Location interoperability best practices: ISA² ELISE action and Slovakia positioning

30/09/2021 at 10:30 CEST *Effective Management of Spatial Data and Services (ESPUS) to support the implementation of INSPIRE in the Slovak Republic*



European Location Interoperability Solutions for e-Government

Enabling Digital Government through Geospatial and Location Intelligence



Our presenters



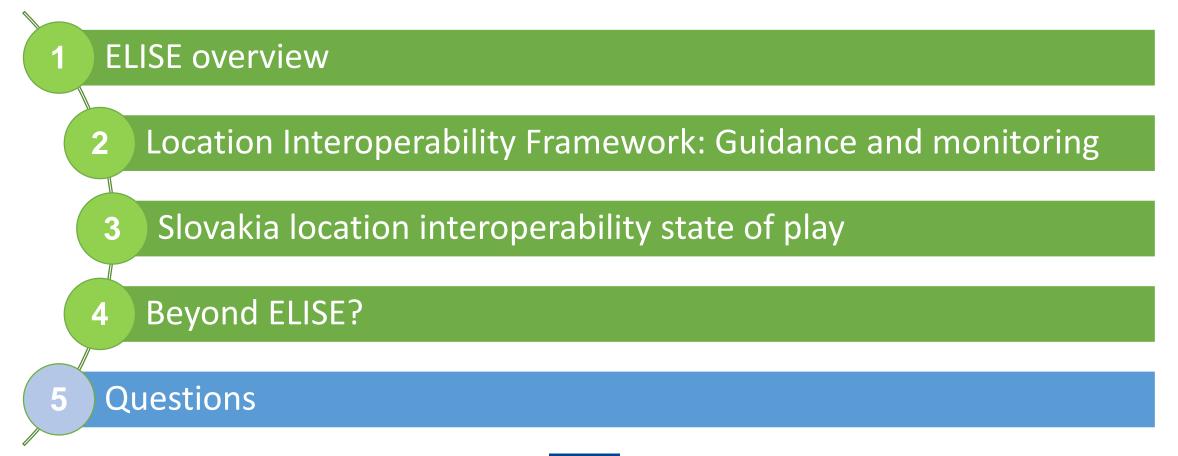
Ray Boguslawski External Expert *Joint Research Centre*



Massimo Pedroli Senior consultant in Public Sector Deloitte



What we will cover today





A BIT OF HISTORY...



European Commission

0 2004

IDABC: Interoperable Delivery of European eGovernment Services

2010

ISA: Interoperability solutions for public administrations

• Actions: EULF ARE3NA

2016

ISA²: Interoperability Solutions for European Public Administrations, Businesses and Citizens

ELISE

DIGITAL: Digital Europe Programme

ELISE builds upon the outcomes of the former ISA actions EULF and ARE3NA. It is the only action of the ISA² Programme, aiming to improve Digital Government through Location Interoperability.

WHAT?

ELISE stands for European Location Interoperability Solutions for e-Government. It is one of the more than 50 actions in the European Interoperability Programme ISA².

• WHAT FOR?

To support Digital Government Transformation by making the best use of location data and technologies in an interoperable manner

 ISA^2

• FOR WHOM?

For all: citizens, businesses and public administrations



ELISE

Citizens

Public Administrations





Some ELISE achievements

- Complemented EIF and NIFO with a location interoperability framework (EULF Blueprint) and state of play assessment (LIFO)
- ✓ EULF Blueprint cross-reference with UN-GGIM Integrated Geospatial Information Framework (IGIF)
- Helped put the INSPIRE Directive into practice with tools for data providers (e.g. Reference Validator, Re3gistry)
- Built a large community of European and international stakeholders
- Raised awareness on new approaches to location-enabled digital government transformation

- Assessed role of SDIs in future business models, e.g. data ecosystems, digital platforms
- Assessed new policies (e.g. GDPR, European Data Strategy) and technologies (e.g. APIs, AI, blockchain)
- Promoted and facilitated better links on location data between public and private actors
- Helped generate value from public sector location data through assessing barriers and solutions, providing guidance on benefit realisation, and best practice illustrations



Location Interoperability Framework: Guidance and monitoring

What is location interoperability?

Location interoperability is the ability of organisations, systems and devices to exchange and make use of location data with a coherent and consistent approach







European Commission



European Union Location Framework (EULF) Blueprint – What is it?

A European 'location interoperability framework' with recommendations and guidance for the exchange and use of location information in government policy and digital public services, allied closely to the interoperability principles and scope of the EIF



Online and downloadable versions

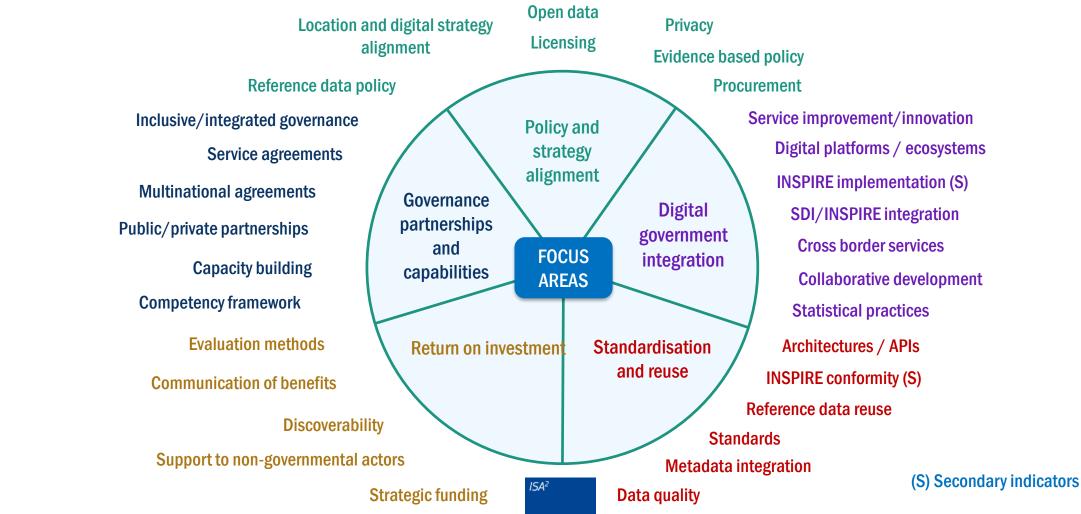
About EULF Blueprin

- () -

49 BEST PRACTICES



EULF Blueprint and LIFO indicator topics





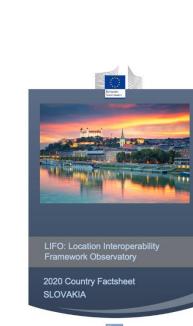
Slovakia: Location Interoperability State of Play



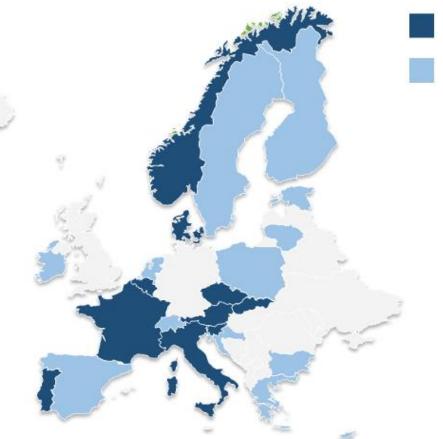
LIF0 2020

LIFO monitors adoption of good practices from the EULF Blueprint





23 Country Factsheets



Countries participating in both LIFO 2019 and LIFO 2020

Countries participating for the first time in LIFO 2020





LIFO: Location Interoperability Framework Observatory

2020 Country Factsheet SLOVAKIA

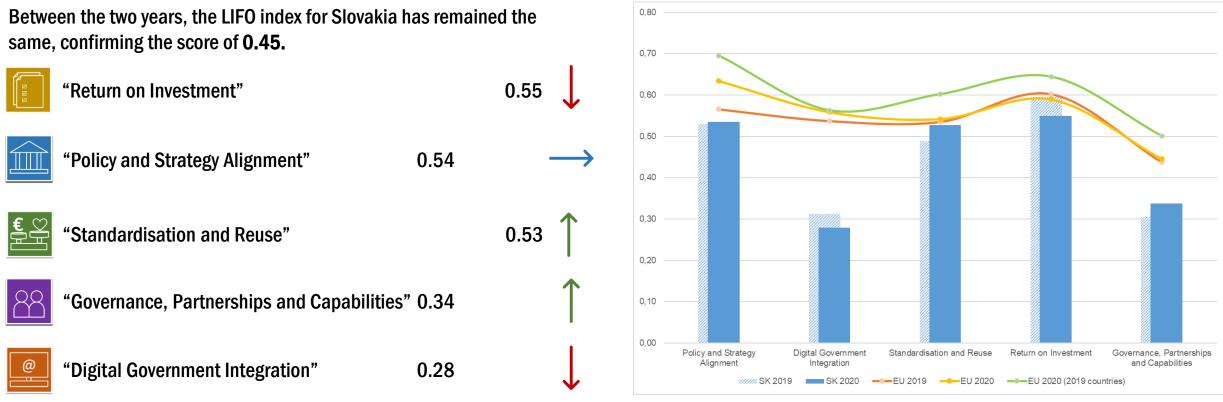


LIFO: Location Interoperability Framework Observatory

2019 COUNTRY FACTSHEET SLOVAKIA



A comparative overview for Slovakia between 2019 and 2020



The chart displays both comparisons within the country and with EU averages.

Slovakia – LIFO results

Commission

- Efforts to strenghten INSPIRE & eGov synergies
- Location policy + standards based procurement
- Raising awareness of location support in digital services
- Open and collaborative development of location-based services
- Many location information registries implemented
- Comprehensive use of geospatial standards
- Funds for improvement of location reference data
- Evaluation of the value for the money
- Stakeholders involvement in decision-making on SDI
- Intra-national agreements on joint operation of location services

- Gaps in systematic support for location driven government services
 Limited integration of location data in statistics
- Less than full INSPIRE conformity of spatial datasets and services

Considerable gaps in GDPR preparedness

- Limited identification of location driven digital services benefits
- Cross-border agreements on joint operation of location services are not known at this stage
- Limited involvement of private, non governmental. R&D players





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Key findings for location data providers: Open Data, APIs & INSPIRE



- Various portals giving access to (location) open data
- Promoting access to open data through formal (policy, funding) and informal channels (NGOs, hackathons)
- Plan to integrate the spatial data registry with national open data portal via standardized metadata exchange







ekosystém.slovensko.digital

- API (/)
- A good number of high-value location datasets currently accessible via APIs:
- User communities consulted for development / enhancement
- Location data APIs mainly via INSPIRE view and download services
- Initial tests with new APIs standards (OGC Open API features)
- Location strategy focused on the implementation of INSPIRE directive, but:
- Implementation status of the INSPIRE Directive **below the EU average**
- Limited use of INSPIRE conformant datasets and services in digital public services, in line with EU practices
- Low level of semantic interoperability with non spatial digital content



Slovakia Best Practices

ESPUS (Effective management of spatial data and services)

Policy domain: Geospatial

Process owners: Ministry of Environment of the Slovak Republic

Short description: ESPUS (Effective management of spatial data and services) - is a project launched in 2020 which focuses on "softskills" support of INSPIRE implementation in synergy with eGovernment. The project aims to improve the functioning of public administration through efficient access to and use of spatial data and services. There are four main areas addressed: the legal and methodology framework; support for INSPIRE harmonisation; use of spatial data and services; and awareness raising and capacity / skills improvement.







Slovakia Best Practices

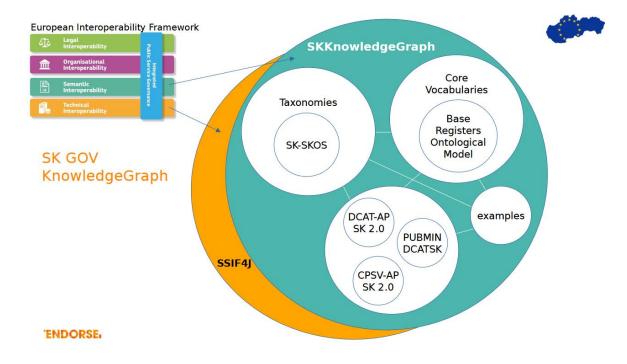
Slovak Semantic Interoperability Framework

Policy domain: Digital government / Geospatial

Process owners: Ministry of Investments, Regional Development and Informatization of the Slovak Republic

Short description: The Slovak Semantic Interoperability Framework (SSIF) was initially created in 2013. The objective is to establish semantic interoperability in all Slovak public administration systems and also ensure data interoperability toward all European countries. From 2016 a linked open government data focused community started to publish linked open data (LOD) in Slovakia in order to show how interoperability can be established using semantic web technologies.

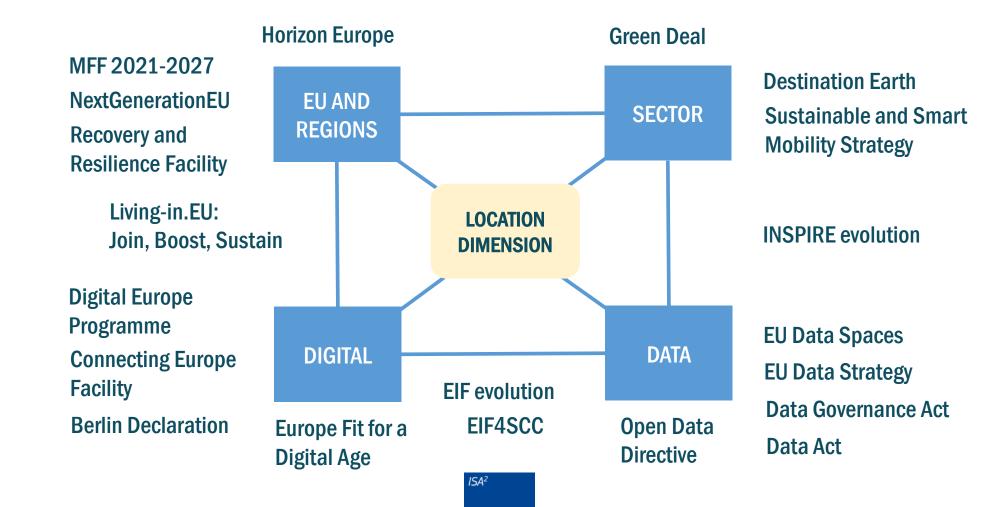
The agreed strategy is to provide support from the Central Data Office to all involved stakeholders as much as possible to adopt and create new semantic representations of data structures in public services, information systems or in publishing open data. Even if these activities are not so easy and trivial, they are the most crucial for improving quality of all public data, and consequently quality of life. If semantic interoperability in data is achieved, then the consuming open data, providing data analysis or developing digital public services is substantially easier, faster and more precise.







Location interoperability in the future EU policy context





Building on ELISE for the Digital Europe Programme

Digital Europe Programme Themes



High performance computing



Cloud, data and Al



Cybersecurity



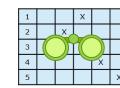
Advanced digital skills



Accelerating best use of technologies

European Location Intelligence and Technological Enablers (ELITE)





LIFO

Sandboxing



EULF Blueprint



Data Spaces Cookbook

Common Services Platform



ETF Validator



Interoperability Academy





Questions

- Have you heard of ELISE and used any of its outputs?
- Do Slovakia's LIFO results correspond or differ to your understanding?
- What do you see as priorities for improvement? APIs, skills, delivering benefits, something else?
- How can future EU programmes help?



Thank you



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