

INTERNATIONAL DATA SPACES

A TRUSTWORTHY ARCHITECTURE FOR THE DATA ECONOMY

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350 people
contributing

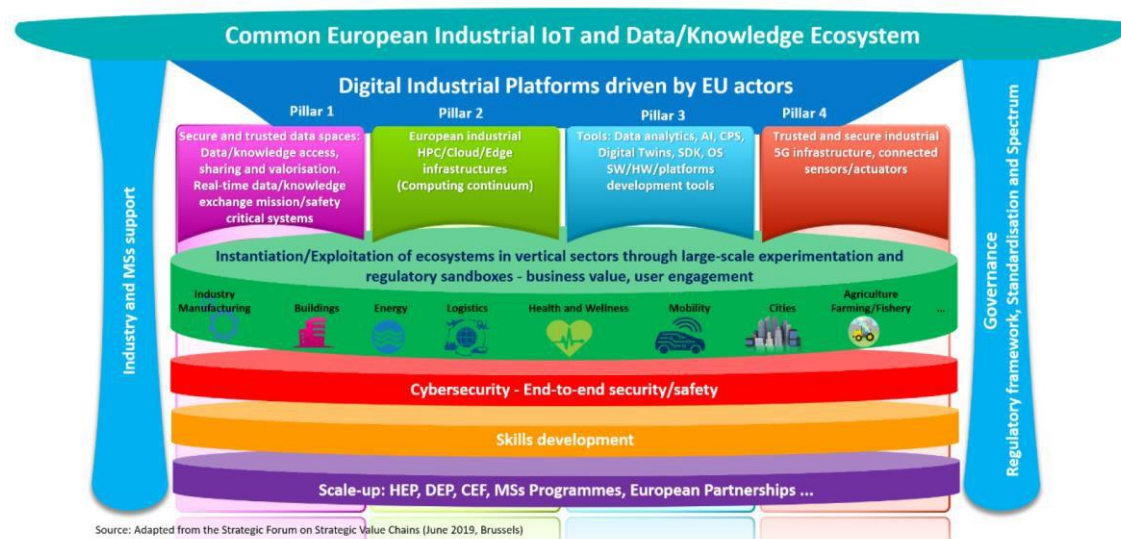
20 countries



100+

INTERNATIONAL DATA
SPACES ASSOCIATION





1 Much more data sharing, pooling, analytics, AI could take place in the manufacturing domain and other economic sectors (...) than what is currently happening.

2 Access to, and use of, relevant and high-quality data is widely recognized as the crucial element in the digital transformation and for exploiting artificial intelligence in industry.

If we want data be the oil for European industry, a common European data ecosystem is essential.

DATA ---

AN ECONOMIC ASSET

Trading with data creates huge revenues for some focal companies in an ecosystem, which tend to assume monopolistic attitudes.

Rarely, the creators of data are benefitting from this value in an adequate way.

Companies do not take advantage of the value.

Making data economy really a success, there is a need for a ...

- *vendor independent data ecosystem and market place*
- *connecting vendor-specific platforms*
- *open to all*
- *at low (transaction-) cost and*
- *easy to adopt and easy to use.*

———— WE ADDRESS THIS NEED.

IDSA reference architecture forms the base of

- *open, **distributed** data eco systems and market places,*
- *ensuring **data sovereignty** for the creator of the data,*
- *and **proven data-provenance** for the user of data,*
- *all above **audit-proof**, if requested*
- *based on **European values**.*



DATA TREASURES

ARE CREATED BY SHARING DATA

Linking data is the new oil of the data driven economy

Companies want to share data without regret

Stay in control over the flow of your data



Innovation by AI requires ecosystems

Data ecosystems require data

Semantic interoperability between platforms and ecosystems

DATA SHARING

IS BETTER THAN PLAYING ALONE



Governance for data sharing

Defining usage constraints

Trusted manipulation of data

DATA SPACES

CLEANROOMS FOR A PROSPERING DATA ECONOMY



Digital identities and certification

Usage Control and enforcement

Secure IoT gateways

TRUST BY DESIGN

SECURE INTERNET FOR THE ECONOMY



DATA SHARING REQUIRES

A COMMUNITY OF TRUST



Trustworthy identities

Cristal clear governance for data sharing

Data sovereignty



THE IDSA DEFINES...

1 Reference Architecture

2 Interfaces

3 Contractual Framework

4 Sample Code

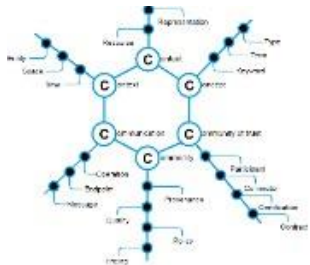
...FOR AN OPEN DATA-ECOSYSTEM.

INTERNATIONAL DATA SPACES APPROACH: SELF DETERMINED CONTROL OF DATA FLOWS



**Unlimited
Interoperability**

Enabled by semantic data
descriptions



Information Model



Trust between different
security domains

Certified, comprehensive security
functions providing a maximum level
of trust

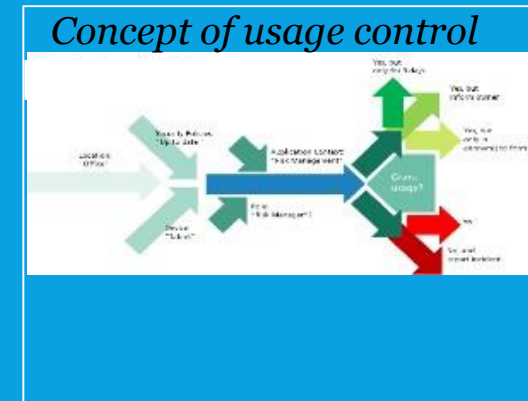


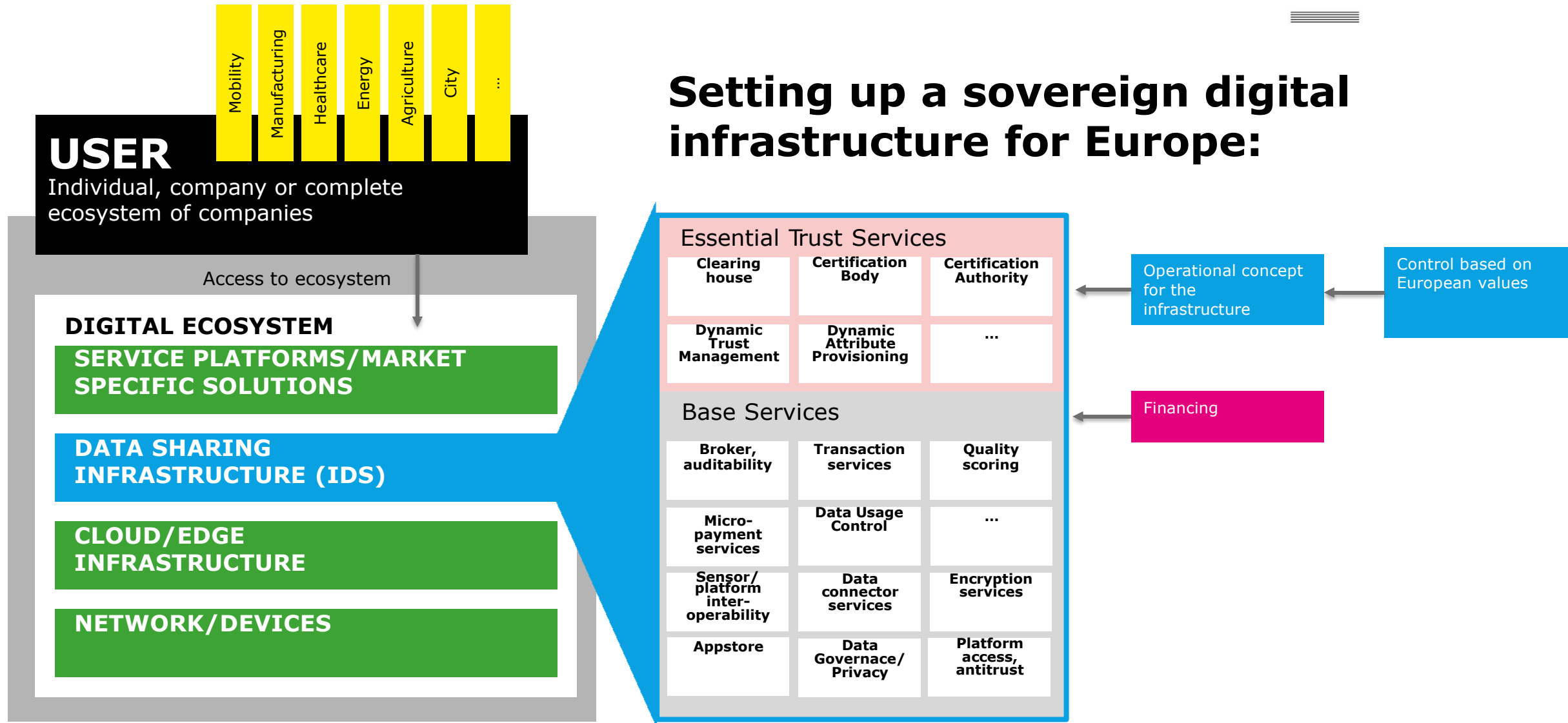
Certification Scheme



Governance for the
data economy

usage control and enforcement
for data flows







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