Laure De Cock

DO SOMETHING GREAT

Don't
Panic!

Towards a common European mobility data space

imec

Barcelona

Budapest

Flanders

Tampere

Île-de-France

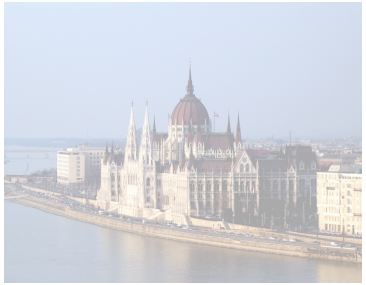
Lisbon

Milan

Sofia

Stockholm

Barcelona



Budapest

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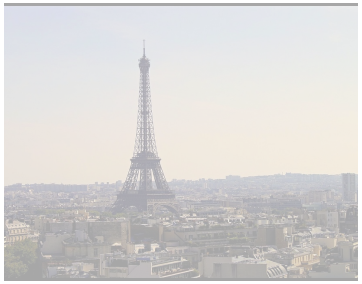
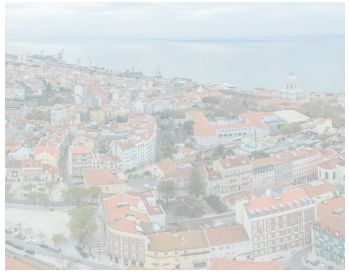
Tampere

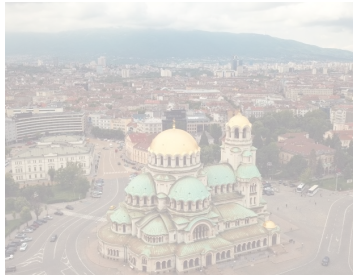


Île-de-France



Lisbon

Milan



Sofia

Stockholm

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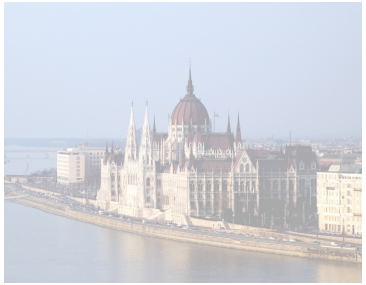

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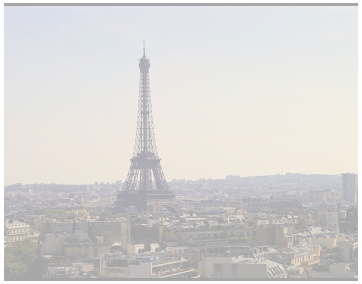

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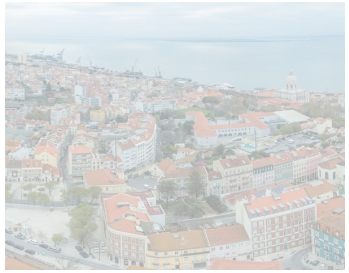

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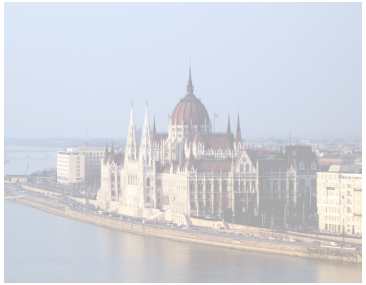

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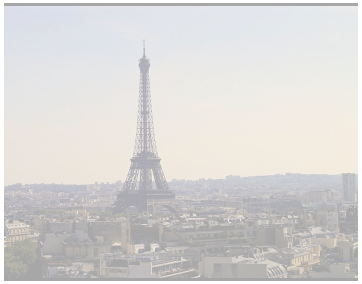

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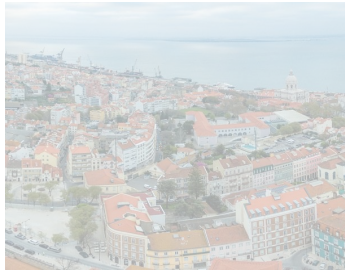

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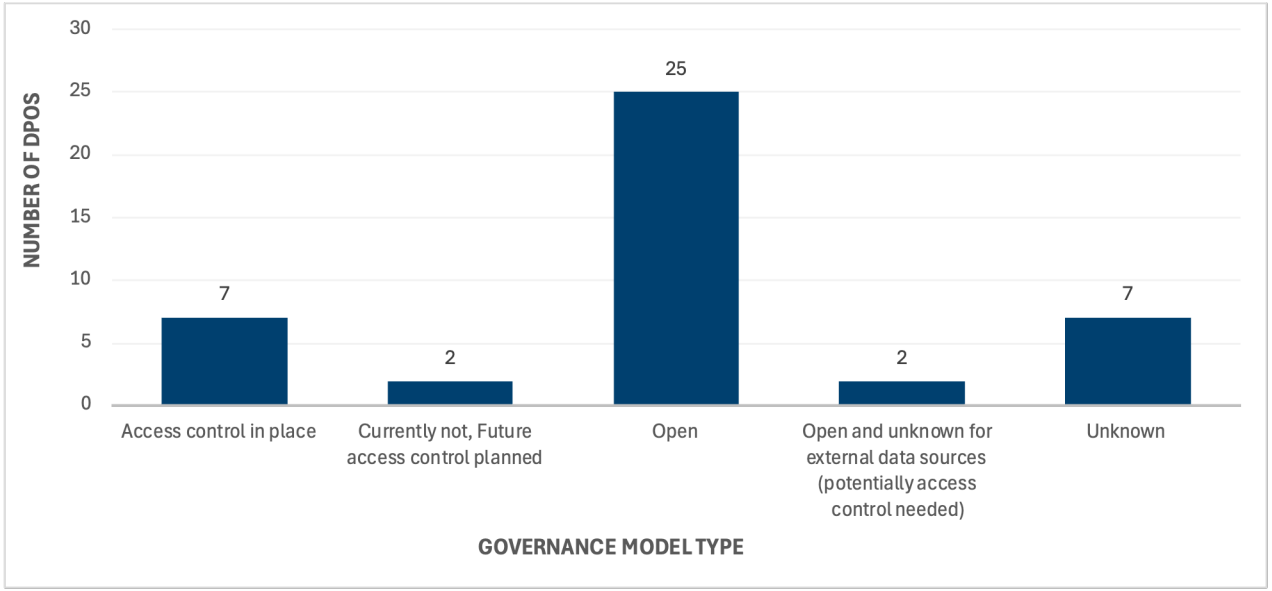
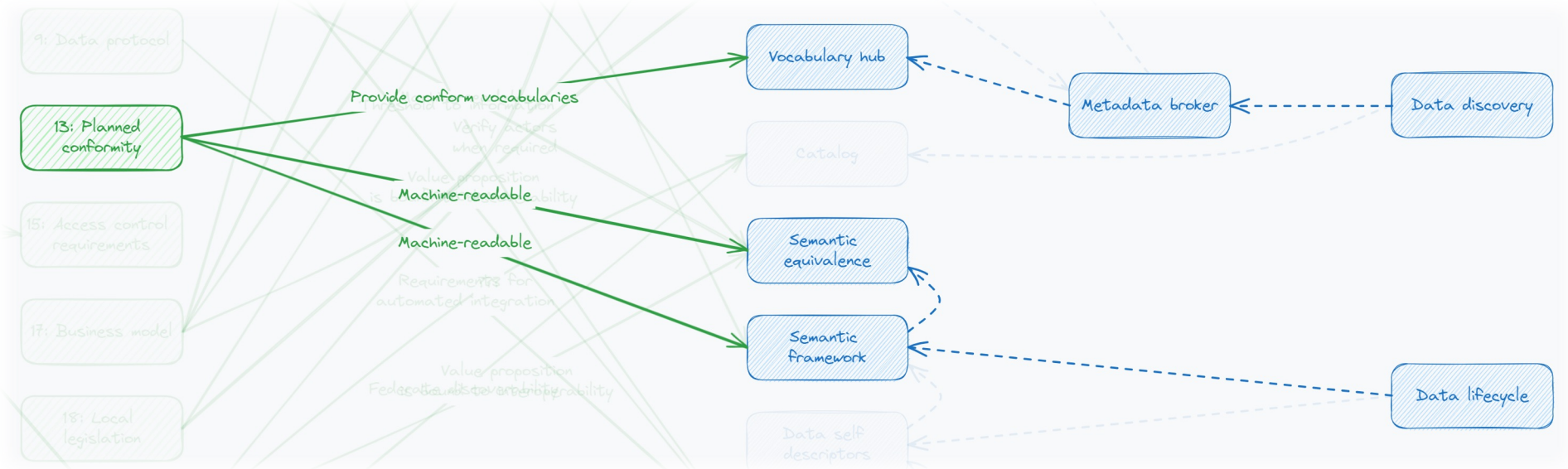
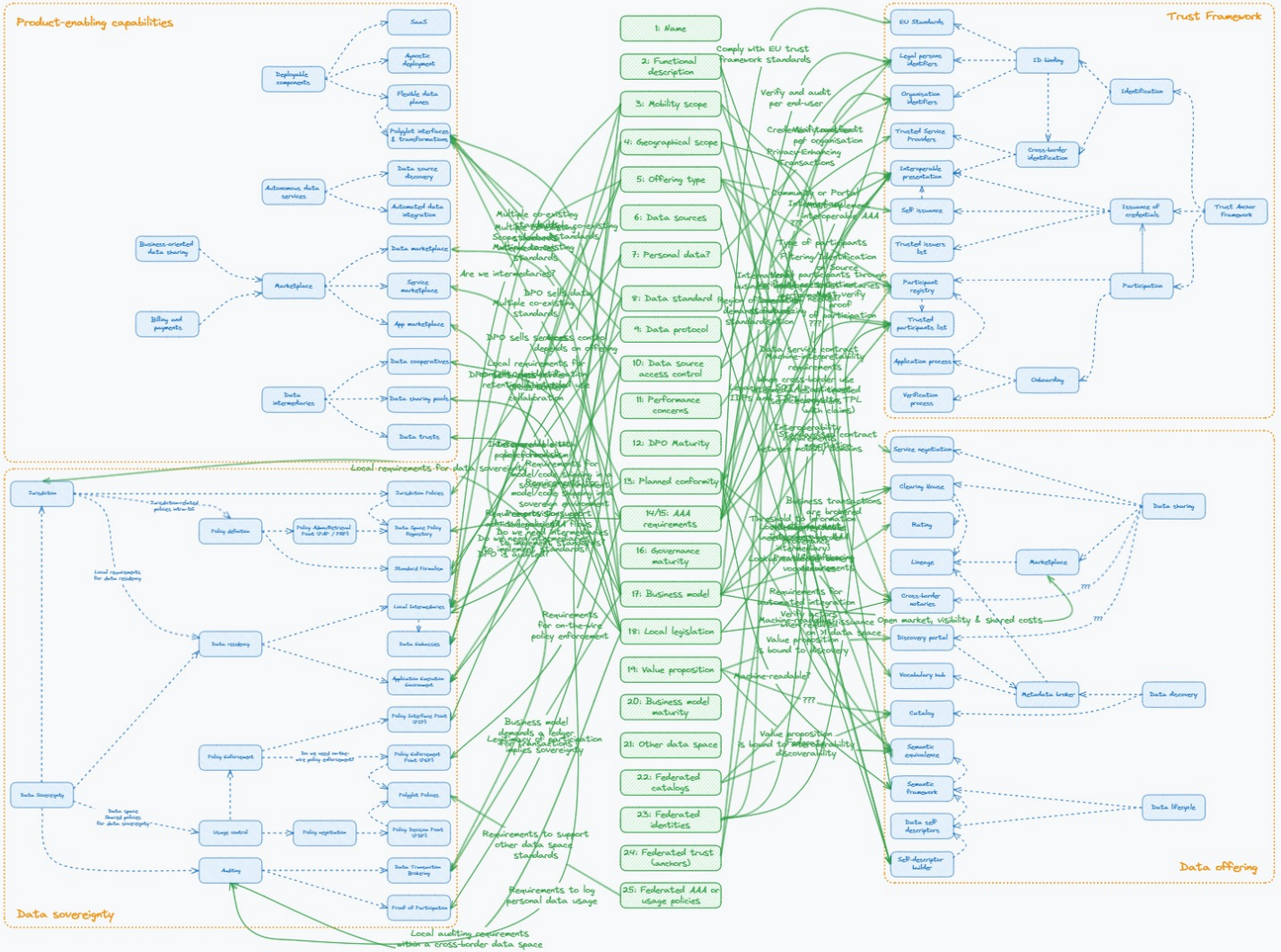
What are we dealing with?



→ A lot of open data


13: Planned conformity
Provide conform vocabularies
Machine-readable
Machine-readable
Vocabulary hub
Catalog
Semantic equivalence
Semantic framework
Data self descriptors
Metadata broker
Data discovery
Data lifecycle



Product-enabling capabilities
Deployable components
SaaS
Agnostic deployment
Flexible data planes
Polyglot interfaces & transformations
Autonomous data services
Data source discovery
Automated data integration
Business-oriented data sharing
Billing and payments
Marketplace
Data marketplace
Service marketplace
App marketplace
Data intermediaries
Data cooperatives
Data sharing pools
Data trusts
Data sovereignty
Jurisdiction
Jurisdiction-related policies intra-IDS
Policy definition
Policy Admin/Retrieval Point (PAP / PRP)
Jurisdiction Policies
Data Space Policy Repository
Standard Formalism
Local requirements for data residency
Local Intermediaries
Data residency
Data Embassies
Application Execution Environment
Policy Enforcement
Do we need on-the-wire policy enforcement?
Policy Interface Point (PIP)
Policy Enforcement Point (PEP)
Data Sovereignty
Data space Shared policies for data sovereignty
Usage control
Policy negotiation
Polyglot Policies
Policy Decision Point (PDP)
Auditing
Data Transaction Brokering
Proof of Participation
Local auditing requirements within a cross-border data space
Local requirements for data sovereignty
Multiple co-existing standards
Are we intermediaries?
DPO sells data
Multiple co-existing standards
DPO sells services
Local requirements for data sovereignty
Requirements for on-the-wire policy enforcement
Business model demands a ledger
Requirements to support other data space standards
Requirements to log personal data usage
1: Name
2: Functional description
3: Mobility scope
4: Geographical scope
5: Offering type
6: Data sources
7: Personal data?
8: Data standard
9: Data protocol
10: Data source access control
11: Performance concerns
12: DPO Maturity
13: Planned conformity
14/15: AAA requirements
16: Governance maturity
17: Business model
18: Local legislation
19: Value proposition
20: Business model maturity
21: Other data space
22: Federated catalogs
23: Federated identities
24: Federated trust (anchors)
25: Federated AAA or usage policies
Comply with EU trust framework standards
Verify and audit per end-user
Privacy-Enhancing Transactions
Community or Portal
Type of participants
Filtering/Identification on source
Data service contract
Machine-interpretability requirements
Interoperability
Business transactions are brokered
Requirements for automated integration
Verify actors
Machine-readable?
Value proposition is bound to discovery
Value proposition is bound to interoperability discoverability
Trust Framework
EU Standards
Legal persons identifiers
Organisation identifiers
Trusted Service Providers
Interoperable presentation
Self issuance
Trusted issuers list
Participant registry
Trusted participants list
Application process
Verification process
ID binding
Cross-border identification
Identification
Issuance of credentials
Participation
Onboarding
Trust Anchor Framework
Data offering
Service negotiation
Clearing House
Rating
Lineage
Cross-border notaries
Discovery portal
Vocabulary hub
Catalog
Semantic equivalence
Semantic framework
Data self descriptors
Self-descriptor builder
Data sharing
Marketplace
Metadata broker
Data discovery
Data lifecycle
Open market, visibility & shared costs
???

imec

PhpStorm File Edit View
Arnold Francisca
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</head>
<body>
<main>
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<li id="left--item">AF
<li class="right--items">
<li class="right--items">
<li class="right--items">

</nav>
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<article id="intro--section--text">
<h1 class="section--header">
Hey, ik ben Arnold!
</h1>

Ik ben een front-end developer en student

<a href="#work--section" class="pink--button scroll">
</article>
<section id="skills--section">
<h1 class="section--header">
Mijn Skills.
</h1>
<section id="skills--section--wrap">
Version Control
Terminal

deploy EMDS

Project deliverable D2.1

Requirements analysis of the technical infrastructure