

## Digital dimension of the Recovery and Resilience Programme and relevant results from ELISE

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### Content

- What is the European Commission's Joint Research Centre?
- How does the Recovery and Resilience Facility help modernise Europe's public sector with digital technologies?
- What can we learn from the ELISE programme for Europe's recovery and resilience?



## What is the European Commission's Joint Research Centre?





## **JRC Mission**

As the science and knowledge service of the European Commission our mission is to support EU policies with independent evidence throughout the whole policy cycle.



## JRC sites

Headquarters in **Brussels** and research facilities located in **5 Member States**:

- Belgium (Geel)
- Germany (Karlsruhe)
- Italy (Ispra)
- The Netherlands (Petten)
- Spain (Seville)





### JRC role

- Independent of private, commercial or national interests
- Policy neutral: has no policy agenda of its own
- Works for more than 20 EC policy departments





How does the Recovery and Resilience Facility help modernise Europe's public sector with digital technologies?



## The Recovery and Resilience Facility

- €723.8 billion in loans and grants to support reforms and investments in Member States.
- Mitigate economic and social impact of Covid19 pandemic; make European economies and societies more sustainable and resilient.
- In force from 19 February 2021until 31 December 2026.



https://ec.europa.eu/info/business-economy-euro/recovery-coronavirus/recovery-and-resilience-facility\_enconomy-euro/recovery-coronavirus/recovery-and-resilience-facility\_en



## The Digital Dimension of the RRF

- Speed up the recovery in Europe and reinforce the commitment to the twin transition: green and digital.
- National plans need a minimum of 37% of expenditure for climate investments and 20% of expenditure to foster the digital transition.

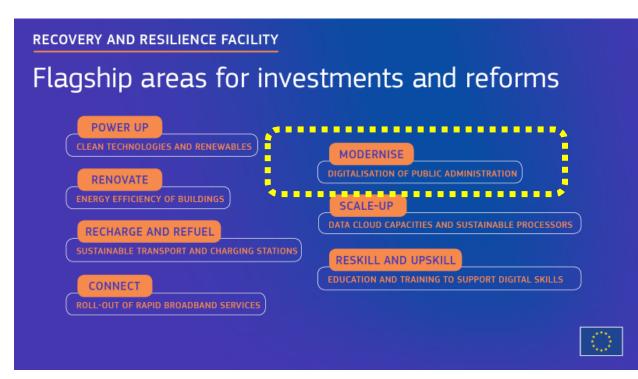


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## Public sector digitalization in the RRF

- Creation of European flagship areas for investments and reforms.
- Commission strongly encouraged Member States to put forward investment and reform plans in 7 areas.
- Digitalization of public administration one of the 7 flagship areas.



https://ec.europa.eu/info/business-economy-euro/recovery-coronavirus/recovery-and-resilience-facility\_enconomy-euro/recovery-coronavirus/recovery-and-resilience-facility\_en



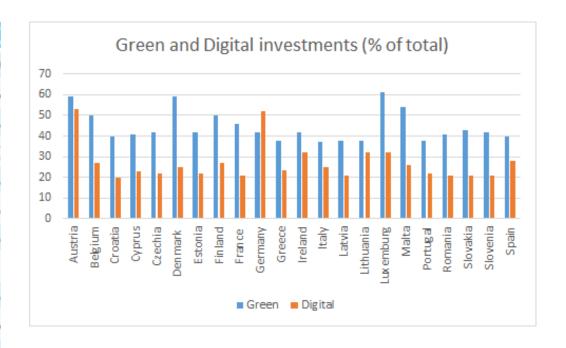
## Analysing the national plans: overview

#### Total investments

Country	bn €
Austria	3.5
Belgium	5.9
Croatia	6.3
Cyprus	1.2
Czechia	7
Denmark	1.5
Estonia	0.969
Finland	2.1
France	39.4
Germany	25.6
Greece	30.5

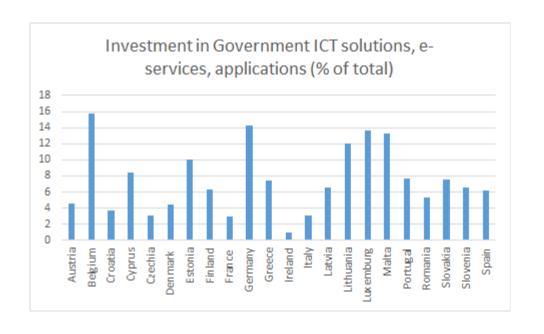
Country	bn €
Ireland	0.989
Italy	191.5
Latvia	1.8
Lithuania	2.2
Luxemburg	0.093
Malta	0.316
Portugal	16.6
Romania	29.1
Slovakia	6.3
Slovenia	2.5
Spain	69.5
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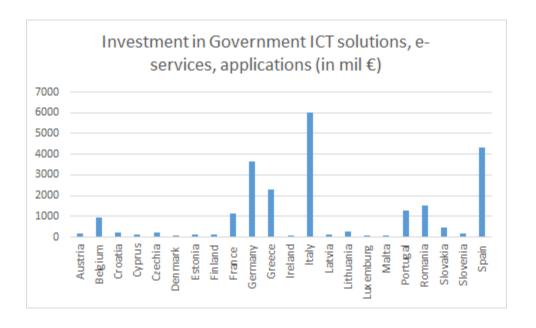
#### Share of green and digital





## Analysing the national plans: public sector







## Main messages from analysing national plans

- Until 2026, about 23bn euro will be spend on digitalizing the public sector
- Depending on the priorities of the different national plans, national mapping, cadaster and land registry authorities will be impacted
  - -> great challenge as well as great opportunity
  - -> experiences of mapping, cadaster and land registry authorities in creating interoperable, impactful, digital services is needed



# What can we learn from the ELISE Action for Europe's recovery and resilience?



#### A BIT OF HISTORY...

**2004** 

IDABC: Interoperable Delivery of European eGovernment Services

2010

ISA: Interoperability solutions for public administrations

O Actions:

ARE3NA

2016

ISA<sup>2</sup>: Interoperability Solutions for European Public Administrations, Businesses and Citizens

ELISE

**2021** 

DIGITAL: Digital Europe Programme

**ELISE builds upon the outcomes of the former ISA** actions EULF and ARE3NA. It is the only action of the ISA<sup>2</sup> 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



FOR WHOM?

For all: citizens, businesses and public administrations



Location-enabled

**Digital Government** 

Transformation



## **ELISE outputs** and topics



41 Studies

ELISE impact in numbers

More than 10,000 interactions with ELISE over the past 6 years



1 Framework(Guidance/Monitoring)11 Solutions



6 Applications



52 Webinars / 22 Workshops

Evolution of Spatial Data Infrastructures Support of data ecosystems

Technologies for location -enabled innovation

Collaboration models

Spatial skills for Digital Government Transformation Location data privacy

Improving access to spatial datasets

Supporting cross-border and cross-sector data sharing

Location intelligence for policy and digital public services

Supporting innovation, growth and Return of Investment

Managing data quality

Supporting the creation of common EU public services

ELISE - European Location Interoperability So Joinup (europa.eu)



European for e-Gowarnepant



## For and with a varied stakeholder community

Industry players of all sizes

Standardisation bodies

**Consultancy companies** 

Open source communities

Users & developers



Action

Citizens

**Members States** 

City & regional administrations

**European Commission & European agencies** 

International organisations

Research institutes

**Experts** 





#### 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





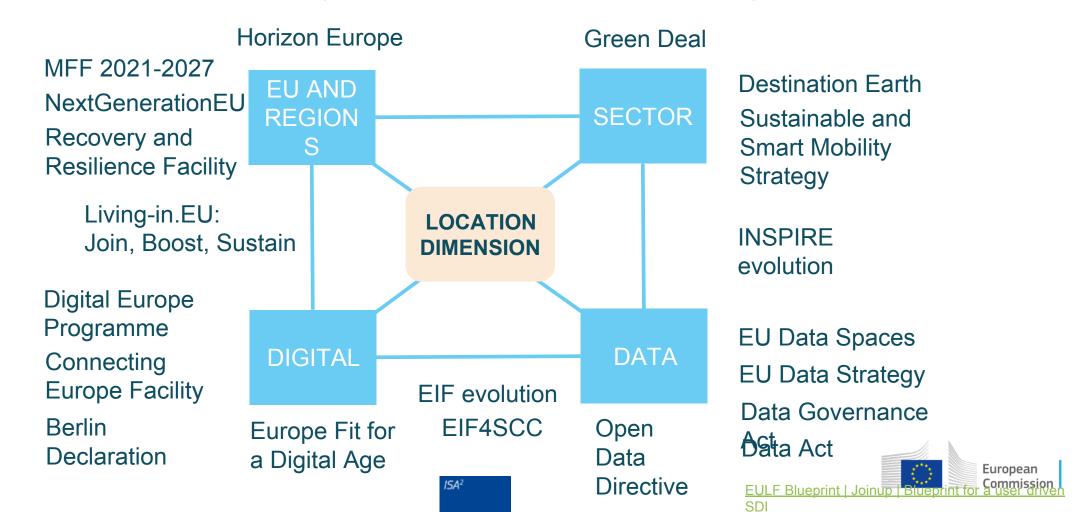
#### Some lessons learnt

- Location interoperability framework and guidance (EULF Blueprint) in combination with monitoring mechanism (LIFO) provide sustainable support to the Member states in achieving location interoperability for better digital public services delivery
- Location aspects often well recognised in policy and strategic digital frameworks
- Knowledge transfer support is seen as vital to make the most of 'location' assets in the new policy landscape for all types of stakeholders
- Preserving the community dealing with the location interoperability will assure better knowledge sharing among the stakeholders and increase their skills and competencies.
- Closer engagement with digital government and private sector users across all levels of society will help 'raise the game'.





## 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



Cybersecurity



Advanced digital skills



Accelerating best use of technologies

## **European Location Intelligence** and Technological Enablers







LIFO





Data Spaces Cookbook



Sandboxing

#### **Common Services Platform**



ETF Validator





## Keep in touch



EU Science Hub: ec.europa.eu/jrc



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## Thank you



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