



DATA SPACE FOR
SMART AND SUSTAINABLE
CITIES AND COMMUNITIES

An Initiative Overview

LIVING-IN.EU

Presented by
Sophie Meszaros



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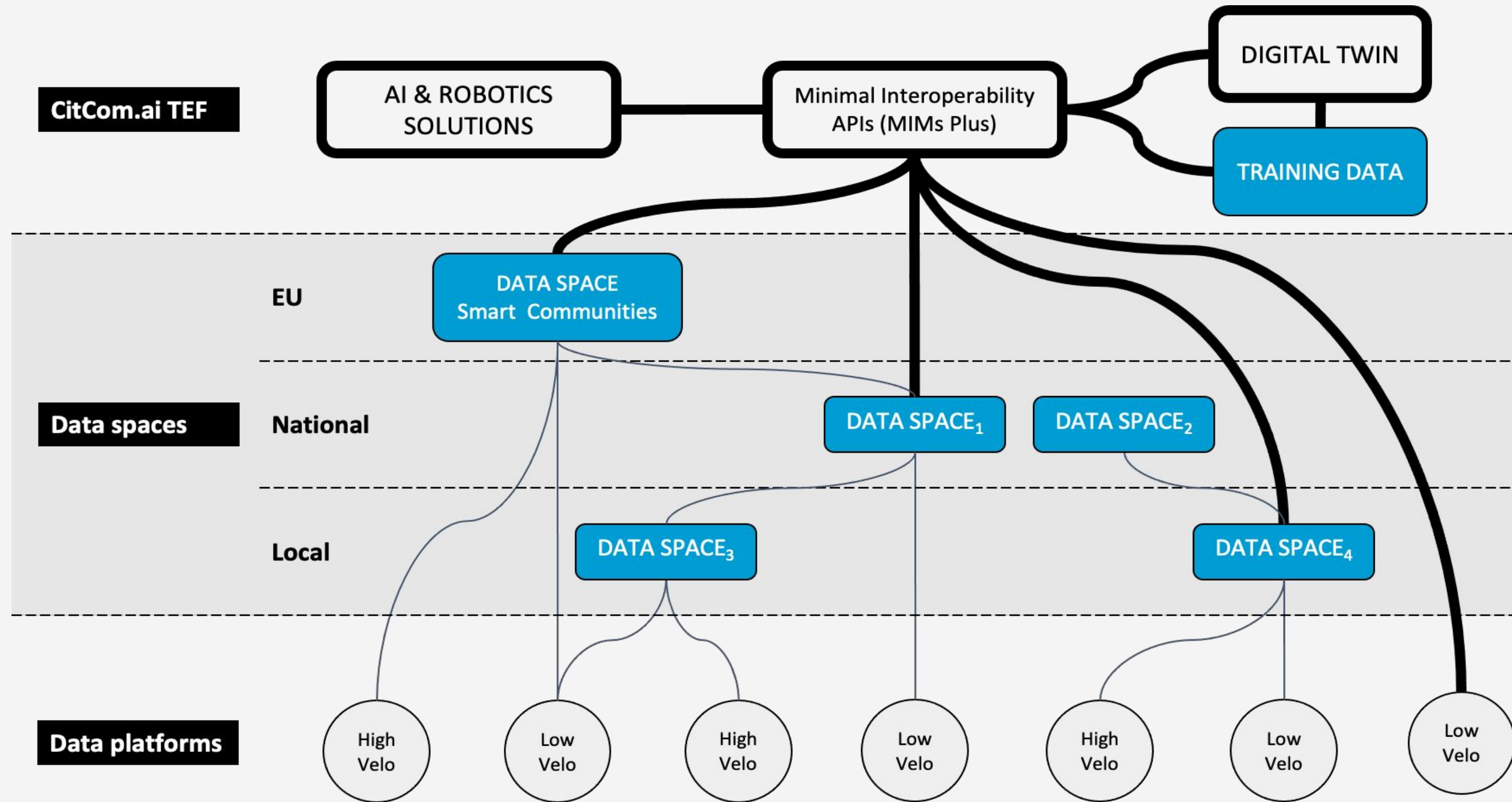
Cities as enablers of the data economy

different types of data and interests need to converge and be harmonised to provide a common goal: better quality of life in cities for people and businesses

- City as data/service provider/consumer
- Decision-making for both citizens and managers

Challenges

- break the silos
- avoid vendor lock-in
- business model
- interoperability
- portability



Across sectors & domains...



reservations estimation of the hotels



number of airport passengers



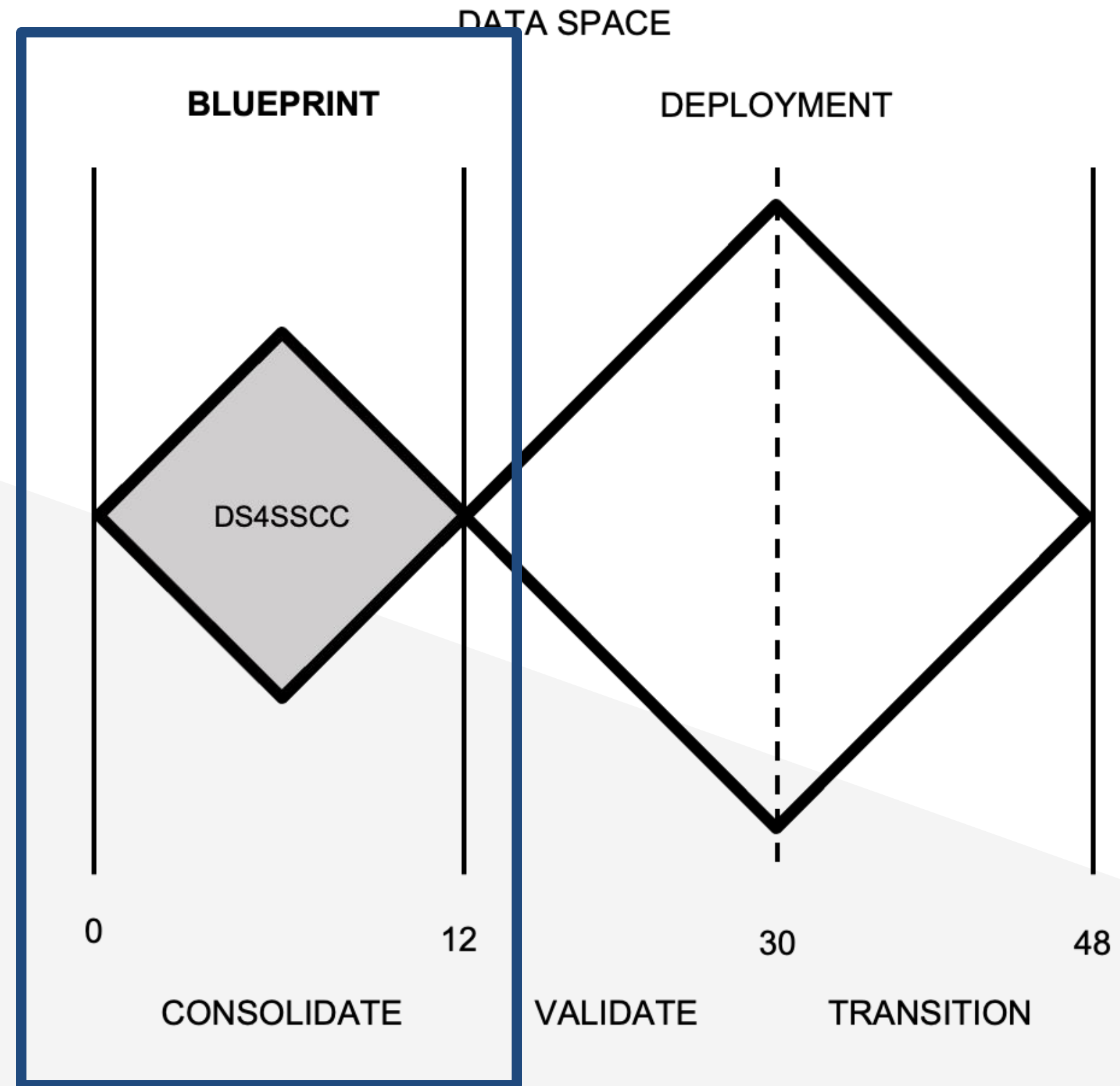
better the public transportation of the city in certain days

... cross-domain data spaces

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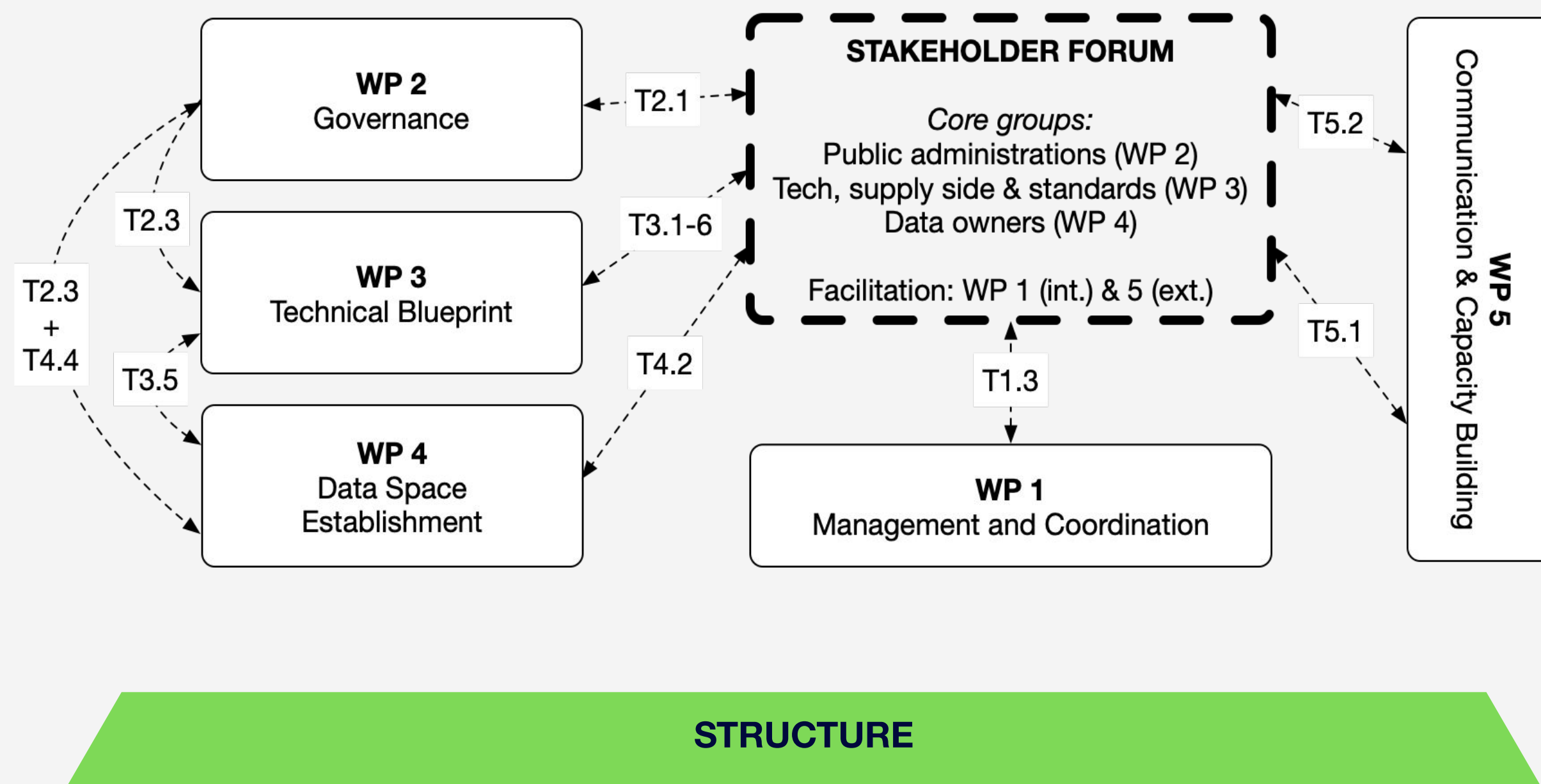
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Priorities/WP



| | |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WP 1 | Coordination, Administration, Convening Stakeholder Forum (public administrations, companies and regulators) |
| WP 2 | Local Data Ecosystem Stakeholders, Create multi-stakeholder data governance scheme |
| WP 3 | Catalogue of specifications & Architecture Model: Data Interoperability building blocks, technical data sovereignty and trust building blocks, data value creation building blocks, data governance and legal building blocks |
| WP 4 | Identification of priority data sets, testing and validating the reference architecture, roadmap for implementing a European data space for SSCC |
| WP 5 | Boost scalability & usability of the multi-stakeholder data governance scheme, promote the results of the initiative, create interactive training offer for data spaces |

Stakeholder Forum



Workshops, surveys, interviews



governance scheme, catalogue of specifications, roadmap, capacity building
(WP2, 3, 4, 5)



Activities



Stakeholder Forum Workshops

7 events

Expression of Interest Form

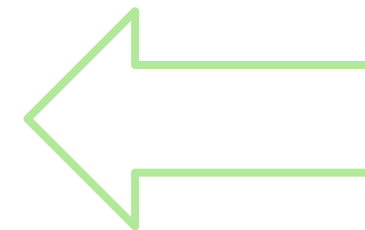
36 Responses

Survey

85 Responses

Interviews

22 Interviews



Stakeholder Forum
134 individuals
supply & demand side
from 23 Countries

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Governance

Development of a multi-stakeholder data
governance scheme



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Core elements of multi-stakeholder governance scheme

Overview

- Definition of data space for smart and sustainable cities and communities
- Benefits, value proposal, the common purpose of the Data Space
- Map of data ecosystem stakeholders & users

Code of Conduct

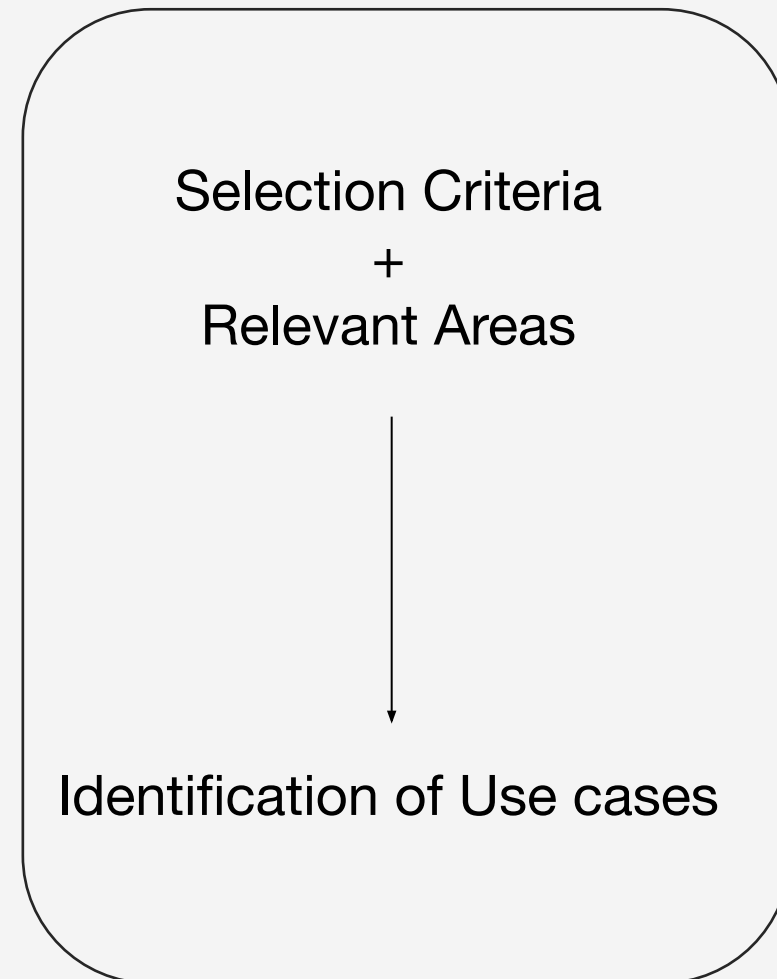
- Roles & responsibilities
- Business models
- Trust and Identity management
- Legal frameworks and overarching principles

Tools

- Data management standards/ specifications
- Checklist/ practical recommendations to set governance guidelines for data space



Identification of use-cases



Use case 1: Optimising traffic management to reduce pollution

Alignment with Green Deal Objectives:

- Accelerating the shift to smart & sustainable mobility
- Zero-pollution ambition for a toxic-free environment

Led by Amsterdam and Lisbon

Use case 2: Management of energy flows in a city/community-specific context

Alignment with Green Deal Objectives:

- Supplying clean, affordable, and secure energy
- Leave no-one behind (Just Transition)

Led by Barcelona



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THE GLOBAL GOALS



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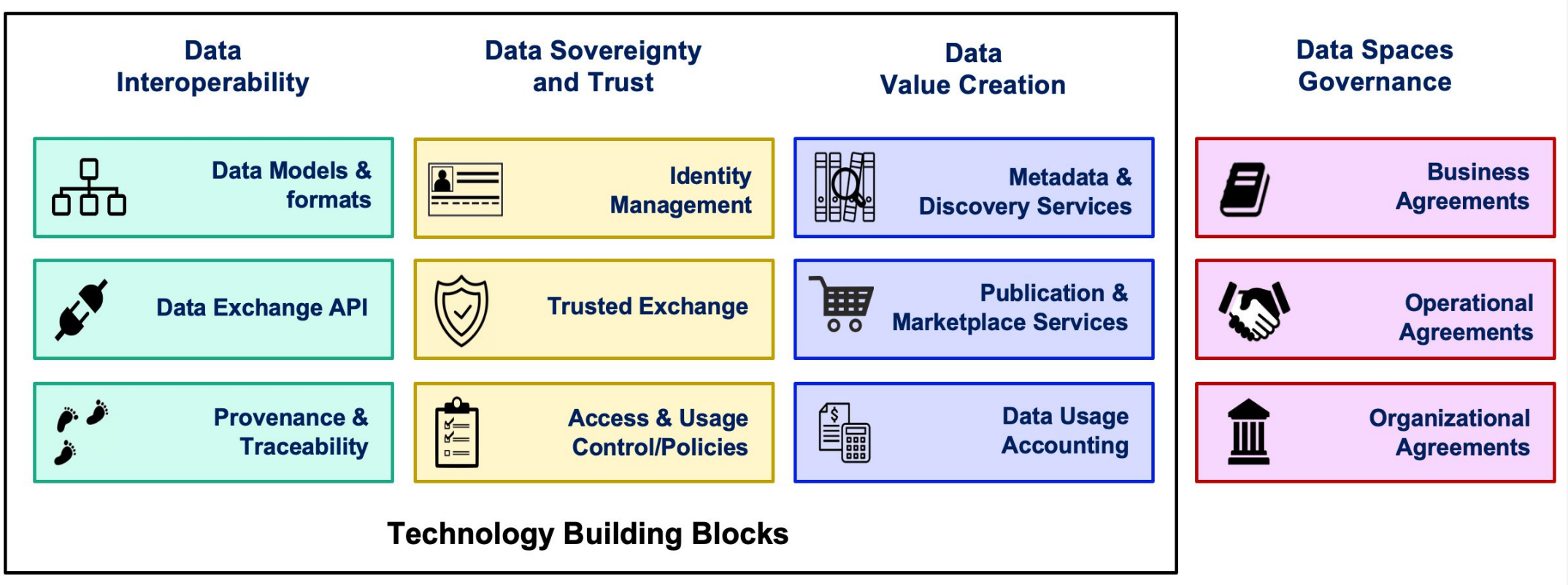
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Technical Blueprint

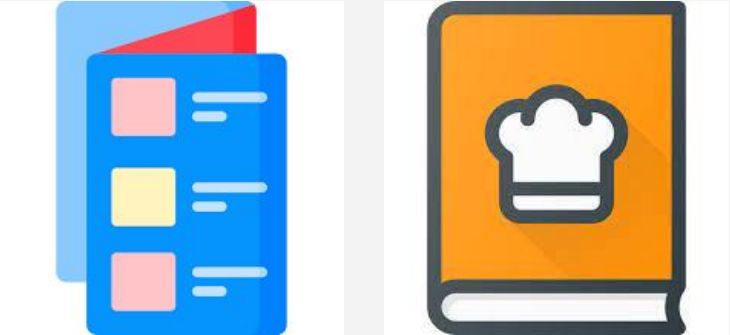


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Expected outcomes

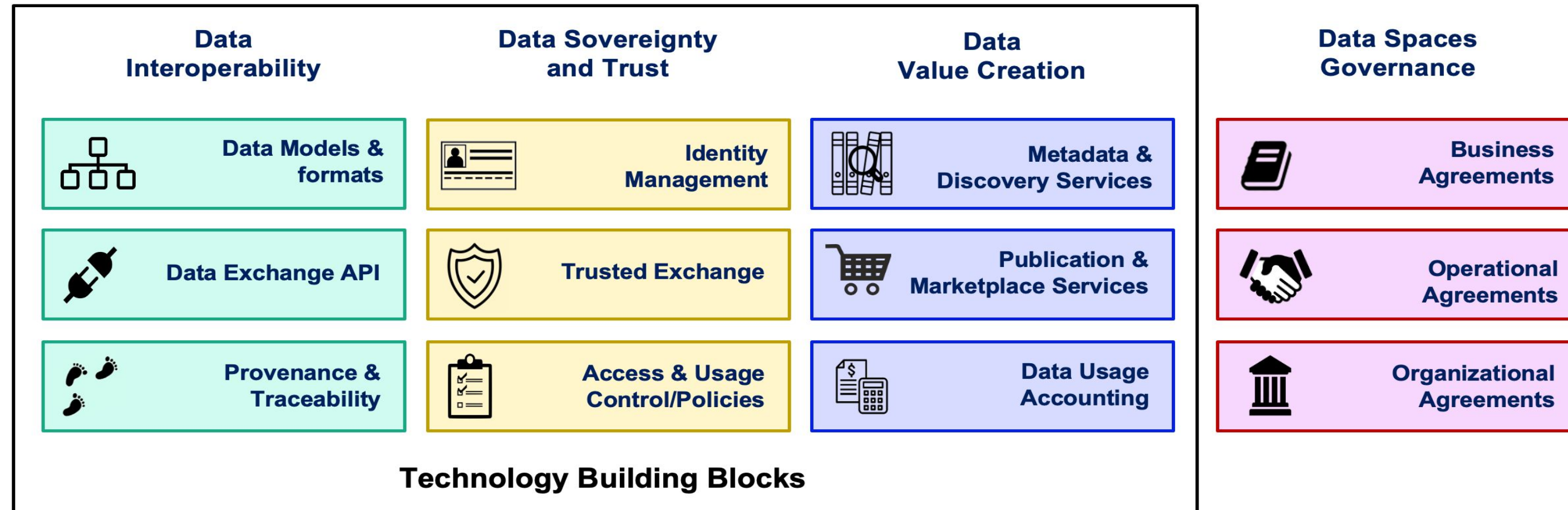


Catalogue of Specifications (M6)



Reference Architecture Model and Cookbook (M12)

Technical BB



&

MIM 1 - Context Management
MIM 2 - Data Models
MIM 3 - Contracts
MIM 4 - Trust (Personal Data Management)
MIM6 - Security
MIM7 - Geospatial Data

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Stakeholder Forum

A Data Space by our stakeholders for smart
communities



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| Date, Location | Event | Event objective |
|---------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| January 16th 2023, Brussels (BE) (Hybrid format) | 1st workshop | Work-in-progress presentation |
| | | Inputs/feedback collection on the DS4SSCC activities and expected results |
| 02nd March (10am-12pm), online | 2nd workshop | Presentation of DS4SSCC work-in-progress |
| | | Collection of insights on the data governance scheme development, priority data sets & the blueprint |
| 12th April (10am-12pm), online | 3rd workshop | Presentation of DS4SSCC work-in-progress and collection of insights on the WP2, WP3, WP4 project activities and outcomes |
| 03rd May (10am-12pm), online | 4th workshop | Presentation of DS4SSCC work-in progress, collection of feedback on the project activities and validation of the catalogue of specification |
| 6h of June (10am-12pm), online | 5th workshop | First round of validation governance scheme with broader stakeholders |
| 05th July (10am-12pm), online | 6th workshop | First validation of the architecture- WP4 |
| 06th September (10am-12pm), online | 7th workshop | Final validation of data governance scheme and the roadmap |
| September 2023 (10am-12pm), Barcelona (ES) | Event on Data Spaces at the Open Living Labs Days | Presentation and promotion of the DS4SSCC results |
| | | Connection with sister and related projects |
| | | Panel discussion |



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visit our website

www.ds4sscc.eu

Narrative document
Online navigable catalogue
Whitepaper for public
Capacity building
Newsletter



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What's coming...

DS4SSCC Deployment phase

- Kick off: October 2023
- (Expected) Application period to become a site of piloting: January - March 2024



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Thank you for listening

Any comments, questions or suggestions?

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