

ELISE

European

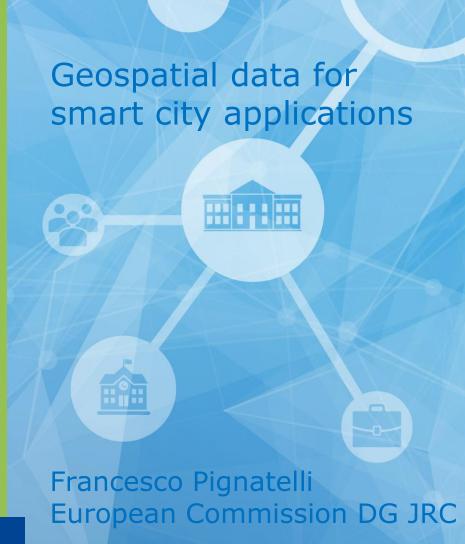
Location

Interoperability

Solutions for

E-Government

The role of smart cities in meeting objectives of the Green Deal INSPIRE Conference 04.06.2020





Key-points

- Re-use of INSPIRE principles for harmonising data sharing conditions
- Build on SDIs which have implemented INSPIRE principles
- The on-going ELISE Action, part of the Interoperability Solution for Public Administration (ISA²) programme, supports innovation through location interoperability framework, studies and applications
- Spatial is not special: "Geospatial" is not just a data category, rather a smart city enabler
- Evolution of SDIs to support data ecosystems and data spaces and the role of High Value Datasets



The role of INSPIRE

ANNEX: 1











ANNEX: 2



Land cover













ANNEX: 3

























Area management / restriction / regulation

zones & reporting units





















The role of INSPIRE



Spatial data sets shall be available for discovery and view from the INSPIRE geoportal (data does not yet need to be conformant to IR-ISDSS)



Spatial data sets shall be available for download and transformation (whenever applicable³) from the INSPIRE geo-portal (data does not yet need to be conformant to IR-ISDSS²)



Newly collected and extensively restructured spatial data sets shall be conformant to IR-ISDSS (incl. metadata for interoperability) and available through network services



All spatial data sets shall be conformant to IR-ISDSS (incl. metadata for interoperability) and available through network services

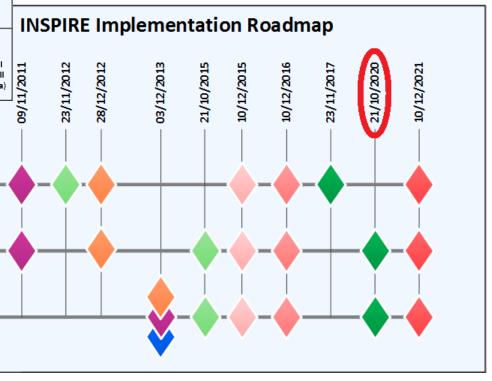


Invocable spatial data services related to newly collected and extensively restructured spatial data sets shall be conformant to Annexes VI and (where practicable) VII of IR-ISDSS (incl. metadata)

All invocable spatial data services shall be conformant to Annexes VI and (where practicable) VII of IR-ISDSS (incl. metadata)

Annex I

Annex III





ELISE supports innovation through location interoperability

EULF BLUEPRINT Location interoperability guidance framework



STUDIES



KEY TOPICS IN LOCATION ENABLED DIGITAL TRANSFORMATION to support data ecosystems
- Location intelligence for policy
and digital public services Technologies for location enabled
innovation - Collaboration
models - User centricity Location privacy - Supporting
innovation, growth and ROI Improving access to spatial
datasets - Managing
data quality



SURVEYS

LOCATION
INTEROPERABILITY
FRAMEWORK
OBSERVATORY
European state of play
based on Blueprint

SOLUTIONS



S

SKILLS

TRAINING & WEBINARS

PILOTS, EVALUATIONS, PRODUCTS Energy / Transport use cases EU Gazetteer, Registry





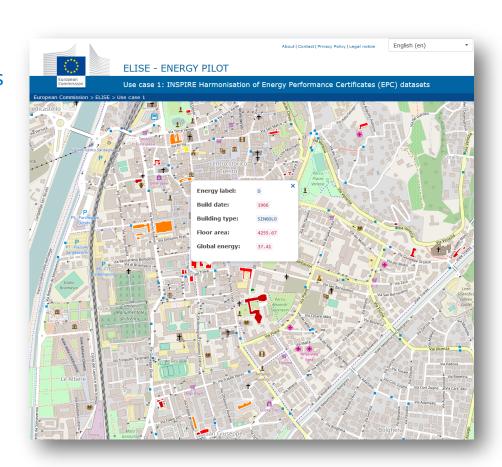
Relevant ELISE studies

- Guidelines for public administrations on location privacy
- INSPIRE support to Multi-Modal Travel Information Services
- The role of Spatial Data Infrastructures in the Digital Government Transformation of Public Administrations
- Artificial Intelligence (AI) in the Public Sector
- Assessment of economic opportunities and barriers related to geospatial data in the context of the Digital Single Market
- Blockchain for Digital Government
- Digital Platform for Public Service
- Digital Government Benchmark API study
- Exploring Digital Government transformation in the EU



ELISE applications in the Energy Efficiency domain

- Use case on the generalisation at EU level of a digital platform for public lighting implemented in Italy in 8.000+ Municipalities
- Use case on the harmonisation of Energy Performance Certificates of Buildings
- Use case on the harmonisation of SECAP (Sustainable Energy and Climate Action Plans), to support smart communities made by 70+ municipalities of the same Province, CoM signatories
- Use case on the harmonisation of energy simulations to assess the energy heat demand of buildings
- Use case on the assessment of energy performance of buildings from energy consumption data from smart meters.





The future: implications and way forward for SDIs (and INSPIRE)

Data ecosystems

- Data ecosystems should be the focus of the SDI (i.e. use case driven)
- Better integration needed for both spatial (e.g. sensor, satellite data) and nonspatial data
- Challenge in supporting multiple data ecosystems in a harmonised way

Collaboration

- Involve users and partners in all SDIrelated governance (demand driven)
- Incorporate citizen and business generated data
- Share learning from good practice innovations in data integration and use
- User feedback key to effective SDI

Innovation

- Support smart city innovation in repeatable ways (city models)
- Understand and support sector innovations (sector models)
- Evaluate and apply new technologies
- Invest in new skills

Data frameworks

- Create standards-based framework for heterogeneous and agile use
- Simplify and modernise data access:
 Simplified metadata, open data, common licensing, IoT, event stream processing,
 APIs, micro-services
- Simplify interoperability models: High value datasets, broader and less deep models, persistent identifiers
- Reassess national data framework and align with European data strategy



Road navigation data ecosystem - static and dynamic data







Traffic Detector

CURRENT LOCATION

Driver Navigation System



TRAFFIC SPEED, DENSITY, FLOW

NAVIGATION SYSTEM UPDATES

Navigation System Vendors



TRAFFIC MESSAGES



Traffic Control Centres

STATIC

MAP DATA EXCHANGE

Private Sector Map Providers



DYNAMIC

SEAMLESS X-BORDER MAPPING

Mapping Agencies / ELF Project



STATIC ROAD DATA CHANGES



Road Authorities



European data strategy enhances geospatial opportunities

Ambition:

"The EU can become a leading role model for a society empowered by data to make better decisions – in business and the public sector"

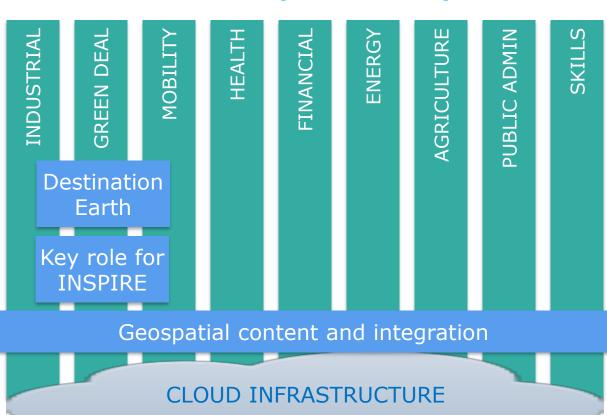
Key elements

- Policy framework
- Business support and integration
- Data spaces
- High value (open) datasets
- Demand driven

Dates

- Q420 Review importance of data and existing policy framework
- Q420 Legislative framework for European data spaces
- Q121 Implementing act for high value datasets
- 2021 Data Act

Common European Data Spaces



Want to know more?

ELISE

European Location Interoperability Solutions for e-Government

Get started: ELISE Action page

Join and collaborate: ELISE Community

Stay tuned: y @EULocation





http://inspire.ec.europa.eu/

The ELISE action is undertaken with the support of <u>ISA</u>².

ISA² is a EUR 131 million programme of the European Commission which develops digital solutions that enable interoperable cross-border and cross-sector public services for the benefit of public administrations, businesses and citizens across the EU.

ISA² supports a large range of <u>actions</u> and <u>solutions</u>. The ISA² solutions can be used free of charge and are open source when related to IT.

<u>ISA²</u> - IT solutions for less bureaucracy **SEP**You click, we link. Follow us on <u>twitter</u>.

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