ELISE state of play

European

Location

Interoperability

Solutions for

E-Government

ISA² Coordination Group

13th October 2017

Brussels

Tallinn Digital Summit: creating a EU digital continent by 2025

Ministers from 32 countries of EU and EFTA have unanimously signed on the 6 October 2017 the Tallinn declaration confirming the commitment to the vision laid out in the EU eGovernment Action Plan 2016-2020 and in the European Interoperability Framework (EIF).

In the **next 5 years** (2018-2022) steps will be taken towards the **declared principles** in EU Public Administrations:

- **"digital-by-default"**
- **"inclusiveness and accessibility"**
- **"once only"**
- **"trustworthiness and security"**
- **"openness and transparency"**
- **"interoperability by default"**

Geospatial technologies fuel the Digital Economy

Technologies accelerating the use of location intelligence

Accelerator	"Smart" devices	Sensors	Cloud storage	Machine learning	Remote imagery	BIM/CAD/GIS integration	IPv6 technology
Impact	Mobile devices that can detect location, direction and movement, enabling context-based interaction between government and citizens	Sensors provide constant data collection about our physical and natural infrastructure, offering a vibrant picture of trends across a range of data sources	Cloud-based storage allows for the collection, scaling and processing of vast amounts of location data, and enables geo-data sharing	By 'learning' from historical spatial data, computer algorithms can scan new data to identify anomalies and patterns that yield predictive insight	A blend of commercial and government satellites, planes and drones provide a near real-time picture of the changing conditions on the Earth's surface	The integration of Building Information Modeling, Computer Aided Design and Geographic Information Systems enables analysis inside and outside of structures	Internet Protocol Version 6 will expand the number of unique addresses on the Internet, improving geolocation
Today	Geotagged tweets and text messages are used to connect with citizens	Cities can monitor and track air quality to inform better regulations	Agencies share geo-data on a common platform	Law enforcement can create predictive models for violent crimes	Imagery provides awareness about events like natural disasters, migration patterns and foreign conflicts	Site planners and inspectors use GIS and building specifications to perform more uniform evaluations	Road signs, utilities and other infrastructure are connected to the Internet
Tomorrow	Government uses geofencing to push information to individuals based on location	Government can trace contaminated food to its source immediately, and even predict an outbreak	Real-time data from millions of sources are securely available anywhere, anytime	Unstructured social data becomes instant insight for policy makers	More granular imagery allows for remote monitoring of public infrastructure to predict future needs	Directions continue seamlessly from outdoors to inside buildings	Emergency managers rapidly assess damage using data points from thousands of inanimate objects

Graphic: Deloitte University Press | DUPress.com

http://government-2020.dupress.com/driver/geospatial-technology//

Deloitte.

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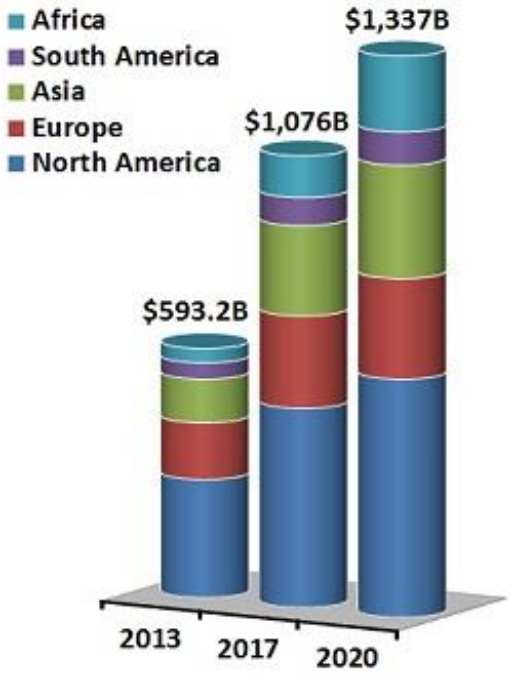
ISA²

Geospatial technologies fuel the Digital Economy

- In **2020**, the **location-based service** market will be a **US$1.3 trillion** industry(1)
- In **2020**, use of **geo-location data**, including GPS, will generate **US$500 billion** in consumer value(2)
- Geographer **jobs will grow** by 35% per annum, while those of cartographers and photogrammetrists will grow by 22% **between 2010 and 2020**(3)

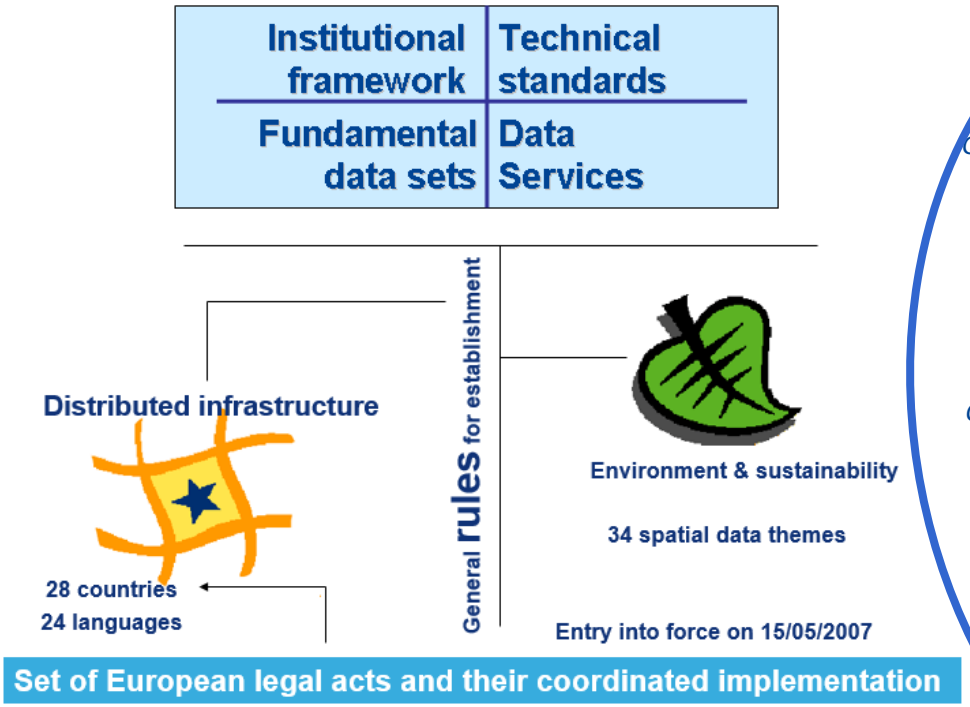


Location-based services market forecast – 2013-2020

1. *"Location Based Services – Market and Technology Outlook – 2013-2020," Market Info Group LLC, http://www.marketinfogroup.com/location-based-services-market-technology/*
2. *"Implications of the ICT Skills Gap for the Mobile Industry," MacLeod Consulting, http://www.gsma.com/events/wp-content/uploads/2013/08/ICT-Skills-Gap-Research.pdf*
3. *$3.7 Billion Reasons Why GIS Technology is The Future," American Sentinel University, http://www.americansentinel.edu/about-american-sentinel-university/newsroom/3-7-billion-reasons-why-gis-technology-is-the-future*

INSPIRE, Europe's *"lingua franca"* for anything geospatial

Directive 2007/2/EC of the European Parliament and of the Council of 14 March 2007 establishing an Infrastructure for Spatial Information in the European Community (INSPIRE)



Directive 2013/37/EU of 26 June 2013 amending Directive 2003/98/EC on the **re-use of Public Sector Information** *(PSI) Directive 2003/98/EC*

Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee, and the Committee of the Regions: **A Digital Agenda for Europe** *- COM(2010) 245 final/2*

Digital Single Market

Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee, and the Committee of the Regions: **EU eGovernment Action Plan 2016-2020** *COM(2016) 179 final*

The New **European Interoperability Framework** *COM(2017) 134*

EU implementation of the
G8 Open DataCharter

EU Open Data Strategy

Tallinn Declaration on ***eGovernment***

ISA²

ELISE: ongoing and future activities

Barriers and opportunities of location information

Role of location data in digital platforms

Geodata and Statistics

Support to Multimodal Travel Information Services

Digital Transformation of government

Assessing barriers and enablers to interoperability

Feasibility studies

Assessment studies

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Recommendations

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Common services

Spatial Data on the Web

EU Gazetteer study

Location Interoperability guidance and blueprint

Solution patterns inventory

INSPIRE Test framework

ELISE Network of national experts

Location interoperability Observatory

Location-related ICT assessments of new policy

Stakeholder engagement

Awareness raising publications / events

Training

Landscape Analysis

Capacity Building

Stakeholder Support

Helping implement interoperability

Pilot projects

Partnerships and Collaborations

Showing the benefits of interoperability

Energy Efficiency of Buildings

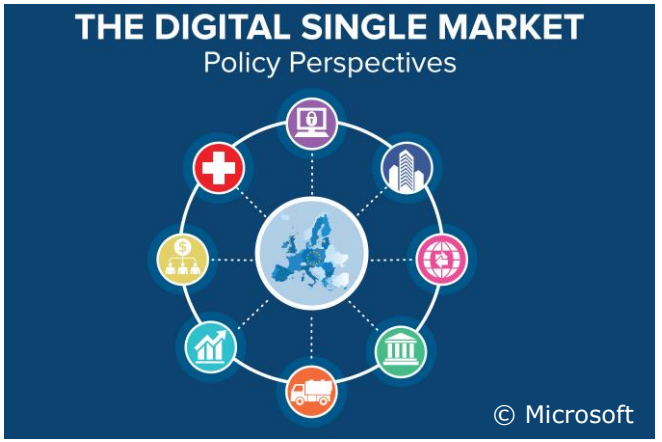
ITS Road Transport Data exchange

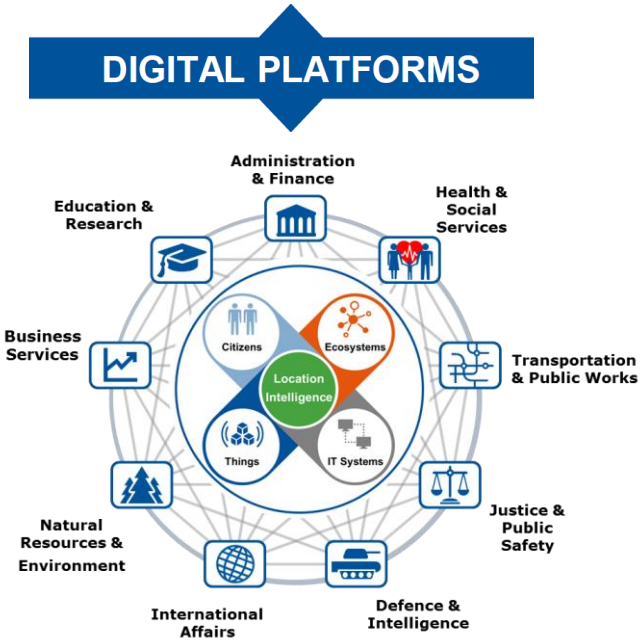
ELISE is active in supporting several EU policy initiatives

- **European Interoperability Framework** – Implementation Strategy (Interoperability Action Plan) SWD (2017) 112 final
  - **Action 4:** *Expand and maintain the NIF Observatory to monitor implementation of the EIF and compliance of national interoperability strategies/frameworks with the EIF. Also, monitor and assess interoperability action plan's implementation.*
  - **Action 6:** *Clarify and propose ways to formalise public administrations' organisational relationships as part of the establishment of European public services. Identify and develop common process models to describe business processes. Identify best practices.*
  - **Action 17:** *Further support the implementation and enhancement of the INSPIRE Directive though the use of geospatial data in digital public services.*
  - **Action 19:** *Develop a method to assess the possible ICT impact of legislation at EU or, if possible, national levels; identify legislation that hampers interoperability (including legal screening); perform digital checks on proposed or existing policies and legislation; support actions facilitating the preparation and coherence of legislation.*
- The **review of PSI Directive** (2013/37/EU) - spring 2018
- **INSPIRE Directive** (2007/2/EC) implementation (deadlines:11/17, 02/18, 10/20, 12/21)
- **EU eGovernment action plan 2016-2020** COM(2016) 179 final
  - **Action 19:** *Accelerate the deployment and take-up of the INSPIRE Directive data infrastructure*

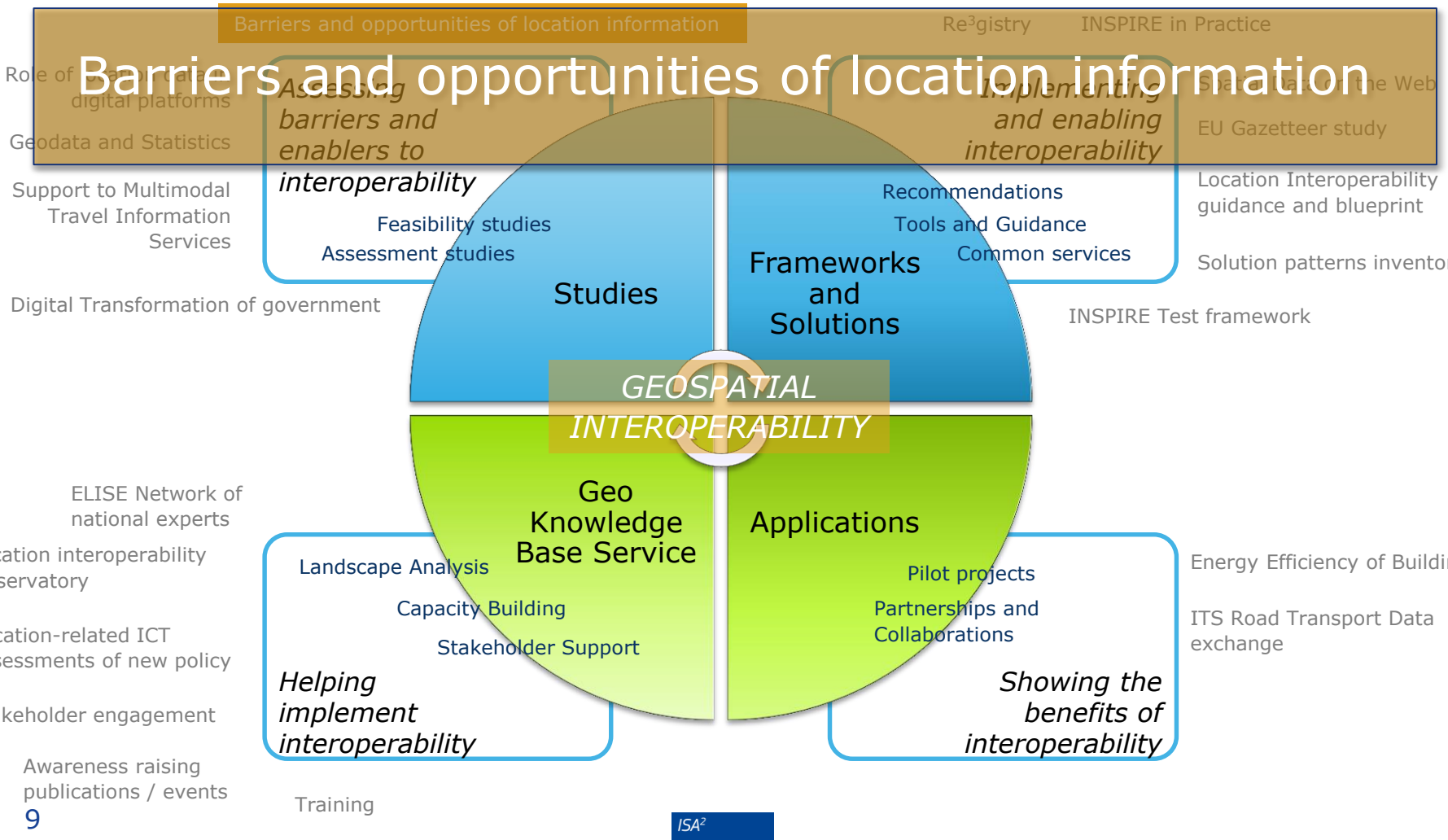
ELISE and the Digital Economy

- The **Digital Single Market** aims at creating **economic growth** and ensuring Europe remains competitive on a global level in the **digital and data economy**
- The evolution of **Digital Platforms** (public and private) is expected to greatly impact data and knowledge intensive markets (financial services, governments, transportation, etc.)
- **Location-enabled services** as well **location data** play an essential in almost all of these **Digital Platforms** and the importance of **location intelligence** is increasing thanks to the more than **30 billion** location aware **devices** that will be connected to the "**Internet of Things**" **by 2020**
- Europe should **understand how** location-enabled digital **platforms** might **impact** the European **digital and data economy** in large-scale public and private sector and across **different industries**, i.e. Automotive, Maritime, Aviation, Rail, Space, Environment etc.





ELISE: ongoing and future activities



Study approach

European data-driven Economy

This study should be seen in the context of the creation of a **European data-driven economy**, which is essential to ensuring a functional **digital single market**.

Commission Communication

Building on this, the European Commission adopted a Communication on **'Building a European Data Economy'**, in January 2017, aimed at ensuring improved data flows across borders and sectors.

Relevance to the geospatial domain

The Commission Communication outlines emerging **issues relevant to the geospatial domain** such as the **availability, access and interoperability** of data sets, which are necessary for the development of geospatial data-based services and products useful to actors involved in the "geospatial value chain".

Analyse

Five different case studies exhibiting the use of geospatial data for creation of products and services

Assess

The value created from the use of geospatial data and identify existing barriers to its wider reuse as well as the associated opportunities

Propose

Policy recommendations to help eliminate existing barriers to the use of geospatial data and to realise the identified opportunities

Five Case Studies

1. PDOK (NL)
2. The Foodie Project (DE, CZ, PL, LV, ES)
3. Smart Open Data Portugal Spain Pilot (ES, PT)
4. Innovate UK (UK)
5. Danish Basic Data programme (DK)

Stakeholder Interviews

- ✓ Interviews were held with identified stakehodlers within each case study.
- ✓ Stakeholders included: public administrations, national agencies, research bodies, private companies (including SMEs).

Data Analysis

- ✓ Collected data was complemented by desk research;
- ✓ The data analysis was done along the main research questions of the study.

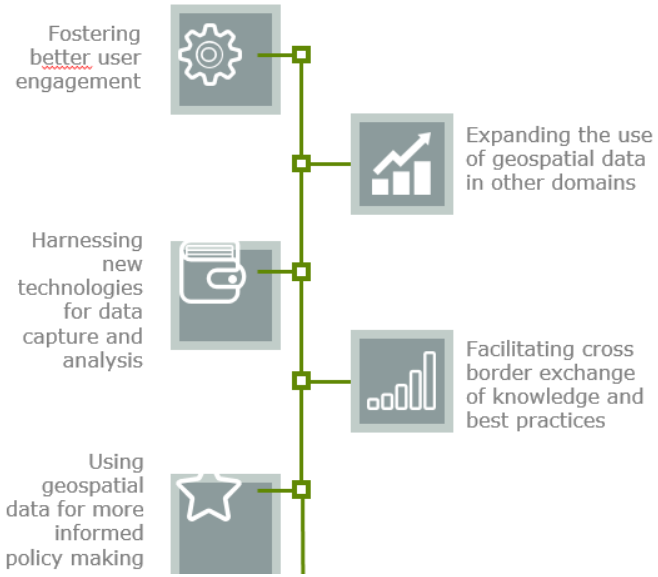
Value Created

Identified barriers

Future Opportunities

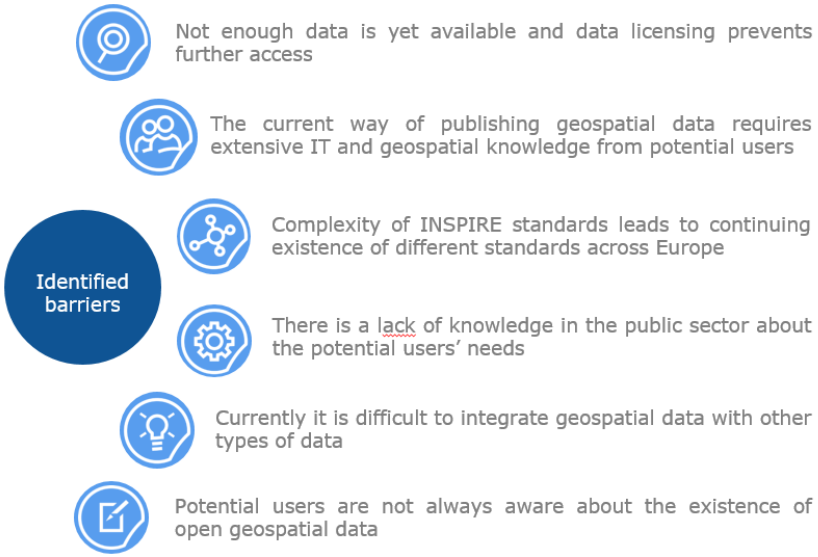
Preliminary findings

Future Opportunities

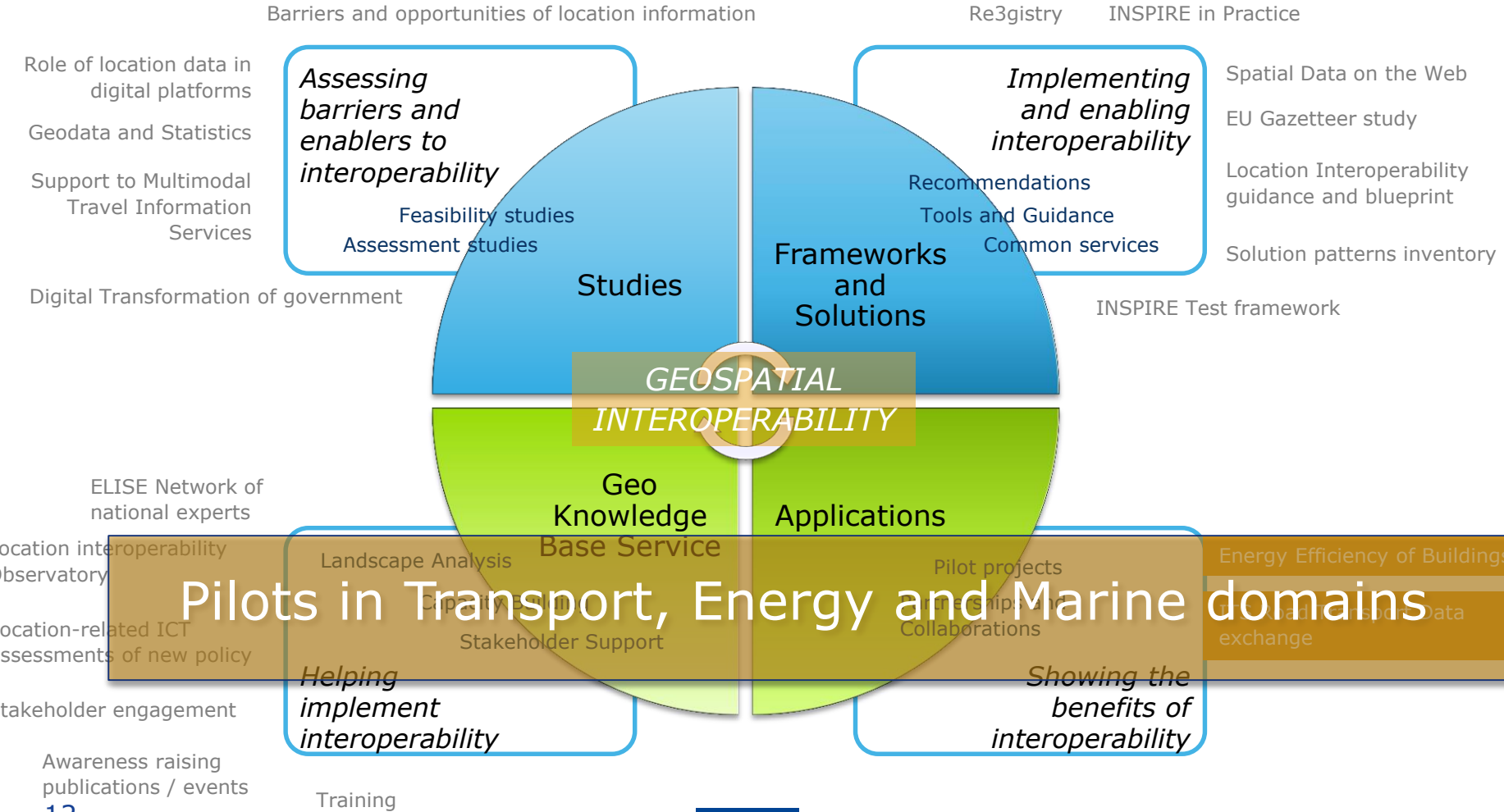


Value Created

Identified barriers



ELISE: Ongoing and future activities



Pilots for Business opportunities

Transportation Pilot

Commercial map providers like **HERE** and **TomTom** need **road** network **data** that are

- consistent
- accurate
- up-to-date

In the **Transportation Pilot**, **INSPIRE** standards are used to get **geospatial data from public administrations**

Significant **reduced error rates in maps of from 25% to 7%**, and Road Authorities (SE, NO) upgraded **from quarterly to daily updates** to map providers

Commercial map providers able to move **from disparate** national processes **to more standardised processes** in EU countries

Pilot now being **rolled out across Europe** under CEF – Transport (**14 countries**)

Next step to open solutions to **ALL industry players**

Up-to-date flow of road safety data between National Road Authorities and private map providers

http://publications.jrc.ec.europa.eu/repository/handle/JRC104569

Published in December 2016

https://www.youtube.com/watch?v=jnny5ATwTYE

https://joinup.ec.europa.eu/page/eulf-transportation-pilot

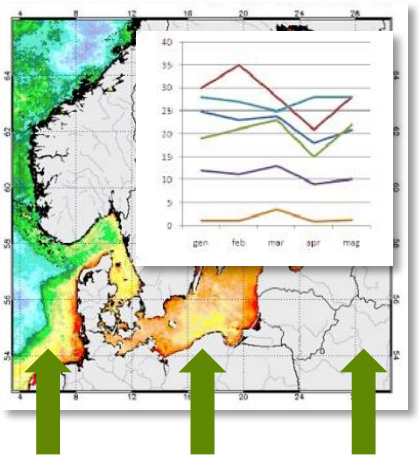
Pilots for Better Regulation

Marine Pilot

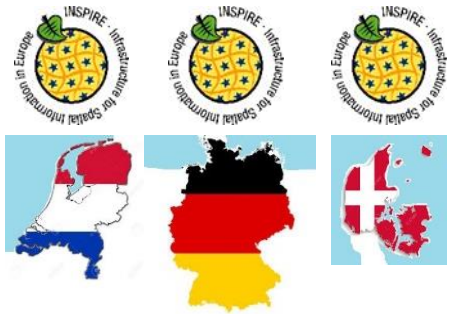
Monitoring marine environment is needed for **multiple EU & international laws**

Data can be re-used easier in cross-border applications if:

- harmonised
- up to date
- exposed via services



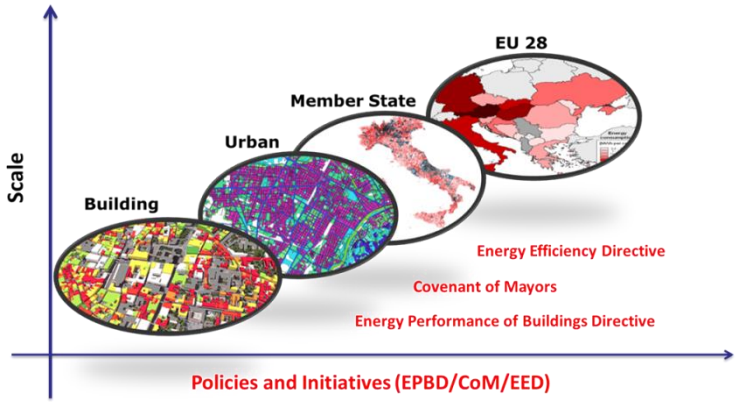
The **Marine Pilot** implements INSPIRE standards to support **marine data re-use**



https://www.youtube.com/watch?v=ROJqljr8aDU&feature=youtu.be

https://joinup.ec.europa.eu/community/eulf/og_page/eulf-marine-pilot

Energy Pilot



Energy efficiency policy landscape includes **several Directives requiring data with different scales and accuracy**

Location data can help **scale-up methodologies** from building to local to regional to national level

INSPIRE can **facilitate** the collection, harmonization, elaboration, access to and sharing of reliable data

https://joinup.ec.europa.eu/community/eulf/og_page/eulf-energy-pilot

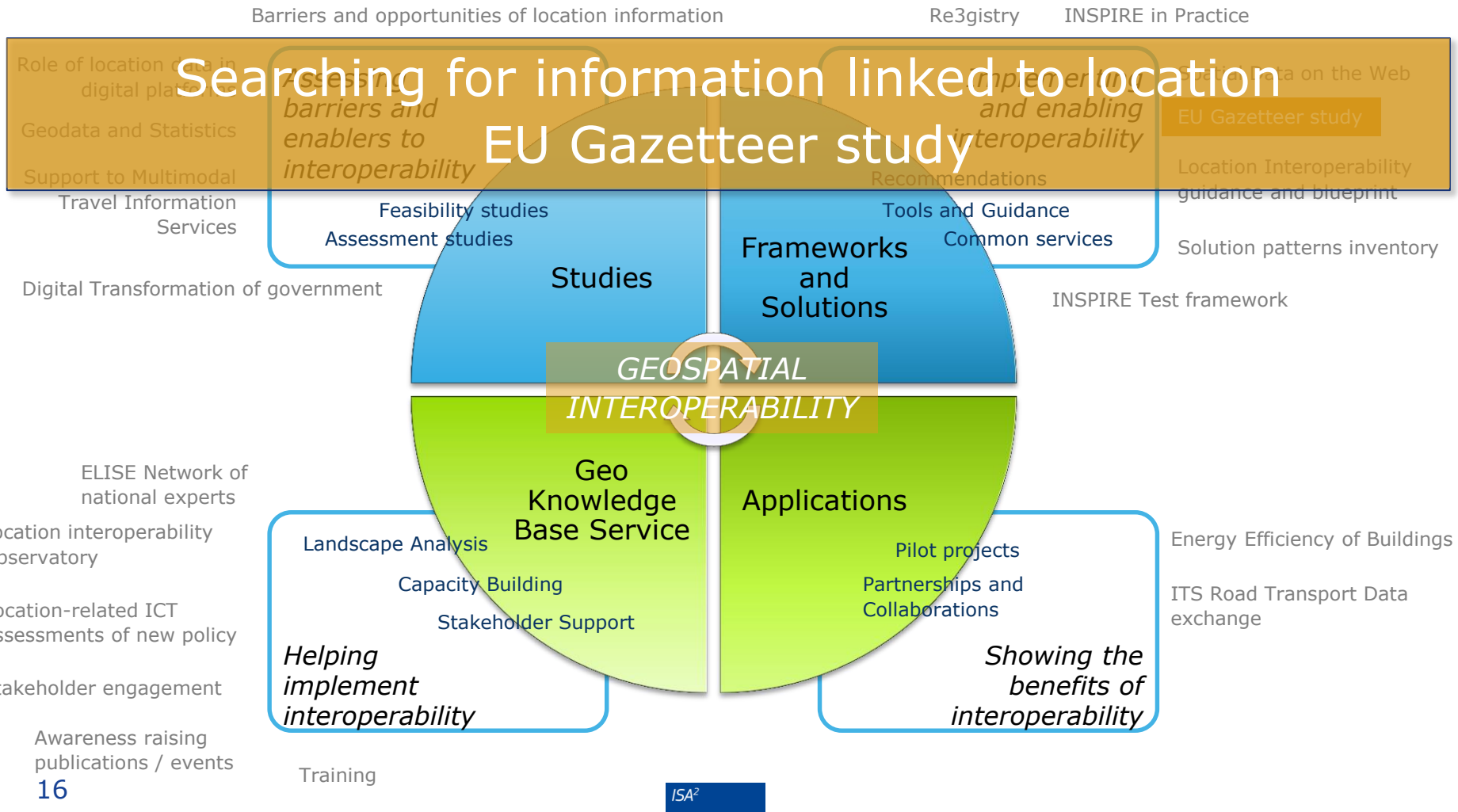
Focus on Buildings (EPBD)

According to studies conducted by BPIE (Buildings Performance Institute Europe):

- Buildings are responsible for the 40% of final energy consumption
- Over 75% of building stock is older than 25 years
- Averaged final energy consumption data: 185 kWh/m^2 for residential buildings and 280 kWh/m^2 for non-residential buildings
- Deep renovation of buildings could cut 36% of their energy consumption by 2030

Pilot will be tested by means of Use Cases with various actors: public authorities at regional and local level, businesses working in the energy sector, citizens

ELISE: ongoing and future activities



What is a gazetteer?

- A **place names dictionary**
- **Unambiguously** defines a geographic location
- Typical gazetteer service functions and data:

Locate

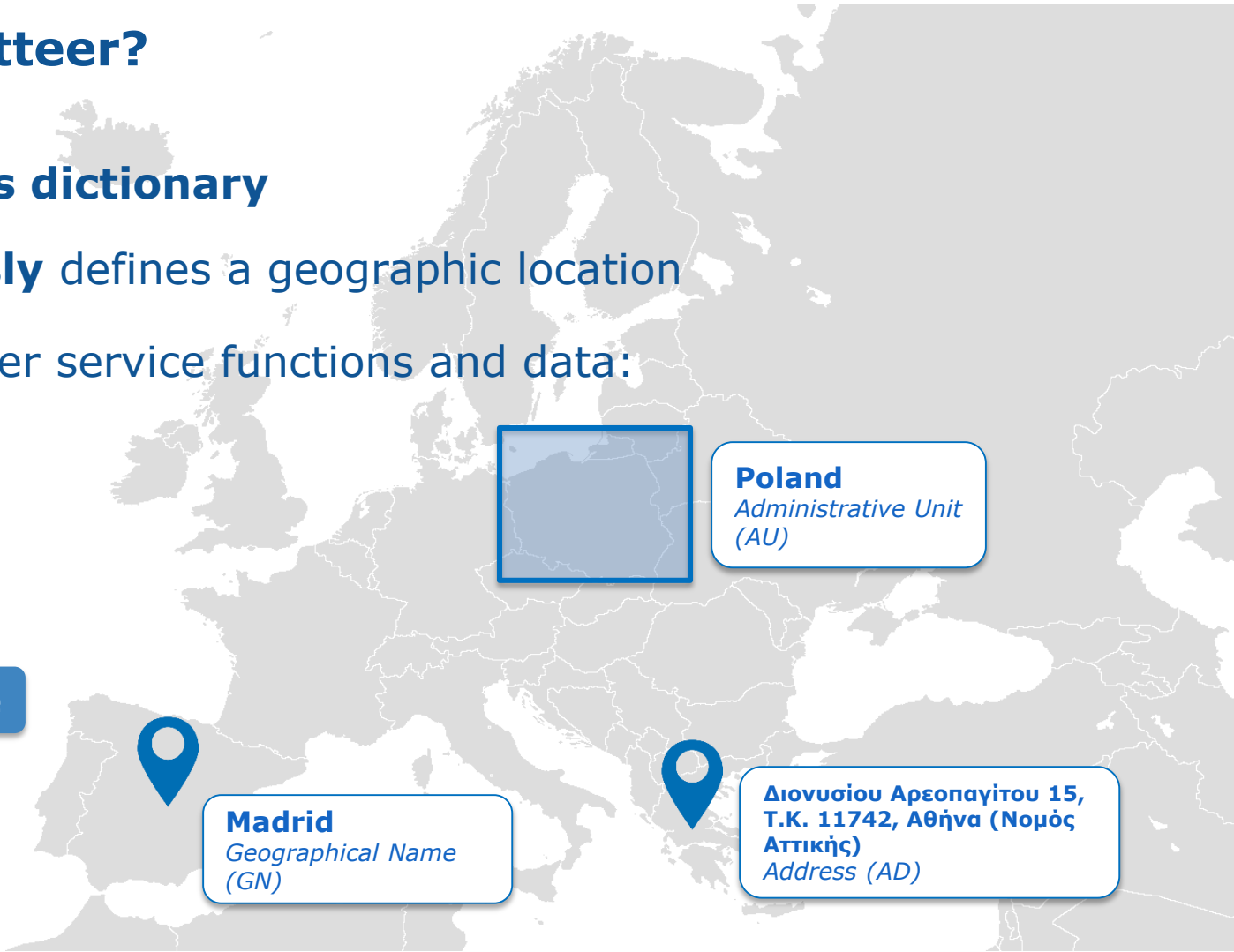
Disambiguate

Geocode

Reverse Geocode

Lookup

Link



Rationale for an EU-Gazetteer

- Increasing number of neighbouring and pan-European data initiatives:
  - Provide growing data resources, often under open licences
  - **Need an integrated EU-gazetteer** to support their processes
  - Often elect to develop their own custom gazetteer...
- There is not yet a gazetteer for the whole of Europe that is:

European Data portal

INSPIRE

Copernicus

DRDSI

Interreg

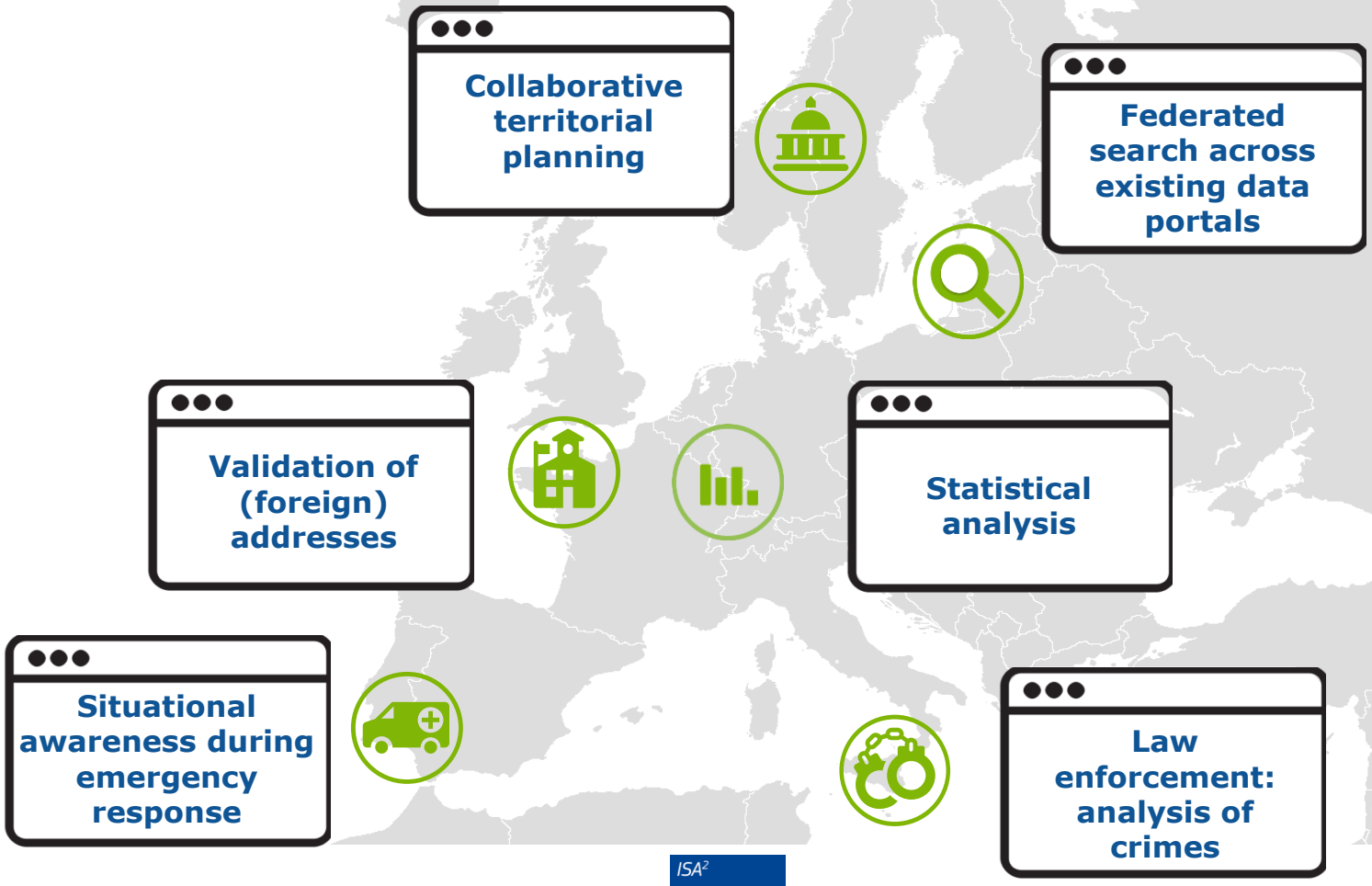
Official

Open

Free

? Would it not be better to create a common EU-Gazetteer?

Potential cross-border applications for an EU Gazetteer



The ELISE EU gazetteer project proposition*:

A pilot service potentially including geonames, admin units and addresses

- Maximise the use of **authoritative GN and AU** data
- Fill gaps with **best available non-authoritative data**
- **Attribution of data sources** (authoritative vs. non-authoritative)
- Service available through an **API** to enable reuse
- **Open licence**, free at point of use for all MS
- Involvement of **multiple Member States**
- Supporting **priority applications**
- Use **ISA²** to develop and evaluate a service that can be made operational, possibly using **CEF**

* To be confirmed by the survey

ELISE: ongoing and future activities

Barriers and opportunities of location information

Re3gistry

INSPIRE in Practice

Reusable Tools – the Re³gistry

Role of location data in digital platforms

Geodata and Statistics

Support to Multimodal Travel Information Services

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Assessing barriers and enablers to interoperability

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Studies

Implementing and enabling interoperability

Recommendations

Tools and Guidance

Common services

Frameworks and Solutions

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Training

Geo Knowledge Base Service

Landscape Analysis

Capacity Building

Stakeholder Support

Helping implement interoperability

Applications

Pilot projects

Partnerships and Collaborations

Showing the benefits of interoperability

Energy Efficiency of Buildings

ITS Road Transport Data exchange

A reusable tool for sharing reference data to support semantic interoperability

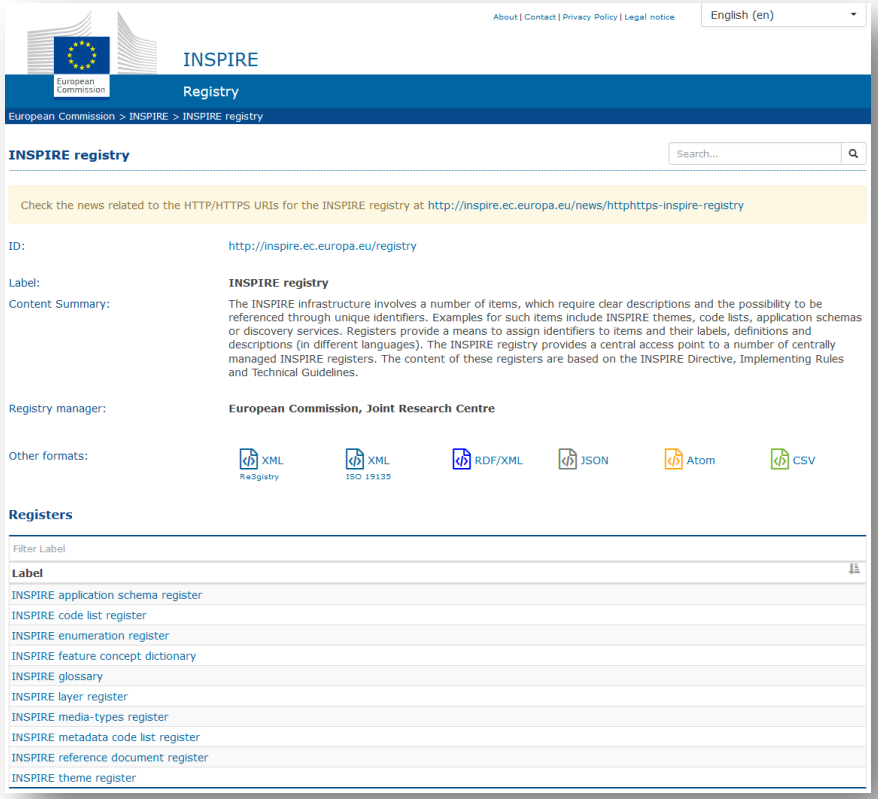
Re³gistry

Reusable software powering:

- The official pan-European **INSPIRE Registry**
- Slovakian registry
- Austrian (CCCA) registry
- FYROM registry
- Italian (AgID) registry
- French registry
- Finnish registry

...including beyond INSPIRE:

- GeoSmartCity registry
- SEMIC Core Vocabularies registry
- SEMIC EU Budget Vocabulary
- ELISE Energy Pilot registry

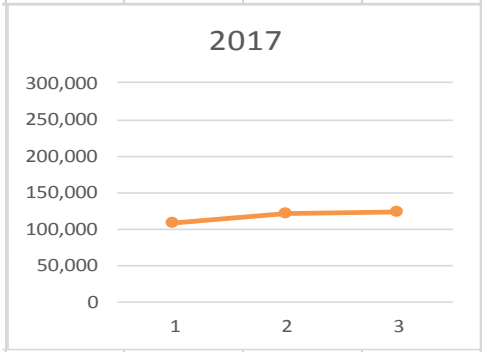


Re³gistry

2017 highlights

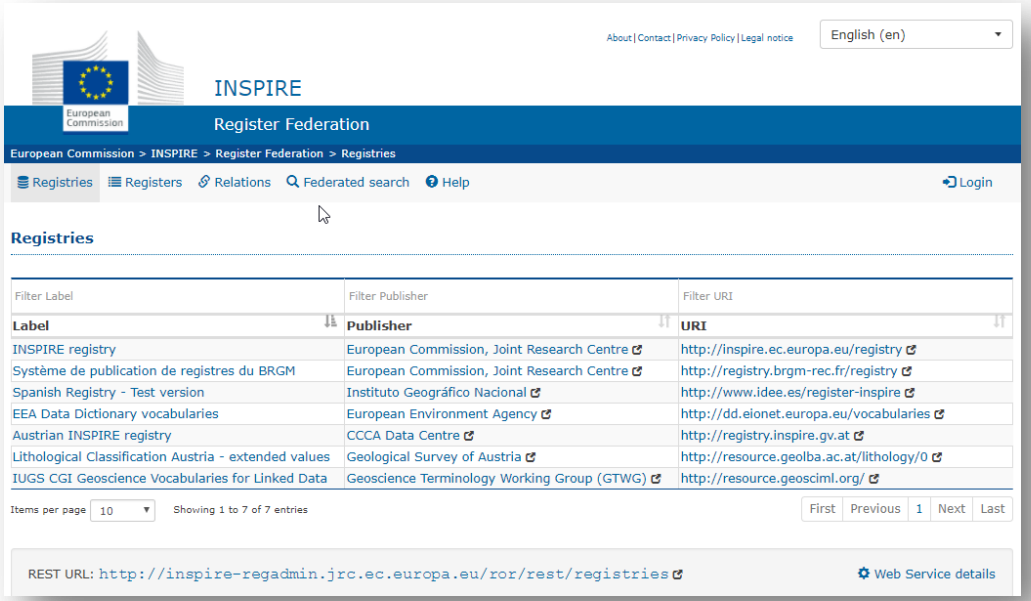
Increased usage of the service

Q1	Q2	Q3	Q4
107,099	120,307	123,872	0
351,278			



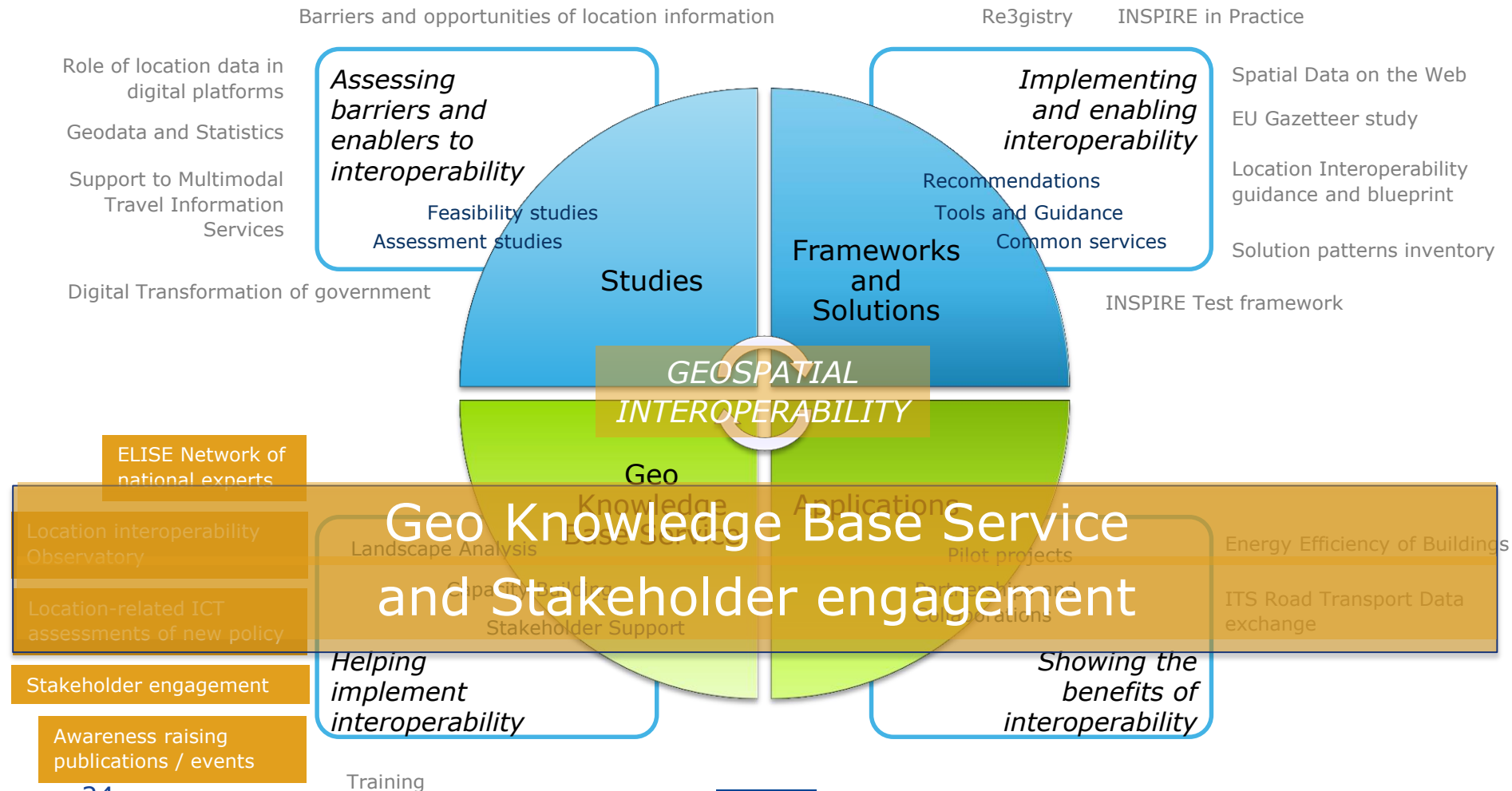
Published technical guidance

Full testing of the *Registry of Registries*



"Technical Guidelines & Best Practices for INSPIRE registers and registries"

ELISE: ongoing and future activities



Geo Knowledge Base Service and Stakeholder engagement

Geo Spatial Knowledge Base Service (KBS)

- Support policy makers, application developers, business and citizens apply INSPIRE in other domains/initiatives beyond environment
- Support DIGIT in their assessment of ICT implications of EU legislation where location information and associated processes are relevant
- Share evidence, best practices and benchmark developments across Europe by operating an observatory, complementing NIFO, supported by a network of experts
- Enable the EC and Member States to build capacity by transferring knowledge targeting public, administration, business and citizens
- Expanding communication and engagement activities for awareness-raising and the uptake of results

ELISE links with other ISA² Actions

National Interoperability Framework Observatory (NIFO)

Location interoperability observatory development in coordination with NIFO

ISA² Communications

Communication and stakeholder engagement support

EIRA EUROPEAN INTEROPERABILITY REFERENCE ARCHITECTURE

SDI representation according to EIRA – Solution patterns

SEMIC SEMANTIC INTEROPERABILITY COMMUNITY

Core Location Vocabulary – GeoDCat - AP

ICT Implications of EU Regulations

Coordination with DIGIT to include location information and services

EUSurvey

Reused in all the ELISE survey

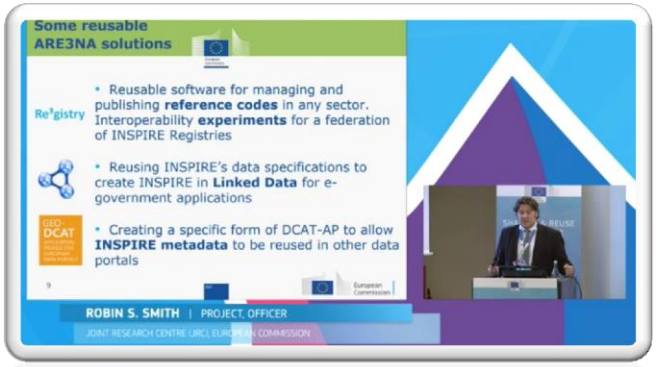
joinup

ELISE solutions and community on joinup

ELISE
Stakeholders
European Commission
ISA²
European Commission
environment
MOVE
DIGITAL
eurostat
INSPIRE - Infrastructure for Spatial Information in Europe
MARE
CONNECT
European Commission
Directorate-General for Energy
OSGeo
EUROGI
UN GGIM
W3C
ELISE
#EUopendata
EIRA
EUROPEAN INTEROPERABILITY REFERENCE ARCHITECTURE
OGC
here
ERTICO ITS EUROPE
eulf
joinup
ARe³NA
FOODIE
SME SPIRE
TOMTOM
EuroGeographics
GEONOVUM
FOSS4G BOSTON 2017
aprie
ISA²

Events organisation and participation

1° ISA² Geospatial Solutions WG
April 2017



Sharing and Reuse Conference, March 2017

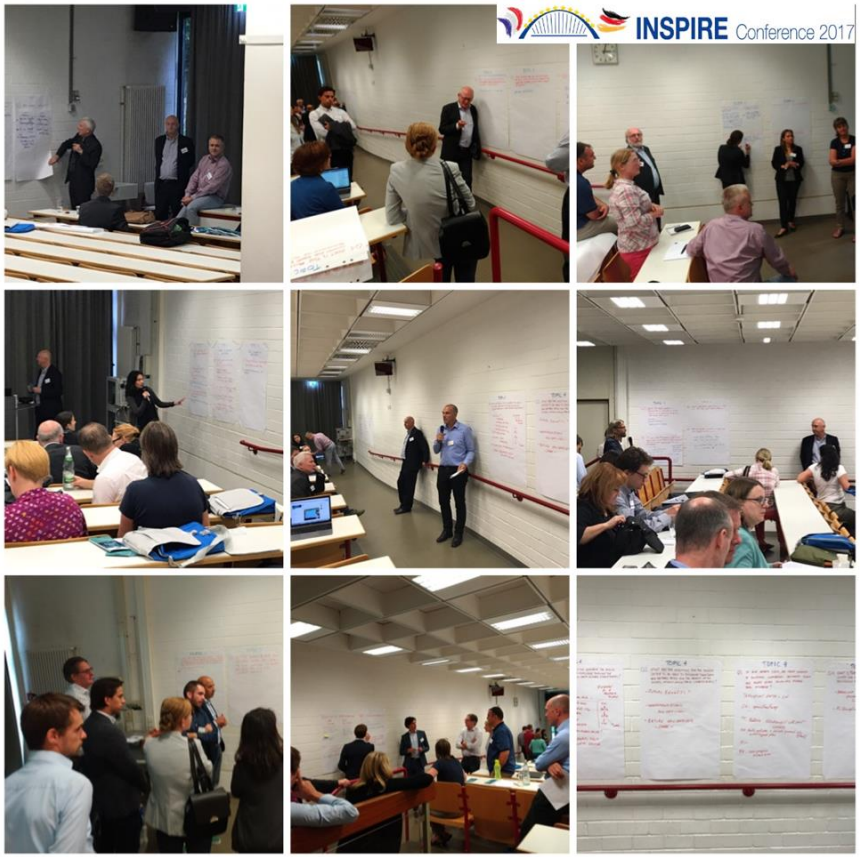
Geosmartcity final conference, January 2017

FOSS4G Conference, July 2017

Webinars on Blueprint, EU Gazetteer, RDF and INSPIRE validator

INSPIRE Conference, September 2017

New directions in Digital Government using INSPIRE ELISE Workshop, 4/9/2017



- Transition from e-Government to Digital Government to be clarified
- Raise awareness in Public Administrations about benefits of innovating external interactions and internal processes
- Mind-set change needed in Public Administration to publish data considering users' needs
- Artificial intelligence, machine created data validation and digitalisation of services key technology trends
- Vital to build on SDIs to make spatial data available to a wider audience (e.g. crawlable on the web)
- Private sector role as an intermediator to provide added value services on top of public data and stimulate competition

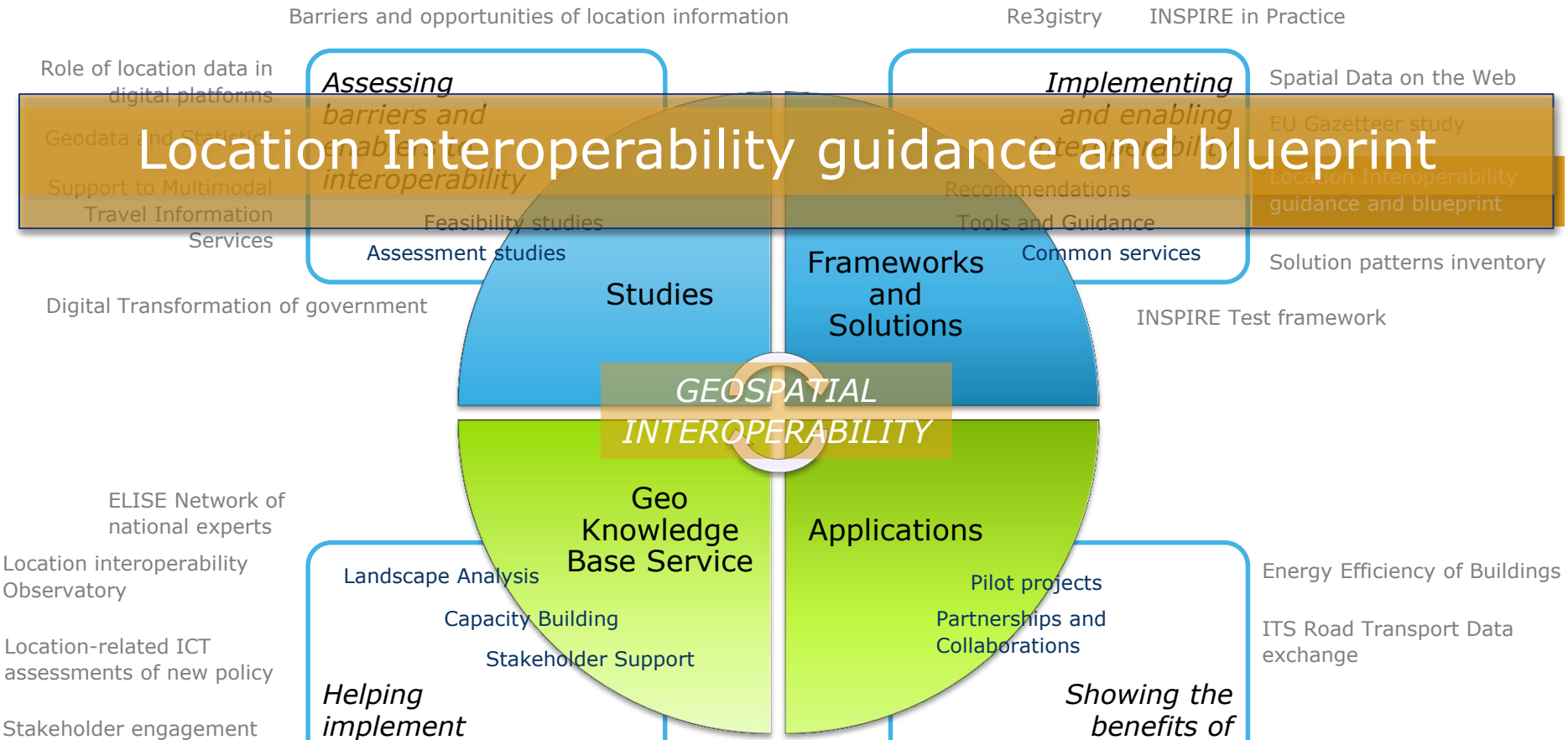
New ELISE visual identity - @EULocation

https://joinup.ec.europa.eu/community/elise/description
https://ec.europa.eu/isa2/actions/elise_en

Collaboration opportunities for Member States

- Involvement in **shaping and steering** the **ELISE activities through** the **Working Group**
- Provide **advice and expertise** for **studies and guidelines**
- Contribute **to the location interoperability observatory** as **MS expert**
- **Testing** and development of **geospatial interoperability tools** and solutions
- **Reuse of solutions** (e.g. Re^{3}gistry, application pilot solutions) **and best practices** (e.g. Blueprint and detailed guidance) + contributions to improve the knowledge base
- **Cooperation in pilot applications** in the field of energy, transport and common services (Gazetteer)
- Possibility for pan-European and international projects/initiatives to **participate in pilot applications** as partners or observers

ELISE: ongoing and future activities



The Blueprint is comprehensive and actionable

Policy and strategy alignment	Digital government integration	Standardisation and reuse	Return on investment	Governance, partnerships and capabilities

18 recommendations to reach the EULF vision

Recommendation 1:
Connect location information

Why:
Core location information …

How:
ICT strategies …

Challenges:
Lack of understanding by policy makers…

Best Practices:
#1: A 'generic GIS …

Find detailed guidance for on …in **Guidelines for …**

Annexes

- Best Practices
- Role-based methodologies
- Further reading
- Document background

The role-based methodologies indicate the relevant recommendations that should be considered when undertaking the typical tasks for each of these roles.

Policymaker

Preparation	Adoption	Implementation	Application

INSPIRE Data Publisher

Plan for INSPIRE	Identify spatial data sets	Create and maintain reusable spatial data sets	Provide discovery, view and trans-formation services	Monitor and report on INSPIRE	Support use of spatial datasets

ICT Manager and Developer

Plan	Design	Develop and test	Release, operate and maintain	Review and improve

Data Manager

Data policy and governance	Data spec-ification and modelling	Data acquisition and quality	Data documentation, organisation and control	Data access, sharing and dissemination	Data ware-housing and analytics	Data archiving

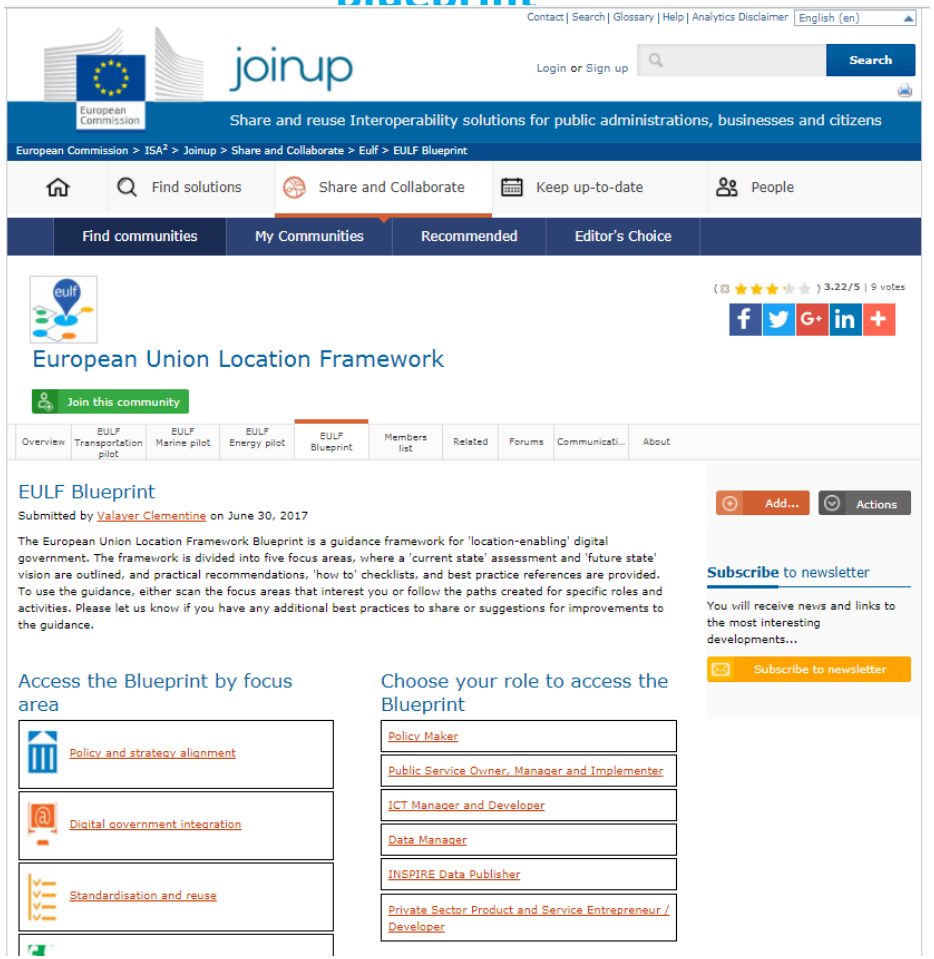
Digital Public Service Owner, Manager and Implementer

Plan	Design	Develop and test	Introduce and operate	Review and improve

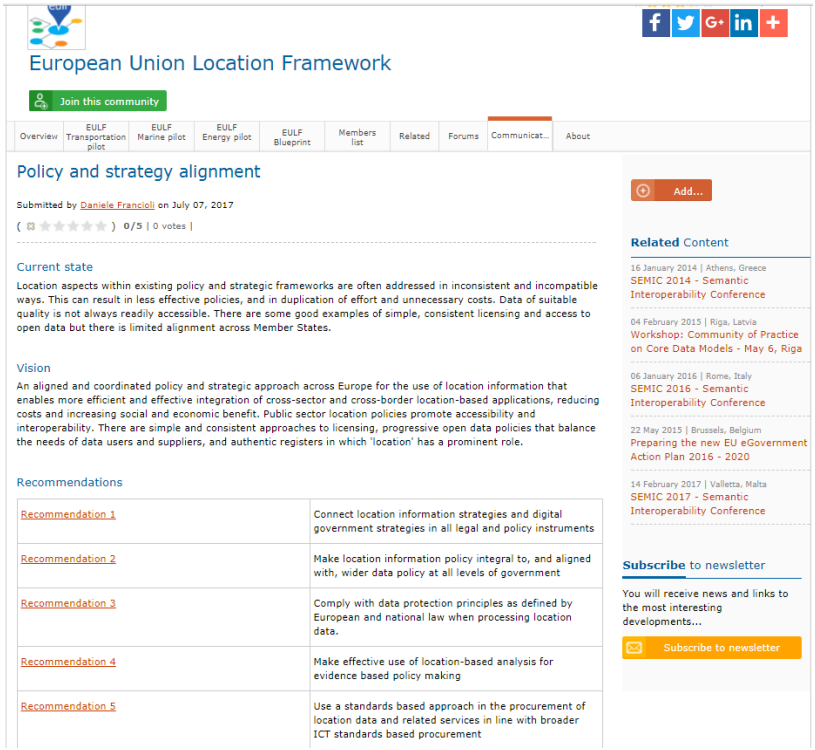
Private Sector Product and Service Developer/Entrepreneur

Insight and definition	Prototyping and development	Testing and evaluation	Marketing and sales	Deployment	Maintenance and support

The online version: https://joinup.ec.europa.eu/community/eulf/og_page/eulf-blueprint



Access along focus areas



European Union Location Framework

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Policy and strategy alignment

Submitted by Daniele Francioli on July 07, 2017

( ) 0/5 | 0 votes |

Current state

Location aspects within existing policy and strategic frameworks are often addressed in inconsistent and incompatible ways. This can result in less effective policies, and in duplication of effort and unnecessary costs. Data of suitable quality is not always readily accessible. There are some good examples of simple, consistent licensing and access to open data but there is limited alignment across Member States.

Vision

An aligned and coordinated policy and strategic approach across Europe for the use of location information that enables more efficient and effective integration of cross-sector and cross-border location-based applications, reducing costs and increasing social and economic benefit. Public sector location policies promote accessibility and interoperability. There are simple and consistent approaches to licensing, progressive open data policies that balance the needs of data users and suppliers, and authentic registers in which 'location' has a prominent role.

Recommendations

Recommendation 1	Connect location information strategies and digital government strategies in all legal and policy instruments
Recommendation 2	Make location information policy integral to, and aligned with, wider data policy at all levels of government
Recommendation 3	Comply with data protection principles as defined by European and national law when processing location data.
Recommendation 4	Make effective use of location-based analysis for evidence based policy making
Recommendation 5	Use a standards based approach in the procurement of location data and related services in line with broader ICT standards based procurement

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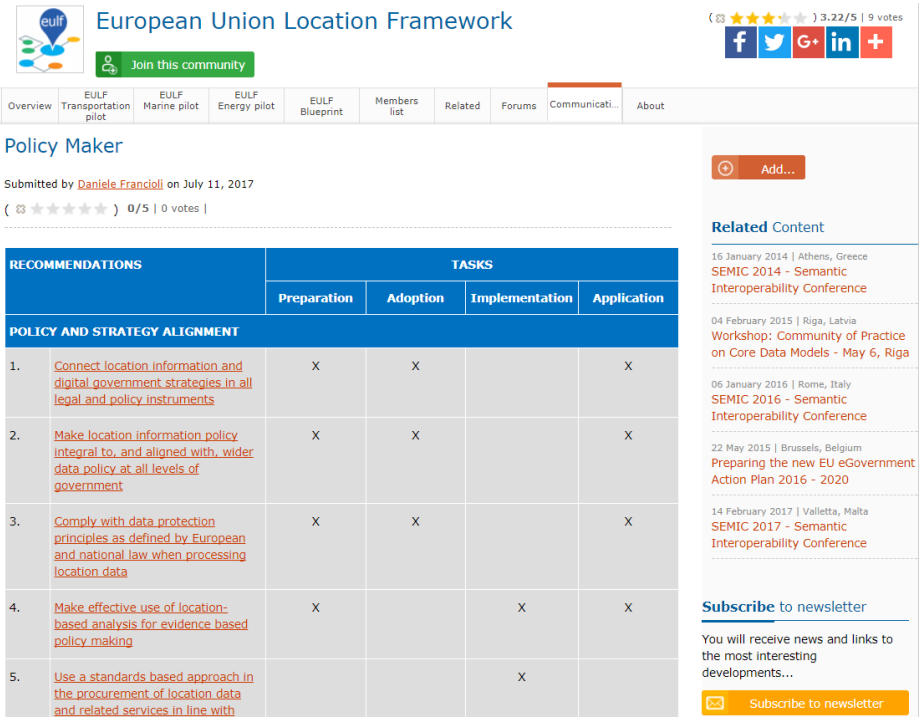
Access through your role



European Union Location Framework

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Policy Maker

Submitted by Daniele Francioli on July 11, 2017

( ) 0/5 | 0 votes |

RECOMMENDATIONS		TASKS			
		Preparation	Adoption	Implementation	Application
POLICY AND STRATEGY ALIGNMENT					
1.	Connect location information and digital government strategies in all legal and policy instruments	X	X		X
2.	Make location information policy integral to, and aligned with, wider data policy at all levels of government	X	X		X
3.	Comply with data protection principles as defined by European and national law when processing location data	X	X		X
4.	Make effective use of location-based analysis for evidence based policy making	X		X	X
5.	Use a standards based approach in the procurement of location data and related services in line with			X	

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ELISE: ongoing and future activities

Barriers and opportunities of location information

Re3gistry

INSPIRE in Practice

Role of location data in digital platforms

Spatial Data on the Web

Geodata and Statistics

EU Gazetteer study

Support to Multimodal Travel Information Services

Location Interoperability guidance and blueprint

Solution patterns inventory

Digital Transformation of government

INSPIRE Test framework

ELISE Network of national experts

Location interoperability Observatory

Location-related ICT assessments of new policy

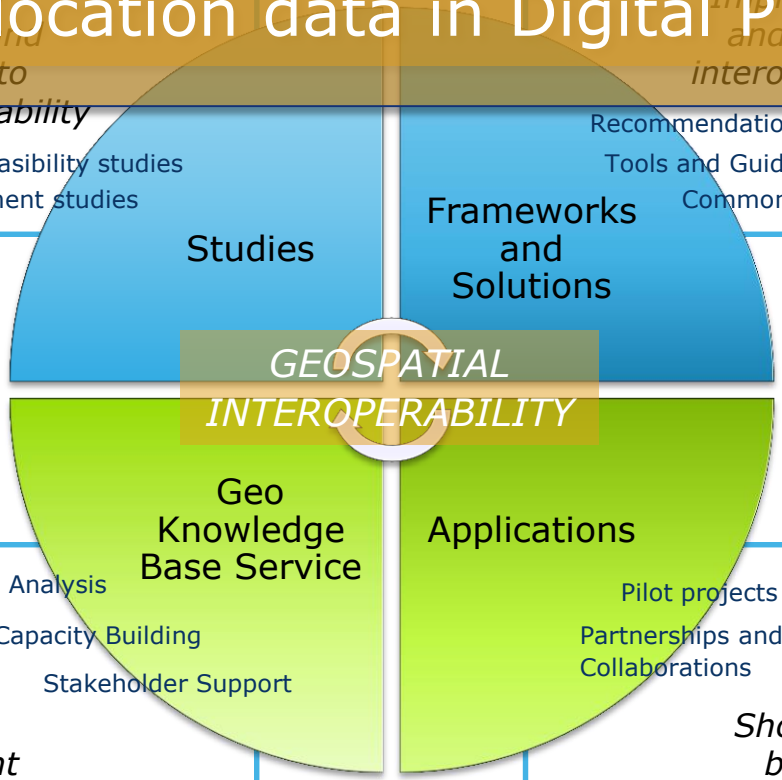
Stakeholder engagement

Awareness raising publications / events

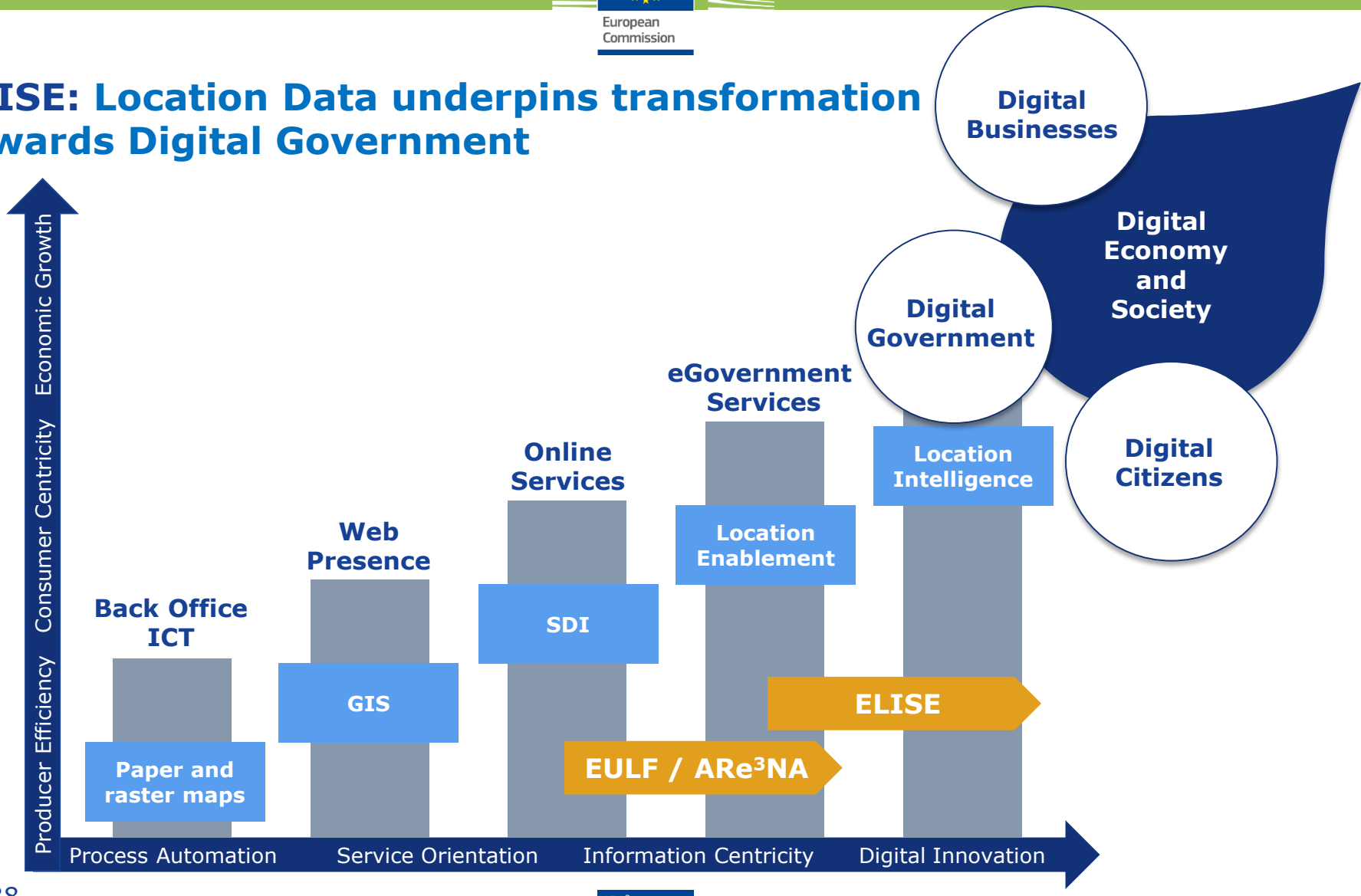
Training

Energy Efficiency of Buildings

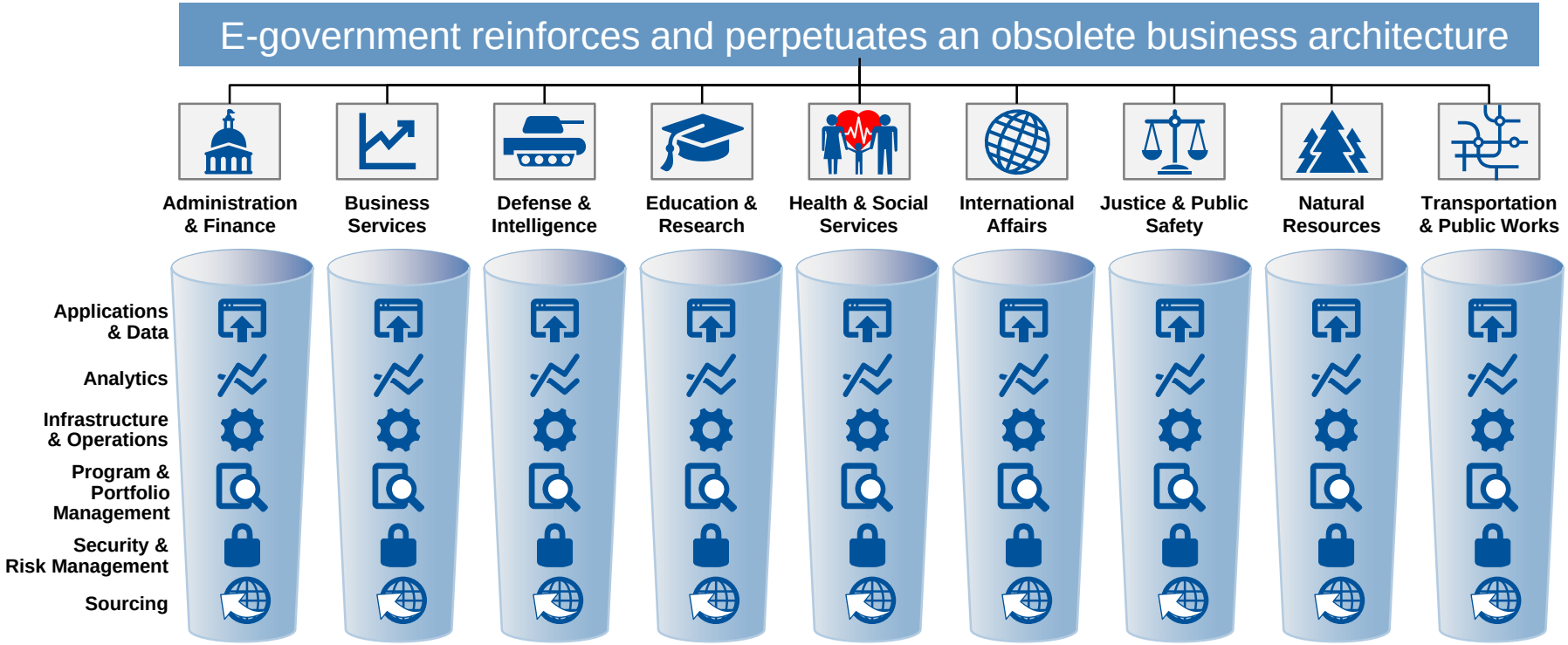
ITS Road Transport Data exchange



ELISE: Location Data underpins transformation towards Digital Government

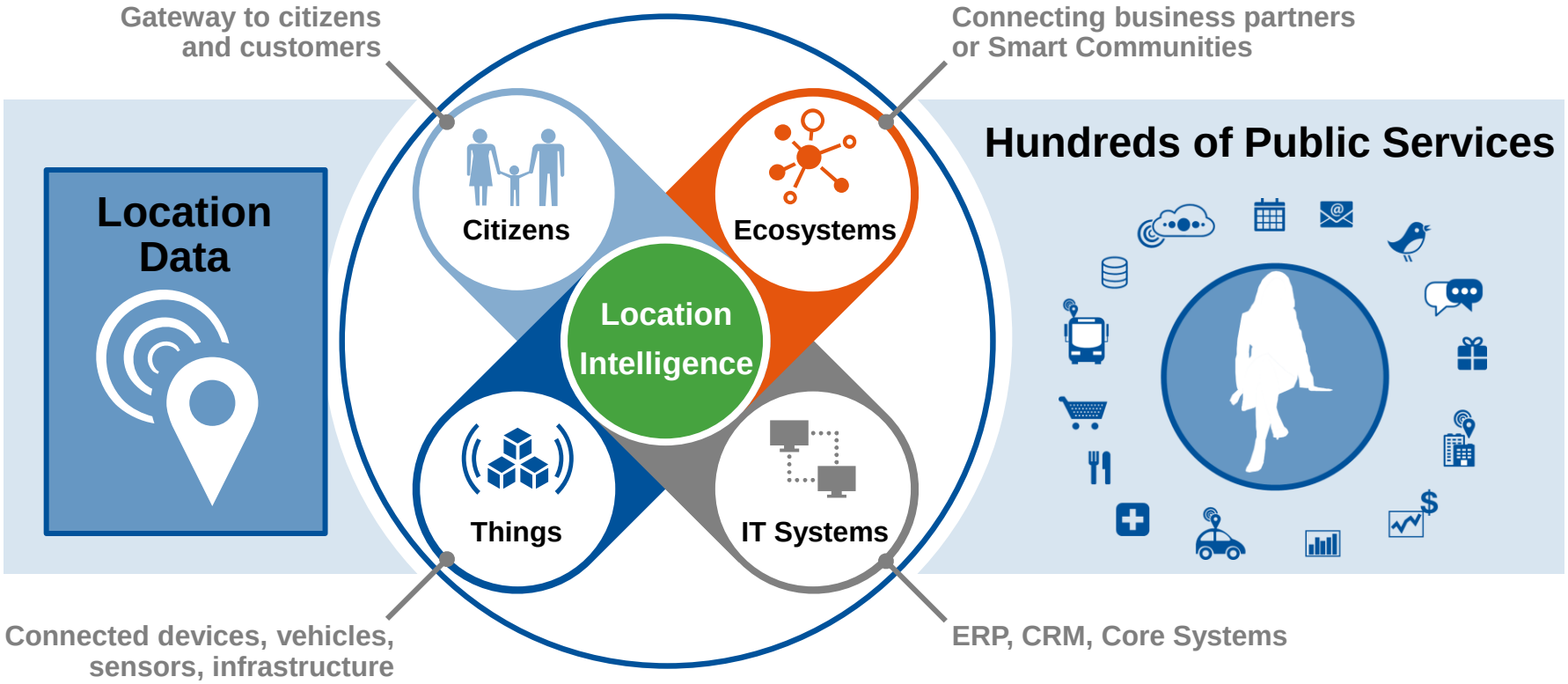


Digital Government is Confused With E-Government



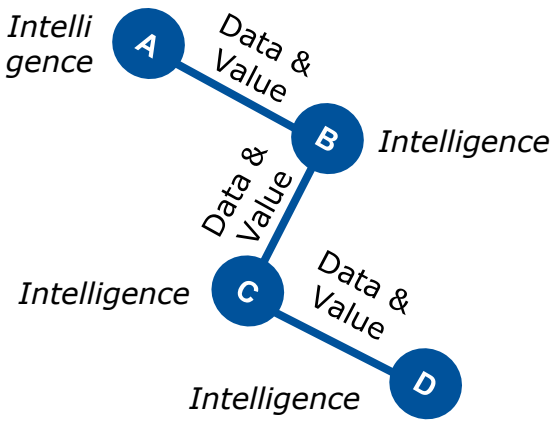
Digital government takes advantage of digital data to optimize, transform and create government services

At the core of the transformation towards Digital Government is the Digital Platform … delivering cross-sector and cross-border Operational Efficiencies and a unified Citizen Experience



Digital Platforms will transform the traditional linear business models to become multidimensional and multidirectional, scale exponentially and support hundreds of public services

A **value chain approach** is **one-dimensional** and **one-directional**



Linear impact of eGovernment

Hundreds of Public Services

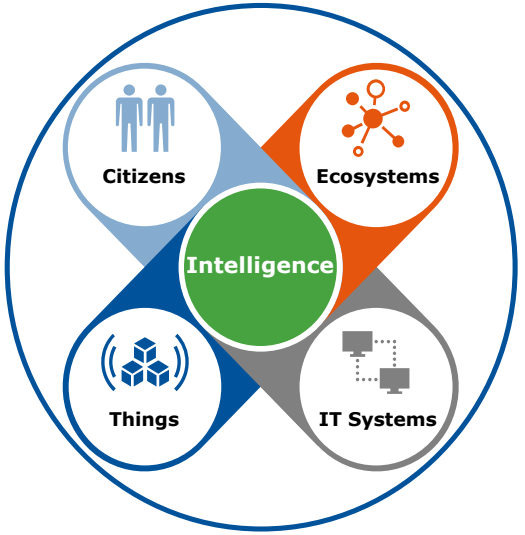
Digital Platform

Location intelligence makes combined use of analytics, geospatial information and location based services — ELISE

Location data is foundational to deliver added value in public services - it can be combined with other data and existing services — EULF

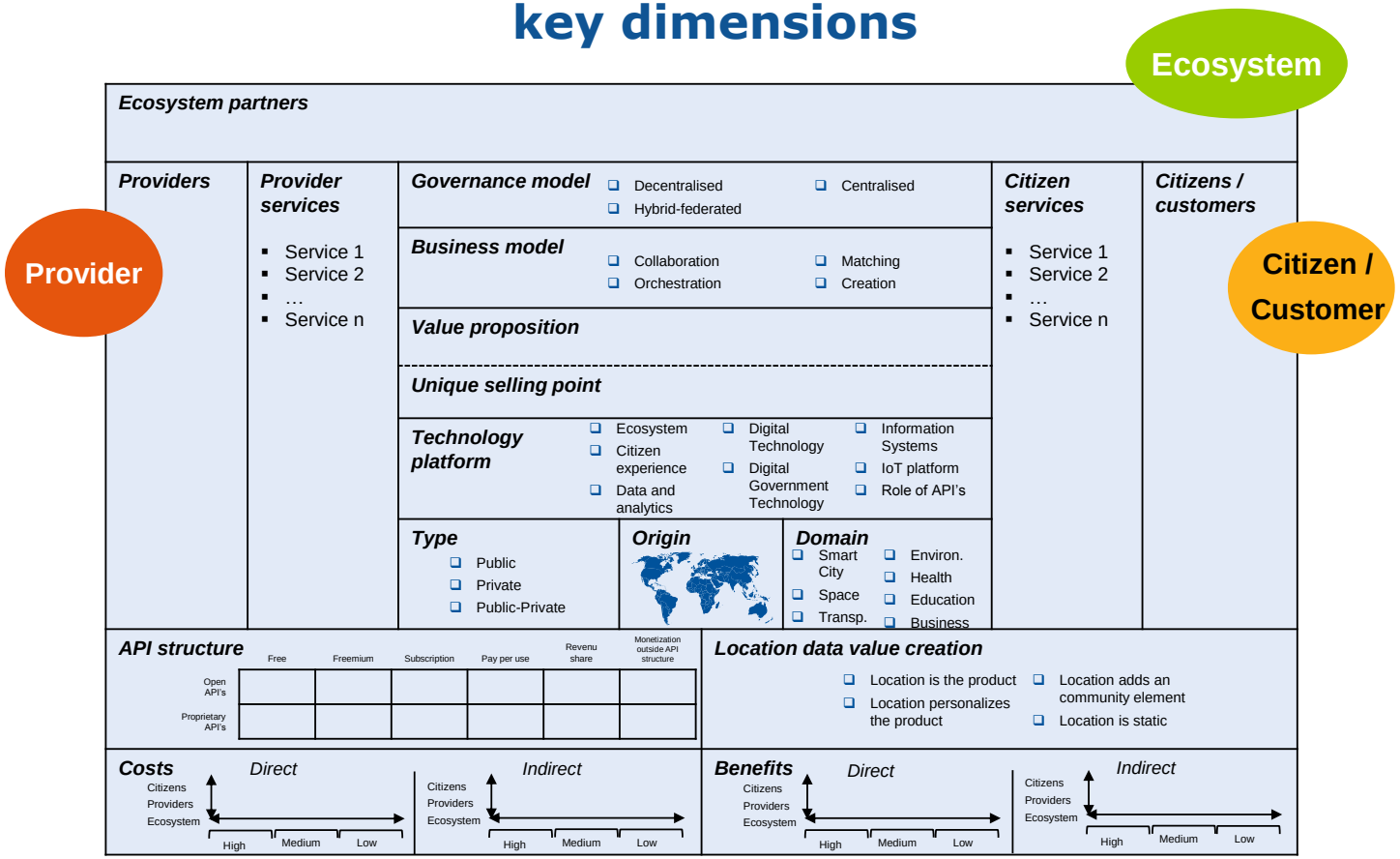
Cross-border and Cross-sector **interoperability** is conditional for an effective use and analysis of location data — INSPIRE

A **digital platform approach** is **multidimensional** and **multidirectional**

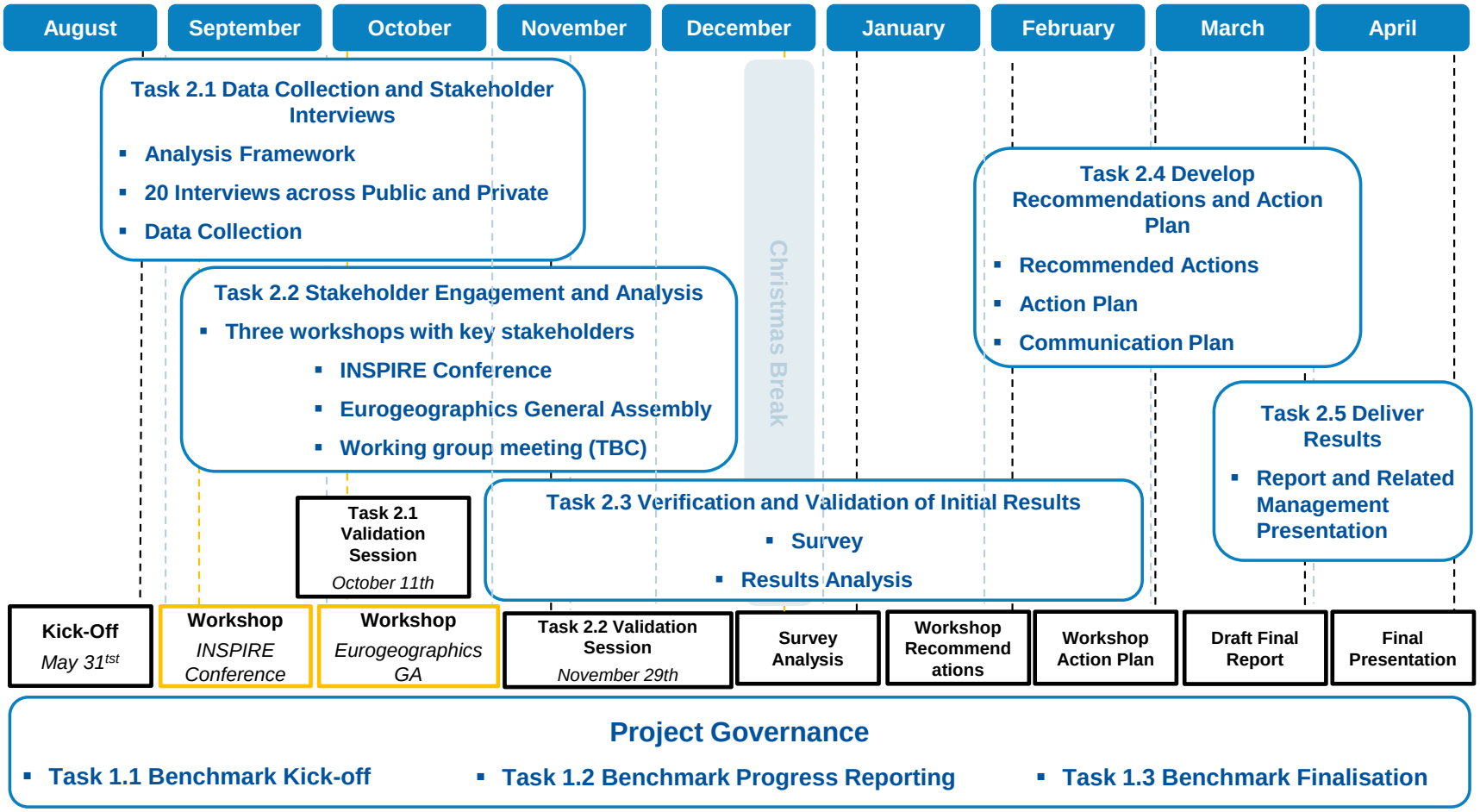


Exponential impact of Digital Government

Introducing and developing the Digital Platform Canvas – a reusable framework to describe Digital Platforms along all its key dimensions



You are welcome to contribute as stakeholder!
Public results from the study can be expected in May 2018



Want to know more?

ELISE

European Location Interoperability Solutions for e-Government

Get started: ELISE Action page

Join and collaborate: ELISE Community

Stay tuned: @EULocation

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

The ELISE action is undertaken with the support of ISA².

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 actions and solutions. The ISA² solutions can be used free of charge and are open source when related to IT.

ISA² - IT solutions for less bureaucracy **You click, we link.** Follow us on twitter.

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