



DATA SPACES
SUPPORT CENTRE

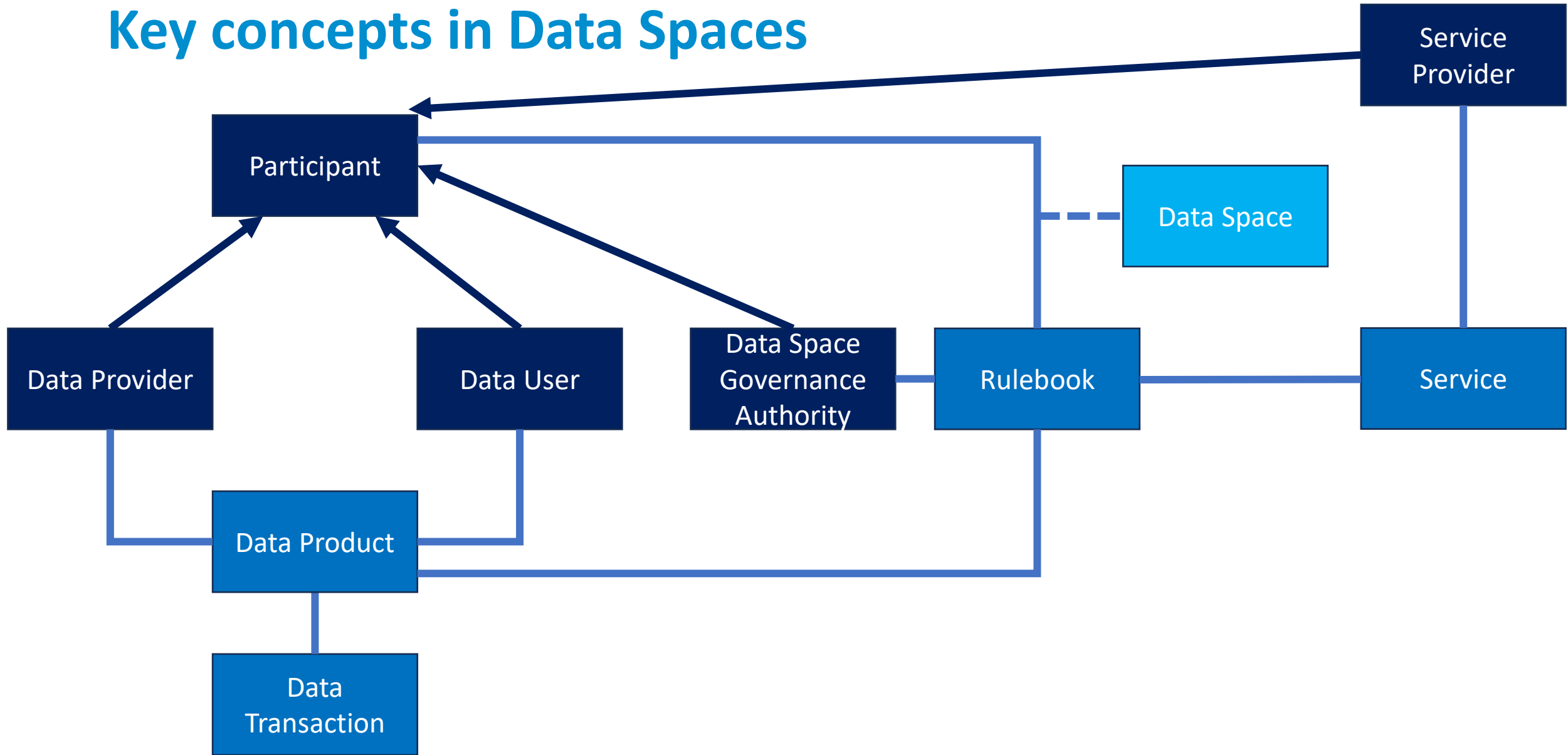
Insights from the DSSC: the European blueprint for building data spaces

The Data Spaces Support Centre receives funding from the European Union Digital Europe Programme under grant agreement n° 101083412.

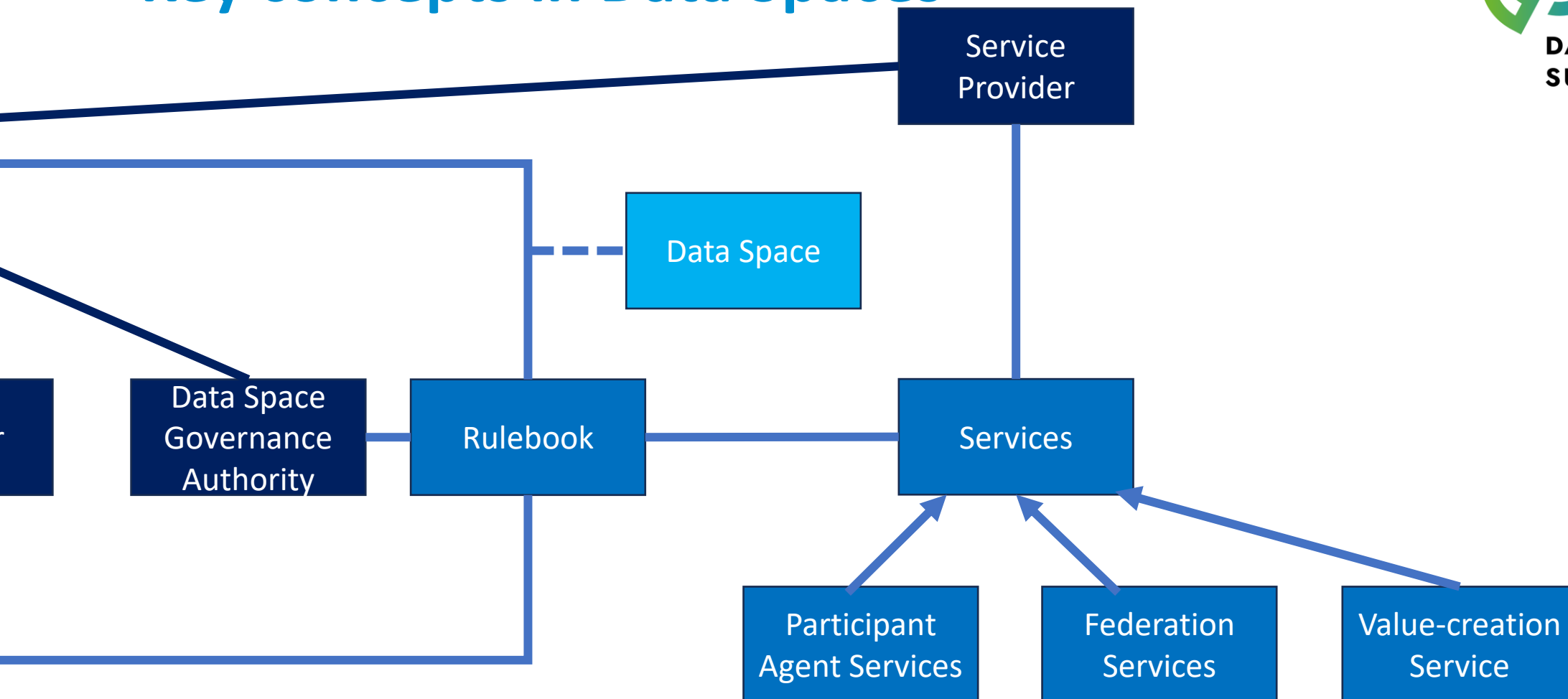


Funded by
the European Union

Key concepts in Data Spaces

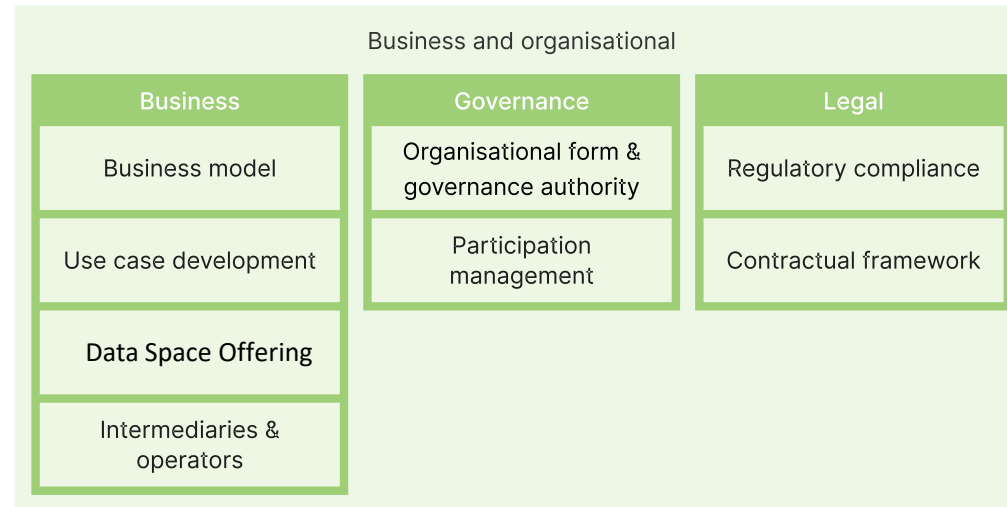


Key concepts in Data Spaces

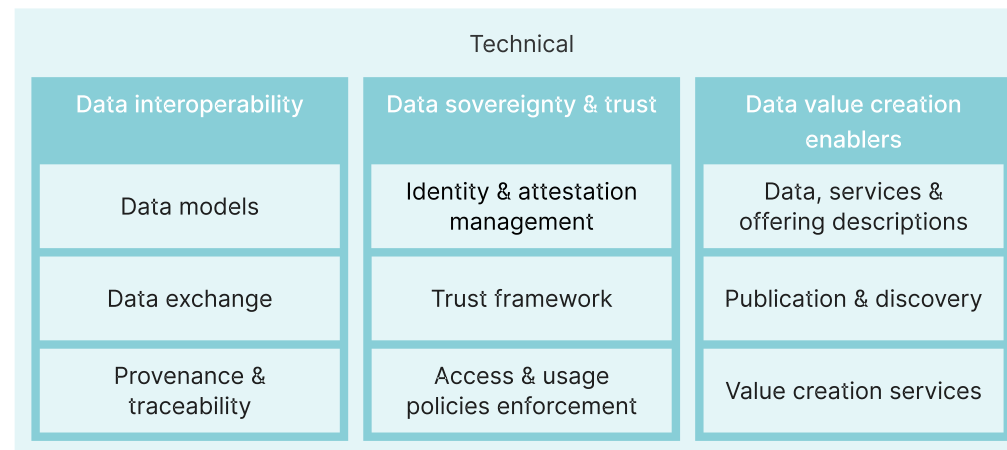


Blueprint sneak preview v2.0

Business & organisational building blocks



Technical building blocks



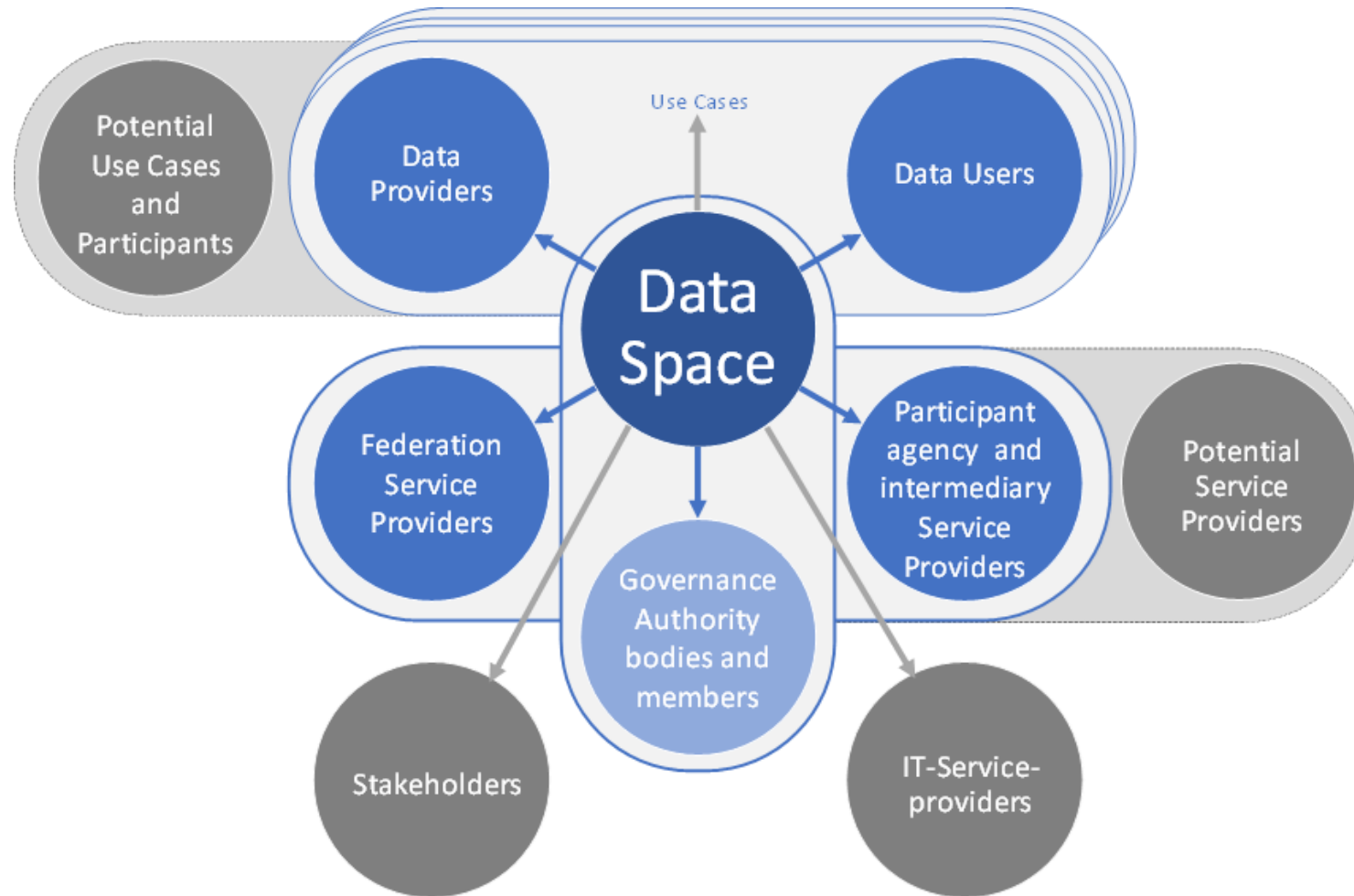
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Business and Organisational



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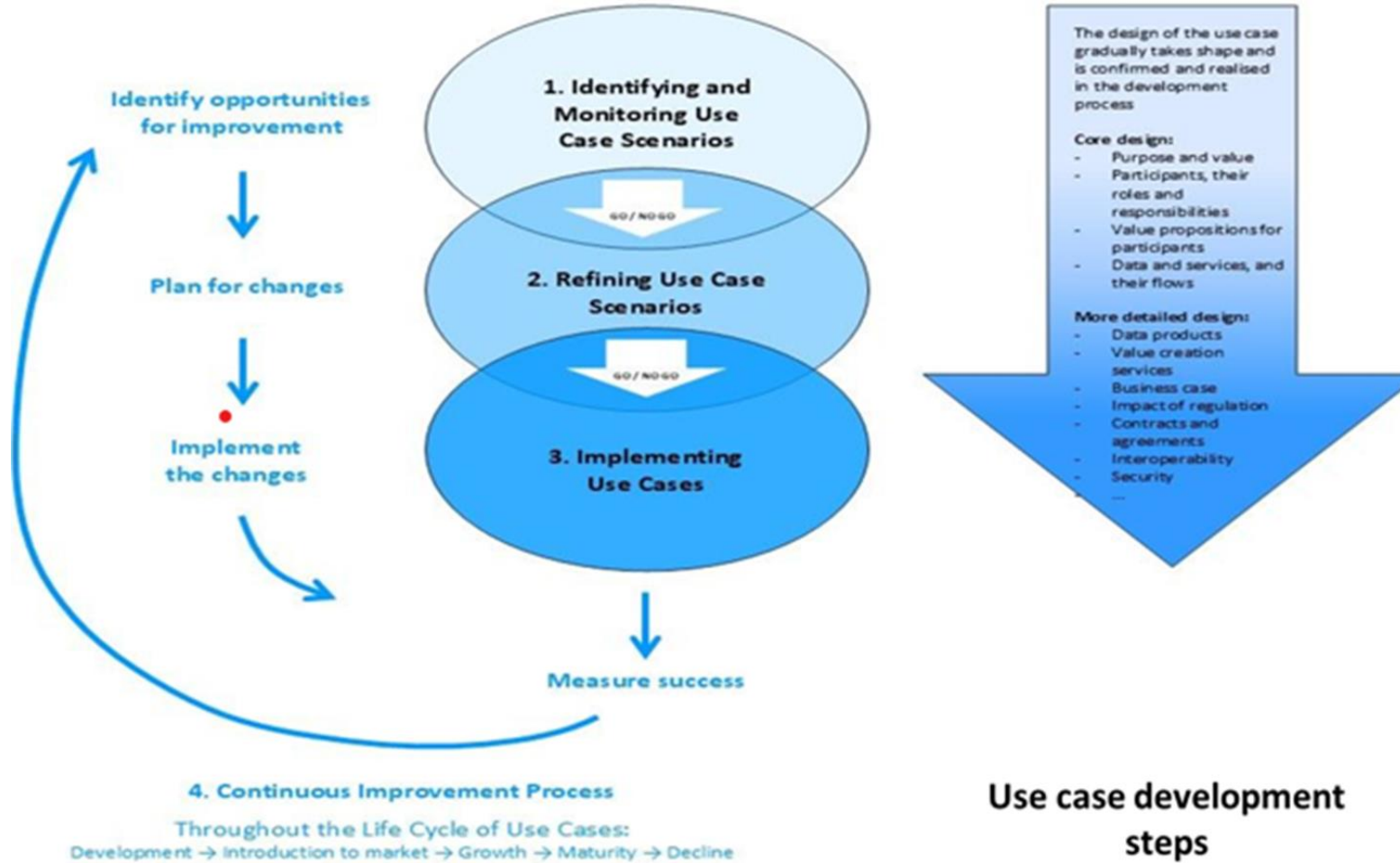
New: Business Building Blocks Business Model



Value network for dataspace

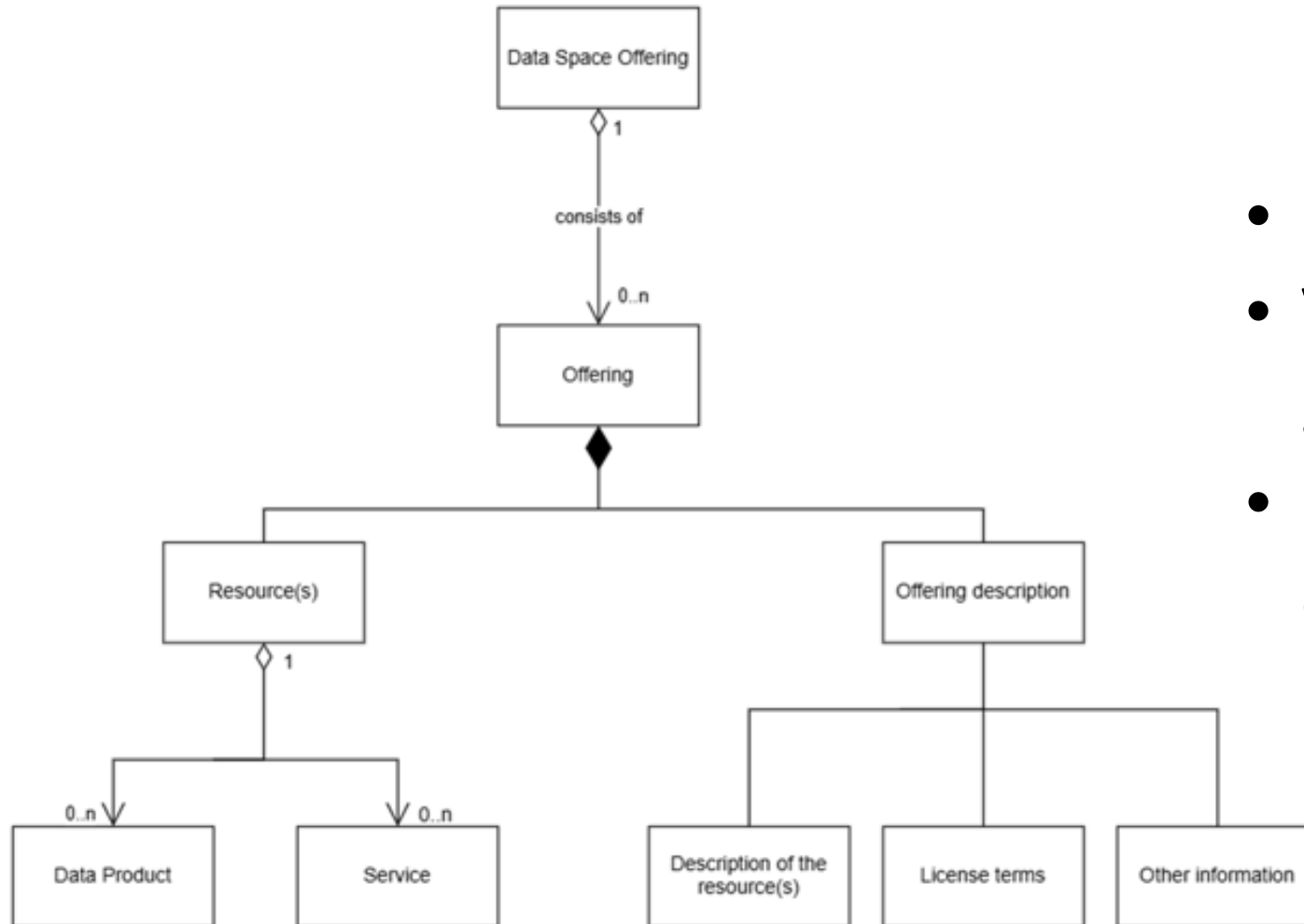
New: Business Building Blocks

Use case development



New: Business Building Blocks

Data space offering



- Data product
- Value creation service
- Information for the consumer

New: Business Building Blocks

Intermediaries & operators



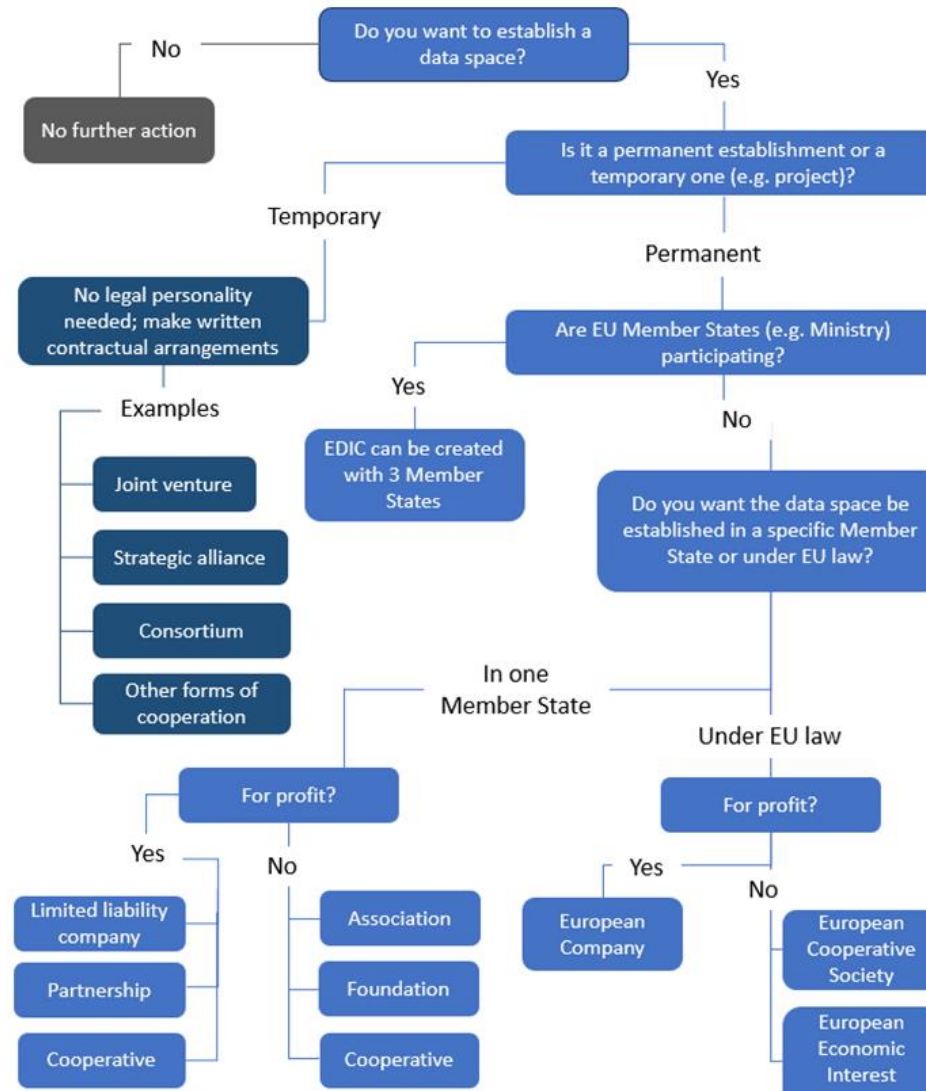
- Options for Data Spaces Governance Authority on where to operate the services
- Legal insights; Data Governance Act sets mandatory requirements for Data Intermediation Services



EU Recognised
Data Intermediary

New: Governance Building Blocks

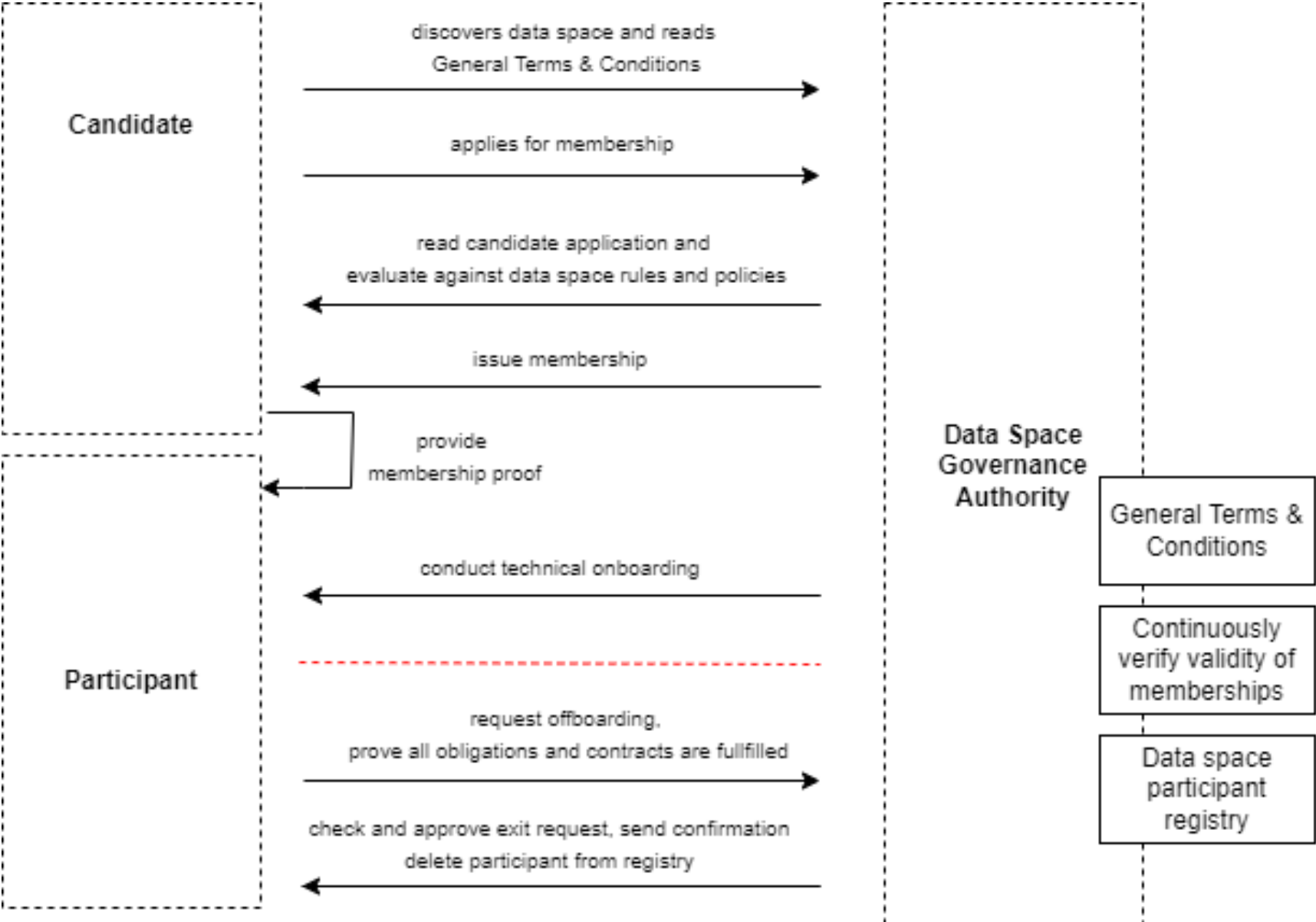
Organisational form & Governance authority



Decision tree

New: Governance Building Blocks

Participation management

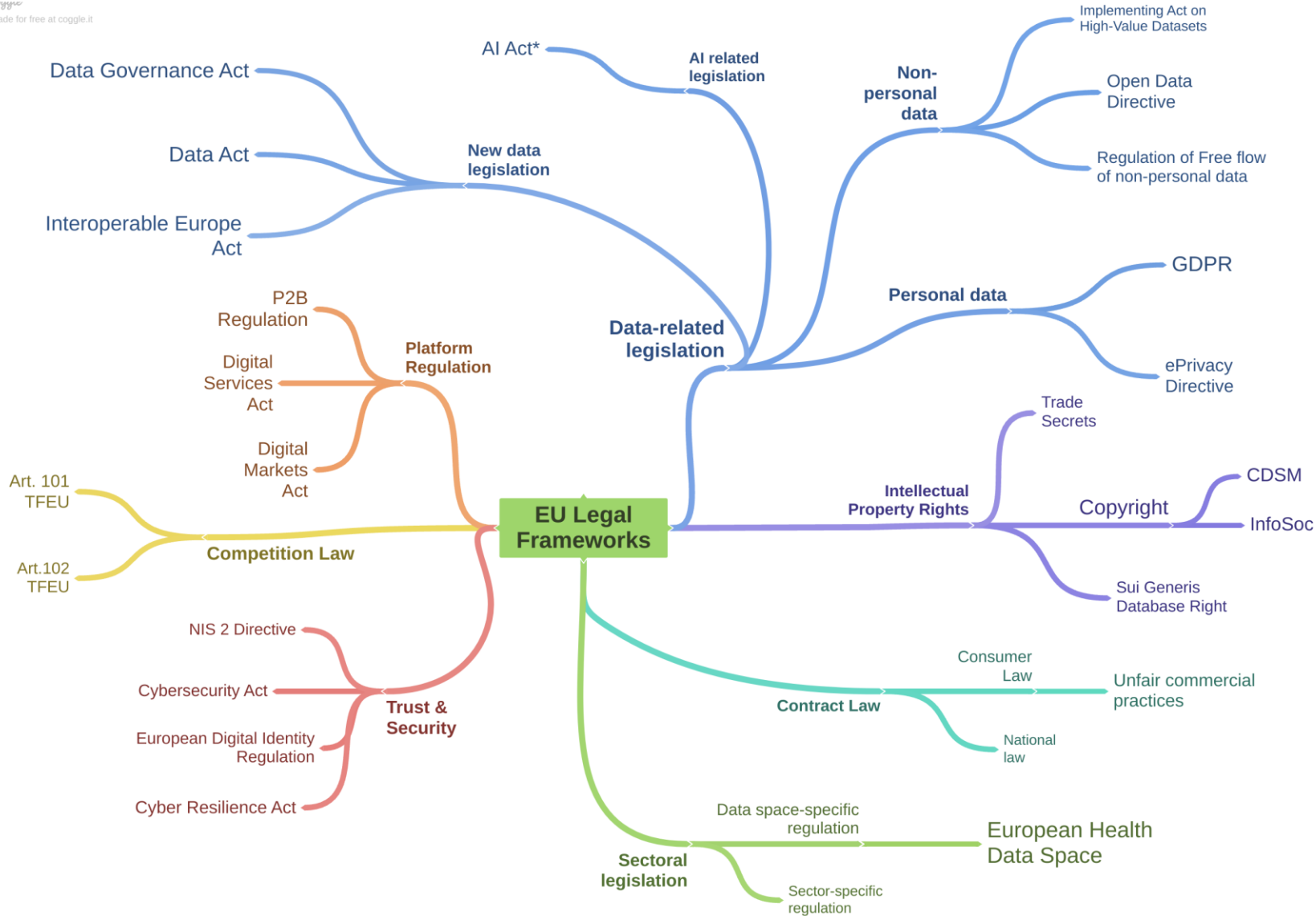


On- and offboarding of participants

New: Legal building blocks

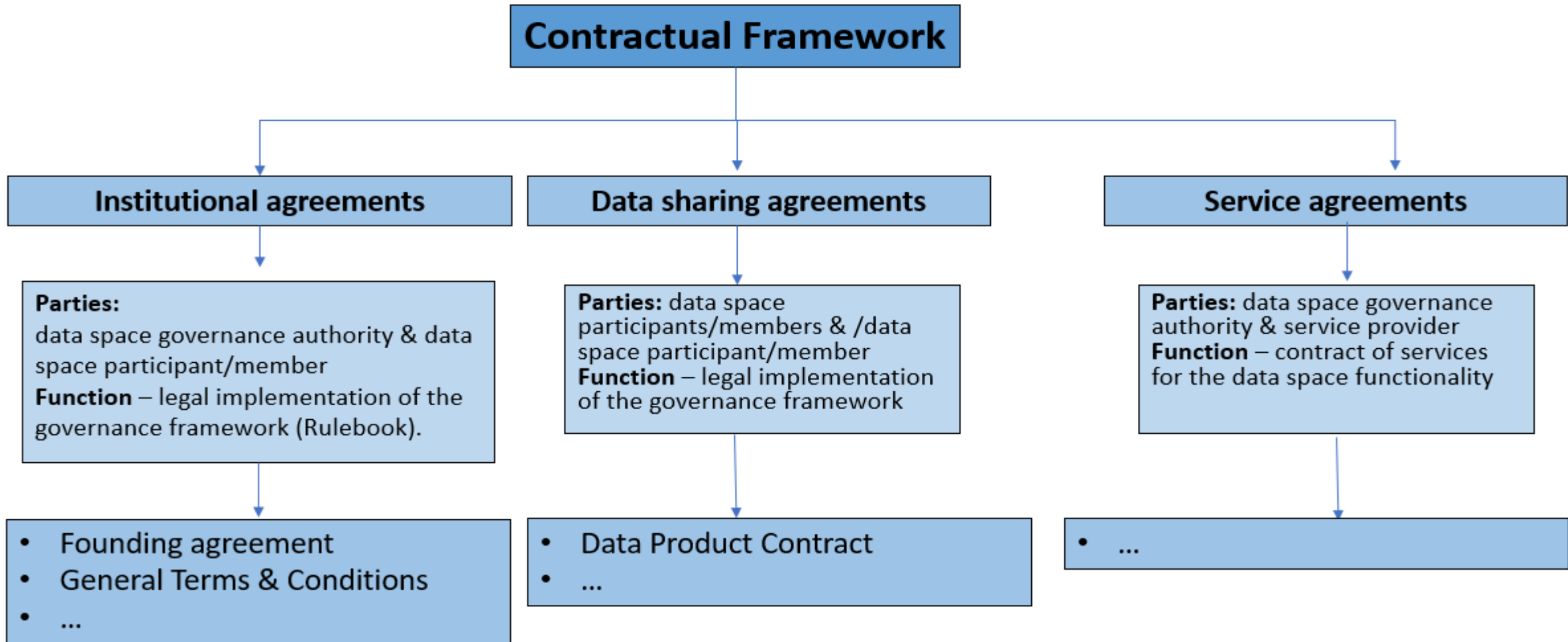
Regulatory compliance

Loggster
made for free at coggle.it



New: Legal Building Blocks

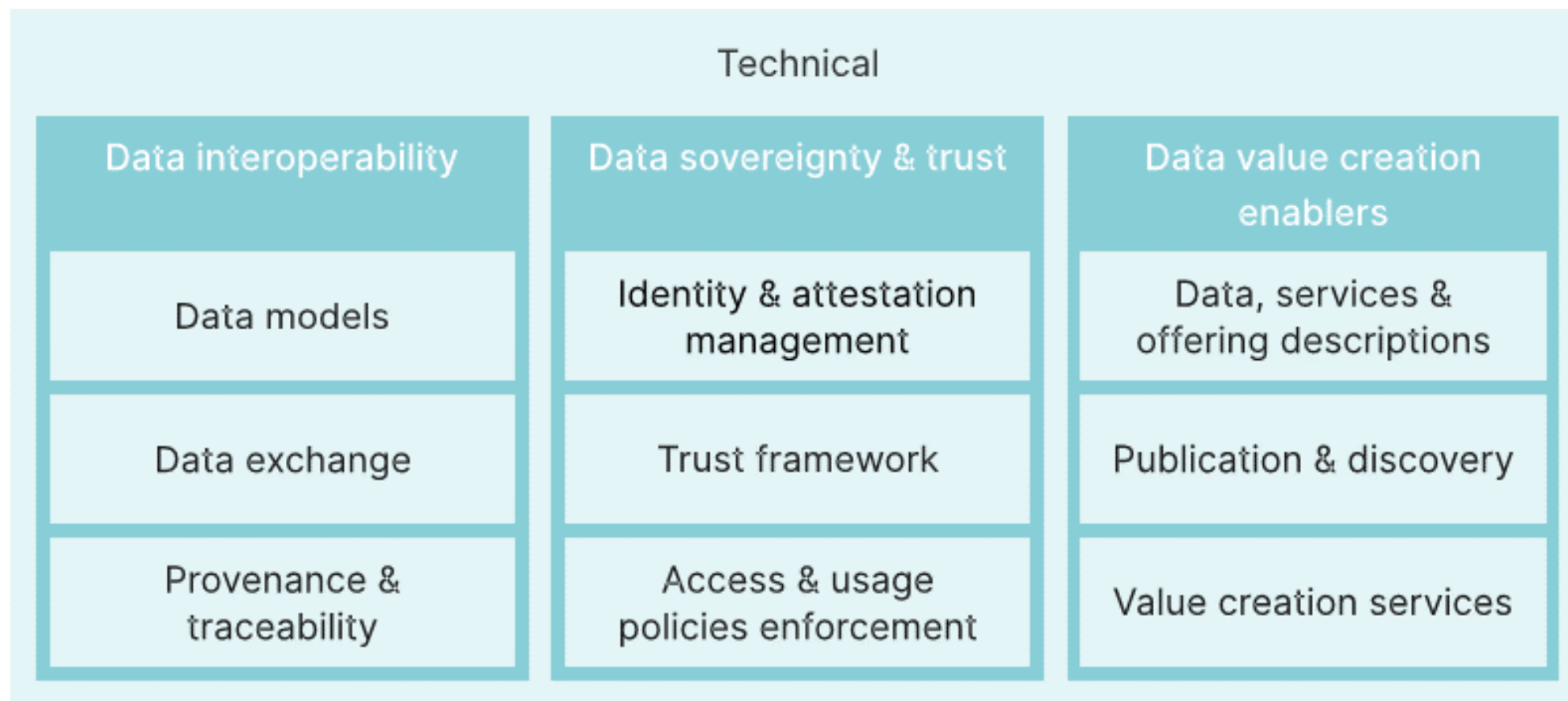
Contractual framework



Rulebook of Business & Organisational BBs

Business & Organisational BBs	Outcomes covered by the rulebook
Business Model	<ul style="list-style-type: none">• Agreement on the business model• Aligned value propositions on data space and participant level
Use case development	<ul style="list-style-type: none">• Overview of use case scenario's• Implemented use cases
Data space offering	<ul style="list-style-type: none">• Data products & service offerings “on the shelf”
Intermediary & operators	<ul style="list-style-type: none">• Decisions if and which functionalities of the data space could or should be provided by dedicated intermediary service providers• Legal agreements on the responsibilities of operating the services
Organisational form & governance authority	<ul style="list-style-type: none">• Organisational form• Agreements on temporary organisational structures if that applies• Governance authority
Participation management	<ul style="list-style-type: none">• Decisions on offboarding, offboarding• Participants and their roles
Regulatory compliance	<ul style="list-style-type: none">• Regulatory compliance of the data space• Strategies, procedures and mechanisms to facilitate compliance within the data space
Contractual framework	<ul style="list-style-type: none">• Context of written (digital) agreements at the data space and participant (data transaction) level

Technical Building Blocks



Foundational Technical Standards

Foundational (global) technical standards

- W3C DCAT → for describing your datasets and services
- W3C ODRL → for defining (technical) access and usage policies
- W3C VC/VP → for the exchange of identities and attestations
- W3C RDF → for specifying semantic models



Protocols

- Dataspace Protocol
- Decentralized Claims Protocol / OID4VC
- Conformity Assessment Policy and Credential Profile
- ...



**Key technical specifications for
data space services**



Legal requirements

- Data Act (e.g. article 33)
- eIDAS
- Data Governance Act



Domain specific choices

- Policies
- Data Models
- APIs



**Rulebook for your data space
initiative**

Data Space Services

Participant Agent Services

- Identity wallet
- Local catalogue / metadata
- Access & usage policies enforcement
- Data Plane (domain specific)

Federation Services

- Data Space Registry
- Validation & Verification
- Catalogues
- Provenance & Traceability
- Policy Information Points
- Vocabulary service

Value Creation Services

- Portals
- Marketplaces
- Visibility Services
- AI algorithms
- ...

Generic

Domain specific

Rulebook of Technical BBs

Technical BBs	Outcomes covered by the rulebook
Data Models	<ul style="list-style-type: none">• Common data model / ontology for the data space• Identified Vocabulary Hub(s)
Data Exchange	<ul style="list-style-type: none">• Technical APIs to be used in the data spaces• Identified Participant Agent Services• Identified Vocabulary Hub(s)
Provenance & Traceability	<ul style="list-style-type: none">• Provenance & Traceability requirements & data models• Identified Observability service(s)
Identity & Attestation management	<ul style="list-style-type: none">• Requirements regarding identities and attestations• Identified Policy Information Services
Trust Framework	<ul style="list-style-type: none">• Identified Trust Anchors and Trust Service Providers / services for Validation & Verification
Access and Usage Policies	<ul style="list-style-type: none">• Common/minimum access & usage policies• Identified Policy Information Services
Data, Services & Offerings descriptions	<ul style="list-style-type: none">• Common/minimum data, services and/or offerings
Publication & Discovery	<ul style="list-style-type: none">• Identified Catalogues
Value Creation Services	<ul style="list-style-type: none">• Identified Value Creation Services

Connect, use and contribute

Use the DSSC Blueprint to develop or enhance the rulebook of your own dataspace

“Comply or explain” + Contribute!

