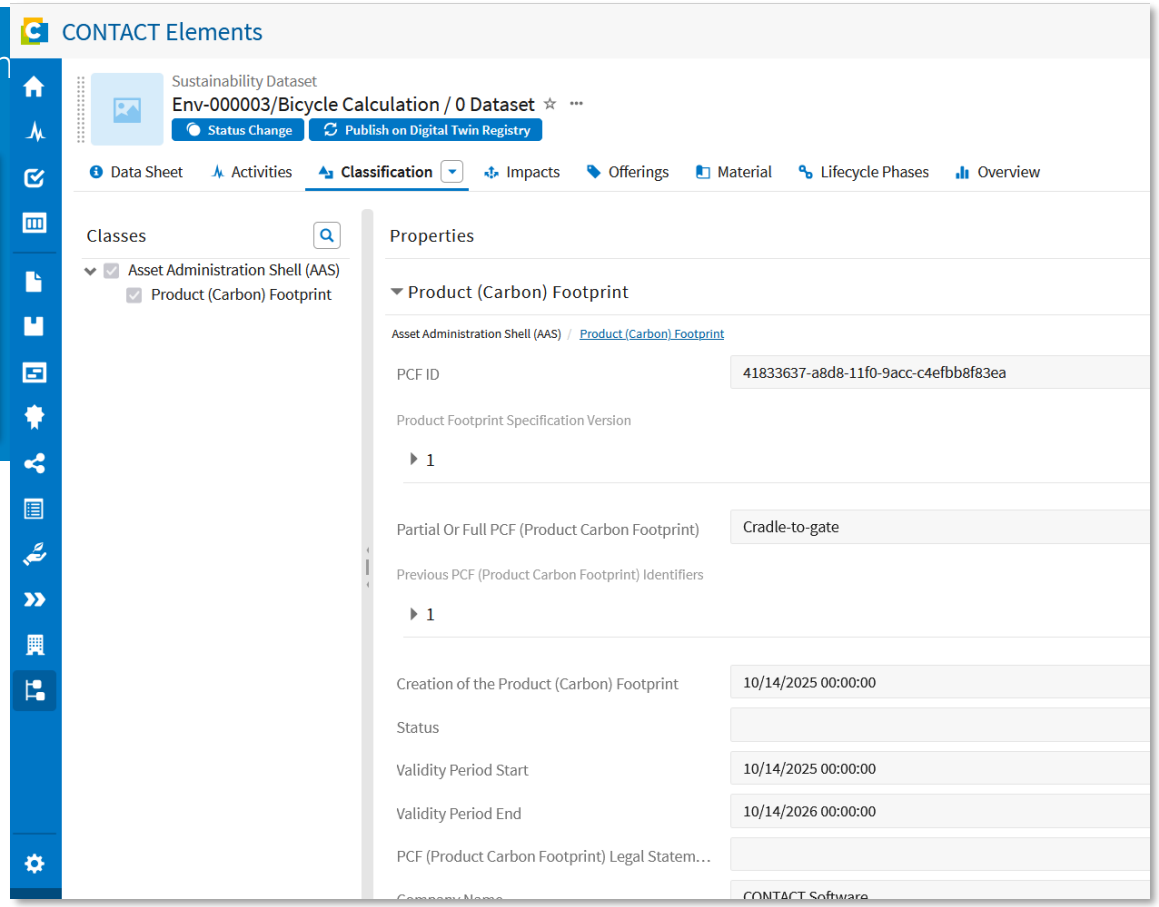


From PCF Calculation into Dataspace

Data becomes available as an AAS

Perform PCF-Calculation in CIM Database

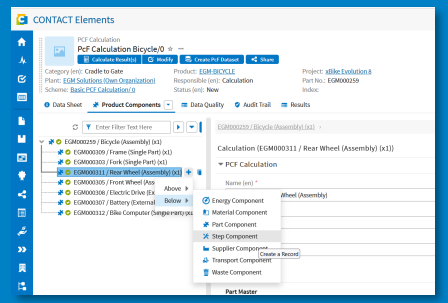




From PCF Calculation into Dataspace

Create data-offering with metadata and policies

Perform PCF-Calculation in CIM Database



EDC (New) (csds_edc_offering_CDB_Create)

Title

Env-000003/Bicycle Calculation / 0 Dataset

Description

Version

License

Author

Creator Name

EGM Solutions

Creator Homepage

http://www.egm-solutions.biz

Publisher Name

EGM Solutions

Publisher Homepage

http://www.egm-solutions.biz

Connector

Connector

Provider (Catena-X)

Access Policy *

expires-2025

Contract Policy *

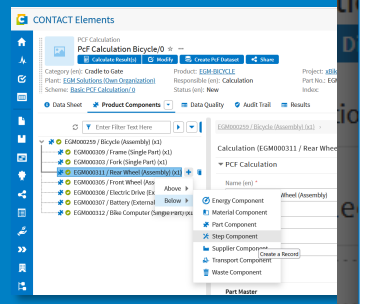
New

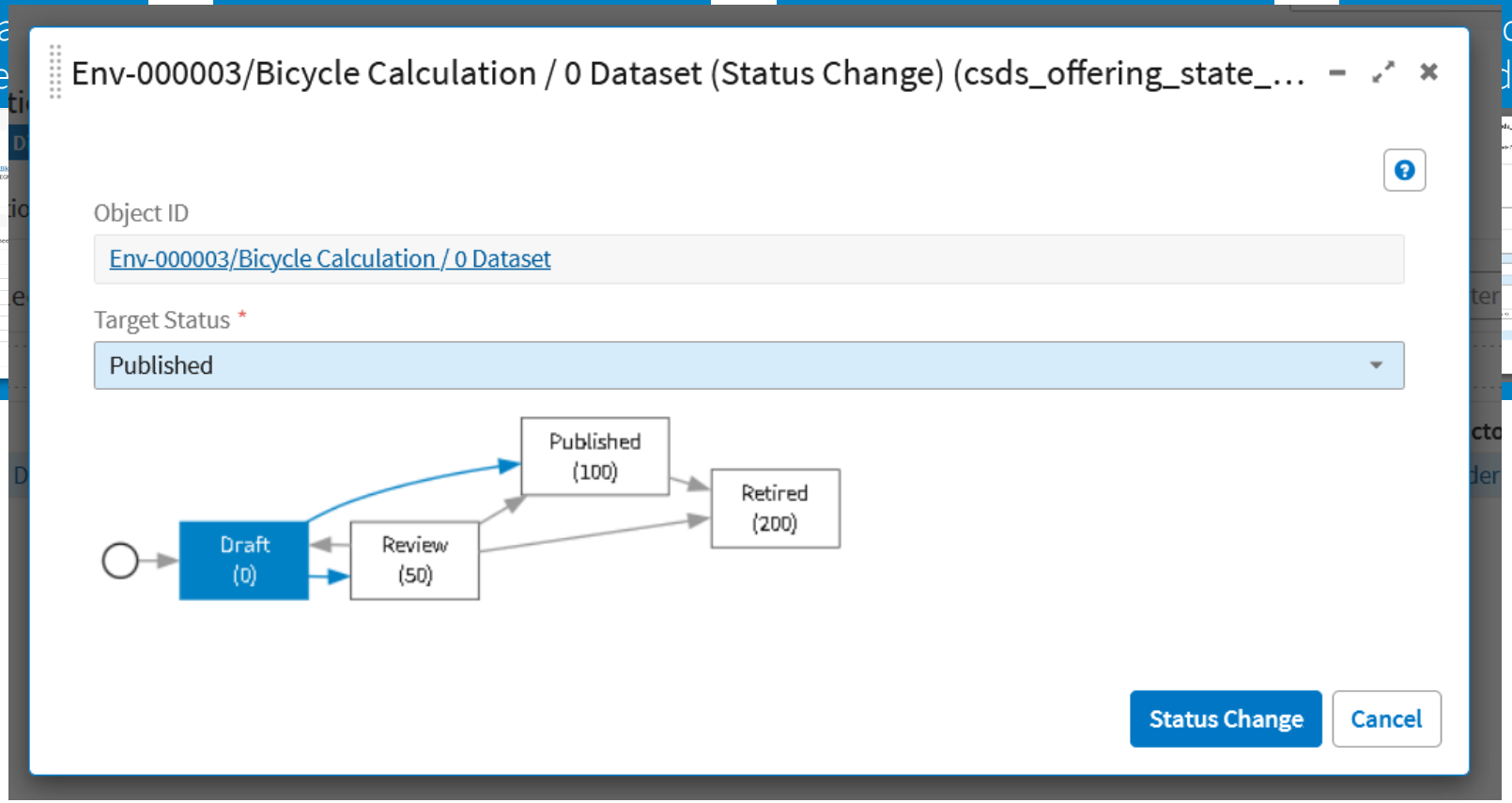
Cancel

From PCF Calculation into Dataspace

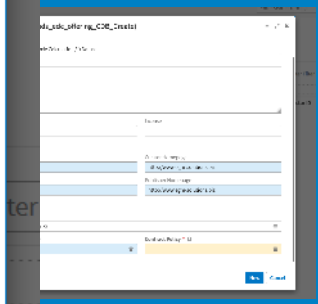
Make the offering available in the dataspace

Perform PCF-Calcula
CIM Database



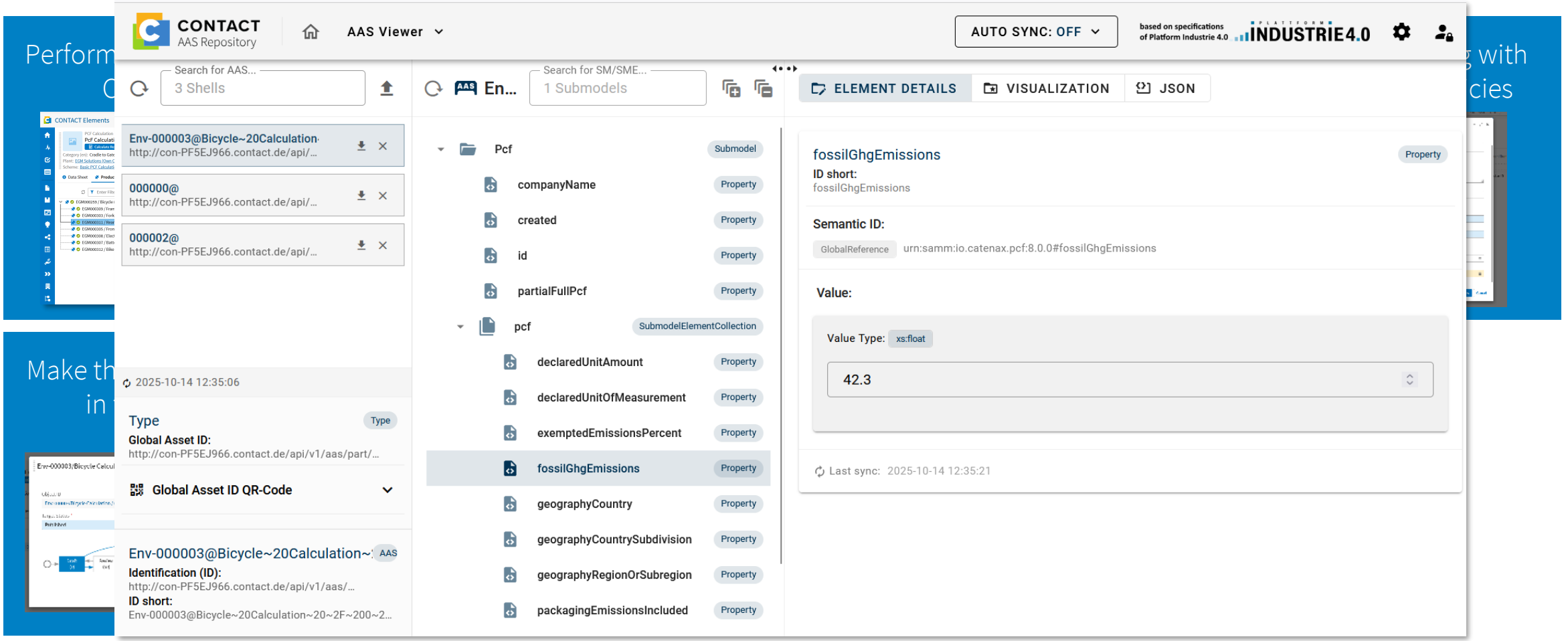


data-offering with
data and policies



From PCF Calculation into Dataspace

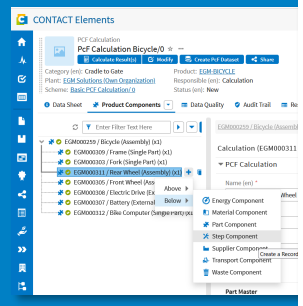
Data is synced to your digital twin registry



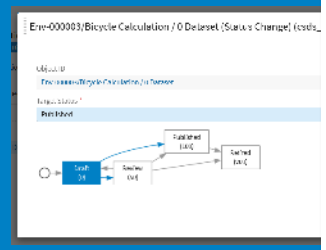
From PCF Calculation into Dataspace

The dataset becomes available through the EDC

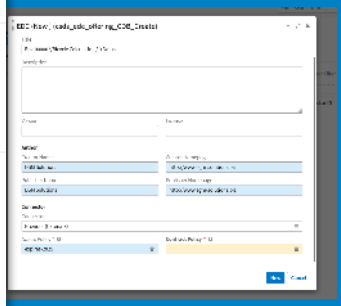
Perform PCF-Calcu… CIM Databa…

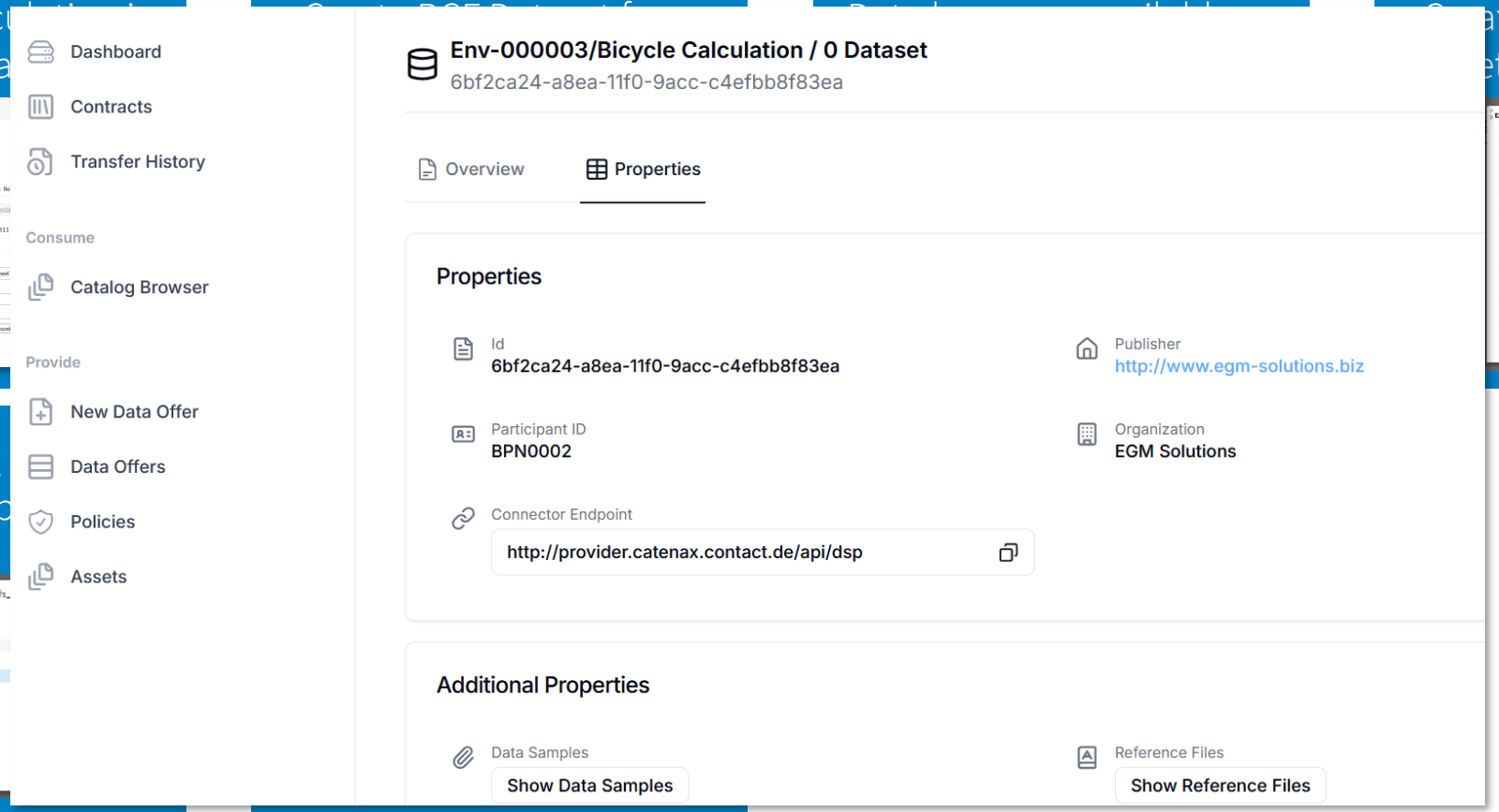


Make the offering … in the datasp…



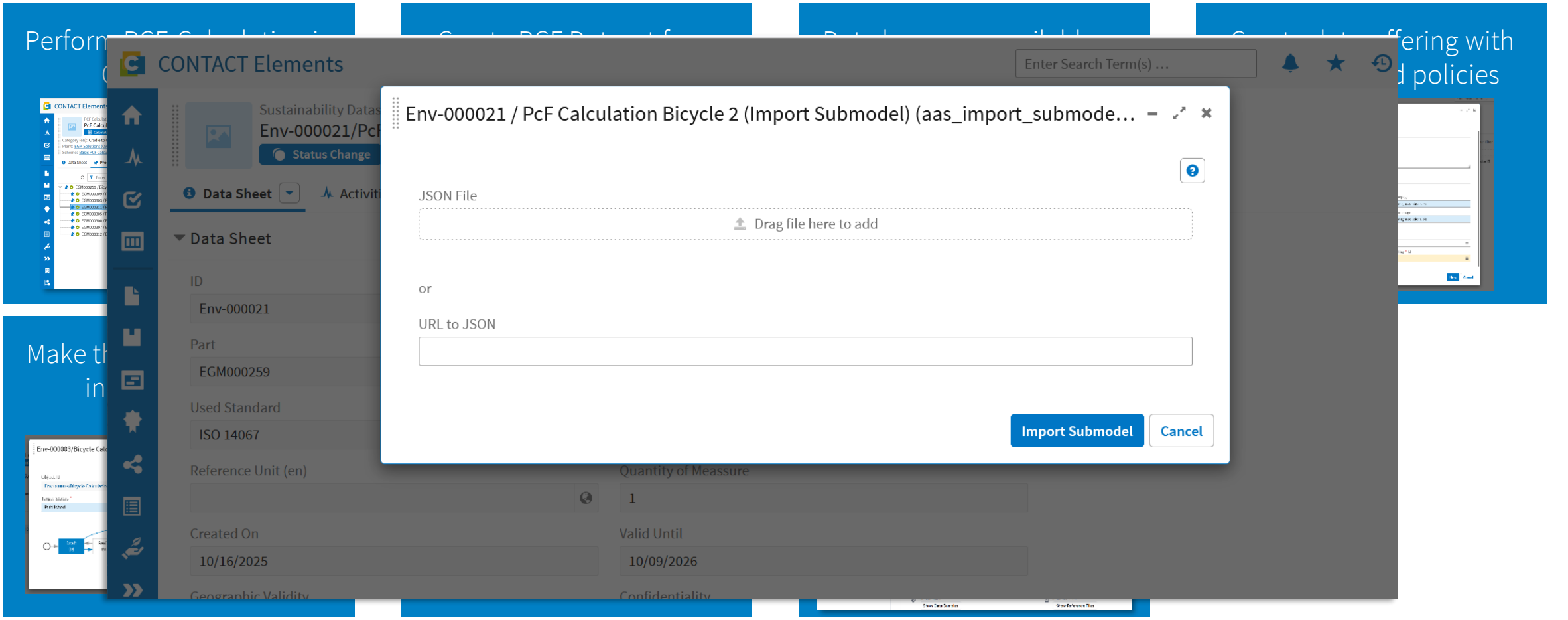
Create data-offering with …etadata and policies





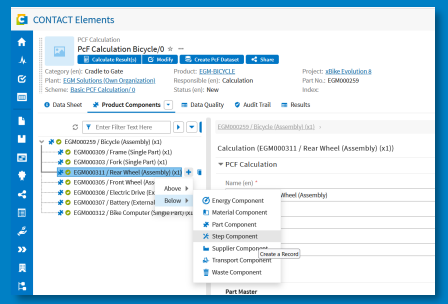
From PCF Calculation into Dataspace

Supplier data can be imported through the EDC as AAS

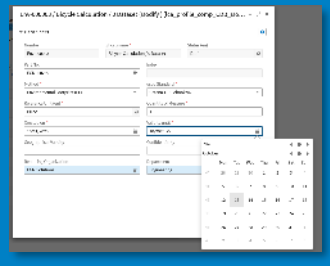


From PCF Calculation into Dataspace

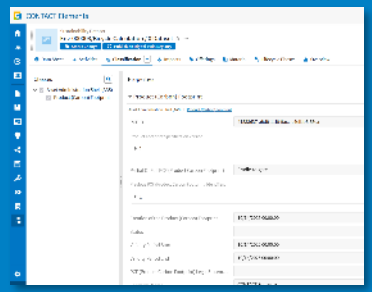
Perform PCF-Calculation in CIM Database



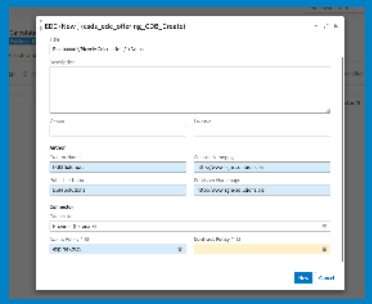
Create PCF Dataset from result for administrative information



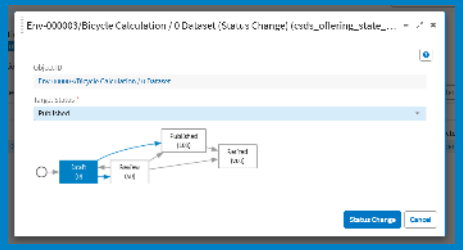
Data becomes available as an AAS



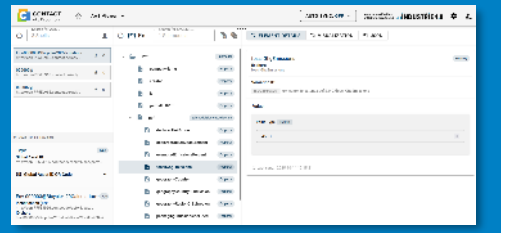
Create data-offering with metadata and policies



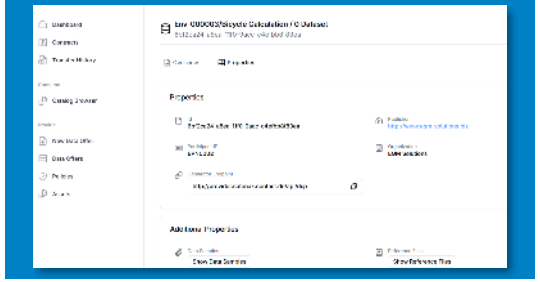
Make the offering available in the dataspace



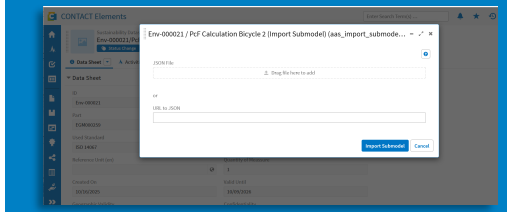
Data is synced to your digital twin registry



The dataset becomes available through the EDC



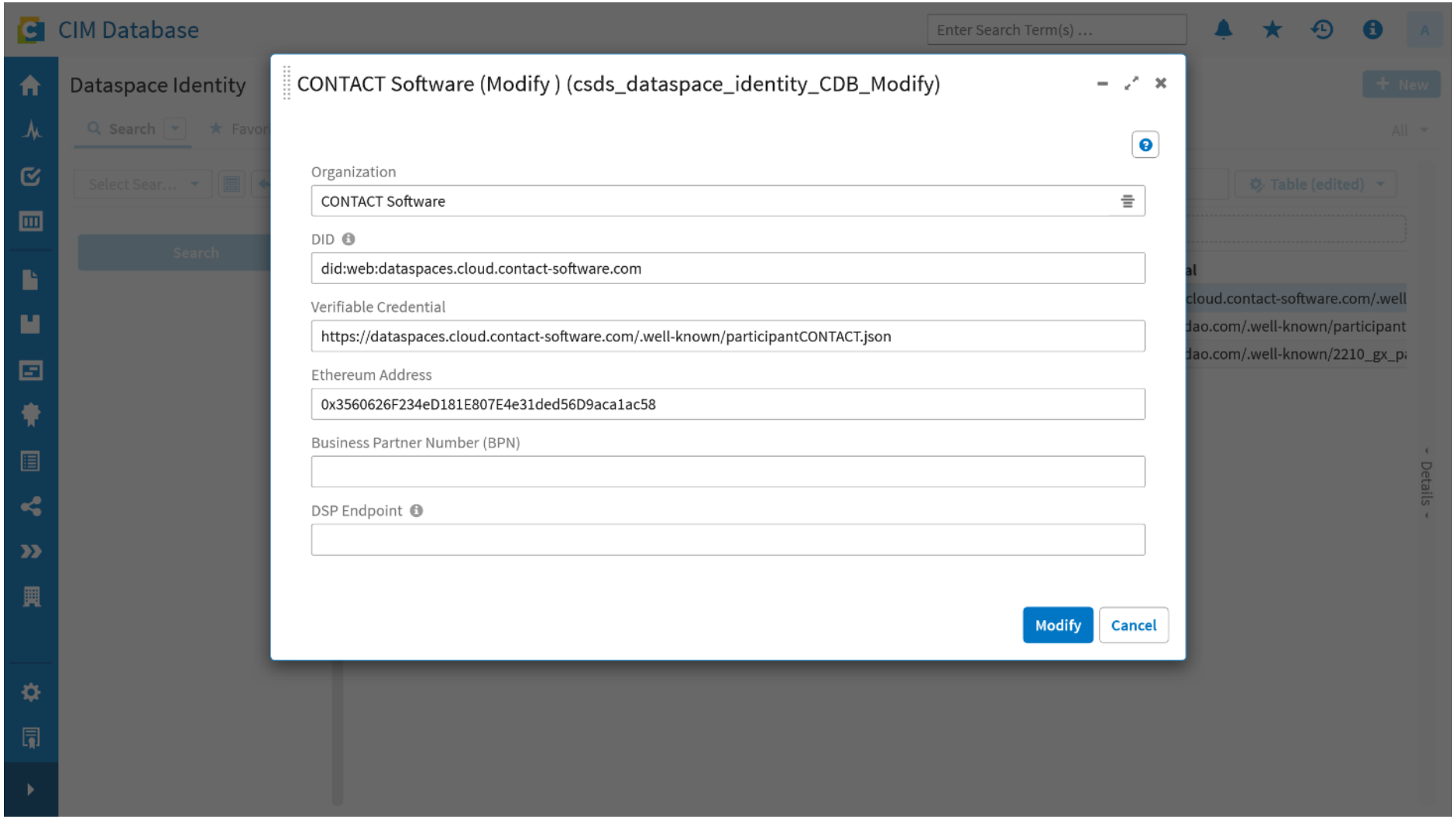
Supplier data can be imported through the EDC or as AAS



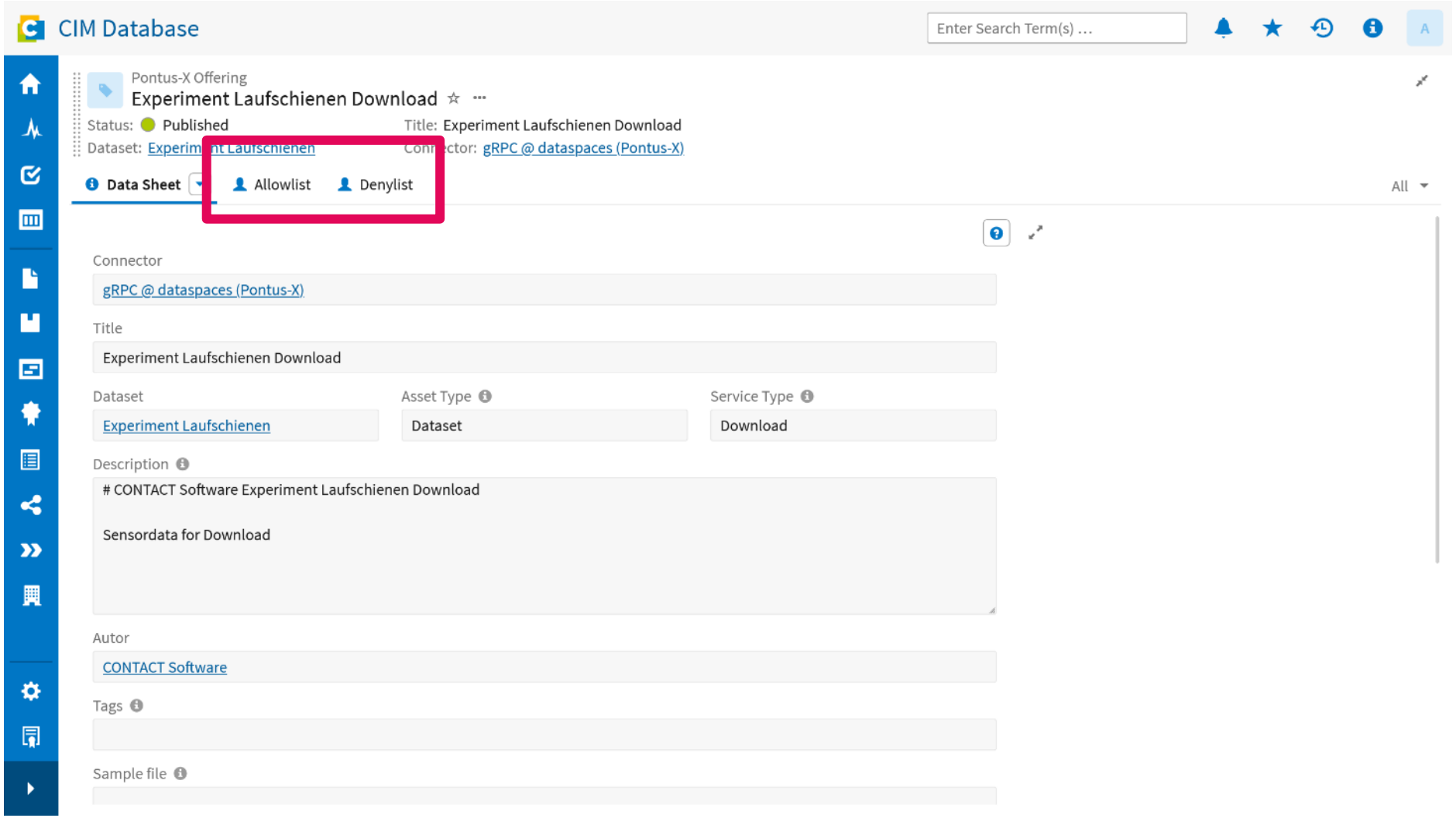
Agenda

1. CONTACT Software: Who we are
2. Dataspaces Integration
3. Use Case: Product Carbon Footprints
4. The Internal Process
5. How to enable Trust

How to enable external Trust



How to enable external Trust



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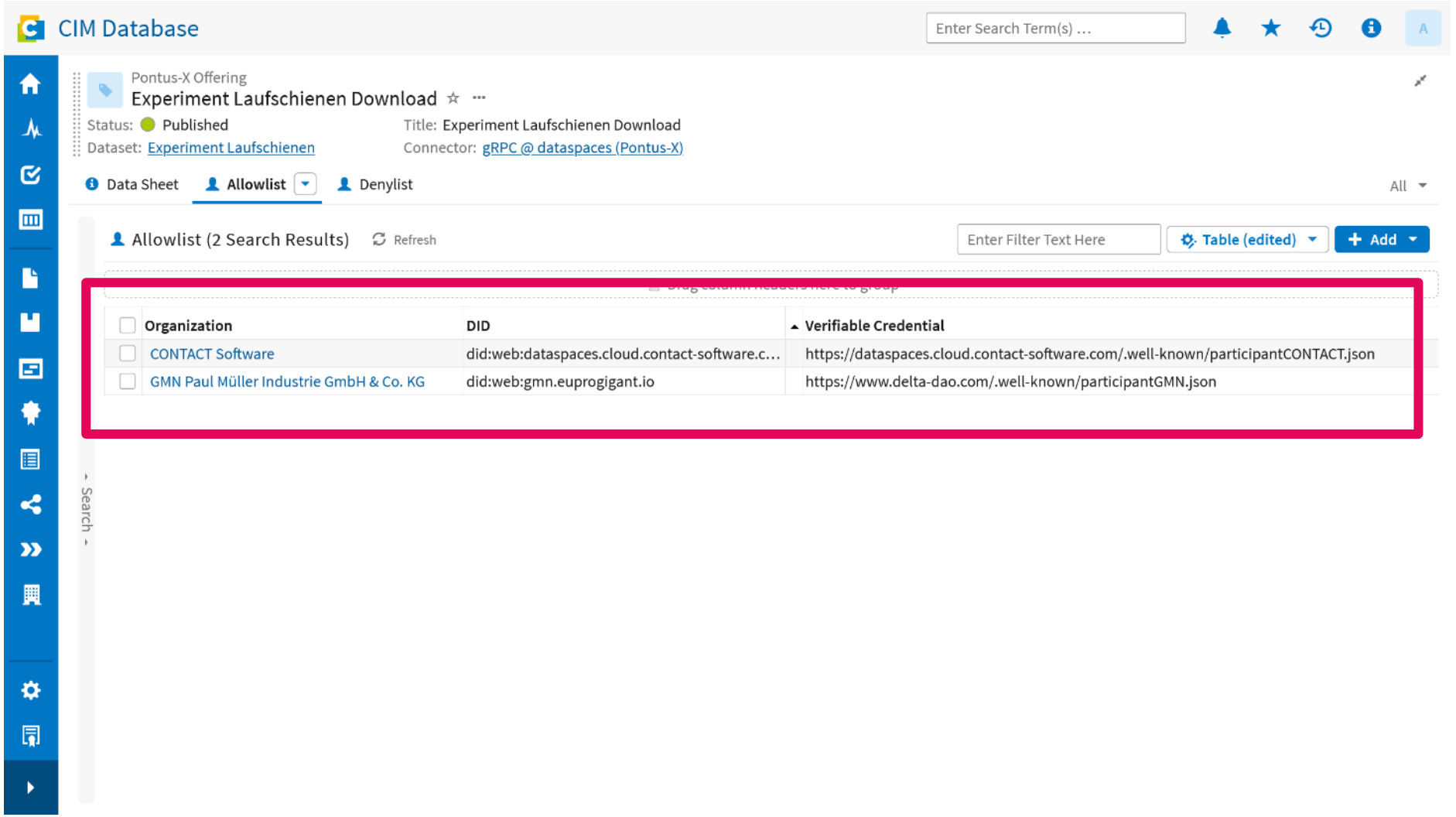
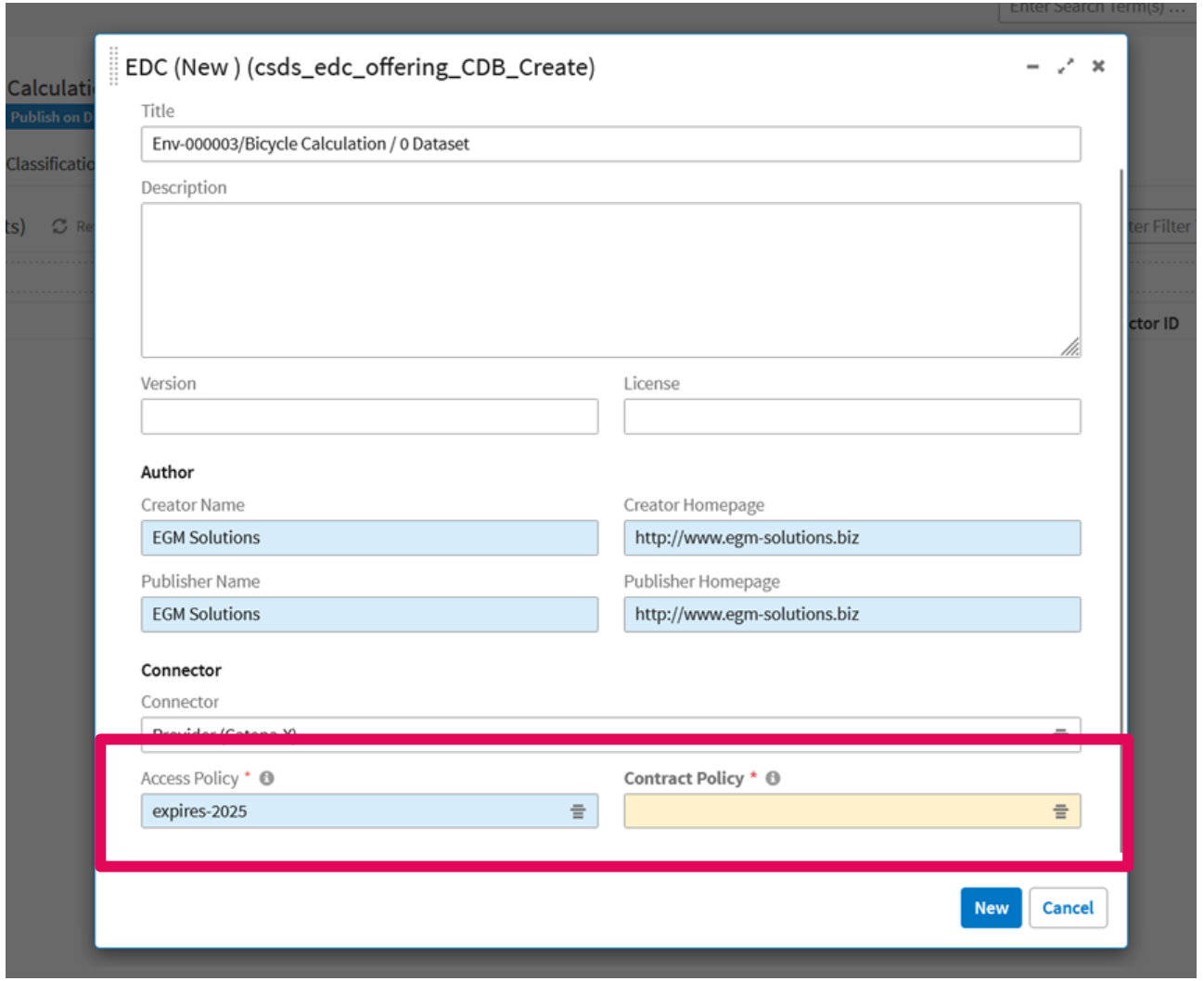
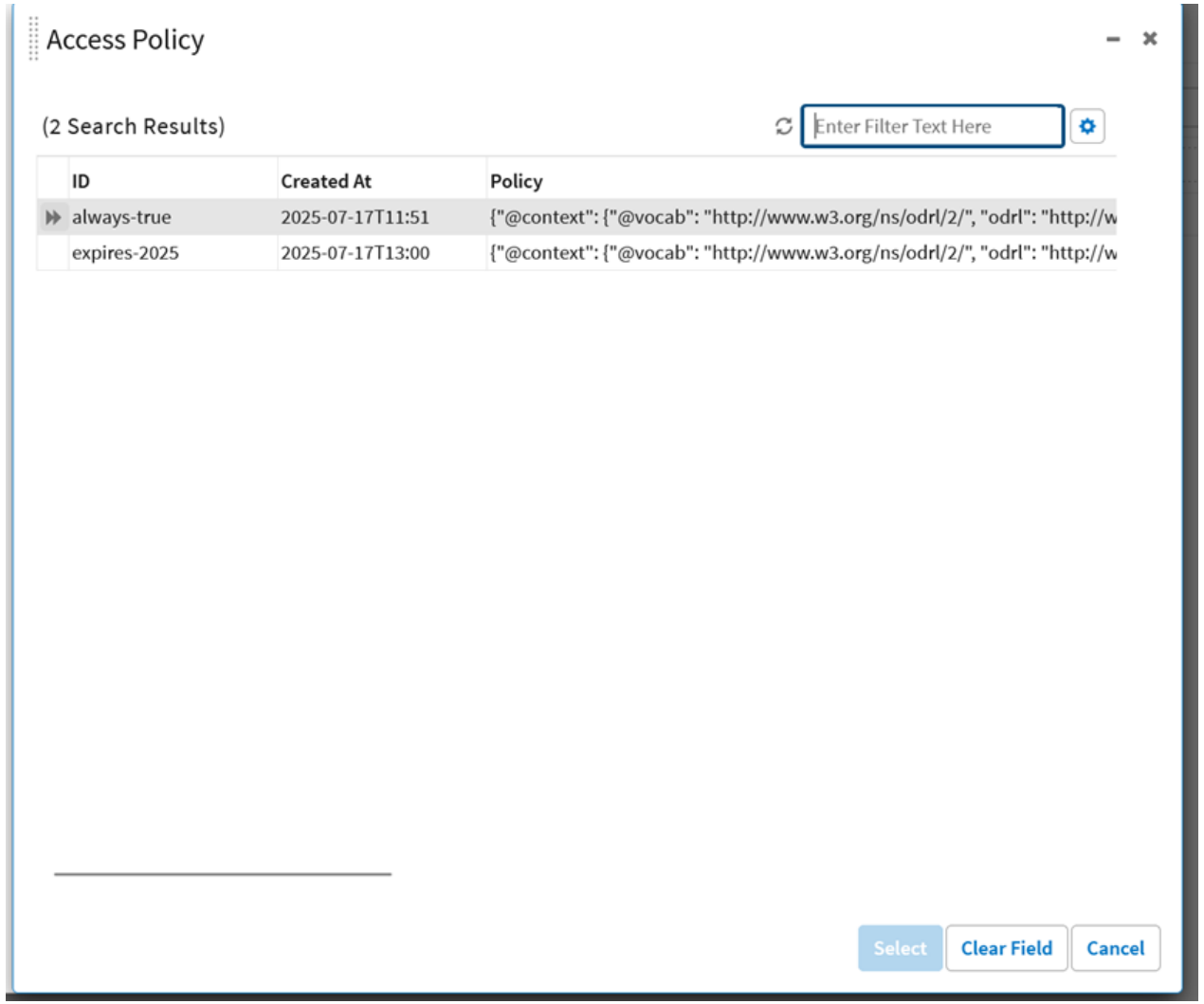


How to enable external Trust



How to enable external Trust

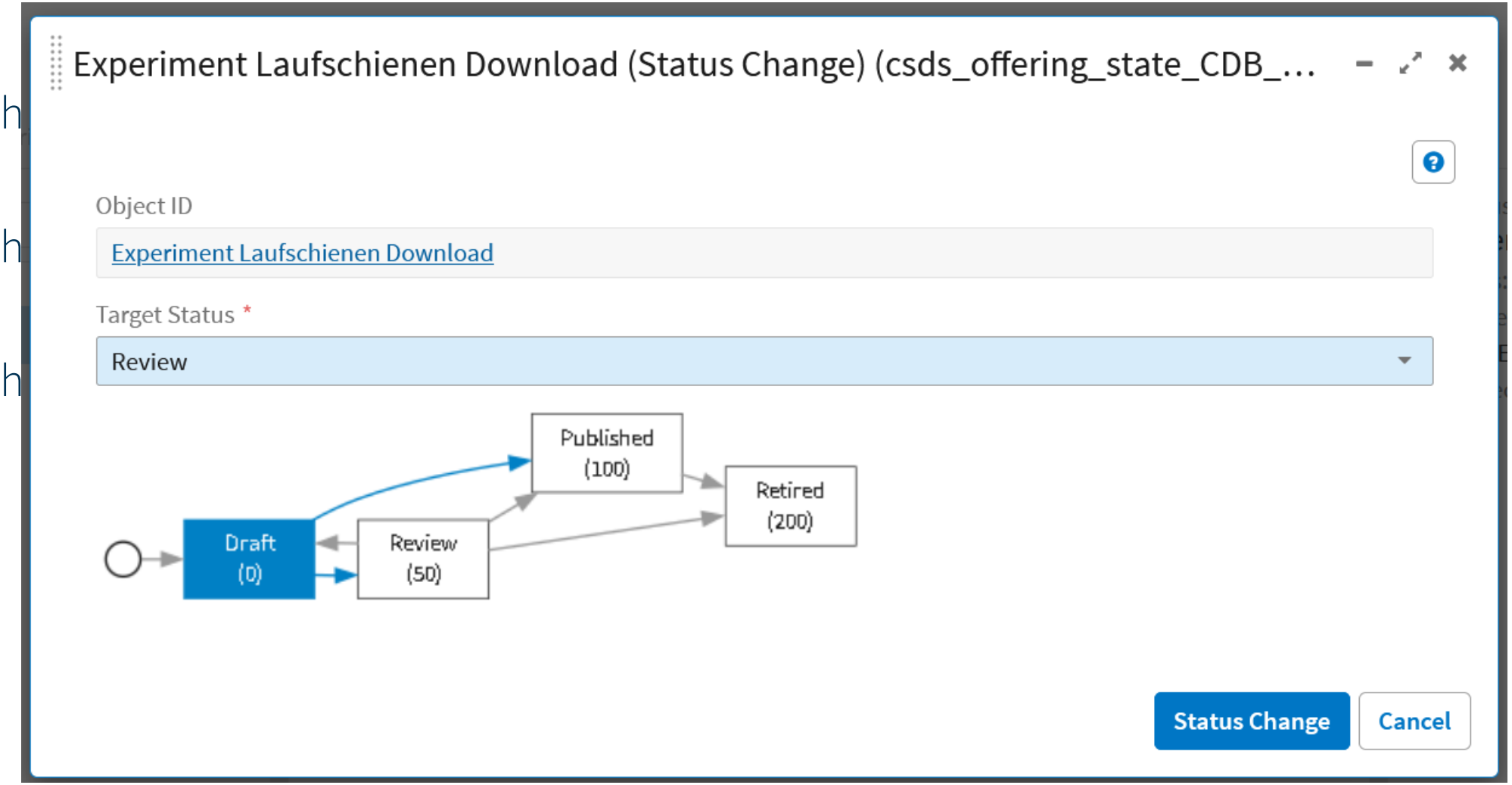


How to enable internal Trust

- Who is allowed to manage Identities?
- Who is allowed to create Offerings?
- Who is allowed to publish Offerings?

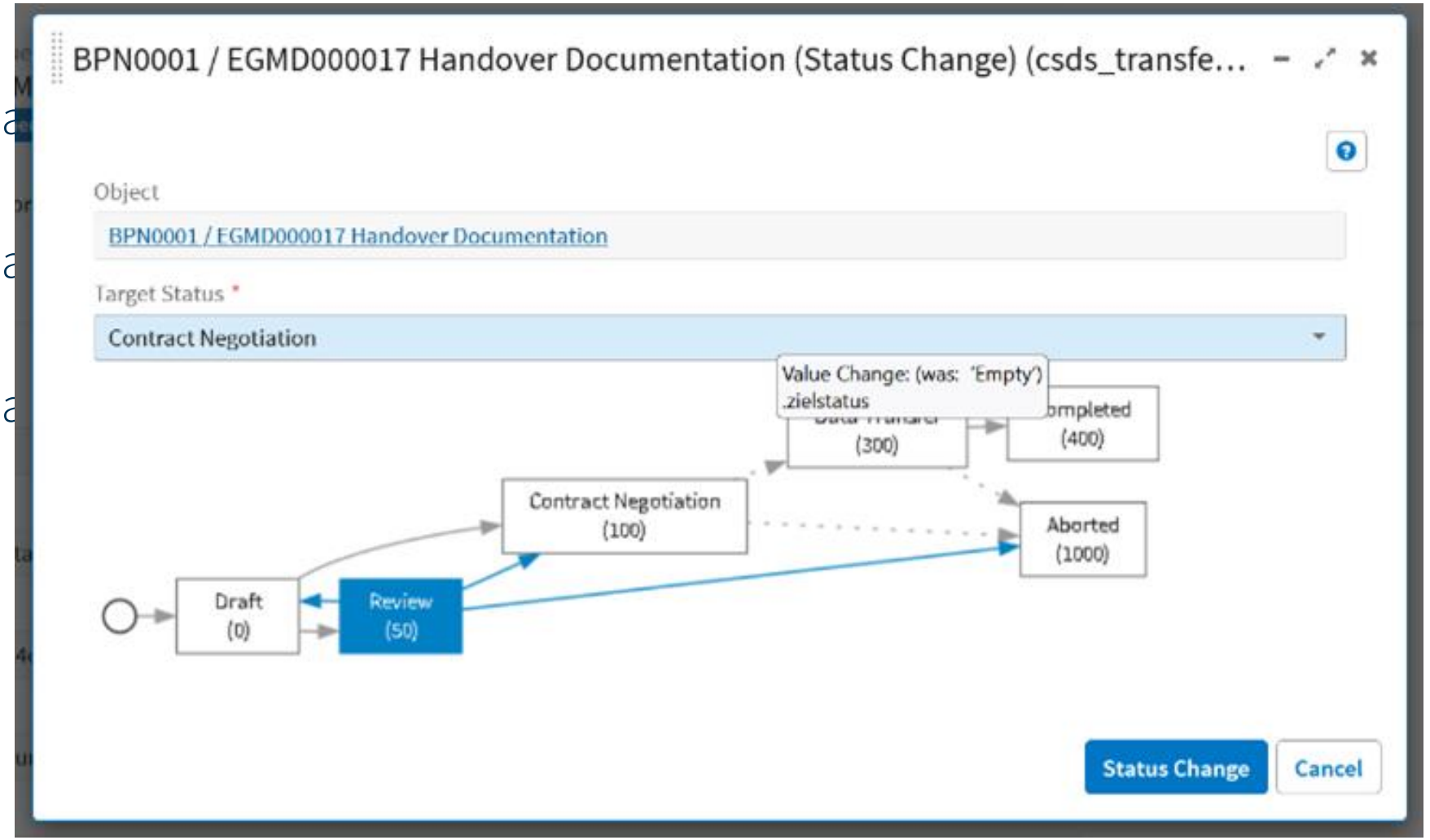
How to enable internal Trust

- Wh
- Wh
- Wh



How to enable internal Trust

- Who is a
- Who is a
- Who is a



Key Messages

Contact

Yannick Meinberg

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Yannick.Meinberg@contact-software.com
www.contact-software.com

energizing great minds

MYRTUS & Gaia-X: Shaping a Trusted and Interoperable Digital Continuum

Giulia Biagioni, Coen Leeuwen & Bart Driessen



CoE DSC

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MYRTUS Overview

Financed by: Horizon Europe (Grant No. 101135183),

Topic: HORIZON-CL4-2023-DATA-01-04 – Cognitive Computing Continuum

Duration: 1 January 2024 – 31 December 2026

Creates a solution to orchestrate the cloud–fog–edge continuum – in a **sustainable** and **secure** way

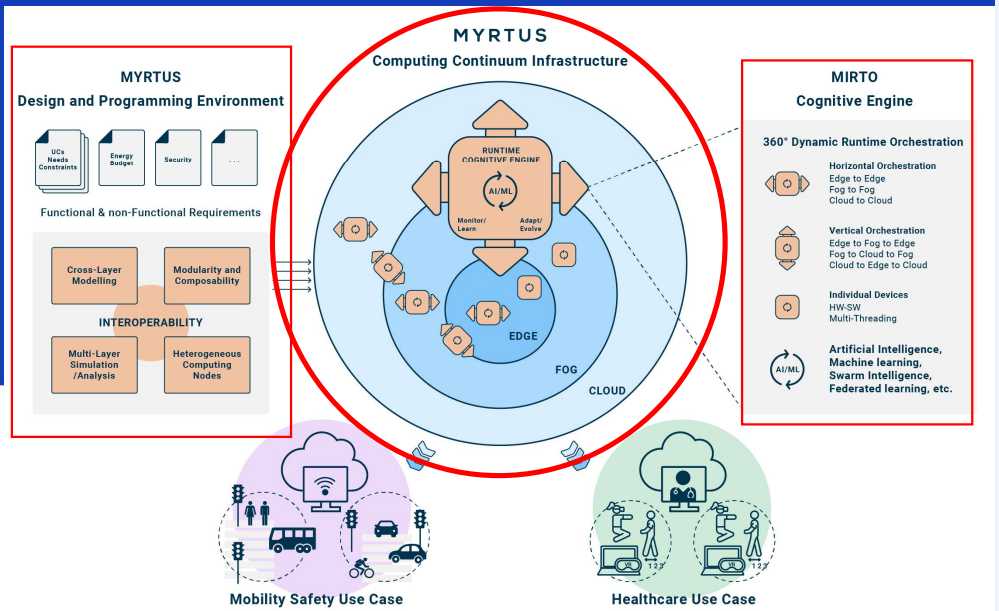
Uses the Gaia-X Trust Framework to:

- ensure **trusted and transparent service interactions**
- support **secure and sovereign** data handling

Myrtus Partners

Università degli Studi di Cagliari
UNISS Università degli Studi di Sassari
King's College London
Technische Universität Dresden
Politécnica – Universidad Politécnica de Madrid
Lakeside Labs
Università della Svizzera italiana
TNO innovation for life
Canon Canon Research Centre France S.A.S.
abinsula
SOFTEAM Une marque de Docaposte
Reply Forge
hiro
aruba.it Kube

The Three Pillars of MYRTUS



1. Reference Infrastructure

A unified cloud–fog–edge continuum supporting scalable, low-latency, and heterogeneous cyber-physical systems.

2. MIRTO Cognitive Engine

An AI-driven engine enabling dynamic orchestration, optimization, and autonomous decision-making across the continuum.

3. Design & Programming Environment (DPE)

Tools and methods for modelling, analysis, code generation, and interoperability across distributed systems.

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Myrtus Ecosystem: Expanding and Managing New Entities

MYRTUS creates an ecosystem of entities that collaborate and operate together through an **AI-driven orchestration across the cloud–fog–edge continuum**

This raises an important question: **What happens when a new entity wants to join the ecosystem?**

Key challenges we explored:

1- Can this onboarding process be automated?

2- Can we continuously verify the conditions required for trust, security, and interoperability?

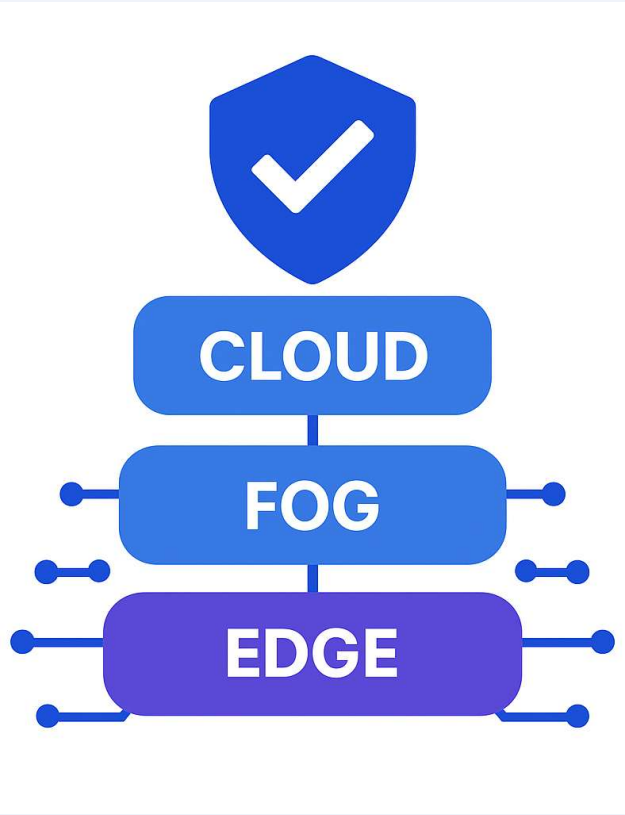
3- Can the system ensure compliance dynamically, as entities evolve over time?

The Gaia-X Trust Framework

We found the solution in the **Gaia-X Trust Framework**, which provides a structured way to manage trust in dynamic ecosystems.

The design principles of Gaia-X give MYRTUS a foundation to automate:

- **entity onboarding**
- **continuous verification** within the cloud–fog–edge continuum



Myrtus uses **GAIA-X Verifiable Presentations** embedding **Verifiable Credentials** to verify entities and automatically check whether they meet specific constraints required to join the Myrtus ecosystem.

How Myrtus Verifies a Verifiable Presentation

Step	Description
Retrieve	The system uses the Kubernetes configuration file of the entity aiming to join the Myrtus cluster to establish a connection and retrieve a secret containing the Gaia-X Verifiable Presentation (JWT).
Verify	Verify authenticity using the issuer's did:web public key.
Check	Check temporal validity (not expired).
Validate	The system validates the embedded Verifiable Credentials (VCs) against Myrtus-defined constraints represented as SHACL shapes to confirm Gaia-X compliance and ensure alignment with EU digital sovereignty requirements.
Return	Return a transparent verification report with decoded header, payload, and validation results.
Peer	If all verification steps succeed, the system initiates peering of the Kubernetes cluster via Liqo, enabling the entity to join the Myrtus ecosystem.

Myrtus PoC Rules

Purpose:

To validate that entities represented in Gaia-X Verifiable Presentations comply with **jurisdictional** and **organizational** constraints required to join the Myrtus ecosystem. The constraints focus on verifying the entity's **EU/EEA jurisdiction**.

The Shapes Verify:

- The **legal entity** is registered in an **EU Member State** (based on headquarters and legal address country codes).
- The entity holds a **valid LEI code:** a 20-character uppercase alphanumeric identifier (ISO 17442).
- The entity has **accepted the Gaia-X Terms and Conditions.**

Entities meeting all constraints are eligible to join the Myrtus ecosystem.

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Our framework leverages **Gaia-X Verifiable Presentations (VPs)** as the basis for automated compliance checks. This approach allows us to automatedly **validate the stricter European jurisdiction and data-sovereignty requirements** (such as exclusive EEA) **defined for Gaia-X Trust Label Level 2 and Level 3**

DEMONSTRATION

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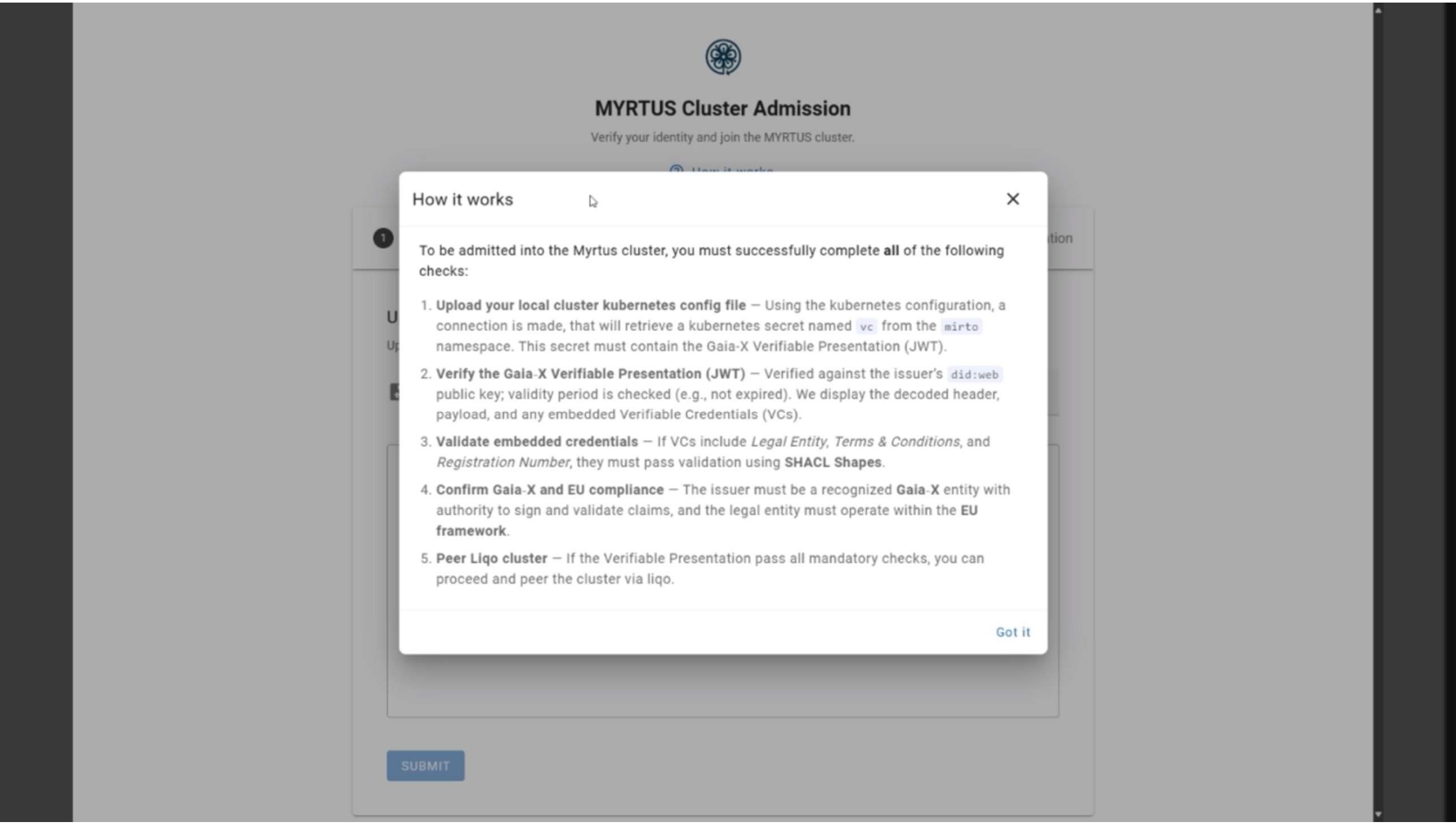
MYRTUS Cluster Admission
Verify your identity and join the MYRTUS cluster.
How it works
To be admitted into the Myrtus cluster, you must successfully complete all of the following checks:
1. Upload your local cluster kubernetes config file — Using the kubernetes configuration, a connection is made, that will retrieve a kubernetes secret named vc from the mirto namespace. This secret must contain the Gaia-X Verifiable Presentation (JWT).
2. Verify the Gaia-X Verifiable Presentation (JWT) — Verified against the issuer's did:web public key; validity period is checked (e.g., not expired). We display the decoded header, payload, and any embedded Verifiable Credentials (VCs).
3. Validate embedded credentials — If VCs include Legal Entity, Terms & Conditions, and Registration Number, they must pass validation using SHACL Shapes.
4. Confirm Gaia-X and EU compliance — The issuer must be a recognized Gaia-X entity with authority to sign and validate claims, and the legal entity must operate within the EU framework.
5. Peer Liqo cluster — If the Verifiable Presentation pass all mandatory checks, you can proceed and peer the cluster via liqo.
Got it
SUBMIT

From Credential Payload to SHACL Validation

VC Payload

```
{
  "@context": [
    "https://www.w3.org/ns/credentials/v2",
    "https://w3id.org/gaia-x/development#",
    {
      "schema": "https://schema.org/",
      "vcard": "http://www.w3.org/2006/vcard/ns#"
    }
  ],
  "credentialSubject": {
    "gx:headquartersAddress": {
      "gx:countryCode": "DE",
      "type": "gx:Address",
      "vcard:locality": "Hamburg",
      "vcard:postal-code": "20457",
      "vcard:street-address": "Katharinenstraße 30a"
    },
    "gx:legalAddress": {
      "gx:countryCode": "DE",
      "type": "gx:Address",
      "vcard:locality": "Hamburg",
      "vcard:postal-code": "20457",
      "vcard:street-address": "Katharinenstraße 30a"
    },
```

Myrtus SHACL rule verifying that the headquarters address is located in an EU country

```
sh:property [
    sh:path gx:headquartersAddress ;
    sh:minCount 1 ;
    sh:message "Missing gx:headquartersAddress on credentialSubject" ;
    sh:node [
        a sh:NodeShape ;
        sh:property [
            sh:path gx:countryCode ;
            sh:minCount 1 ;
            sh:in ("AT" "BE" "BG" "HR" "CY" "CZ" "DK" "EE" "FI" "FR" "DE" "GR" "EL" "HU" "IE"
                   "IT" "LV" "LT" "LU" "MT" "NL" "PL" "PT" "RO" "SK" "SI" "ES" "SE") ;
            sh:message "gx:headquartersAddress/gx:countryCode must be EU" ;
        ] ;
    ] ;
] ;
```

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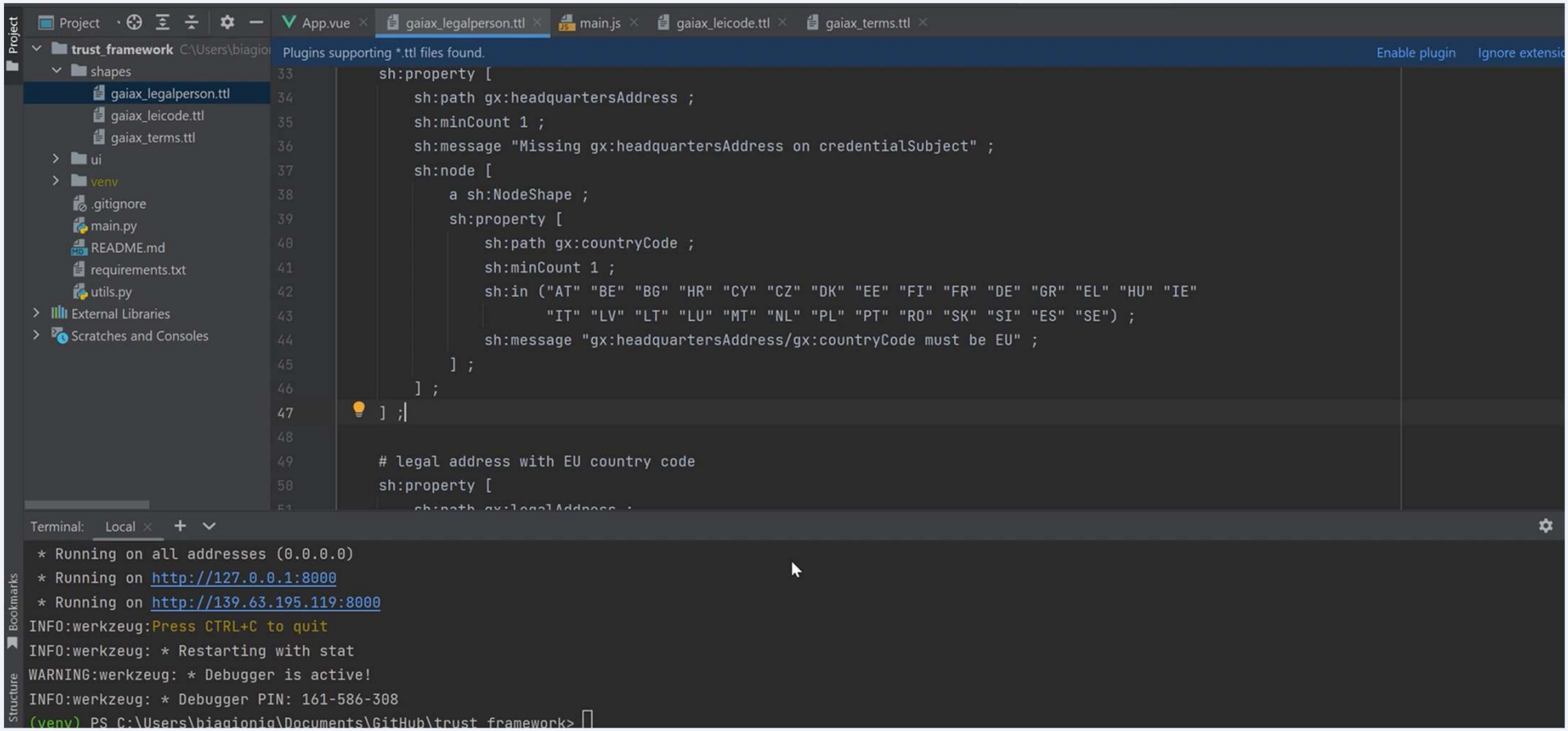
SHACL Validation: When a Country Is No Longer Authorized



Key Takeaways

- **Trust by design:** Myrtus embeds trust at the core of its architecture.
- **Gaia-X aligned:** We use the Gaia-X Trust Framework to ensure secure, transparent, and sovereign interactions.
- **Automated compliance:** Verifiable Presentations and SHACL rules let us verify entities and enforce EU/EEA jurisdiction automatically

Thank you!!

MYRTUS
Multi-layer 360° dYnamic orchestration and interopeRable design environmenT for compute-continUum Systems

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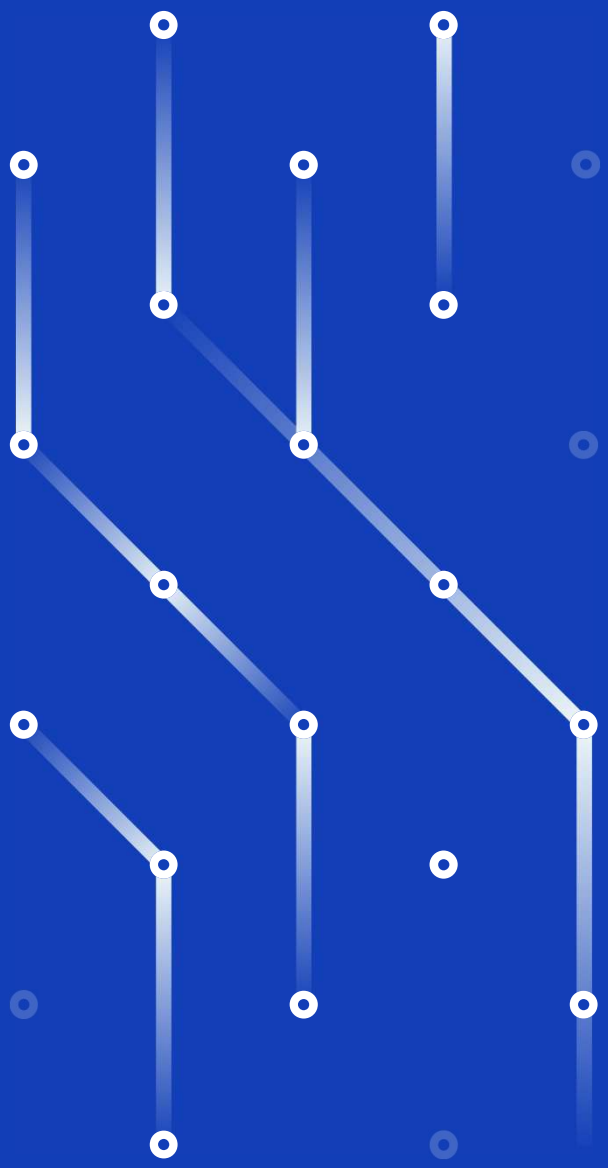

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Gaia-X SUMMIT 2025

DIGITAL ECOSYSTEMS IN ACTION

Porto, Portugal | 20 & 21 November

gaia-x

In partnership with

gaia-x Hub Portugal

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PORTO DIGITAL

Porto.

Gaia-X Data Exchange Services

gaia-x

Updates and roadmap

Frédéric Bellaiche, PhD

Lead of the Gaia-X Data Exchange Services WG
Dawex VP Technology & Research

Data Exchange Services Document 25.07

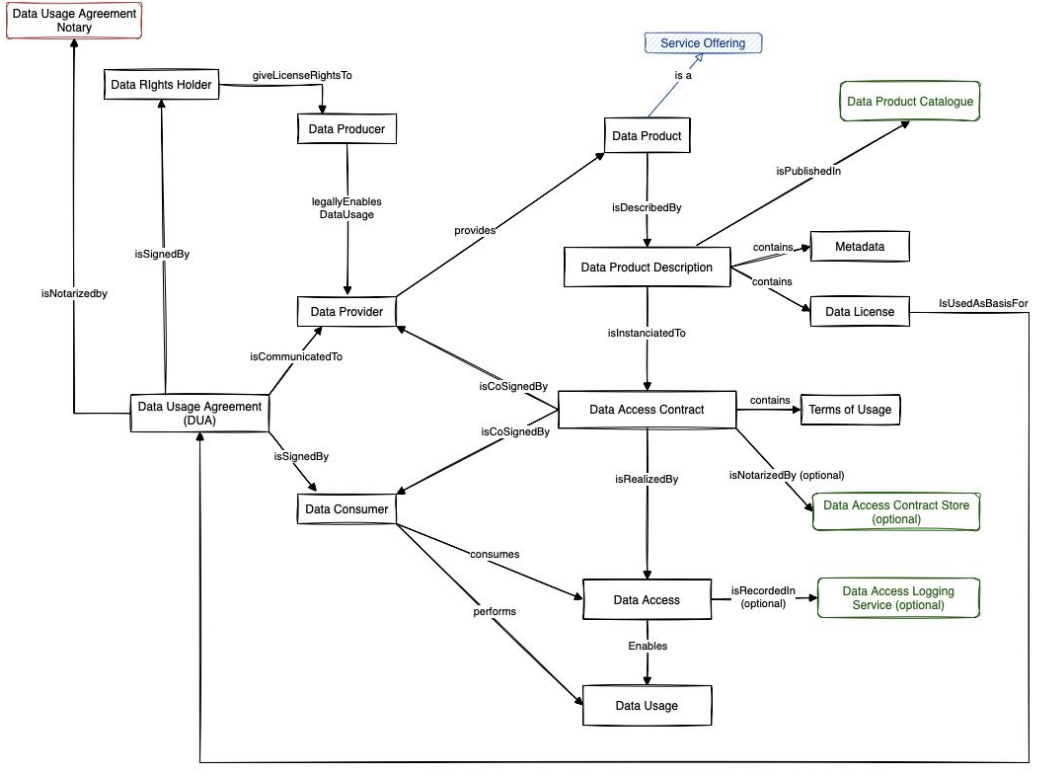
The 25.07 is **non-breaking** update to Gaia-X specifications for Data Exchanges Services:

- **Alignment** with ongoing **standardisation** efforts
  - **CEN/CENELEC** Workshop on **Trusted Data Transaction**
  - **JTC 25** technical committee on Data management, **Data Spaces**, Cloud and Edge
- **First round of updates** on the description of
  - **Data Products Catalog**
  - **Data Access Logging**
- **Update** on the **Data Product Conceptual Model**
- **Introduction** of the **Data Usage Agreement** process
- **Update** on Gaia-X **ontologies** (single source of truth)

Data Exchange Services Document 25.07

Data Product Conceptual Model

- **Alignment** with **Architecture** WG and **ICAM** WG
- **Alignment** with **Trusted Data Transactions**
- **Specification** of DUA **(Data Usage Agreement)**

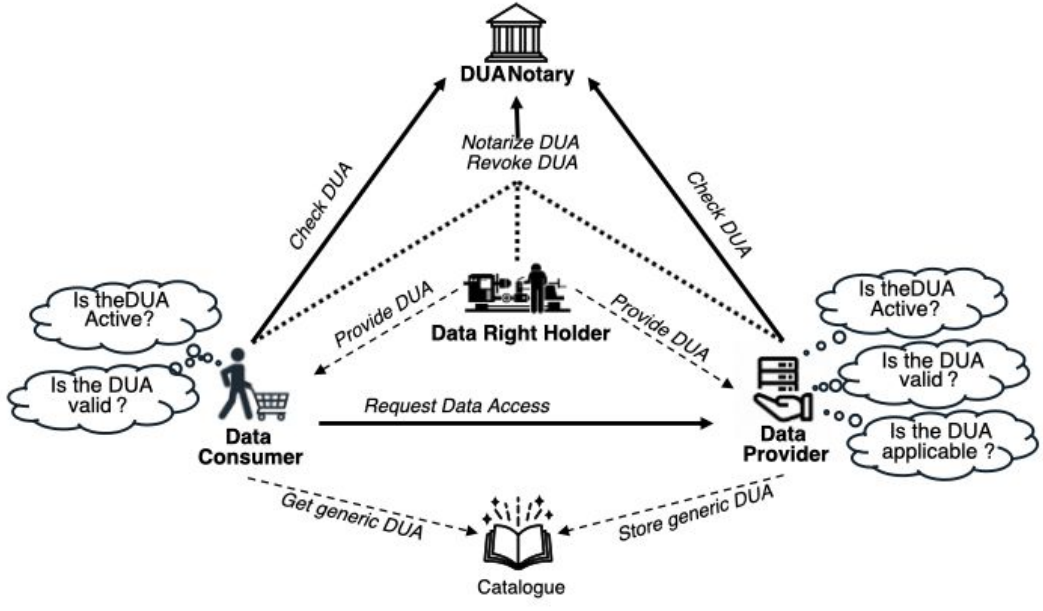


Data Exchange Services Document 25.07

Data Usage Agreement

- **Data Usage Agreement** (DUA) enables **Data Rights Holders** to **control** by **whom**, **how** and **when** their data is **used**

- It gives the **Data Consumer** the formal **authorization** to use the data in accordance with the **constraints** specified by the **Data Rights Holder**



Data Exchange Services Document 25.07

Data Usage Agreement

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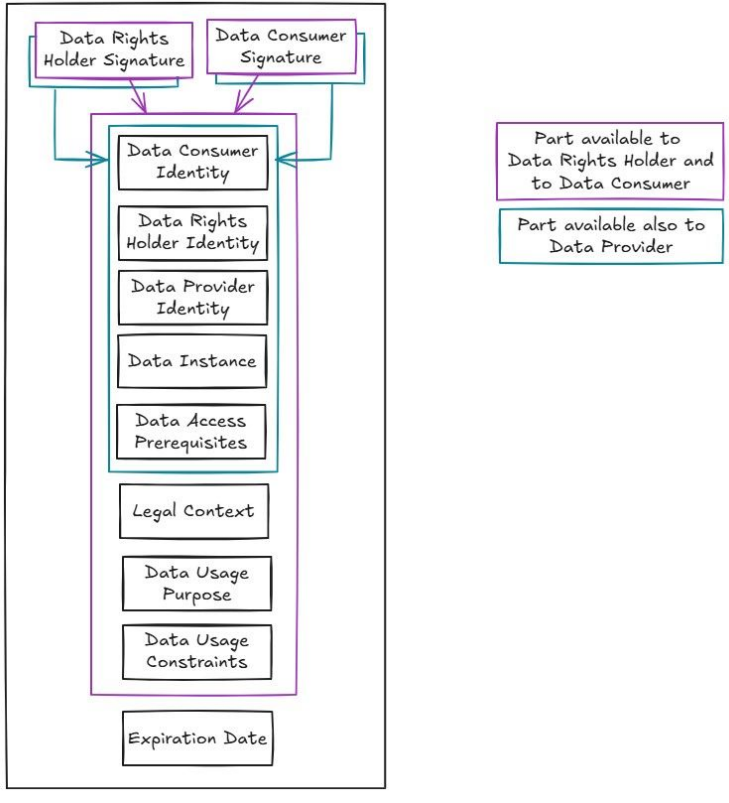
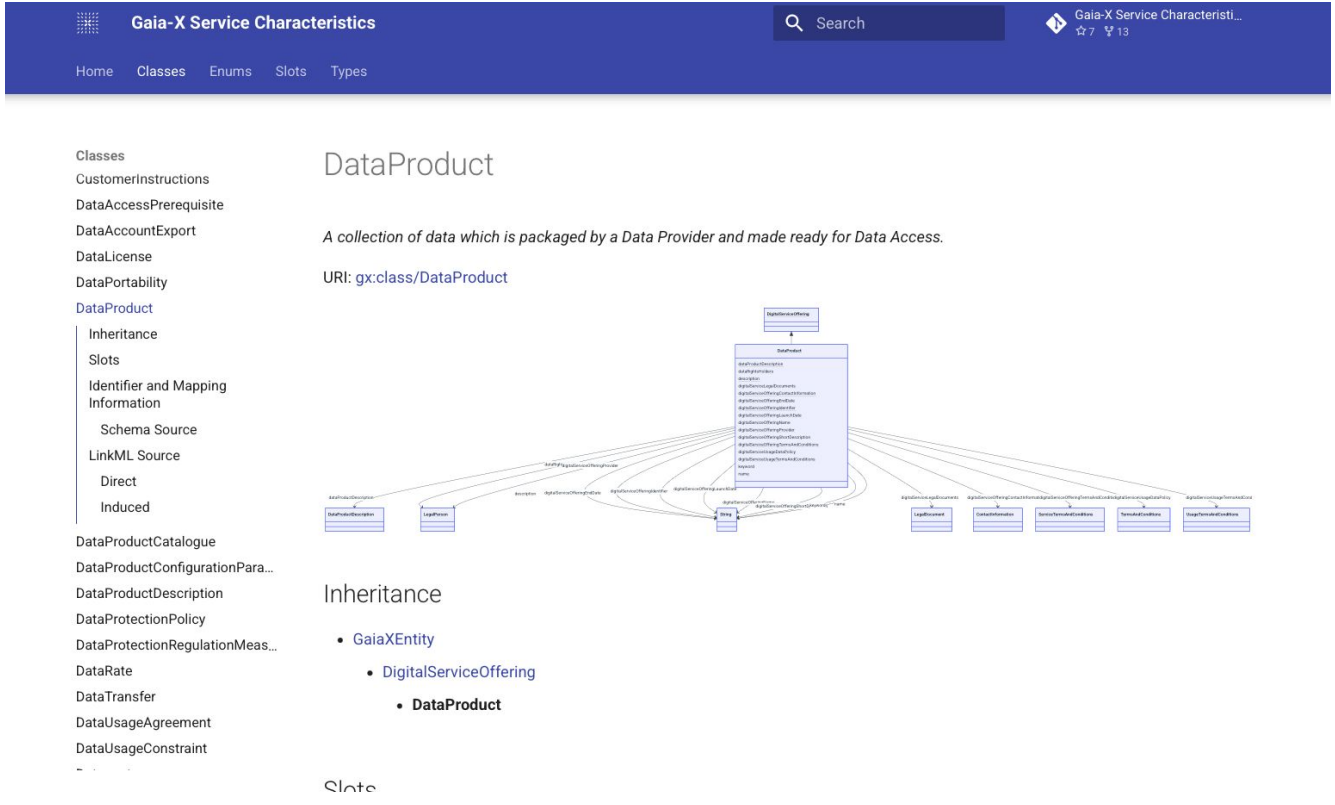
- It gives the **Data Consumer** the formal **authorization** to use the data in accordance with the **constraints** specified by the **Data Rights Holder**
- The **DUA protocol** is **specified** into the Data Exchange Services Document (structure, life cycle and primitives)



Data Exchange Services Document 25.07

Gaia-X Ontologies for Data Exchange



2026 Roadmap

The next release will be **focused** on **implementing outcomes form** standard **Trusted Data Transaction / JTC 25**

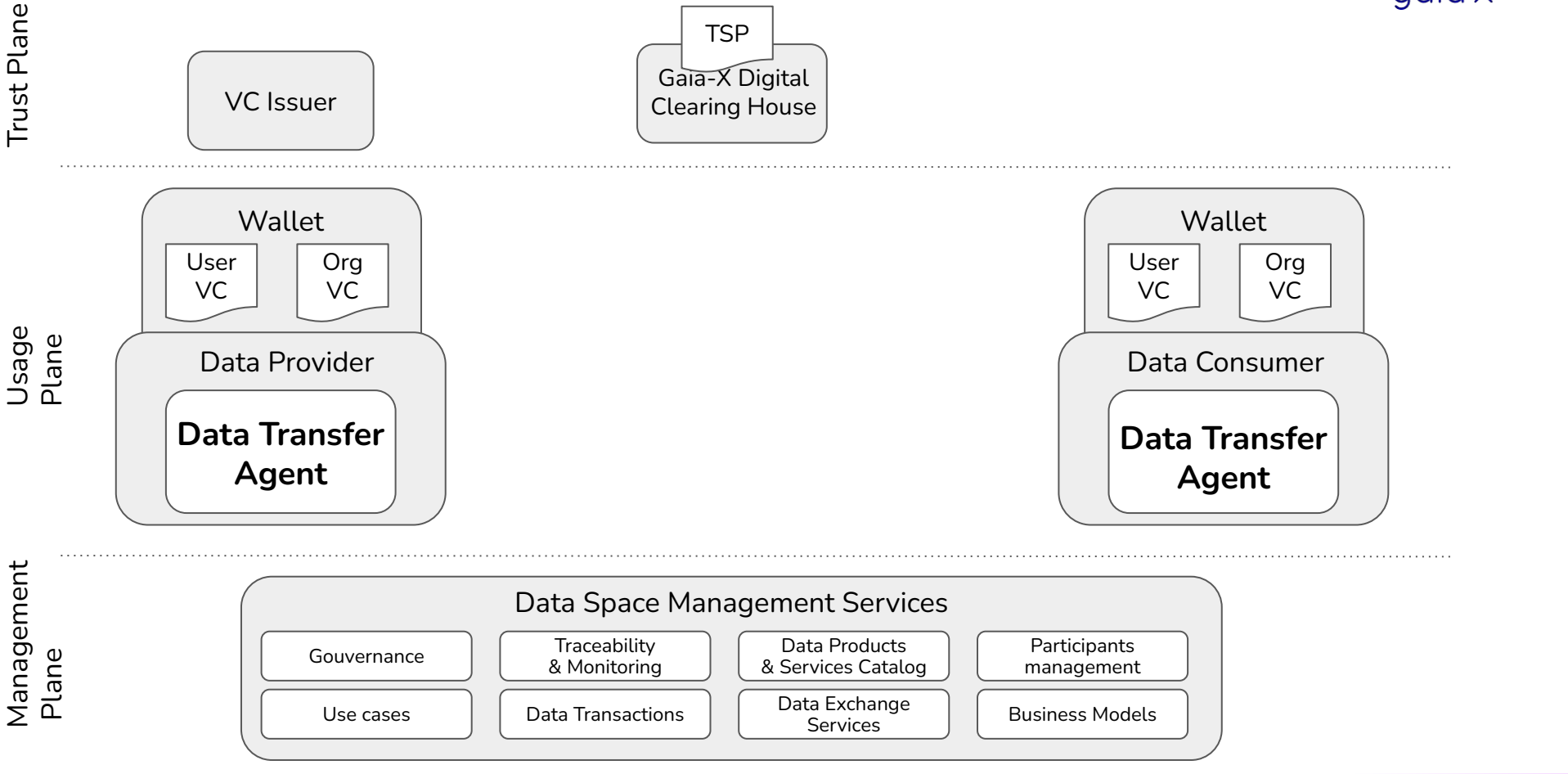
- **Formalisation of Data Transaction into the Gaia-X conceptual model**
- **Update** chapter on **Data Products**
- **Update** chapter on **Data Observability**

Sprint on Data Observability has **started**

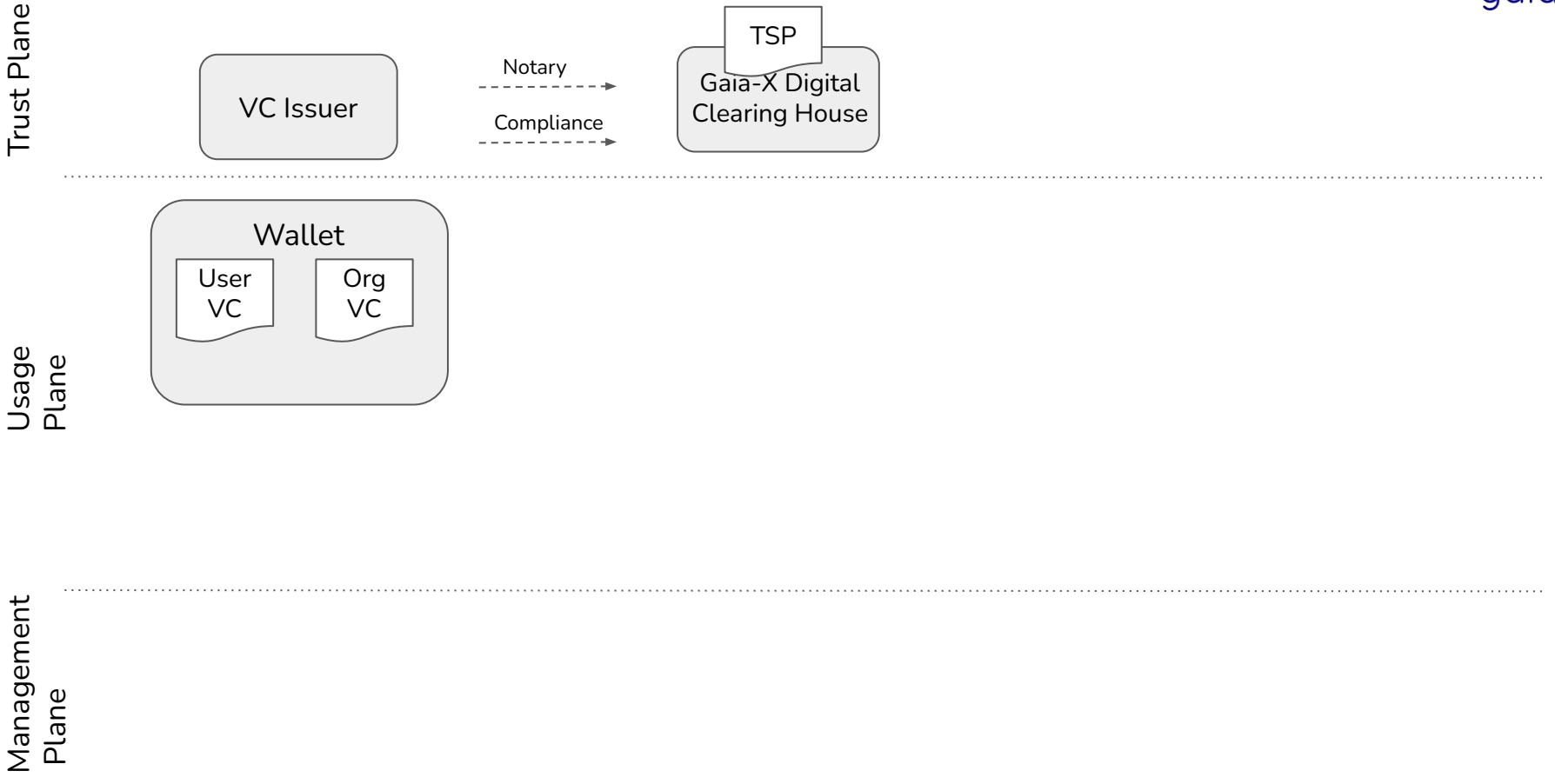
- **Need** to update the Data Product conceptual **model** (Data Transaction)
- **Need** to formalize **participants** roles (via **party credentials**) such as
  - Data Consumer, Data Producer
  - Orchestrator

It shows that **identity management**, **digital wallets**, and **data transfer agents** are **essential** pillars for establishing **trust**, **accountability**, and **transparency**

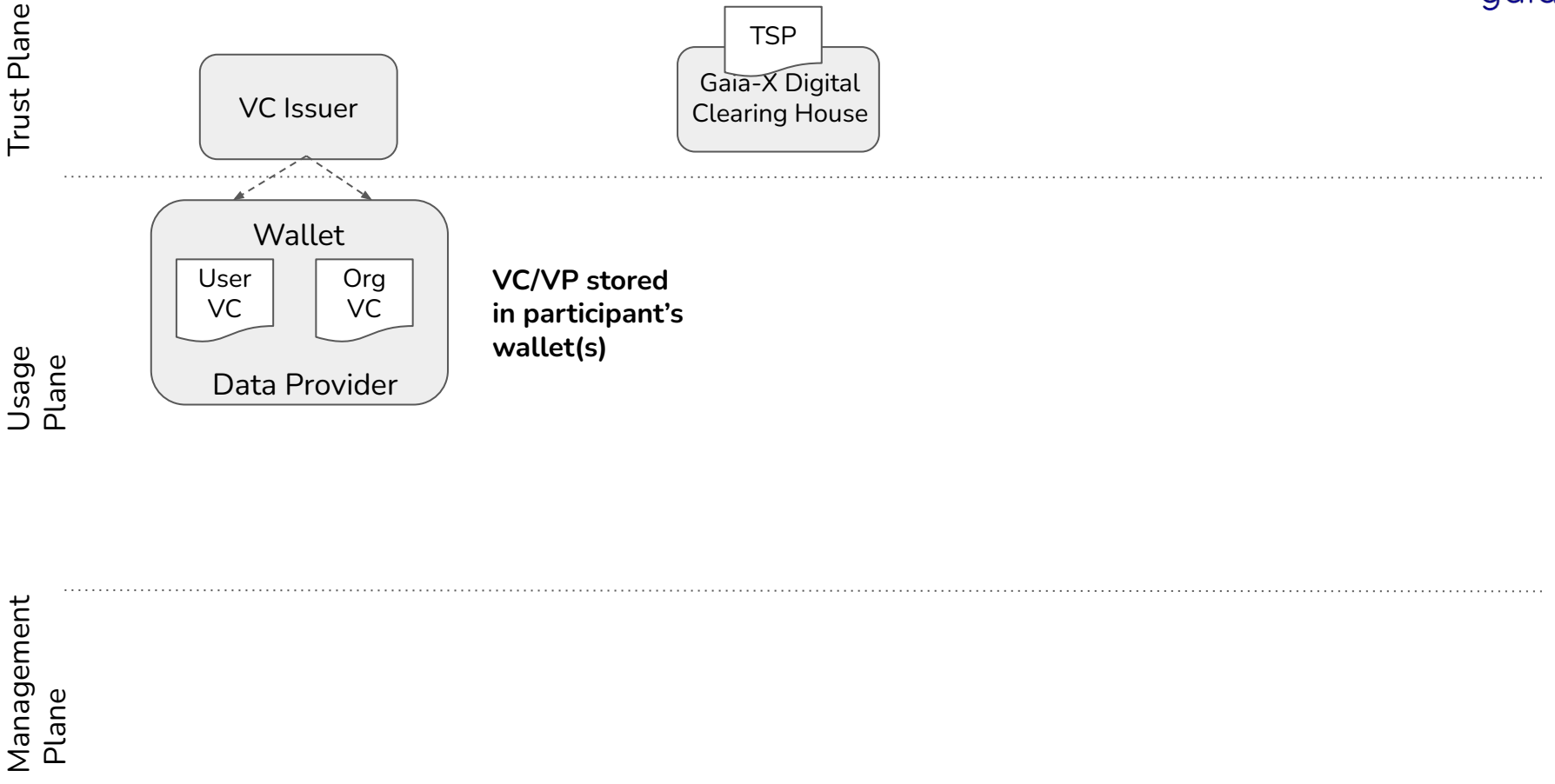
Key components for Trusted Data Transactions



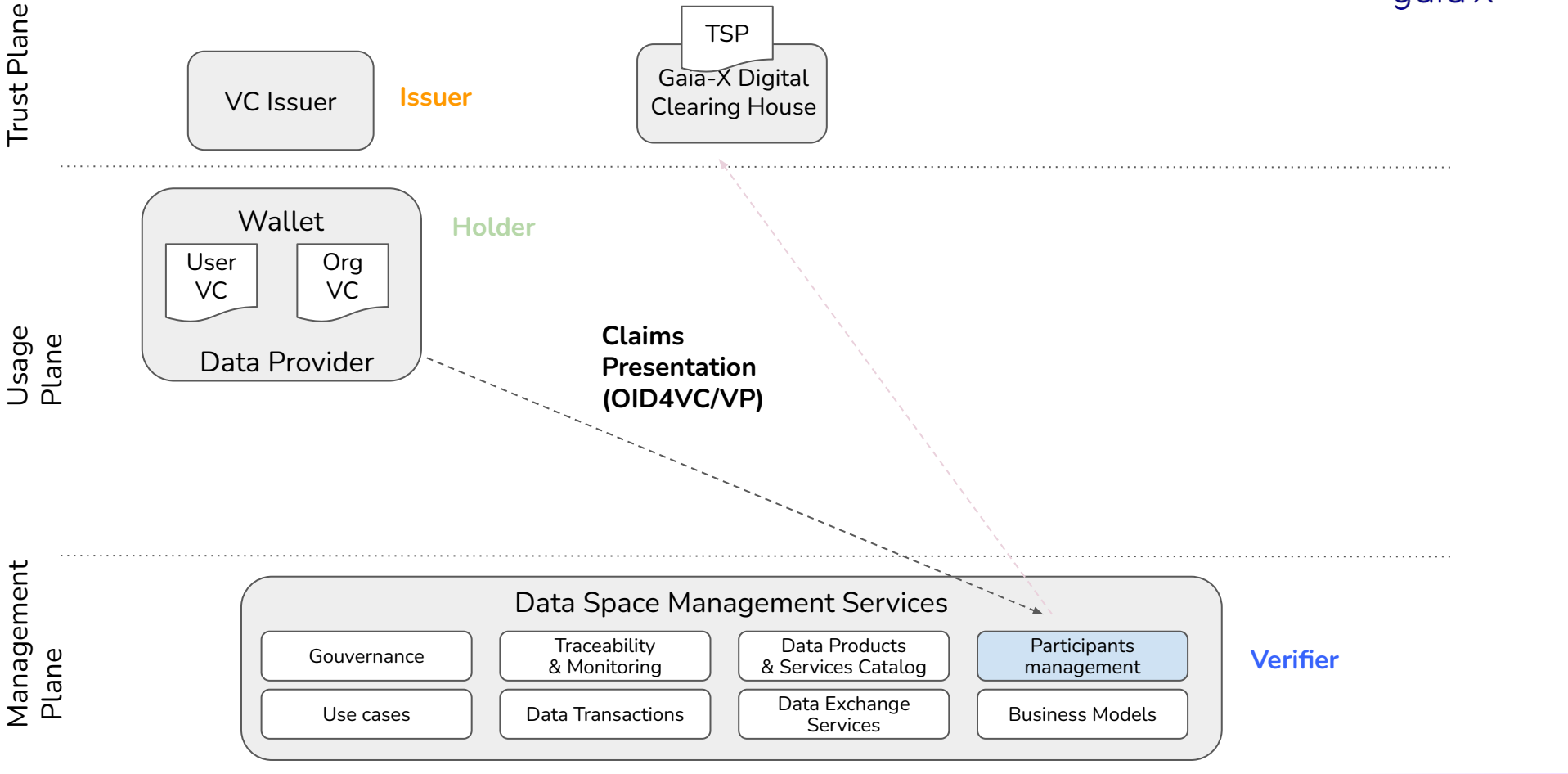
Key components for Trusted Data Transactions



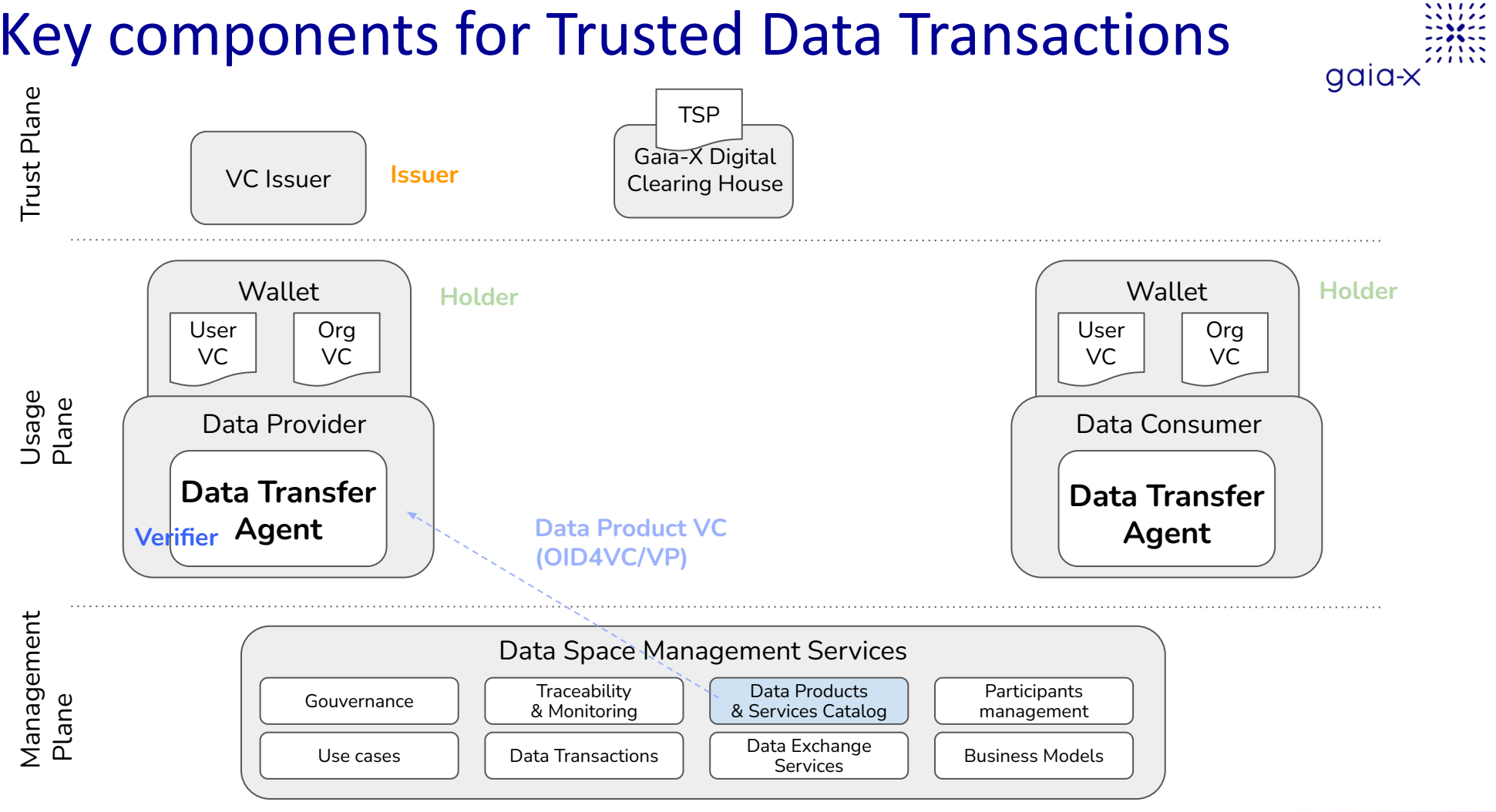
Key components for Trusted Data Transactions



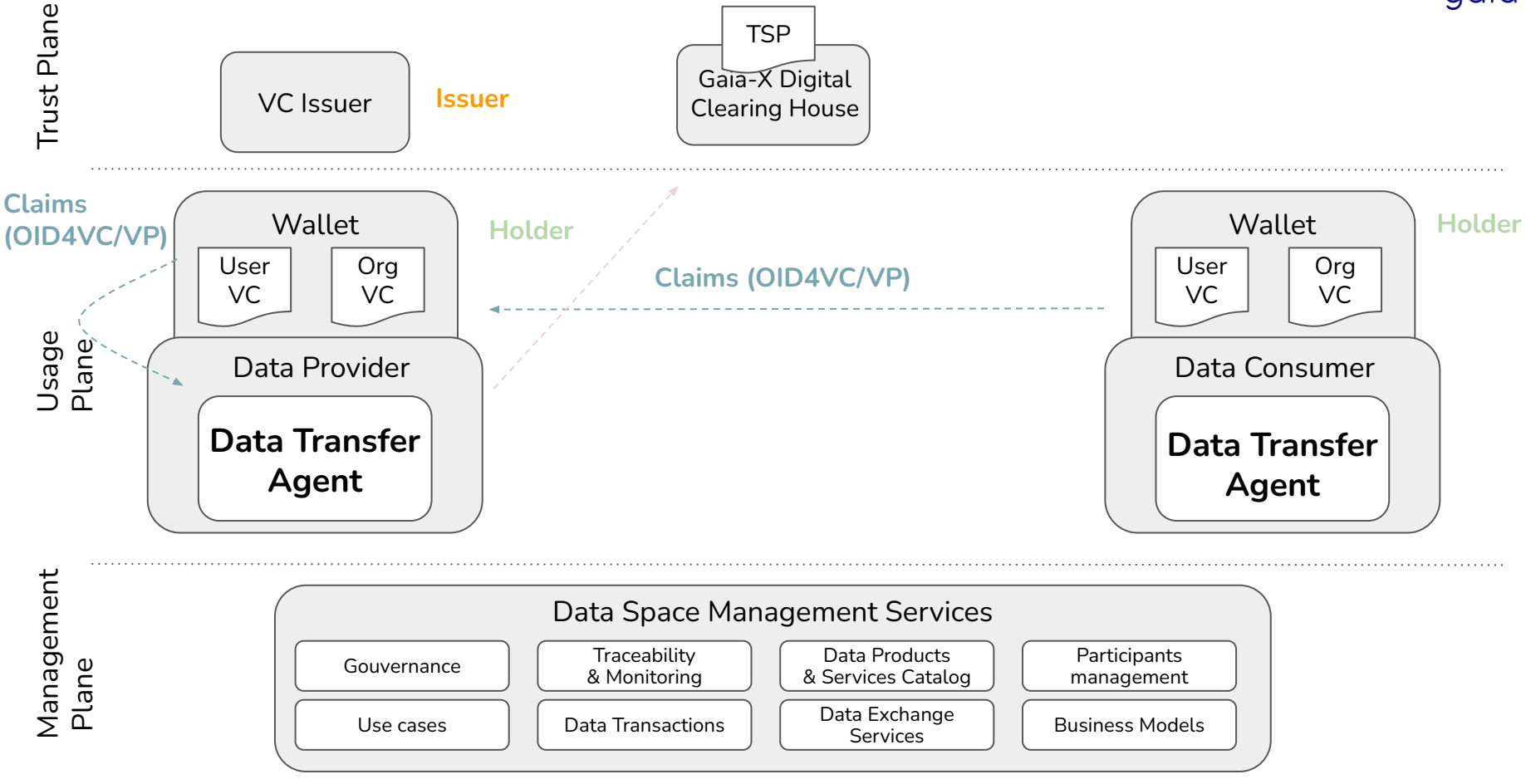
Key components for Trusted Data Transactions



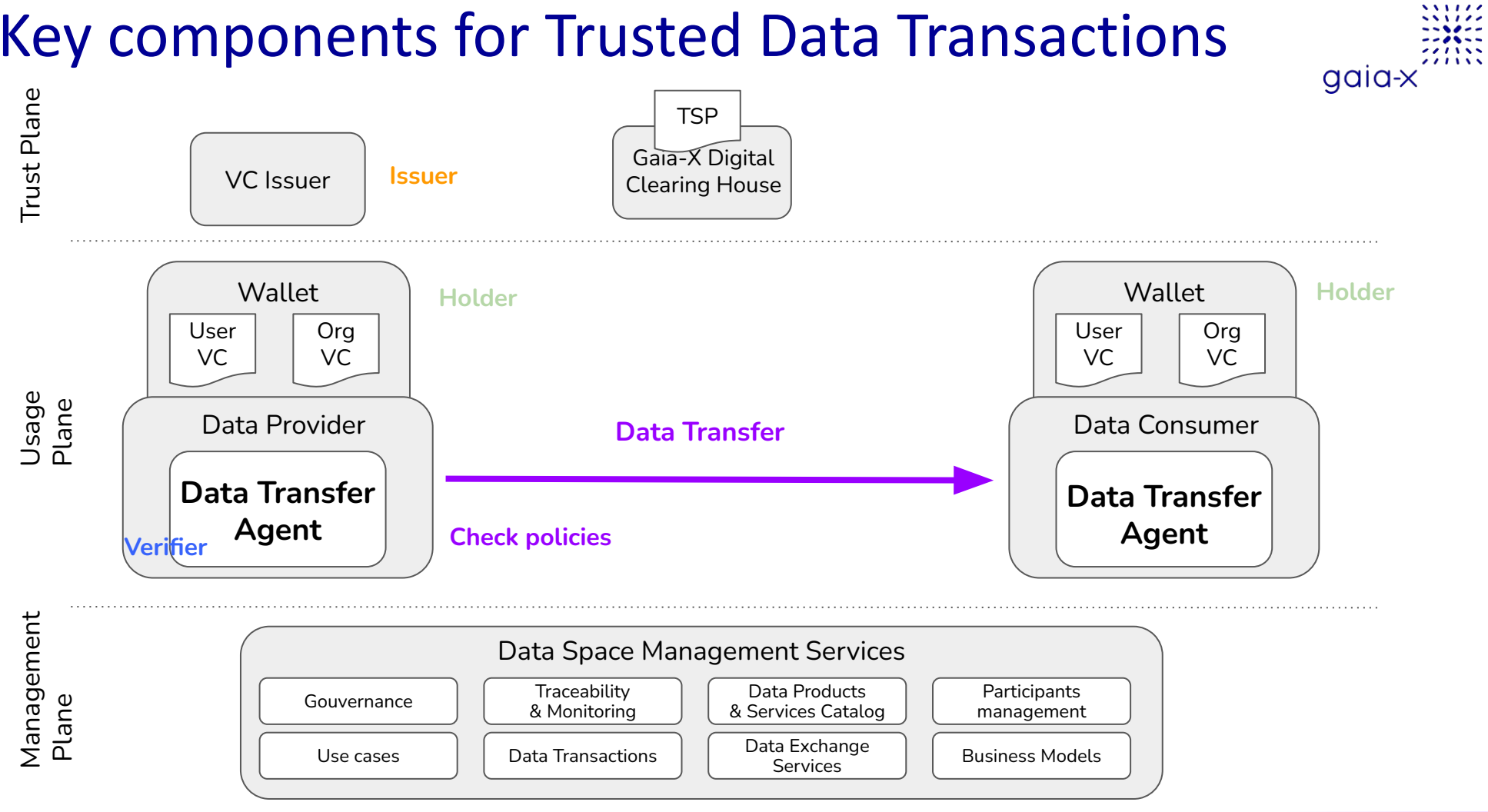
Key components for Trusted Data Transactions



Key components for Trusted Data Transactions



Key components for Trusted Data Transactions



Thank you!

Frédéric Bellaiche
Vice President Technology & Research
Dawex

Gaia-X SUMMIT 2025

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Geography & Domain Extensions

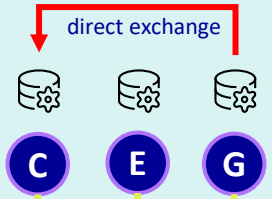
Catherine Simonnin – Orange

Bert Verdonck – Luxembourg National Data Service

Domain Extensions – BYOR (Bring Your Own Rules)

Custodian

BYOR – Bring Your Own Rules

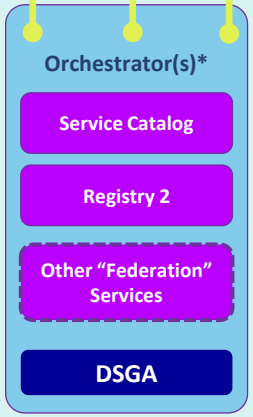


Organizational Interoperability

Extended Participant ID

Domain specific participant criteria

(e.g. region, legal, certification)



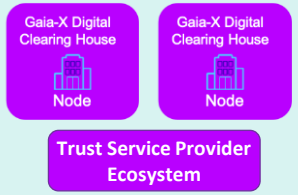
Ecosystem Governance & Technical interoperability

Domain Specific Service Criteria

Compliance by design / code

(e.g. regulation, legal, certification)

Use of specific or generic GXDCHs



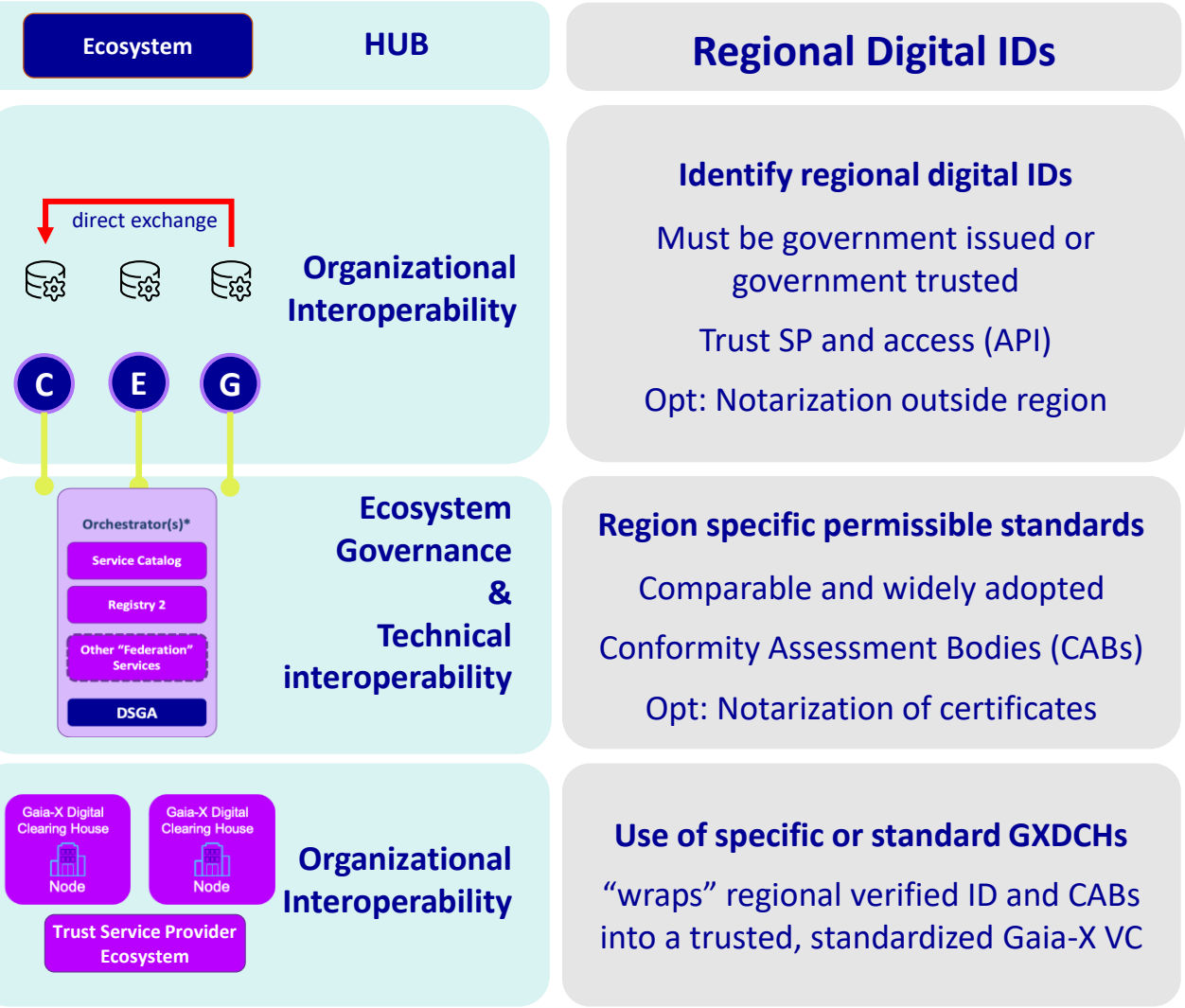
Organizational Interoperability

Use of specific or standard GXDCHs

Benefits

- **Automation of compliance**
- **Automation of regulatory requirements**
- **Low-cost, inclusive solution for SMBs**
- **Compatible across multiple ecosystems**
- **No lock in with single operator through decentralization**

Geographical Extensions – enable trust across regions



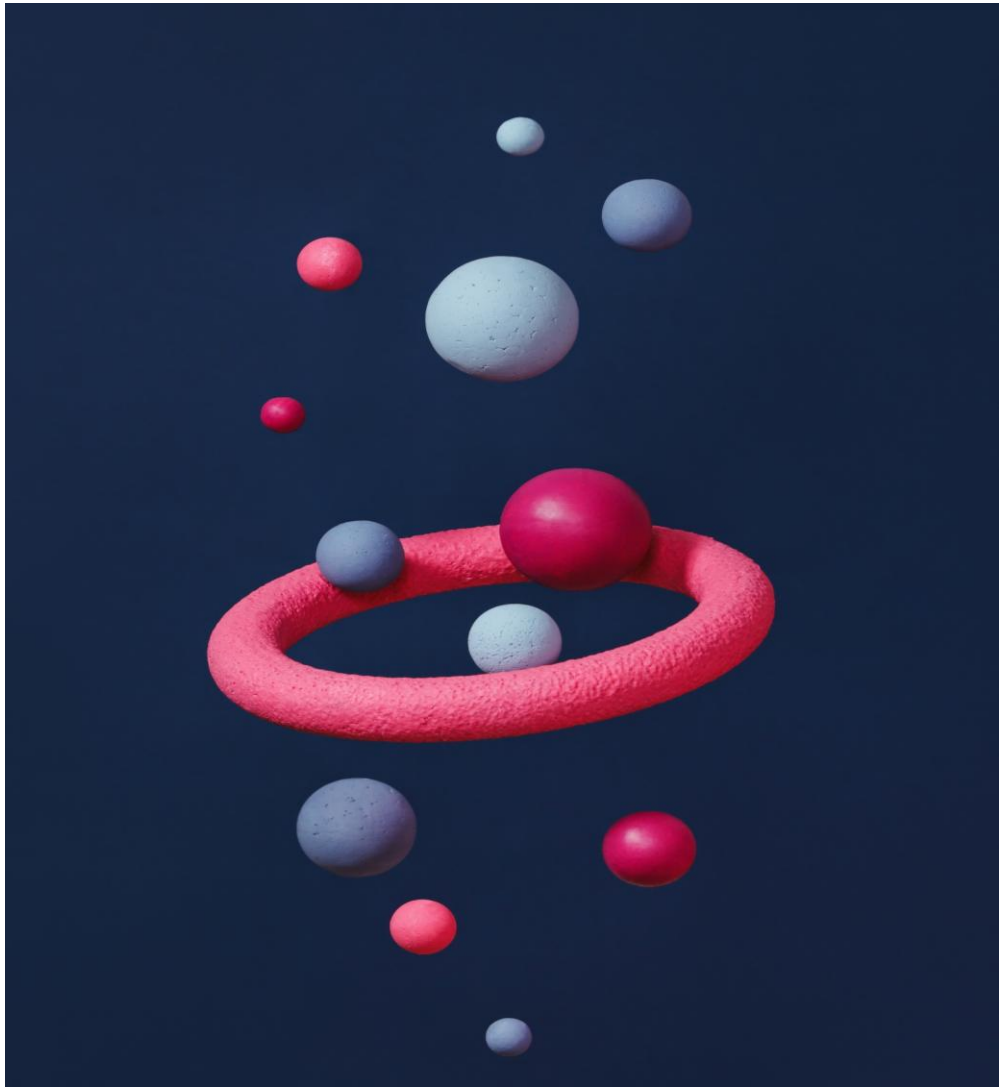
Benefits

- True sovereignty on regional terms
- Global recognition and interoperability
- Full transparency between participants
- Harmonized trust levels across regions
- Per use-case rules enabled


Are you interested by domain extension ?
Are you interested by geographical extension ?

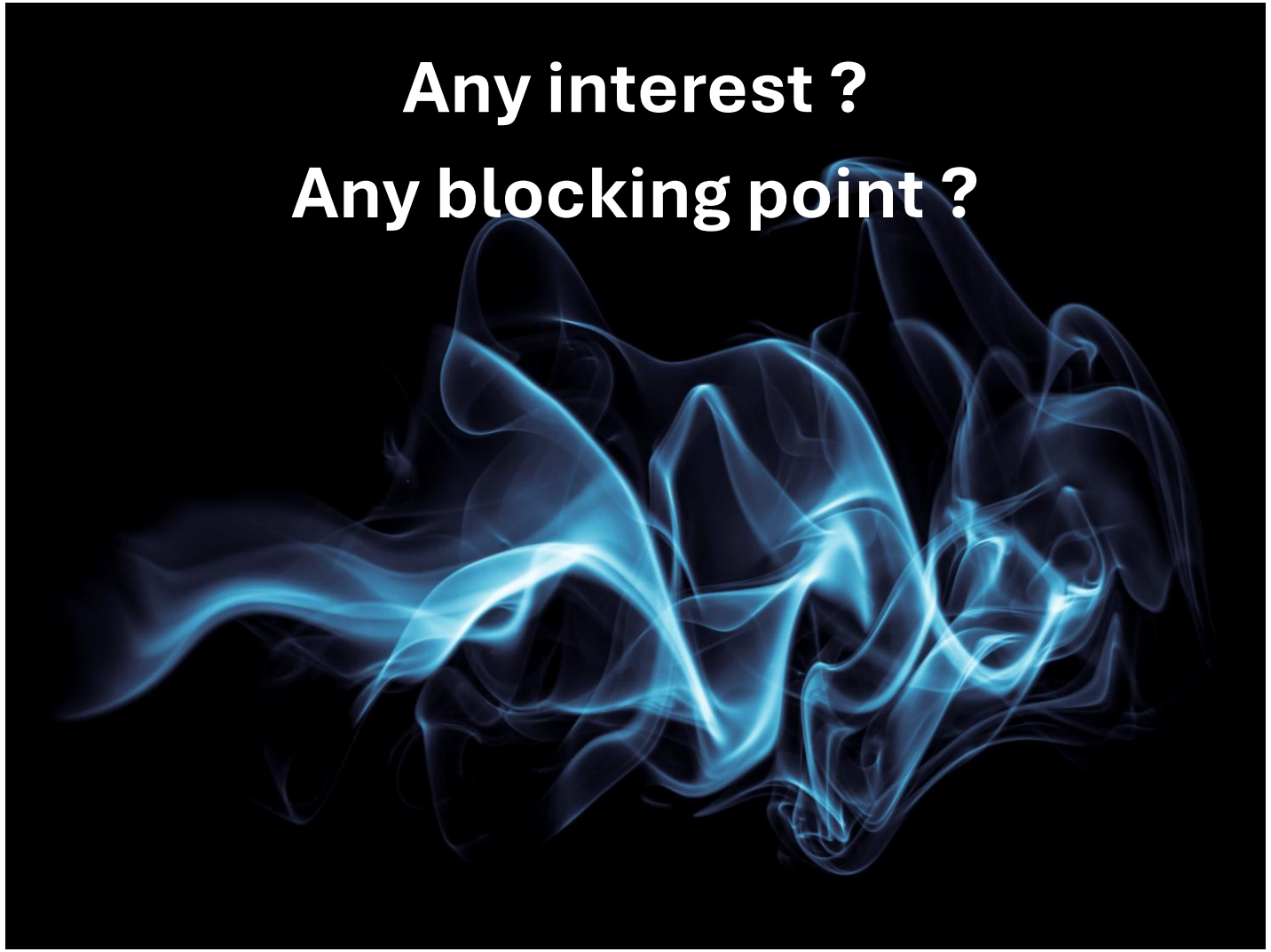
4 Scenarios for geographical & domain extension

- Scenario 1 : controlled by a Custodian
- Scenario 2 : controlled by Gaia-X
- Scenario 3 : Custodian-proposed, Gaia-X validated, and GXDCH-certified,
- Scenario 4 : Custodian-proposed and validated, and GXDCH-certified



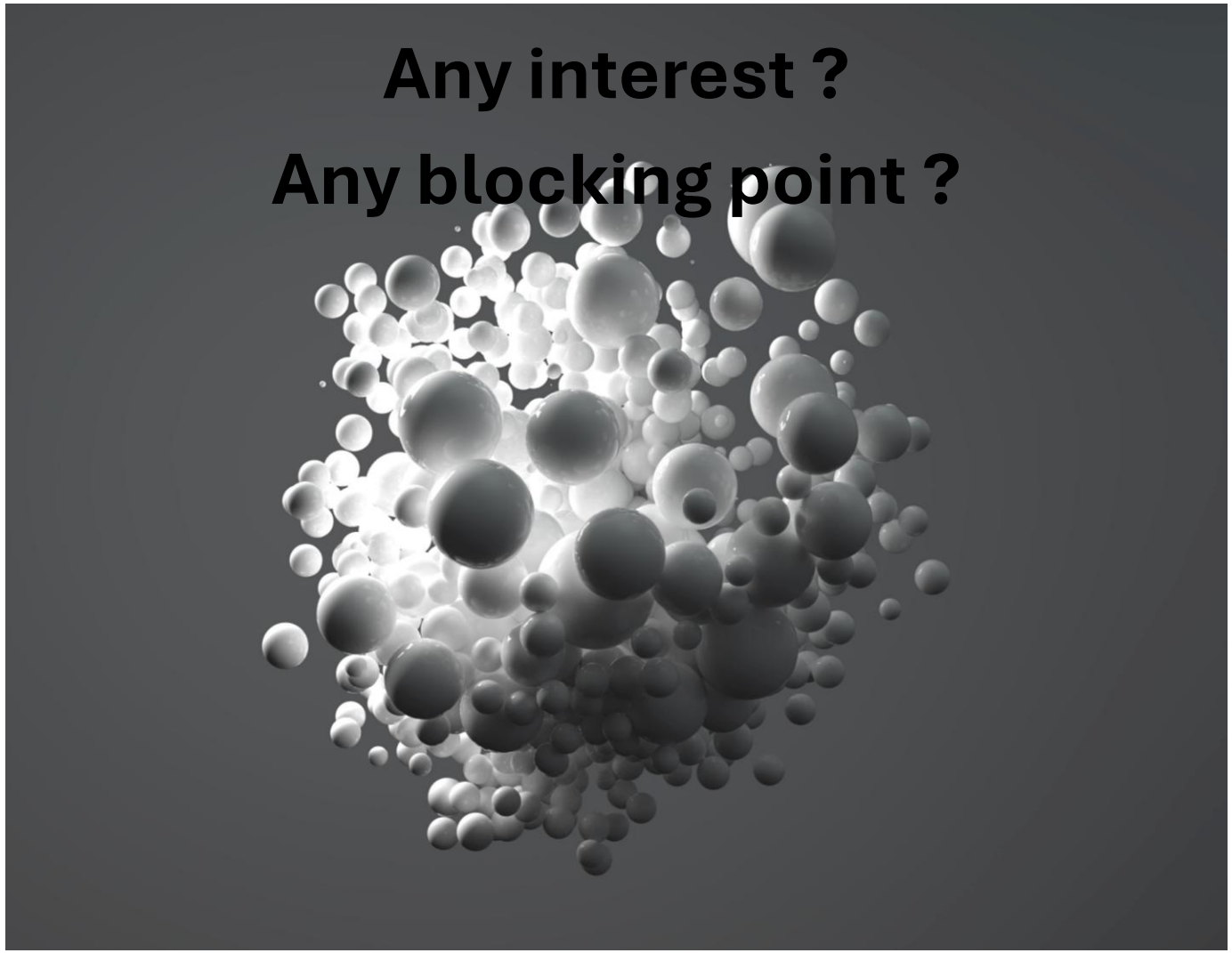
Scenario 1 : controlled by Custodian

- Reuse Gaia-X open source code
- Full autonomy and choices made by Custodian, allowed to fork the code
- Of course, possibility to re-use parts of Gaia-X trust Frameworks including GXDCH code
- No check from Gaia-X (compliance or technical compatibility)
- Technical compatibility possible but not guaranteed



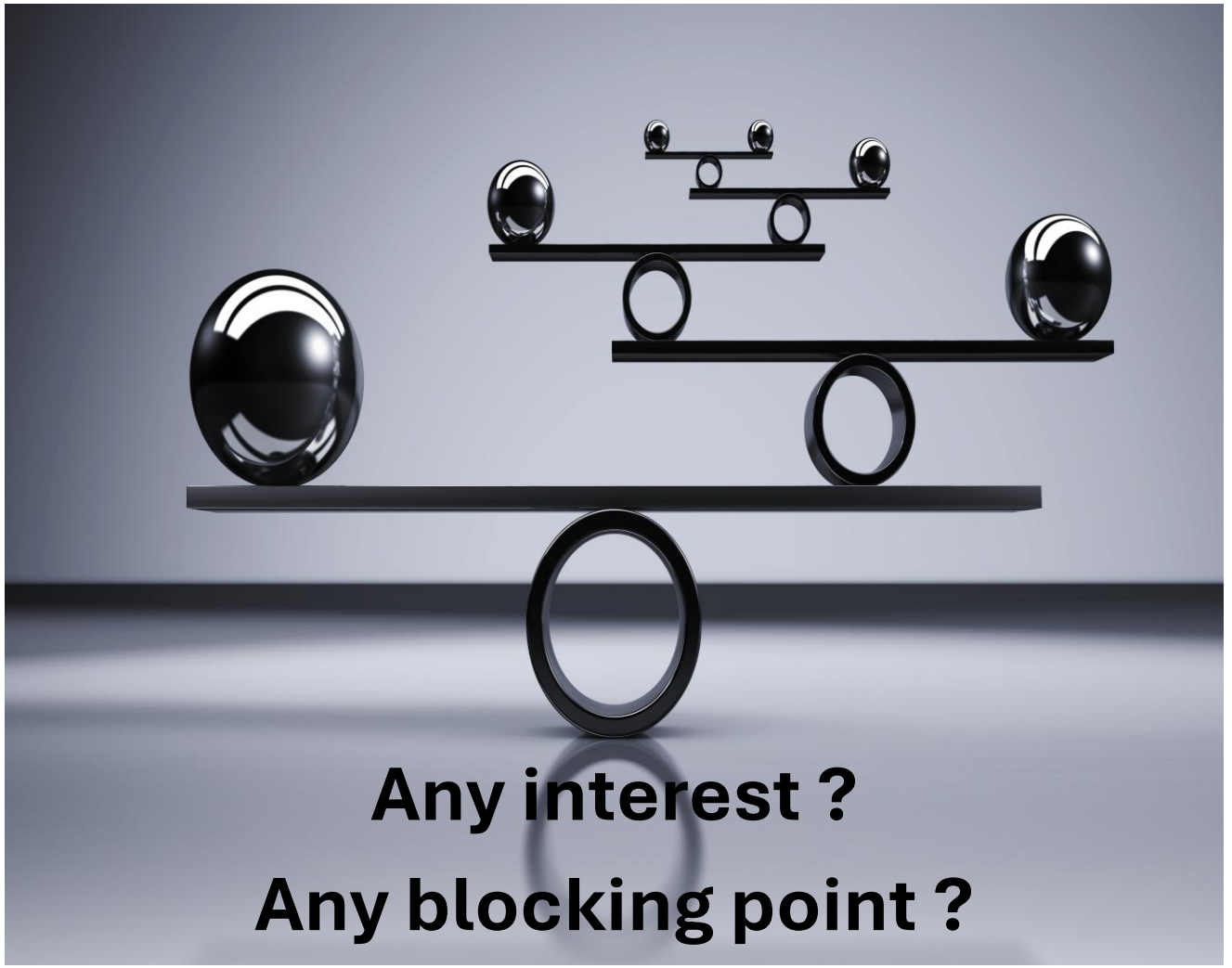
Scenario 2 : controlled by Gaia-X – the model used so far

- The extension is managed like today for the Gaia-X Trust Framework
- Criteria are discussed and agreed in the PRC, with final validation by the Gaia-X Board of Directors
- The GXDCH corresponding code is provided by Gaia-X tech team
- The extension is provided to all GXDCH providers with Gaia-X tech team support
- Technical compatibility guaranteed



Scenario 3 : Custodian-proposed, Gaia-X validated, and GXDCH-certified

- Criteria are discussed and agreed by the extension Custodian
- After checking alignment with Gaia-X values, the extension is validated by the Gaia-X Board of Directors
- The GXDCH corresponding code is provided by Gaia-X tech team
- The extension is provided to all GXDCH providers with Gaia-X tech team support
- Technical compatibility guaranteed



Scenario 4 : Custodian-proposed and validated, and GXDCH-certified

- Criteria are discussed and agreed by the extension Custodian
- The extension is validated by the Custodian
- No checking of alignment with Gaia-X values
- The GXDCH corresponding code is provided by Gaia-X tech team
- The extension is provided to all GXDCH providers with Gaia-X tech team support.
- Technical compatibility guaranteed

Any interest ?

Any blocking point ?

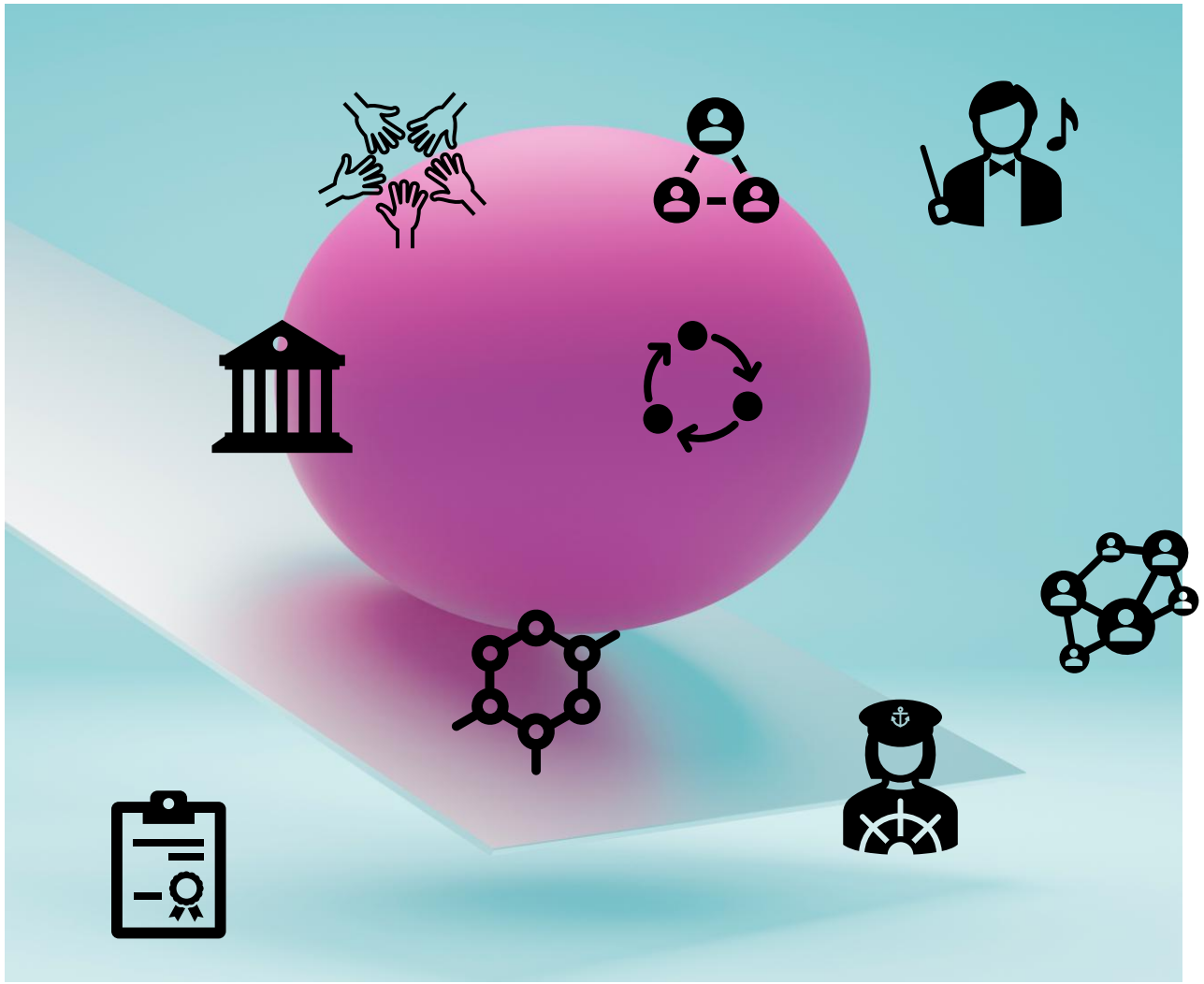
Questions


Are you interested by domain extension ?
Are you interested by geographical extension ?

Geographical & domain extension governance

How to start?

- Starting points :
  - Use cases / business needs
  - Autonomy / sovereignty needs
  - Legal / regulatory needs
- Questions to start :
  - Custodian already existing?
  - Levels of compliance required
  - Sponsors and budget
  - Shared use cases



Catherine Simonnin – Orange

Bert Verdonck – Luxembourg National Data Service

Thank you!

To go deeper join the GXDCH Danube presentation … tomorrow