



ECLIPSE
DATASPACE

The problem of data discovery and data quality: How Dataspaces can help AI

Problem statement



AI's Data Challenge



Data discoverability

AI models can't easily find the right datasets



Data quality

AI depends on trustworthy, well-structured data



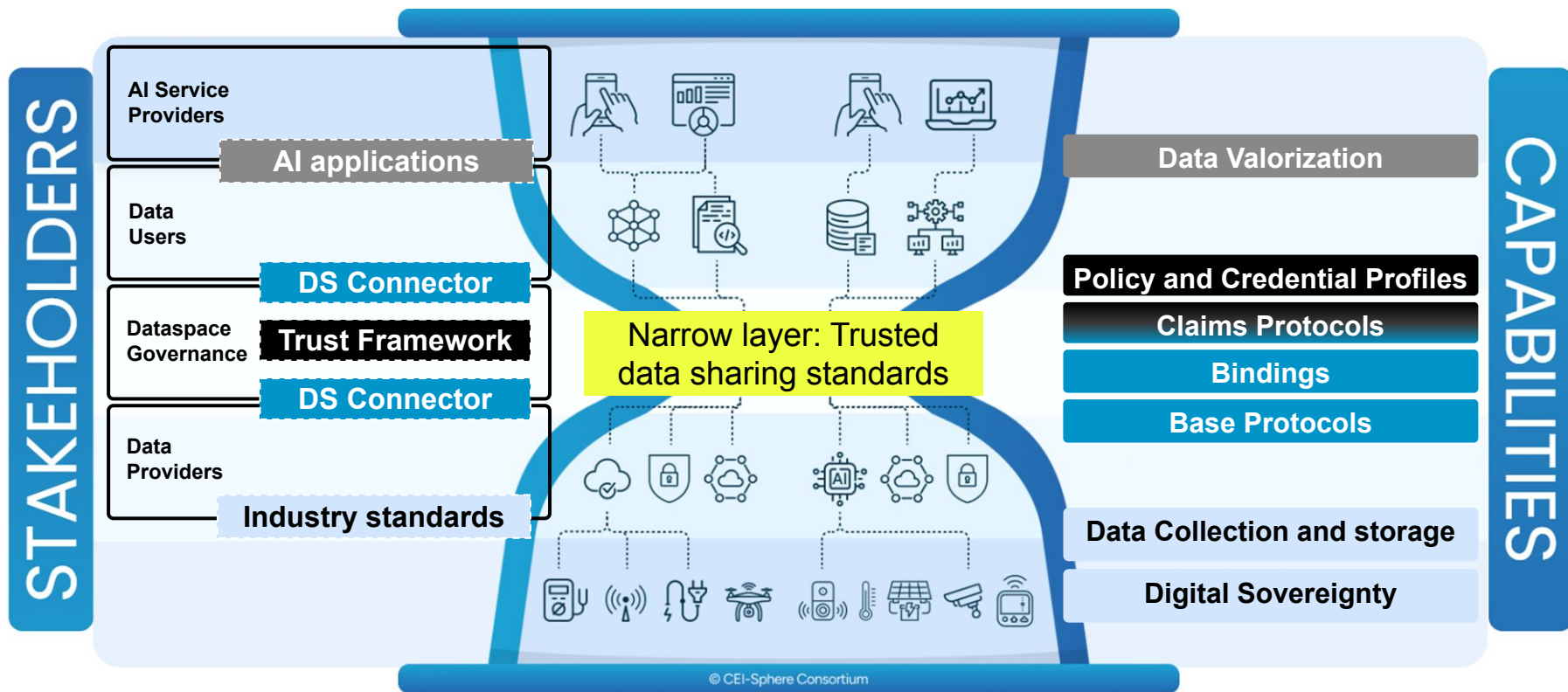
Fragmented silos

data is locked across organizations and domain

Dataspaces Solving AI's Pain Points



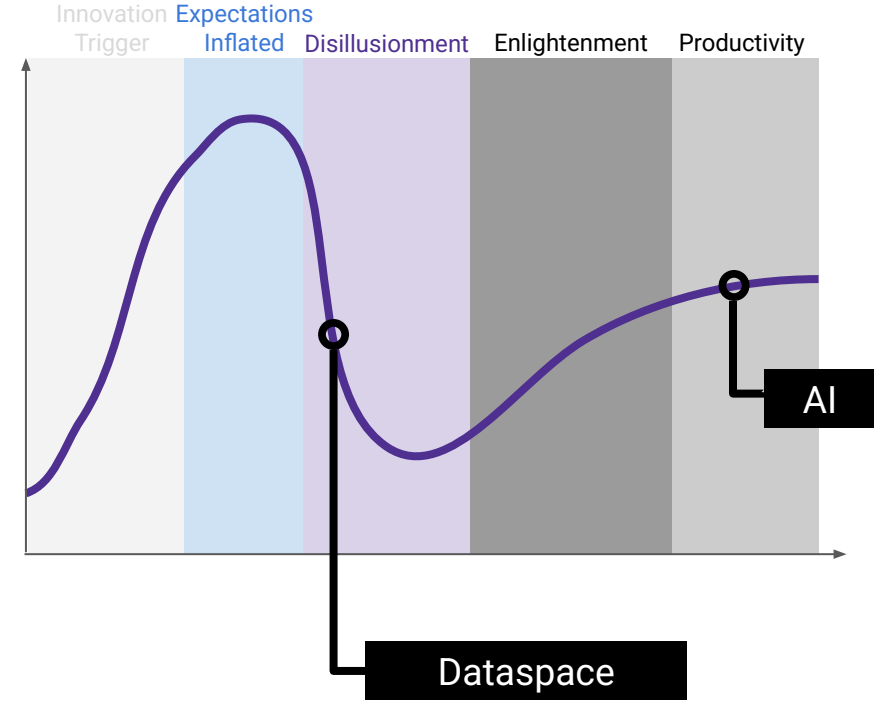
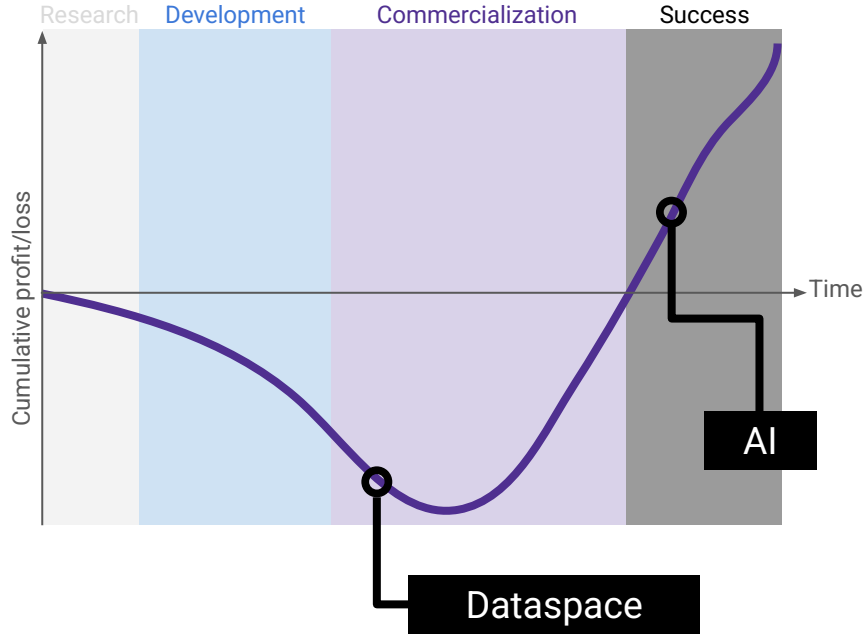
The hourglass model



Dataspaces, where are we?



Where we are?



The questions ahead of us

How can we collaborate to make sure we draft relevant standards taking all the views/needs of the ecosystem?

1

How can we guarantee interoperability among the different dataspaces?

2

3

How can we make sure, if we standardize, that those specifications will be adopted?

Working on Interoperability



Overview Current Specifications under EDWG

Planned PAS submission to ISO/IEC JTC1 SC38

- Eclipse Conformity Assessment Policy and Credential Profile (**CAP**)
- Eclipse Data Rights Policy Profile (**DRP**)

- Eclipse Dataspace Decentralized Claims Protocol (**DCP**)

- Eclipse Dataspace Protocol (**DSP**)

Policy and Credential Profiles

Define an ODRL policy model, subject format for verifiable credentials, and semantics associated with the former

Claims Protocols

Message protocols for proving the identity of, and claims about, dataspace participants

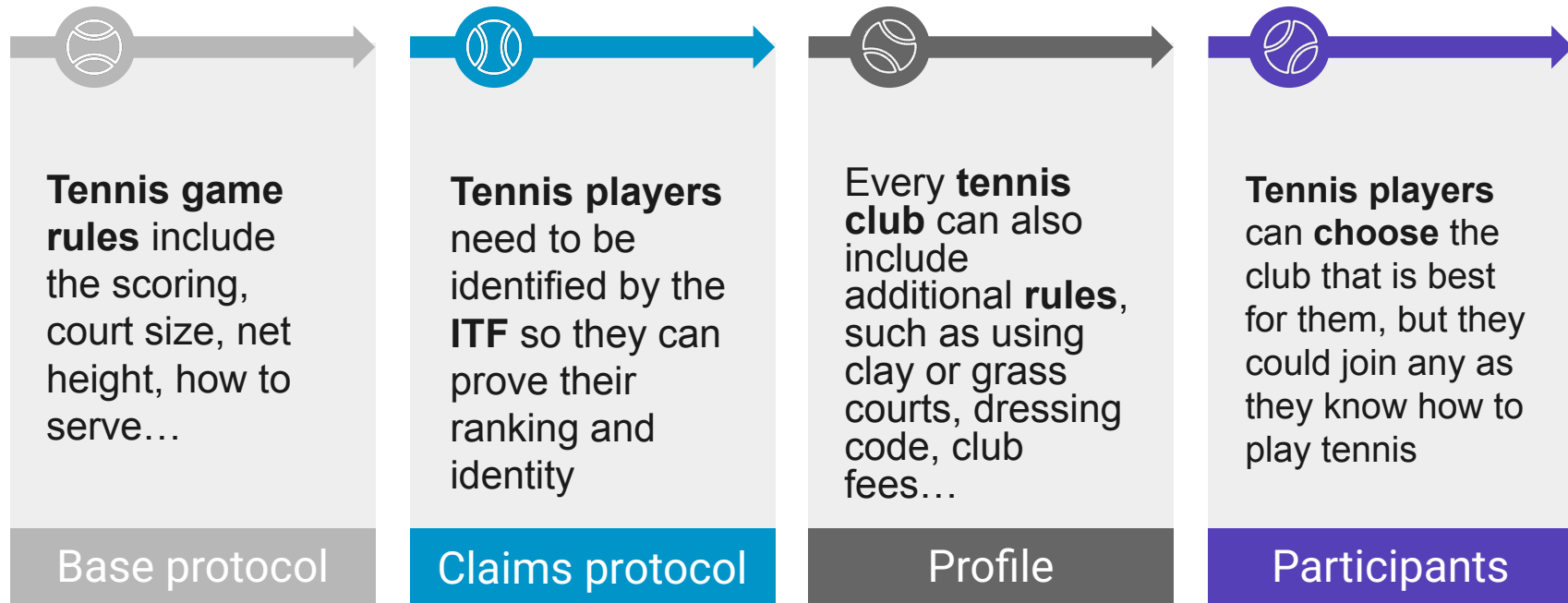
Bindings

Application of abstract message protocols to wire protocols such as HTTP

Base Protocols

Abstract message protocols for catalog, contract negotiation, and data transfer

Why do we need standards? The Tennis analogy



Credit for the analogy: Gianfranco Cecconi (IDSA)

How do these protocols fit into the full stack?

Dataspaces & Enabling Service Provider: Member Management, Observability, Connector-aaS, Marketplace

Gaia-X Trust Framework

iSHARE Trust Framework

Other Trust Framework

Conformity Assessment and Credential Profile (CAP)

Data Rights Policy Profile (DRP)

Dataspace Connector Implementations: Data Discovery, Claims Mgmt, Contract Negotiation, Data Planes

Dataspace Decentralized Claims Protocol (DCP)

**DCP
TCK**

Dataspace Protocol (DSP)

**DSP
TCK**

Certifications

Workflow & Architecture: Specification Projects

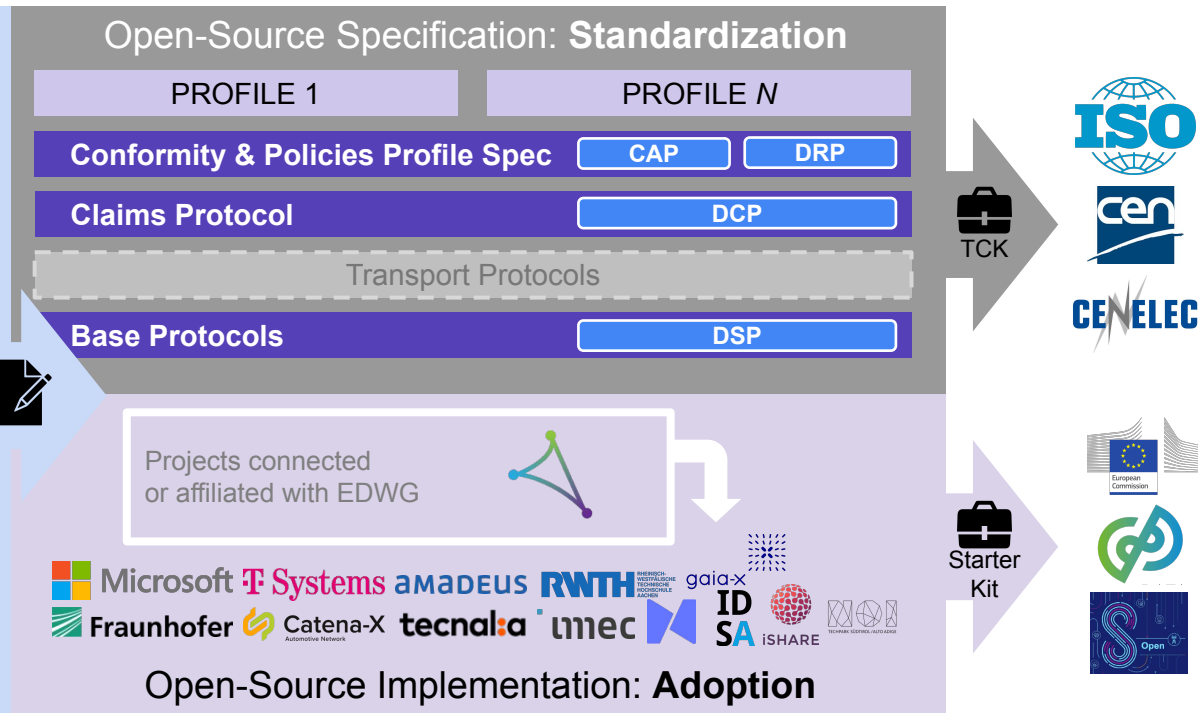
Data Act Chapter VIII

Interoperability - Article 33

-  Automatic access & transmission
-  Open formats & vocabularies
-  Find, access & use
-  Smart contracts

Interoperability - Article 36

-  Consistency
-  Safe termination/interruption
-  Robustness & access control



The value of EDWG membership

First to know



Be well informed strategically about what is happening on OSS projects for Dataspaces and evaluate potential impact

Standard supervisor



Be part of the decision making process regarding the specifications and eventual standardisation of Dataspace protocols

Interoperability master



Contribute on the way specifications/standards are globally harmonised for Dataspaces

My work matters



Be recognised as a thought leader in Dataspace implementation/specification
Contact other thought leaders

Giving back to the community



Support the coordination of the Dataspace OSS projects financially because you rely on them

Trusted developer



Certify your Dataspace modules to prove its compatibility with OSS specifications/standards

Implementation business advisor



Be part of the strategy facilitation for OSS implementation projects in Dataspaces

Useful material and references



Summary

Be at the forefront of the
Dataspace **standardization**

Help us build the **strategy** for the
Dataspace ecosystem

Join the **adopter community** of
Dataspace OSS solutions

Resources:

- [Charter](#)
- [Working Group Participation Agreement](#)
- [Working Group Process](#)
- [Working Group Operations](#)
- [Working Group Mailing List](#)
(open to public)
- [Working Group Web page](#)

Contact us!

Javier Valiño

Dataspaces Program Manager

javier.valino@eclipse-foundation.org

Thank you!