VISIONS PROMETHEUS-X

WEBINAR · 17 NOVEMBER 2026

Trust, interoperability and collaboration

The next generation of data spaces

From shared rules to enforced exchanges, across data spaces and stacks

Visions · Prometheus-X · StartinBlox · Seamware · BME

Two questions for today

1 How do we automate trust?

2 How do we collaborate to build this common layer?

WHAT WE WILL GO THROUGH

01
Rules
The common rules to all data spaces.

02
Architecture
How to make them machine-readable and automatic

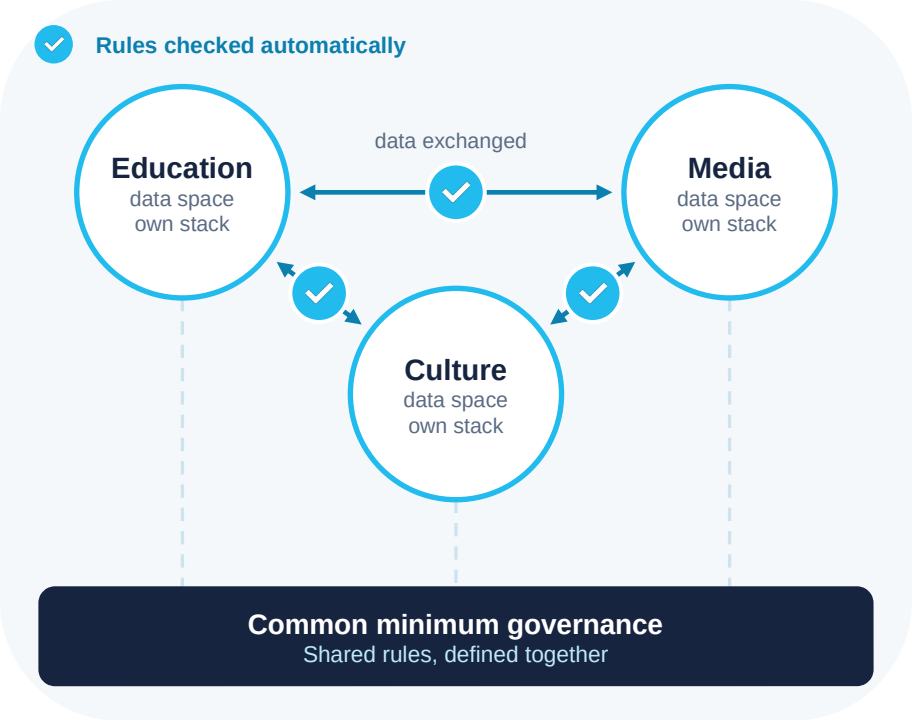
03
PTX implementation
A connector and an Edge Node Server, on one example

04
Across stacks
The DSIF approach, so it works whatever your stack

05
AI
An assistant that helps participants find and define their rules

We will ask you to commit, and see who wants to build this with us
Workshop at the end to identify the next members of the community

Six principles behind the collaboration



1. **Trust unlocks sensitive data**
   Rules and trust release the most sensitive data
2. **Rules defined together**
   By the data spaces, for the data spaces
3. **Rules automated**
   Verified and enforced on every exchange
4. **No implementation imposed**
   Each data space keeps its own stack
5. **Only the minimum is mandatory**
   A shared base, everything else stays local
6. **A work in progress**
   No ready-made answer: we combine and agree

Why common?
The same need in every data space

Education

xapi4research

Which learning tools and techniques work on a territory?

PRIVATE DATA

Pupils' learning traces

Skills

DS4Skills

Is my skills gap normal compared with my competitors?

PRIVATE DATA

Employees' skills and gaps

Culture

Technè

Is the occupancy of my venue normal?

PRIVATE DATA

Ticketing and attendance

Energy and buildings

Location Data Space

What did renovating similar buildings cost and save?

PRIVATE DATA

Renovation costs and consumption

Health

Health Data Trust

What are the real effects of a drug over years?

PRIVATE DATA

Patient cohorts over years

What is at stake: sharing confidential, sensitive data, often with competitors, to get analysis, services and a competitive edge.

One pattern, a few big roles

Ask

Decision makers set the question and commit to act on results

Contribute

Data providers pool data under their own access conditions

Protect

The data space applies thresholds; no contributor isolated; value shared

Analyse

Researchers apply a stated method; results are graded

Act

Purpose owners act on the evidence

SAME PROFILE, ONE INSTANCE PER USE CASE

xapi4research

Which learning tools work?

Health Data Trust

Real effects of a drug over years?

Technè

Is my venue occupancy normal?

Location Data Space

What did similar renovations save?

The same chain in every data space

AT EACH PROVIDER

Raw data never leaves

- **Local processing**
- **Anonymisation**
- **Mapping to the common model**
- **Release check**

COMMON POOL

Aggregated results only

- **Query size limits**
- **Aggregation thresholds**

USE AND VALUE

Who uses it, and for what

- **Authorised users and uses**
- **Value of each contribution**

Edge Computing
Semantic Translator
Data Veracity Assurance

Connector
Contract Manager

Trust framework
Data Value Chain Tracker

Trust: It is how we answer question about rules

- Is the data really anonymised? Can I really not be re-identified?
- What guarantees that a competitor cannot access my confidential data?
- Which criteria decide who can enter the use case?
- What can each user do, depending on their role?
- Who checks these roles and rules, and how are they implemented?
- How is each one's share of the value determined?
- How am I sure to get my fair share of what is generated?
- How is everything traced?
- With local processing, how do I make sure only the data I accept leaves?

The question: how these rules are set, implemented and verified, and how we can trust them. Mostly automated, always checkable.

This is the data space approach. To make it work at scale, we must collaborate.

To scale: two kinds of commons

Governance commons:
Data Space Interoperability Framework

- Base rules and requirements to federate
- Decided by data spaces on any technology
- **Imposes no technology**
- Each commits to implement the common base

Software commons:
Prometheus-X

- We all need the same software
- To verify the rules, and to enforce them
- e.g. connector, Edge Node, consent manager
- **So we co-build a technology, open source**

Co-built with two communities

DSIF: the common rules



















- Who decides: the data spaces, their governance authorities and their participants

Prometheus-X: the implementation

- 30+ organisations: data space operators, cloud providers, research labs, 80 FT devs over the last 2 y
- 13 open source building blocks, from rules to trusted AI
- €10M invested 2023-2026, €7M secured for the next two years
- Who decides: technical contributors, to implement data space requirements

One architecture, three layers

Common rules: DSIF

Base rulebook and enforcement rules, models, bridges, common protocols

Common to everyone, governed together

Open source: Prometheus-X

Prometheus-X connector, contract manager, catalogue, consent, Edge Node Server, DVA, DVCT

Pooled by those who want it

Implementations

VisionsTrust and other platforms and stacks: EDC, FIWARE, Simpl

One possible implementation among others

What we ask you to collaborate on

DSIF Rulebook L0

Validate the common rules, how they are verified and governed

DSIF Rulebook architecture

The architecture, and translating the rules together

PTX Connector

Make it check that rules are respected

PTX Edge

Components that apply and verify rules at the source

DSIF contracts

Contract and contract action models, across stacks

PTX Assistant

Say what it should do, test it, provide data

The Mural is open now. During the talks, add where you want to collaborate. We discuss it together in the workshop at 16:30.

xapi4research: trustworthy AI in education

xapi4research

THE QUESTION

Learner profiles: what personalisation for each?

To fund, buy and certify digital tools, AI and profiling

THE DATA NEEDED

Learning traces (xAPI)

Attempts, hints, time, revisits Maths, first year of secondary school

WHY SEVERAL EDTECH

Profiles of pupils, not of a tool

One EdTech describes its own users. Several separate the practice from the product

WHO IS INVOLVED

Users: research, the common's operator

Data providers: EdTech

Governance: Ministry, schools

BUT THE DATA IS SENSITIVE

Personal data (GDPR)

Competitive data

We need to create trust

02

A common rulebook to create trust

Olivier Dion · Onecub, Prometheus-X



Rulebook L0

What we ask you: Validate the common rules, how they are verified, and how the L0 is governed

VISIONS

Rules and standards

Open source building blocks

Implementations

“I don’t want a competitor to find me”

xapi4research

“Before I share my learning traces…”

- Who will access them, for which use?
- Will they really be anonymised?
- **Can a competitor isolate my results?**
- Who checks, with which evidence?
- Can I leave, and take my data back?

A RULEBOOK ANSWERS IN ADVANCE

Who brings what, under which conditions, how it is checked, who decides changes

In its contract with the commons

25	**pupils at least in any aggregate**
3	**EdTech at least in any aggregate**
50%	**maximum share of a single EdTech**

Checked before every release

Behind one rule, a stack of shared rules

xapi4research

SHARED BY

L3 — **This contract · EdTech and the commons** — Group of at least 25 pupils for this EdTech's data — **1 contract**

L2 — **This use case · xapi4research** — Public research only · anonymised before entry · group 20, 3 EdTech, max 50% · no query isolates a contributor — **1 use case**

L1 — **This data space · DS4Skills** — Roles declared · identity validated at onboarding · offers with machine-readable conditions · group 10 — **1 data space**

L0 — **Every data space · Common core** — Every exchange contracted, authorised, traced, verified · identities verified · threshold rule exists, value open · right to exit — **all data spaces**

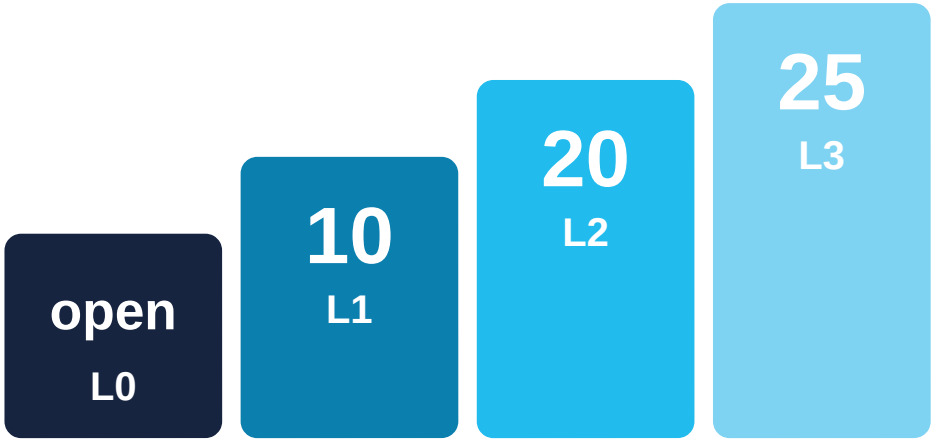
One rule across the four levels

xapi4research

MINIMUM GROUP SIZE FOR AGGREGATED RESULTS

"A service provider shall not release aggregated results computed on fewer individuals than the minimum group size."

Strength	MUST · prohibition
Bound role	Service provider
Parameter	minCohortSize, open at L0, stricter = higher
Checked by	Release gate on the Edge Node Server
Evidence	Release-gate log



The rule exists, value open | **DS4Skills sets the floor** | **xapi4research raises it** | **Contract EdTech and commons**

Added at L2: no result can isolate a contributor

What we can pool: the L0

To interoperate and trust, agree on

- How rules are verified, and the level of proof we accept: contract, consent, onboarding
- Onboarding criteria
- Offer models (data, services) and contract models
- Value exchange between data spaces

And commit to it

- How the L0 evolves: its governance
- Each data space implements it, with checks
- Commitments and prerogatives for those who do
- The incentive: interoperate with all the others who did

From a generic L0 to a committed federation

2025 · DSIF
Data spaces start federating around interoperability

2026 · DS4SKILLS AND PEERS
Roles and obligations agreed with CEADS, DS4SSCC, DEPLOYTOUR, LDS, HDT, Technè, Location DS

OTHER INPUTS
14 data spaces in the DSSC work, other rulebooks and sources

DSSC RULEBOOK ACCELERATOR

L0 v0

Generic and non-binding: a support tool for any data space

builds on

feedback

DSIF · A FEDERATION OF DATA SPACES

1 Augment the L0 and set the values

2 Implement and test it

3 Verify: checks, incentives, penalties

4 Govern and evolve it together

DS4Skills | CEADS | DS4SSCC | DEPLOYTOUR

HDT | LDS | Technè | Location | + you

First DSIF federation
L0 instantiated and voted by 19 April 2027

The L0 today, and what a federation must add

DSSC register v0.1 (23 Oct 2026): 36 records, 4 core roles; 9 agreed, 13 provisional, 5 candidate, 9 examples

TOPIC	THE DSSC L0 DRAFT PROPOSES	WHY IT MATTERS ACROSS DATA SPACES, AND WHAT TO AGREE
Governing the L0	Public, versioned rules (M0.principle.03, agreed); change process (M1.change.01, example)	Without joint governance, local rulebooks diverge. Agree who proposes, votes and can block changes to the shared L0.
Onboarding checks	Minimal checks exist for each role (M1.eligibility.01)	Without mutual recognition, a participant may be checked again in every data space. Agree accepted evidence and assurance levels.
Offers and contracts	Catalogue profile and checks (M3.catalogue.01, example); contract model still draft	An offer or contract valid here can be refused there. **Agree on the shared profile and who validates it.**
Transaction record	Transaction fields, no payload (M4.logging.01, example)	Different logs weaken cross-space proof. Agree who logs, the common schema, retention and who may read.
Enforcement and assurance	Checks, evidence, assurance (M4.assurance.01, agreed); mutual recognition optional (M1.trust.05, draft)	Without a shared baseline, partners repeat audits. Agree enforcement and assurance minimums by risk and accepted proof.

Towards the first DSIF federation · target 19 April 2027

WHO

8 data spaces in the



- Different sectors and stacks
- Centralised and decentralised
- Already linked by projects

WHAT WE DECIDE

Proposed: a binding V1 DSIF L0

- Shared rules
- How they are verified
- Rights and duties of members
- How the L0 evolves

WHAT IT IMPLIES

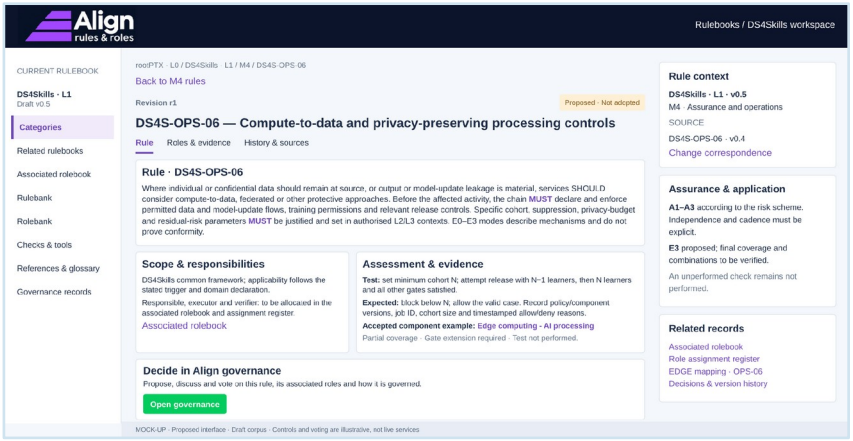
Duties and benefits

- Members implement the agreed L0
- Checks recognised at agreed assurance levels
- One shared baseline, not one per project

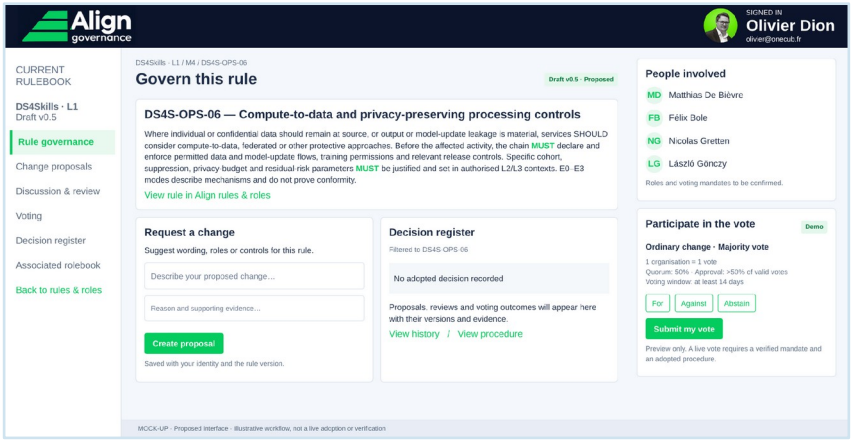
Target 19 April 2027: L0 V1 vote and federation launch

Your data space?

Views: navigate, check and govern the rules



Read a rule: scope, assessment, evidence, links



Govern it: propose, review and vote on a change

Mock-ups · every rule keeps the same structure from L0 to L3: Rule, Evaluation, References

OPEN DOOR

Shape the L0 and commit to it

First feedback: what do you think of the topics the L0 must settle?

Offers, contracts, mandatory checks, evidence, accepted certifications

Commit: join the forum and the vote on the L0 V1 by 19 April 2027

The data spaces that commit implement it on their side

Already working on rulebook interfaces or tooling?

Machine-readable rulebooks, role views, governance tools: add it on the Mural

Replicable in any data space. Already discussed with DS4Skills, HDT, LDS, Technè and Location Data Space. Add your interest on the Mural now.

03

From rules to machine-readable records

Félix Bole · Visions, Prometheus-X

Machine rulebook

What we ask you: The architecture of the machine-readable rulebook, and translating the rules

Rules and standards

Open source building blocks

Implementations

VISIONS

From rules to enforcement

Today

- A PDF the provider has to trust
- Checks done by hand, if at all
- No proof attached to each exchange
- Every data space rewrites the same rules

What we need

- Rules a machine can read
- The right building block activated
- Evidence produced at every exchange
- One translation, shared by all

Every rule is a record in the rule bank


```
{
  "@id": "ptx:rule/L0-RELEASE-THRESHOLD",
  "title": "Minimum group size for aggregated results",
  "statement": {
    "en": "A service provider shall not release
aggregated results computed on fewer individuals than the
minimum group size."
  },
  "strength": "MUST",
  "deonticType": "prohibition",
  "accountable": ["role:service-provider"],
  "executor": ["role:service-provider"],
  "level": 0,
  "pattern": "release-threshold",
  "parameters": [
    {"name": "minCohortSize", "datatype": "integer",
"case": "open", "setAt": 1, "stricter": "higher"}
  ],
  "parent": null,
  "buildingBlock": ["Data access"],
  "enforcementClass": "E3",
  "assuranceLevel": "L2",
  "control": "The release gate refuses results below the
threshold; gate logs reviewed on sample"
}
```


snippet of the L0-RELEASE-THRESHOLD rule. Full rule on the Rule Bank.

What it says

Statement, strength, obligation or prohibition, roles bound

Where it sits

Level, parent rule, parameters and who sets them

How it is enforced

Building block, machine-readable expression

How it is proven

Control, evidence and who may see it

From L0 to the contract: values, not copies

xapi4research

1 L0 defines the rule and leaves the value open

```
"@id": "ptx:rule/L0-RELEASE-THRESHOLD"
"minCohortSize": open, set at L1
"check": "cohortSize >= minCohortSize"
```

2 L1 DS4Skills points to it and sets a floor

```
"@id": "ptx:profile/ds4skills"
"rules": [L0-RELEASE-THRESHOLD, ...]
 "minCohortSize": 10
```

3 L2 xapi4research raises it and adds the EBA rule

```
"instanceOf": "ptx:profile/eba"
"minCohortSize": 20
"minContributors": 3,
"maxDominanceShare": 0.5
```

4 L3 the contract EdTech and commons carries the values

```
"dsif:sourceRule": [L0-RELEASE-THRESHOLD, ...]
"minChohortSize": 25,
"minContributors": 3,
“maxDominanceShare”: 0.5
```

Demo: the contract in VisionsTrust



The rule in text



Its technical version



Signed by the EdTech and the commons

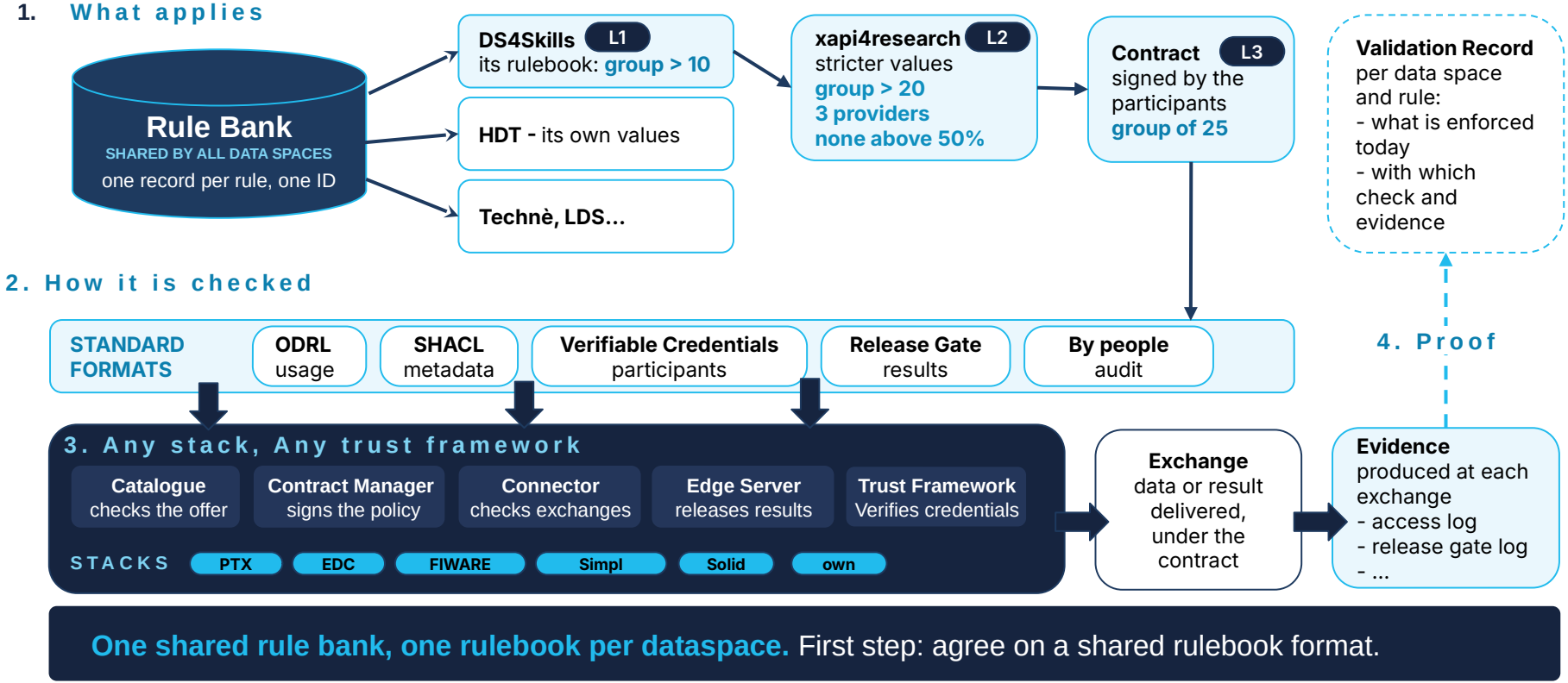


Read by the connector at each exchange

Live: the contract carrying the group size rule

A rulebook architecture to reuse

xapi4research



One shared rule bank, one rulebook per dataspace. First step: agree on a shared rulebook format.

A shared format makes rules interoperable



20 out of 35 L0 rules already translated in the rule bank. Come and translate the remaining rules with us. The format is being discussed with DS4Skills, HDT, LDS, Technè and Location Data Space.

OPEN DOOR

Code: github.com/Prometheus-X-association/rulebank

Challenge the model, translate with us

What do you think of the architecture and the rule model?

Is anything missing for your data space or your stack?

20 out of 35 L0 rules translated: help translate the rest

And bring your own rules to the rule bank

Shape the governance of the rule bank

Who maintains it, how entries are proposed, reviewed and adopted

Replicable in any data space. Already discussed with DS4Skills, HDT, LDS, Technè and Location Data Space. Add your interest on the Mural now.

04

The connector applies the rules

Nicolas Gretten · Visions

Connector

What we ask you: Augment the connector so that it checks and verifies that rules are respected

VISIONS

Rules and standards

Open source building blocks

Implementations

Target: the connector applies the rules

xapi4research

Read the contract

Rules and values linked to their source

Find what applies

Which checks, which building blocks

Trigger or verify

The component that enforces the rule runs

Get the proof

Proof returned, signed and logged

Transfer, or refuse

Data moves only if every check passed

Example · the contract carries "group of at least 25 pupils". No proof from the Edge Node Server, no exchange.

A PTX exchange today

Trigger

The provider triggers the exchange: contract, resource, purpose or service chain ID

Check, export

Provider connector verifies the signed contract and enforces its policies

Pull

Data pulled from the provider's resource

Push

To the consumer connector

Check, import

Consumer connector verifies the contract and its policies

Contract service: signed contract and ODRL policies, checked on both sides

Rule enforcement: where we are

Integrated today

- Policy Enforcement Point (PEP): read and validate rules from a contract, continue or stop exchanges
- Data Value Chain Tracker: monitors and distributes digital incentives for data usage.
- Data Veracity Assurance: allows to agree on and later prove/verify quality requirements or properties of the exchanged data.
- Control / data plane separation: to include any enforcement service

Next steps

- How the connector can verify rules from a rule book
- How the connector can use any enforcement rule component

Collaborate

- PEP Specification definition
- PEP Standardized logics to understand rules and verify proofs

OPEN DOOR

Code:
github.com/Prometheus-X-association/dataspace-connector

Augment the connector with us

Co-contribute to the PEP specification

Write specification, review the development, comment and approve

Co-contribute to the PEP development

Library-based design, integrations with enforcement components, proofs, facilitate its reuse

What do you think of the rule-check flow?

Read the contract, trigger the right components, wait for the proof, exchange

Replicable in any data space. Already discussed with DS4Skills, HDT, LDS, Technè and Location Data Space. Add your interest on the Mural now.

05

Edge Node Server: end-to-end demo

László Gönczy · BME, Prometheus-X



Edge

What we ask you: Develop together the components that apply and verify the rules at the source

VISIONS

Rules and standards

Open source building blocks

Implementations

On sensitive cases, processing stays local

L0 RULE TYPES · EVERY DATA SPACE

Local processing

Run the analysis where the data lives

Anonymisation before release

Nothing identifiable leaves

Release threshold

Aggregates only above a group size

Health cohorts · building data · ticketing · learning traces

IN XAPI4RESEARCH

Convert and map

Traces in xAPI, exercises mapped to the shared referential

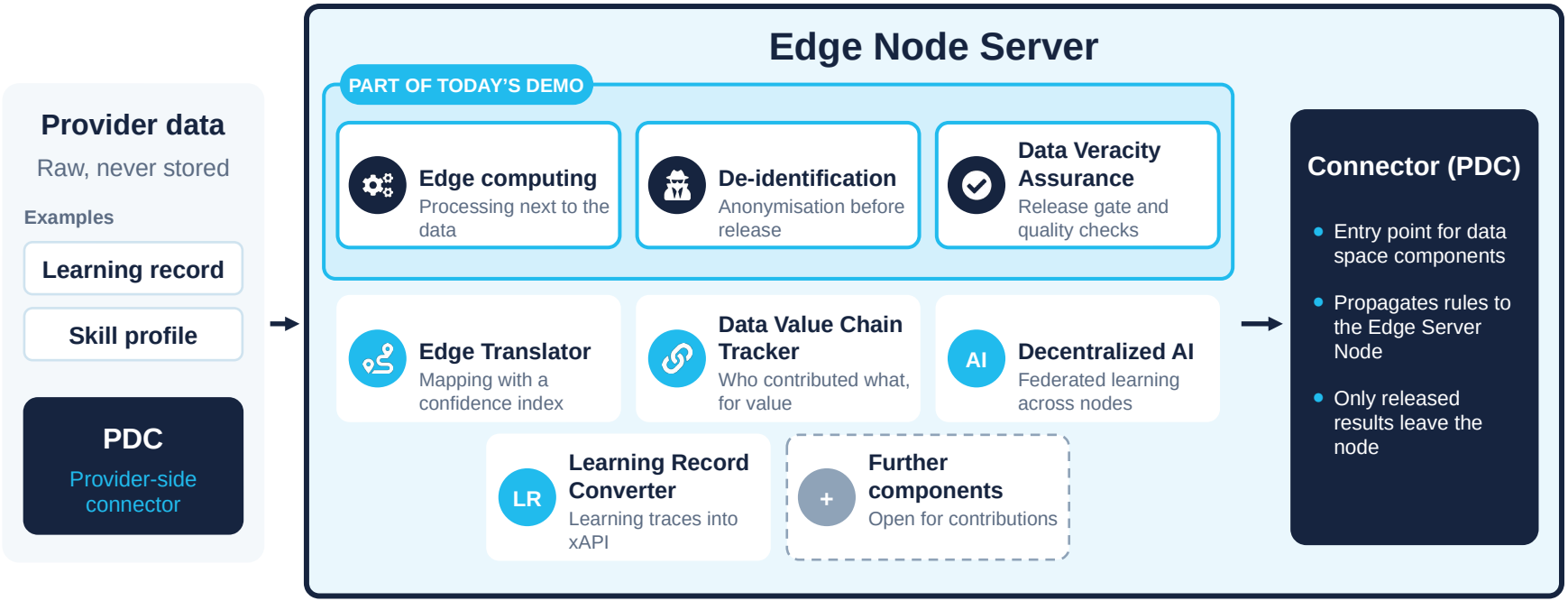
Anonymise

Identifiers removed, timestamps coarsened, no free text

Release check

E3 · executed by the Edge Node Server

Inside the Edge Node Server



COMMUNITY BEHIND

Prometheus-X · Visions · BME · Inokufu · Headai · IMC · Loria · AffectLog · Rejustify · *more partners to come*

CLOUD PROVIDERS

Outscale · Orange Business

Demo: the whole chain

xapi4research



Learning traces
At Tutorlink (EdTech)

Prepare
Anonymise and map at LearnHarbor

Release gate
Group size ≥ 25

Connector
Contract checked, exchange logged

Commons
Anonymised aggregates

Research
xAPI for Research

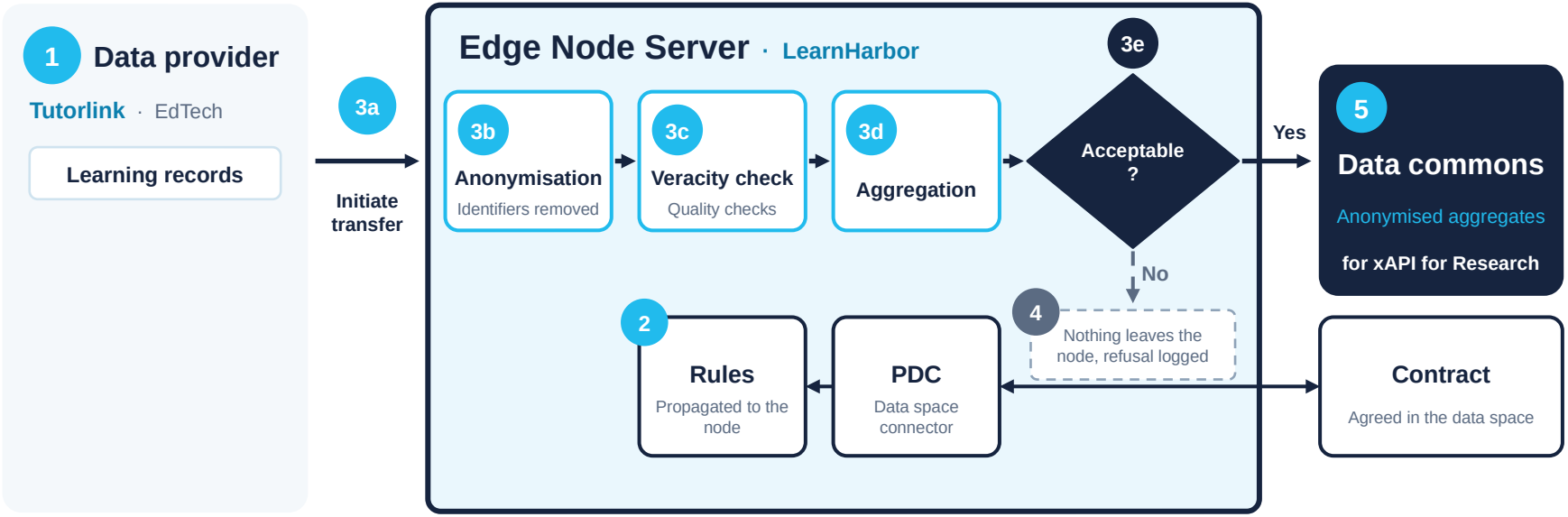
Below the threshold

Fewer than 25 in the group: the gate refuses, the refusal is logged, nothing leaves the node.

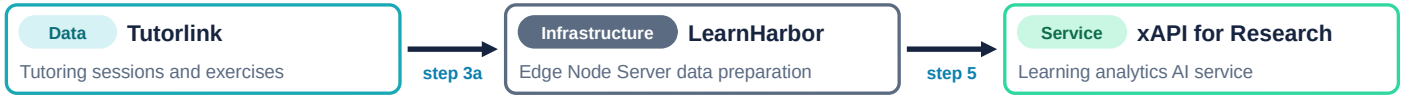
Above the threshold

The aggregate is released with its proof; the connector lets it through and records the contributions.

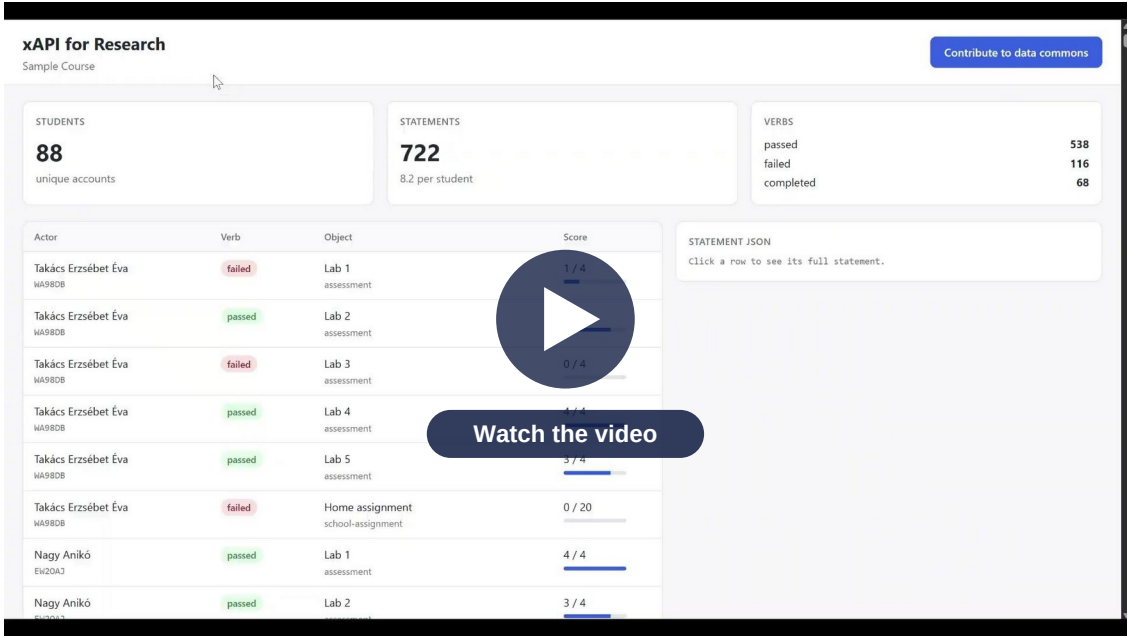
Demo flow: from provider to data commons



SERVICE CHAIN
in the catalog



Demo video 1: Data source



DEMO ORDER

1. **Data source · Tutorlink**
2. Rule definition
3. Edge server execution with release check
   - 3a · Initiate transfer
   - 3b · Anonymisation
   - 3c · Veracity check
   - 3d · Aggregation
   - 3e · Release check
4. Failed rule execution
5. Data received at the data commons

SERVICE CHAIN
we are here →

Data Tutorlink
Tutoring sessions and exercises

step 3a

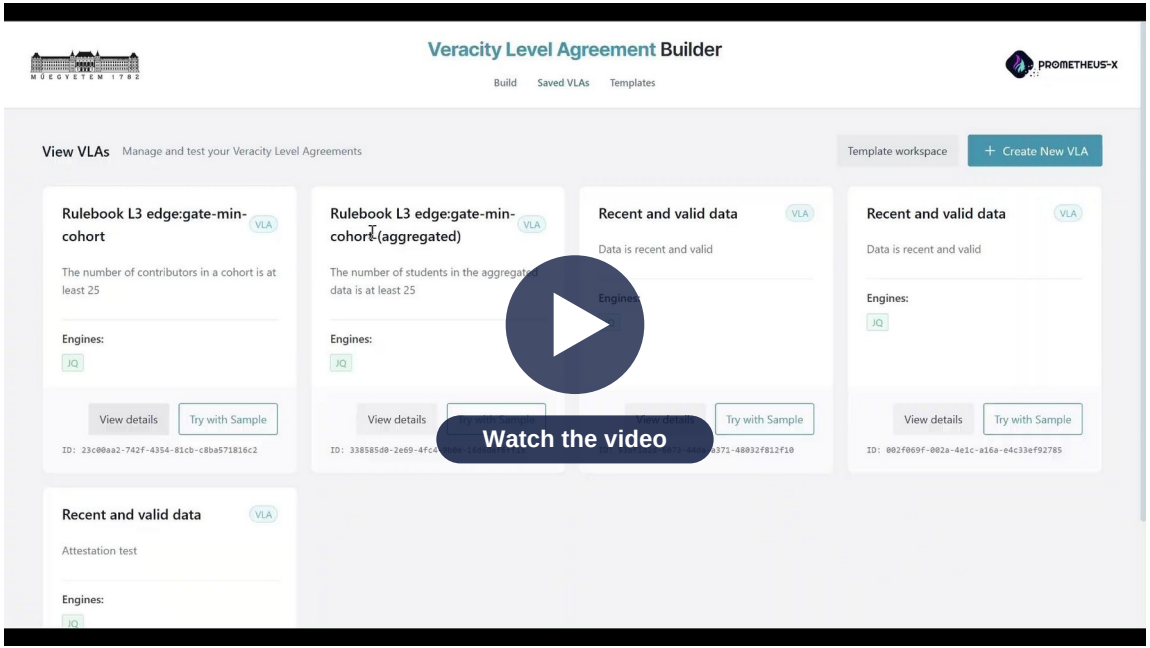
Infrastructure LearnHarbor
Edge Node Server data preparation

step 5

Service xAPI for Research
Learning analytics AI service

Video 1 · The data source: Tutorlink's tutoring sessions and exercises, first in the catalog service chain.

Demo video 2: Rule definition



DEMO ORDER

1. Data source · Tutorlink
2. **Rule definition**
3. Edge server execution with release check
   - 3a · Initiate transfer
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SERVICE CHAIN
we are here →

Data · Tutorlink
Tutoring sessions and exercises

step 3a

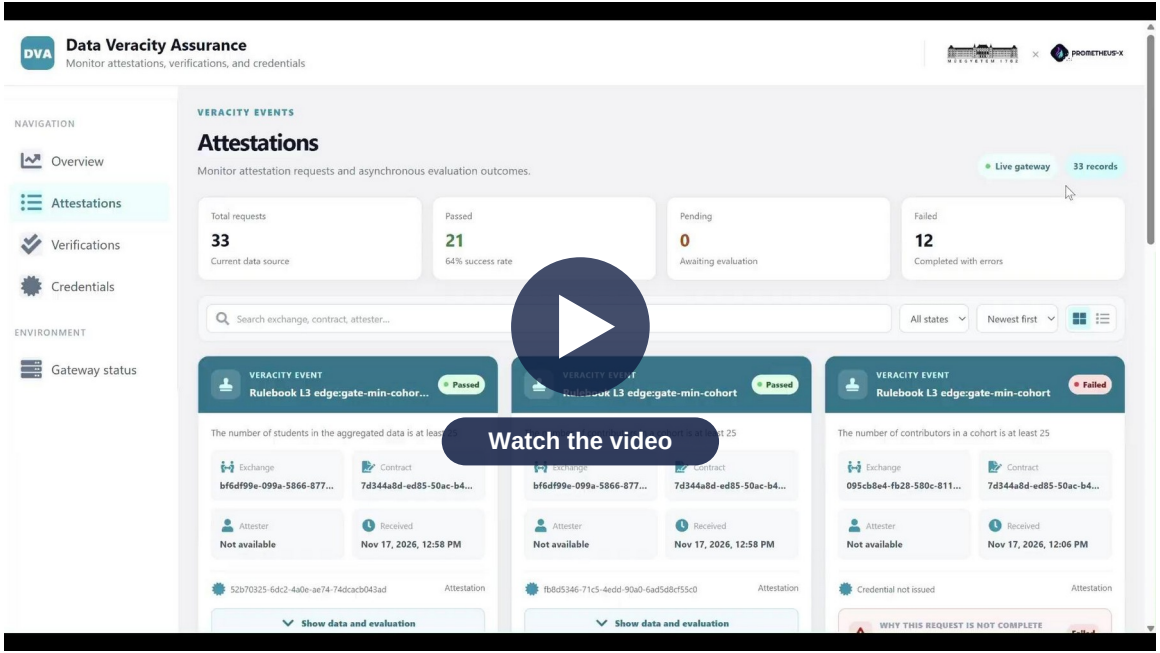
Infrastructure · LearnHarbor
Edge Node Server data preparation

step 5

Service · xAPI for Research
Learning analytics AI service

Video 2 · The release rule (group size ≥ 25) is defined before the data is processed.

Demo video 3: Successful rule execution



DEMO ORDER

1. Data source · Tutorlink
2. Rule definition
3. **Edge server execution with release check**
   - 3a · Initiate transfer
   - 3b · Anonymisation
   - 3c · Veracity check
   - 3d · Aggregation
   - 3e · Release check
4. Failed rule execution
5. Data received at the data commons

SERVICE CHAIN
we are here →

Data · Tutorlink
Tutoring sessions and exercises

step 3a

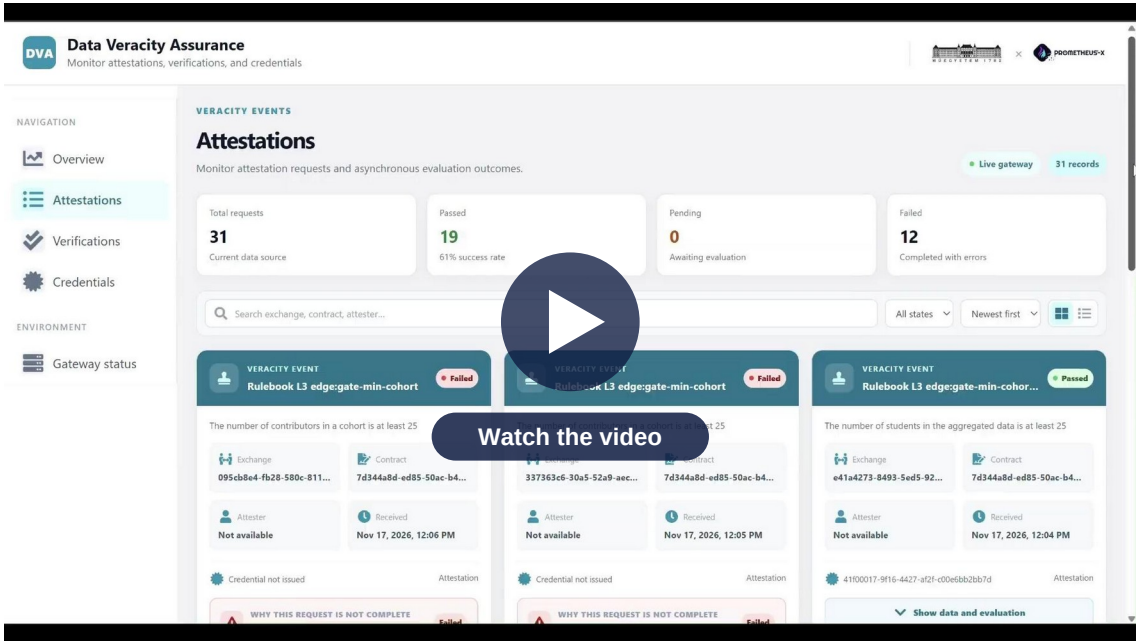
Infrastructure · LearnHarbor
Edge Node Server data preparation

step 5

Service · xAPI for Research
Learning analytics AI service

Video 3 · Above the threshold: the data is prepared on the Edge Node Server and the release check passes.

Demo video 4: Failed rule execution



DEMO ORDER

1. Data source · Tutorlink
2. Rule definition
3. Edge server execution with release check
   - 3a · Initiate transfer
   - 3b · Anonymisation
   - 3c · Veracity check
   - 3d · Aggregation
   - 3e · Release check
4. **Failed rule execution**
5. Data received at the data commons

SERVICE CHAIN
we are here →

Data · Tutorlink
Tutoring sessions and exercises

step 3a

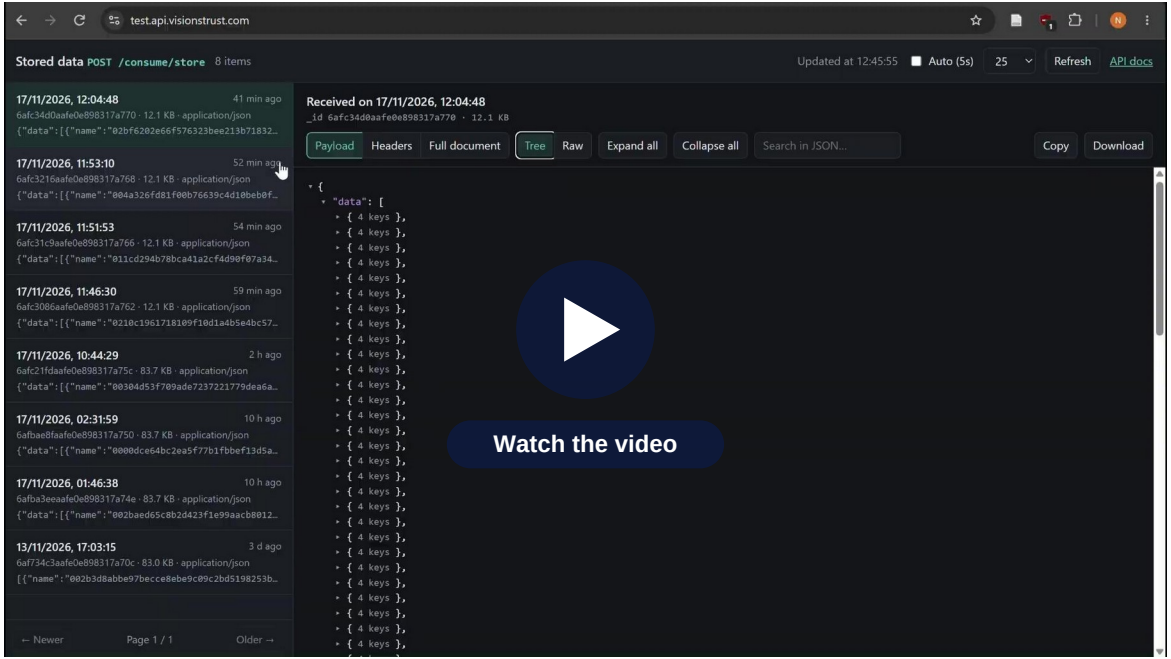
Infrastructure · LearnHarbor
Edge Node Server data preparation

step 5

Service · xAPI for Research
Learning analytics AI service

Video 4 · Below the threshold: the release check fails, nothing leaves the node and the refusal is logged.

Demo video 5: Data at the commons



DEMO ORDER

1. Data source · Tutorlink
2. Rule definition
3. Edge server execution with release check
   - 3a · Initiate transfer
   - 3b · Anonymisation
   - 3c · Veracity check
   - 3d · Aggregation
   - 3e · Release check
4. Failed rule execution
5. **Data received at the data commons**

SERVICE CHAIN
we are here →

Data · Tutorlink
Tutoring sessions and exercises

step 3a

Infrastructure · LearnHarbor
Edge Node Server data preparation

step 5

Service · **xAPI for Research**
Learning analytics AI service

Video 5 · The anonymised aggregate arrives in the data commons, ready for xAPI for Research.

What runs today, and what comes next

Runs today

- xapi4research chain end to end on the node
- Release gate driven by the contract values
- Refusals and releases logged as evidence

Limitation
First PoC with fixed logic

Extensions

- Federated learning **(already integrated)**
- Additional data transformation steps
- Configuration workflow for node operation
- Advanced use of edge computing to support scalability

OPEN DOOR

Pool the edge effort in open source

WHAT WE ARE LOOKING FOR

Components for compute-to-data and anonymisation
Bring yours, or help harden ours

Mapping and data veracity at the edge
Referentials, confidence indexes, quality checks

Standards and deployments
Cloud operators and providers who want to run nodes for their sector

WHY IT IS WORTH IT FOR YOU

Plug in once, reuse in every data space
One node runtime, with the PDC as entry point and rules propagated to it

Test on real pilots
Learning traces, health cohorts, building data and ticketing use cases

Decentralized AI at the edge
Federated learning already integrated: bring your models and methods

Replicable in any data space. Already discussed with DS4Skills, HDT, LDS, Technè and Location Data Space. Add your interest on the Mural now.

06

Interoperability across data spaces and stacks

Félix Bole · Benoit Alessandroni, StartinBlox · Juanjo Hierro, Seamware

DSIF contracts

What we ask you: The contract model and the contract action model, across stacks

VISIONS

Rules and standards

Open source building blocks

Implementations

DSIF: Overview

DSIF CORE TEAM PARTNERS

















DSIF: minimal bridges, no imposed stack

THE PROBLEMS

- Each ecosystem runs its own stack.
- An offer in one data space is not visible from another.
- Contracts do not cross stacks.
- Consent and identity do not follow the data.
- A participant recognised in one trust framework is unknown in another.
- Each new pair of ecosystems means a new custom integration

IMPLEMENTATIONS · EACH KEEPS ITS OWN

PTX | EDC | FIWARE | Simpl | Solid

DSIF: the minimal bridges between them

Discover | Contract | Consent | Identity

STANDARDS

DCAT | ISO/IEC 27560 (consent) | OID4VC

We replace no implementation: we agree on the minimum to connect

Next frontier: across data spaces and stacks

xapi4research

xapi4research

DS4Skills · Prometheus-X stack

Pupils' learning traces, by competence and level

Does media use help learning?

a cross-data-space question

TEMS

Media data space · EDC stack

Consumption of educational and news media

Discover

Find TEMS media offers from the xapi4research catalogue

Contract

Agree across Prometheus-X and EDC, on one model

Consent

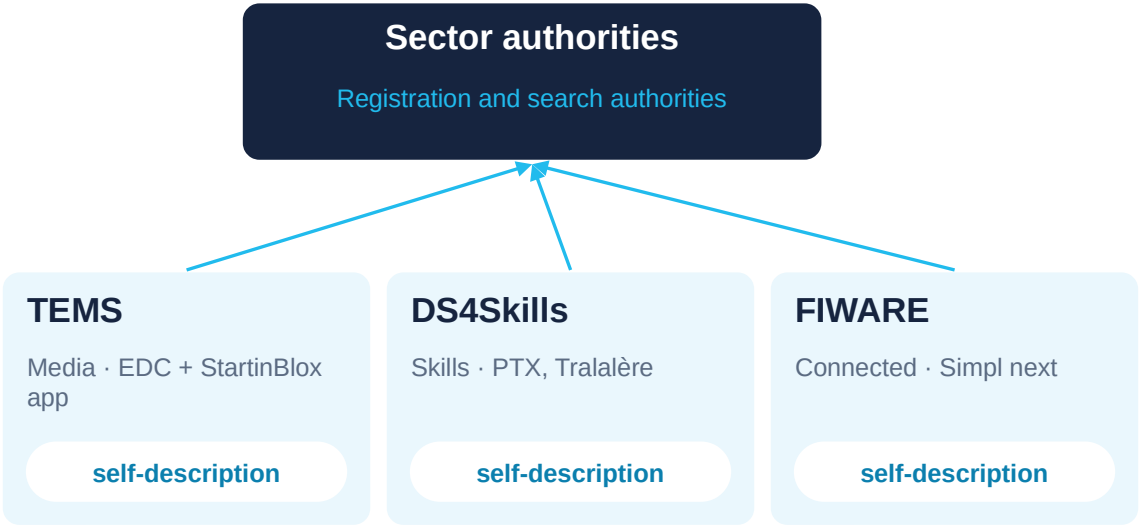
Parents' consent follows the data across the boundary

Catalogue federation

THE PROBLEM

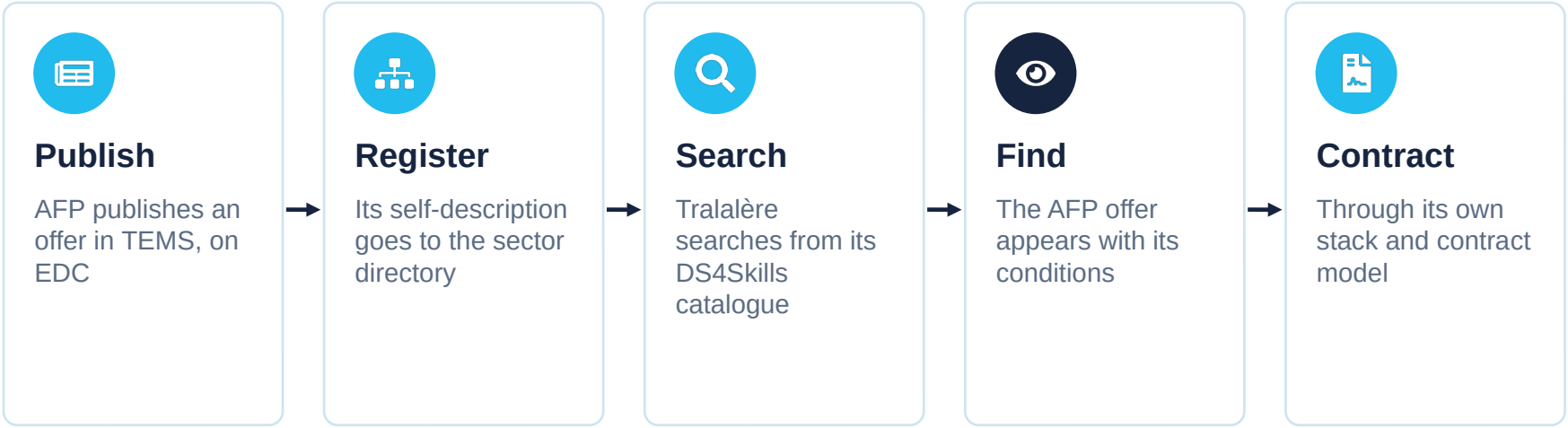
Offers stay invisible outside their data space.

Each catalogue describes them its own way, on its own stack.



Offers stay where they are. They become discoverable from any federated catalogue.

Demo: an AFP offer found from DS4Skills



Today: TEMS (EDC), DS4Skills (PTX), FIWARE

Next: Simpl

Contracts: one model, many styles

THE PROBLEM

Each stack contracts its own way.

A buyer on one stack cannot sign on another.

DSP negotiation

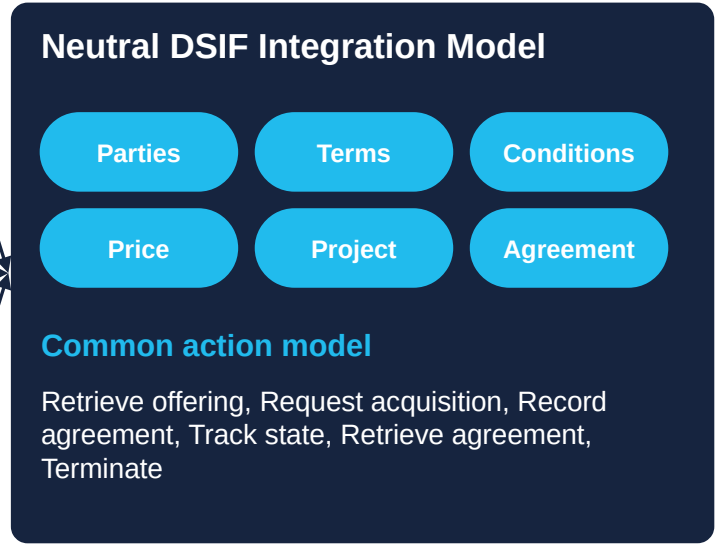
EDC

TM Forum purchase

FIWARE

Multi-party contract

Prometheus-X



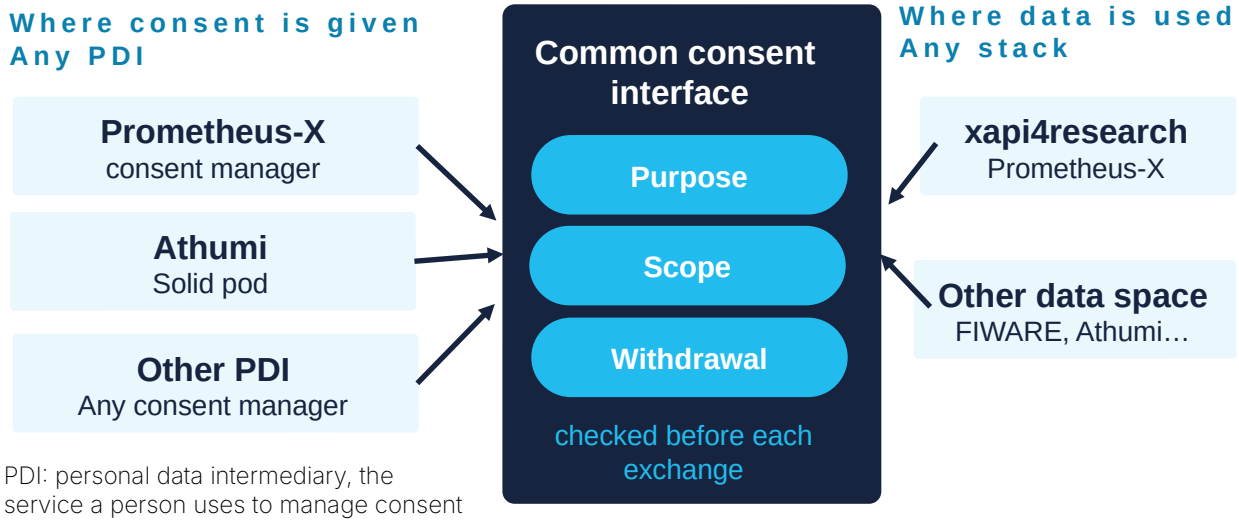
Mapped to existing standards; covers multi-provider projects

Consent checkable across ecosystems

THE PROBLEM

Consent stays in its ecosystem.

The receiving side cannot check purpose, scope or withdrawal.



PDI: personal data intermediary, the service a person uses to manage consent

Format

Record based on ISO/IEC 27560

Discovery & Identity

Check endpoint found through the self-description, as for catalogues.

Status

In progress: gap analysis, spec iterations

Taken up in standards

DSSC

Rulebook governance layers, contract fields, self-description for federation

CEN-CENELEC JTC 25

Trusted Data Transactions: discovery services, consent questions and fields

Gaia-X

Contract clauses being contributed to the data access contract ontology and support for multi-party contracts in discussion

What we build in the open becomes the shared reference for data spaces

OPEN DOOR

Bring your cross-data-space cases

What do you think of these bridges? What is missing for your stack?

Catalogues, contracts, consent: tell us where it breaks

Join DSIF with a cross-data-space case

Implement the conventions and test them on a real case

Does consent need to follow your data?

Plug your consent manager into the common interface

Replicable in any data space. Already discussed with DS4Skills, HDT, LDS, Technè and Location Data Space. Add your interest on the Mural now.

07

Next steps: a data space assistant

Matthias De Bièvre · Visions, Prometheus-X

Assistant

What we ask you: Say what it should do, test it, and provide data to train it together

Rules and standards

Open source building blocks

Implementations

VISIONS

Many rules, many offers: where to start?



Which offers fit my need?



Which rules apply to my project?



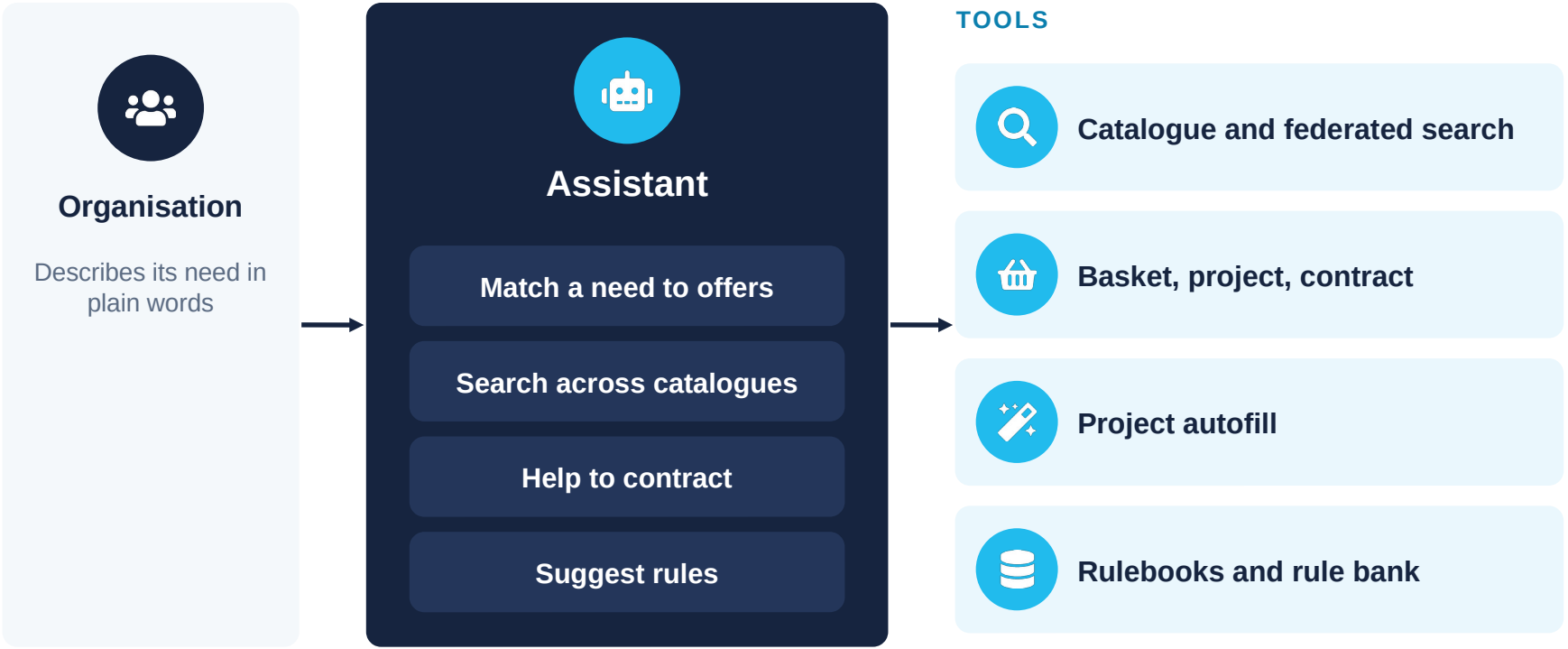
What must I check and prove?



How do I contract, quickly?

Friction moves from the technology to finding, understanding and applying the right rules

An open assistant for data spaces



The more we pool, the better it recommends

TODAY

Public data

- 15,000 data offers from public catalogues
- About 50 use cases from 8 sectors

Suggests offers from our data spaces, and generic use cases

TODAY

DS4SKILLS DATA

- Contracts and rules from our systems
- How the rules are enforced

More precise, but limited to the data spaces we run

IF WE POOL

Data from all data spaces

- Contracts and transactions
- Which rule, enforced how
- Which use case needs which rule
- What works, what fails
- Which use case fits which actor

Relevant offers, use cases and rules, for everyone

What we propose: pool this knowledge across data spaces. To decide together: scope, governance, business model

Demo: from a need to a governed project

xapi4research

1. Search

Need typed in plain words, offers and Edge Node Server proposed

2. Basket

Offers selected in the marketplace

3. Contract

Price and conditions per offer

4. Project

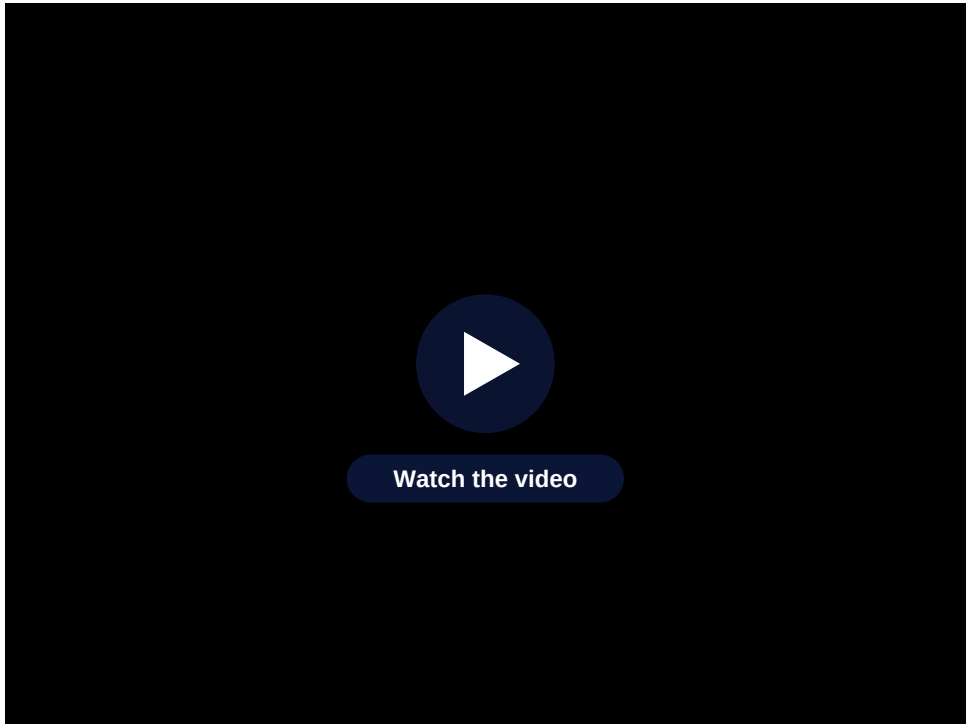
Created from the basket, autofilled from a description

5. Governance

Rules recommended by role from the xapi4research rulebook

6. Send

Project and contract request sent


Watch the video

OPEN DOOR

Build the assistant together

What would you like this assistant to do?

What you saw today, what is missing, what would help your data space

Pool your data to train it

Contracts, transactions, rules and how they are enforced, use cases, what works

Shape its scope, governance and business model

A data space for data space data, and a model for a commercial AI assistant

Replicable in any data space. Already discussed with DS4Skills, HDT, LDS, Technè and Location Data Space. Add your interest on the Mural now.

08

Workshop on the Mural

All speakers · 16:30

- Rules and standards
- Open source building blocks
- Implementations

VISIONS

Four ways to work with us

1 Join the first DSIF federation

With DS4Skills, CEADS, DS4SSCC, DEPLOYTOUR, TEMS, LDS, HDT, Technè and Location DS, agree on a rulebook for interoperability. Your cross-data-space case?

AVAILABLE L0 draft today, V1 vote on 19 April 2027

2 Make the rulebook machine-readable

Develop the rule format with us, translate the L0 and bring your own rules

AVAILABLE Rule bank on GitHub, 25 L0 rules translated

3 Build advanced edge computing blocks

Compute-to-data, anonymisation, and running a node in your data space

AVAILABLE Edge Node Server, demonstrated today

4 Shape the interoperability protocol

Catalogues, contracts and consent that work across stacks, enforced by the connector

AVAILABLE DSIF conventions, connector on GitHub

Start from a cross-data-space use case: the building blocks are already there. Add your sticky note on the Mural

Where do you want to contribute?

Rulebook	Rule bank	Edge	DSIF	Assistant
Olivier	Félix	László	Félix, partners	Matthias
Map your rules	Rule format	Compute-to-data	Federate catalogues	Pool knowledge
Validate the L0 with the 8 other data spaces	Translate rules	Anonymisation	Contracts	Test it
Test EBA	Bank governance	Run a node	Consent	Agent to agent

How the workshop works

5 MIN

Add your sticky notes

On the topics where you want to contribute, with your name

LIVE

Speakers pick one or two

And ask their authors to tell us more

AFTER

We come back to everyone

To discuss, in practice, how you take part

Every sticky note gets an answer, whether or not it is picked today

VISIONS PROMETHEUS-X

Thank you

Join the work on rules, building blocks, interoperability and assistance

visionspol.eu · prometheus-x.org · github.com/Prometheus-X-association