



# MIWP Action 1.1 - Towards a digital ecosystem for the environment and sustainability



*67<sup>th</sup> MIG-T meeting, 7-8 October 2021*

# Structure

- 1) Status of INSPIRE Good Practices
- 2) JRC Pool of experts on data-driven innovation
- 3) JRC Science for Policy report
- 4) Conceptual integration of INSPIRE datasets and services with GAIA-X
- 5) Reuse of INSPIRE for the Minimal Interoperability Mechanisms (MIMs)



European Commission

# Good Practices

INSPIRE KNOWLEDGE BASE  
Infrastructure for spatial information in Europe

English (en)

Search...

European Commission > INSPIRE > Toolkit > Good Practice Library

Home Learn Implement Participate Use Toolkit

**Quick search**

- Data and Service Sharing
- Data Specifications
- Implement
- INSPIRE
- INSPIRE in your Country
- Learn
- Maintenance and Implementation
- Metadata
- MIG Work Programme
- Monitoring and Reporting
- Network Services
- Participate
- Spatial Data Services
- Use

**Good Practice Library**

**Good Practice documents**

Candidate	Endorsed
<a href="#">Building one access point to dispersed data sources</a>	<a href="#">GeoDCAT-AP</a>
<a href="#">Making spatial data downloadable via WMS services</a>	<a href="#">SDMX for Human Health and Population Distribution</a>
	<a href="#">OGC API - Features as an INSPIRE download service</a>
	<a href="#">OGC SensorThings API as an INSPIRE download service</a>
	<a href="#">OGC compliant INSPIRE Coverage data and service implementation</a>

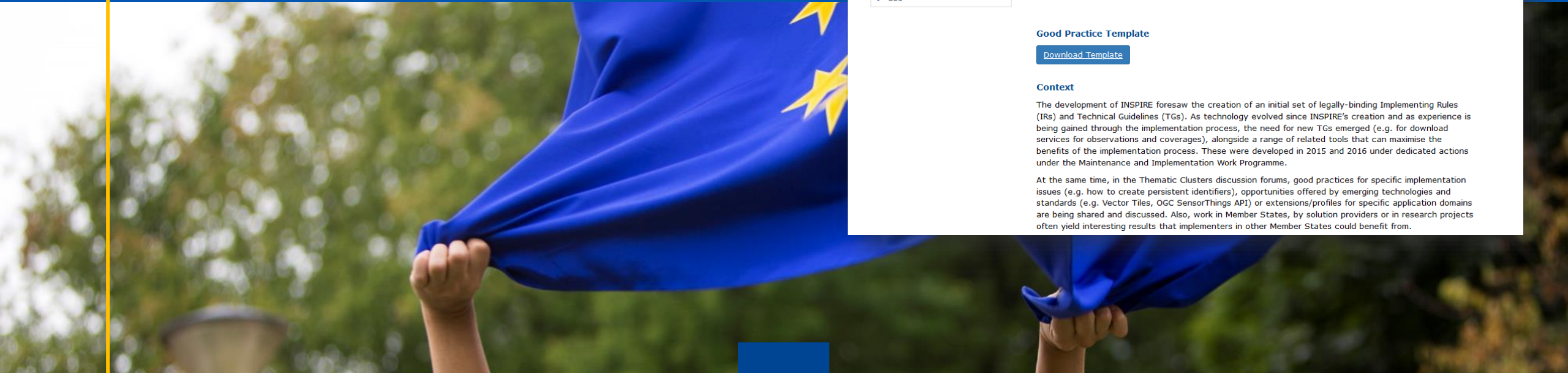
**Good Practice Template**

[Download Template](#)






**Context**

The development of INSPIRE foresaw the creation of an initial set of legally-binding Implementing Rules (IRs) and Technical Guidelines (TGs). As technology evolved since INSPIRE's creation and as experience is being gained through the implementation process, the need for new TGs emerged (e.g. for download services for observations and coverages), alongside a range of related tools that can maximise the benefits of the implementation process. These were developed in 2015 and 2016 under dedicated actions under the Maintenance and Implementation Work Programme.

At the same time, in the Thematic Clusters discussion forums, good practices for specific implementation issues (e.g. how to create persistent identifiers), opportunities offered by emerging technologies and standards (e.g. Vector Tiles, OGC SensorThings API) or extensions/profiles for specific application domains are being shared and discussed. Also, work in Member States, by solution providers or in research projects often yield interesting results that implementers in other Member States could benefit from.



# Good Practices

Good practice	Status
OGC API-Features	
SensorThings API	
Coverage data and service implementation	
Building one access point to dispersed data sources	
Making spatial data downloadable via WMS services	





# Pool of experts on data-driven innovation





# Pool of experts on data-driven innovation



# Pool of experts on data-driven innovation

- **Context**

- Multiple emerging technological trends can help complement and/or substitute the ways in which we are sharing location information
- Implemented within ELISE

- **Topics**

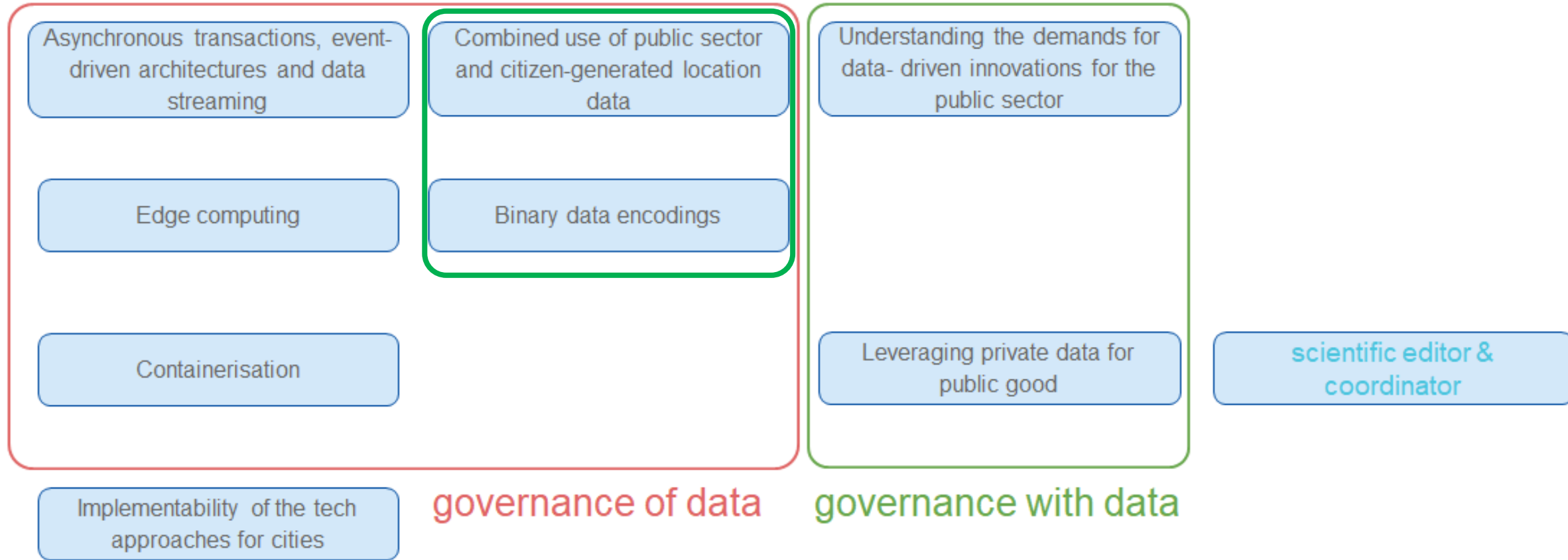
- Governance of data
- Governance with data

- **Outputs**

- Based on experimentation and sandboxes
- Summary of the experimentation in a structured manner (JRC Technical report)

# Pool of experts on data-driven innovation

EXPERTS







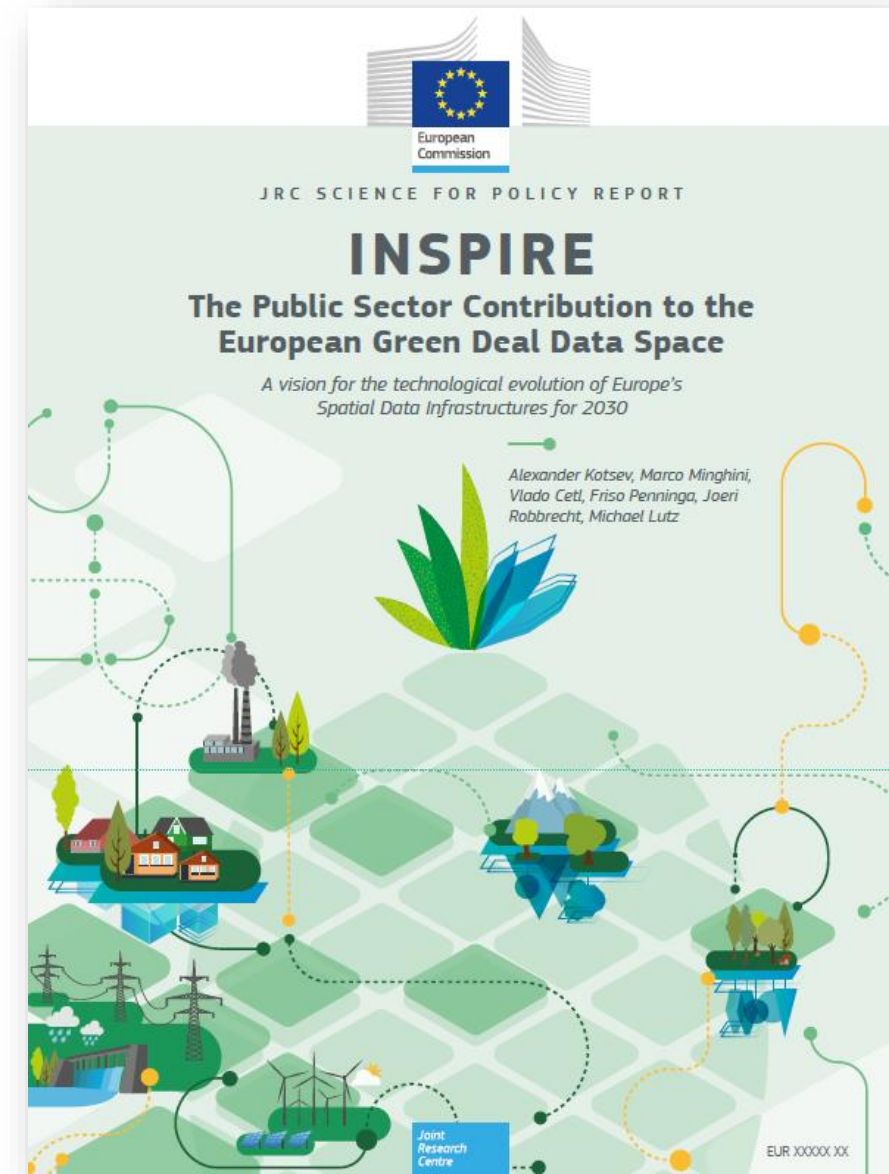
# INSPIRE – A public contribution to the European Green Deal Data Space

*JRC Science for Policy Report*



# JRC Science for Policy Report

- Prepared in collaboration with ENV and Geonovum
- Contents
  - State of play
  - Policy and technological context
  - Lessons learned from the implementation
  - Vision for the technological evolution
  - Prototype reference framework
  - Actions and roadmap



# Vision (work in progress)



- INSPIRE should ‘blend in’ with the broader ecosystem of spatial and non-spatial data, infrastructures, technologies and policies.
- This will mean opening up to a broader community of implementers and users and to a wider range of applications and use cases.
- Making the INSPIRE framework more flexible and agile will significantly lower the entry level to the sharing and utilisation of data.
- Technical approaches need to be simplified by reusing well-adopted standards and technologies.

# Actions (a sneak peak)

- Avoid overspecification in legislation
- Use a simple licensing framework
- Embrace co-design by default
- Rethink the existing INSPIRE governance structures



# Want to know more ...



THURSDAY 28/10



**10:00-11:30**

[Modernising INSPIRE within the European Green Deal data space – a technological and organisational perspective](#)



**13:30-15:00**

[Data exchange and harvesting - e-Reporting and thematic portals](#)



**15:30-17:00**

Smart from local to global

FRIDAY 29/10



**10:00-11:30**

Location based data for crisis management



**13:30-15:00**

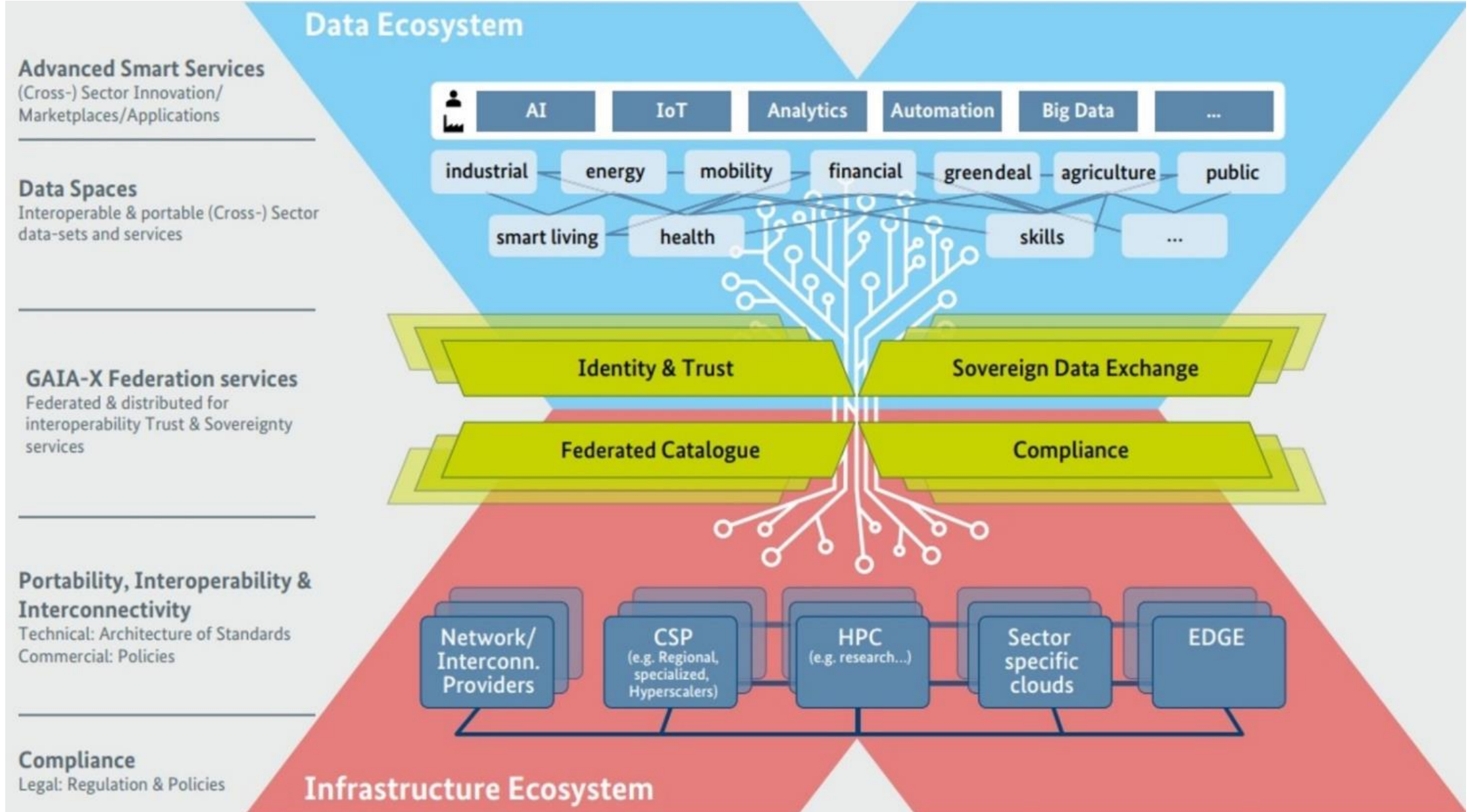
Closing Session - Towards a Common European Green Deal data space for environment and sustainability



# Conceptual integration of INSPIRE datasets and services with GAIA-X



# About GAIA-X



# GAIA-X and INSPIRE

Contractor: Fraunhofer IOSB

**Objective:** Hands-on evaluation of the GAIA-X architecture in the context of a relevant INSPIRE use case

**Tasks:**

- 1) Shortlist and prioritise INSPIRE use cases, incl. the necessary datasets and services
- 2) Mandatory and optional steps for implementing the selected use case
- 3) Conceptual implementation, incl. the necessary artefacts
- 4) Summary of the activities and steps towards a prototypical implementation
- 5) Webinar



# Want to know more ...



MONDAY 25/10



**10:00-11:30**

[Opening session - Building synergies between the European Green Deal and Digital Strategies](#)



**13:30-15:00**

[Supporting the Green Deal – Member State data from INSPIRE to Open Data and beyond](#)



**15:30-17:00**

[Citizen Science and the Green Deal Data Space - what, why and how?](#)

TUESDAY 26/10



**10:00-11:30**

[Architectures, infrastructures and technological enablers for environmental data sharing](#)



**13:30-15:00**

[Metadata catalogues in Europe: present and future](#)



**15:30-17:00**

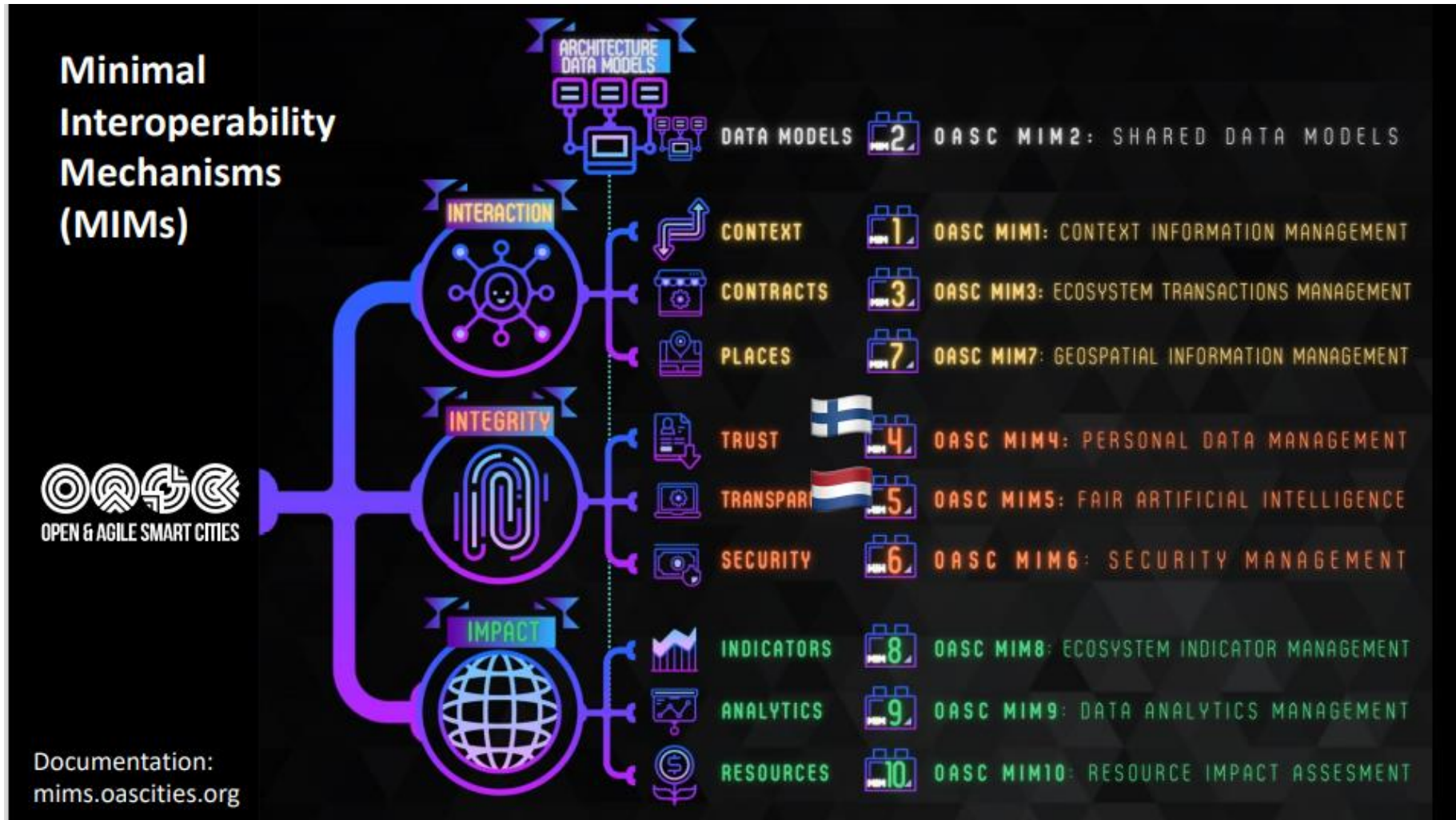
[Past, present and future of INSPIRE: the policy perspective](#)



# Reuse of INSPIRE for the OASC Minimal Interoperability Mechanisms



# Minimal Interoperability Mechanisms



# MIM7 - Places

- Working group recently established
  - OGC
  - EC (JRC, CNECT)
  - OASC
    - cities, associations, businesses
- Led by OASC
- Excellent opportunity for reuse of INSPIRE in smart cities

The screenshot displays the OASC MIMs website interface. On the left is a navigation sidebar with categories: Overview, BASICS (Introduction, Governance), INTERACTION MIMS (MIM1 - Context, MIM3 - Contracts, MIM7 - Places), INTEGRITY MIMS (MIM4 - Trust, MIM5 - Transparency, MIM6 - Security), and IMPACT MIMS (MIM8 - Indicators, MIM9 - Analytics, MIM10 - Resources). The main content area is titled 'MIM7 - Places' and includes a 'Status' section with a progress bar for Work Item, Capabilities, Specification, and Governance. Below this is an 'Objectives' section and a 'Capabilities' section. A right-hand sidebar contains links for 'Edit on GitHub', 'Export as PDF', and a 'CONTENTS' table of contents.

<https://mims.oascities.org/interaction/oasc-mim7-places>



# Thank you



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