WEBINAR

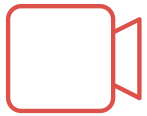
data.europa academy

Trends on geospatial data

27 October 2022

10.00 – 11.30 CET

Rules of the game



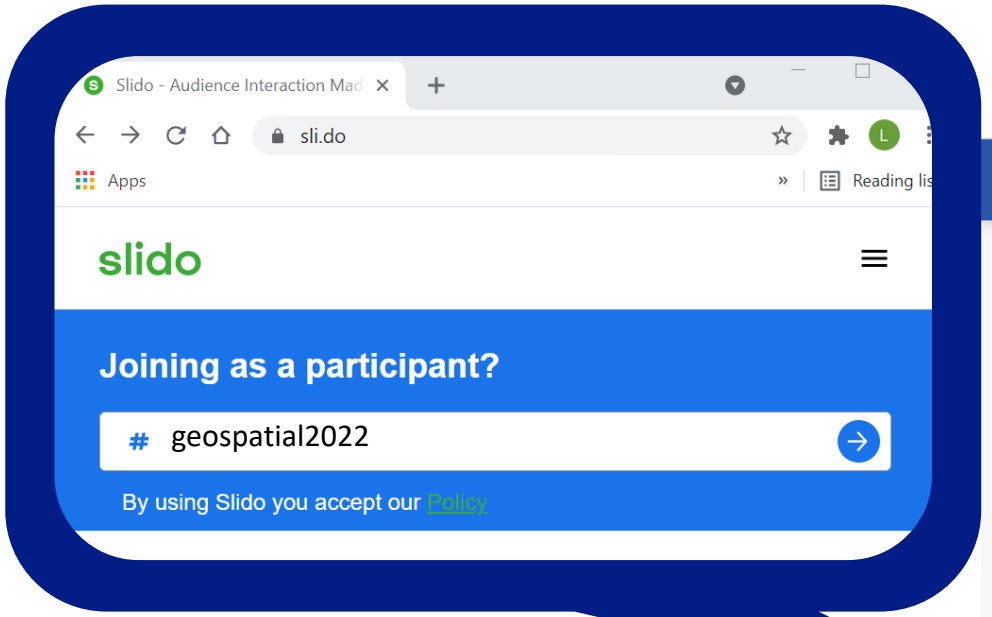
The webinar will be recorded

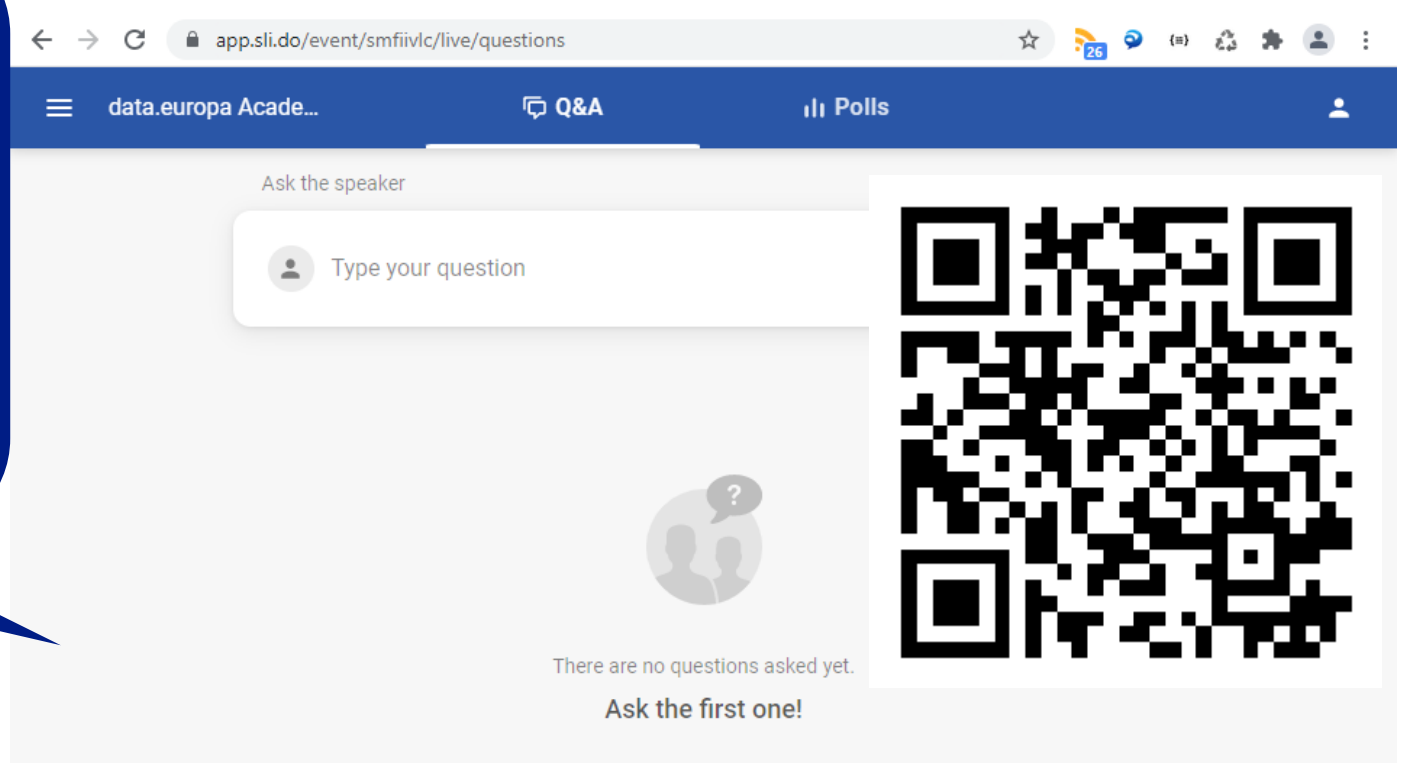
Please mute yourselves during the webinar

Please reserve 3 min after the webinar to help us improve by filling in our feedback form

For questions, please use sli.do. Vote for the questions that are of most interest to you, those will be discussed later

Ask your questions in sli.do using the code *geospatial2022*





Introduction

Giulia Carsaniga
Research and communication consultant for data.europa.eu

Antje Kügeler
con terra
Consultant
Spatial Data Infrastructures

Dr. Simon Jirka
52°North
Managing Director

Agenda

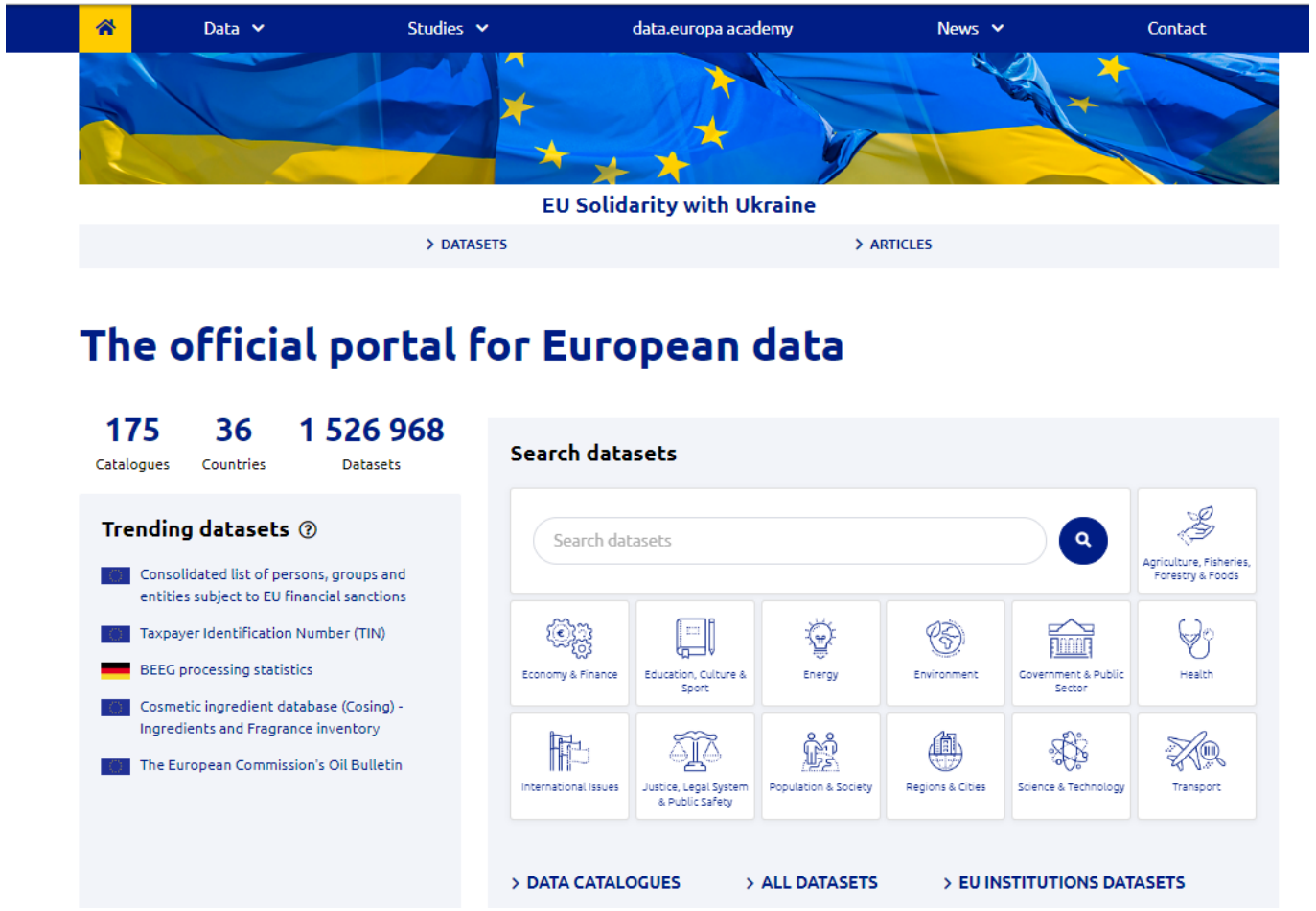
- Welcome, introduction, and the goal of the webinar
- Warm-up: Current trends regarding geospatial data
- Modernising INSPIRE… moving towards Open Data
- Questions, comments
- The role of geospatial information for Smart Cities
- Discussion of opportunities for data.europa.eu
- Next steps for writing the report, Closing

Goal of this Webinar

- Explain some current trends in the geospatial community
- Discuss:
  - What opportunities for data.europa.eu might arise from these trends?
  - How can data.europa.eu benefit from and support new ways of sharing geospatial data?

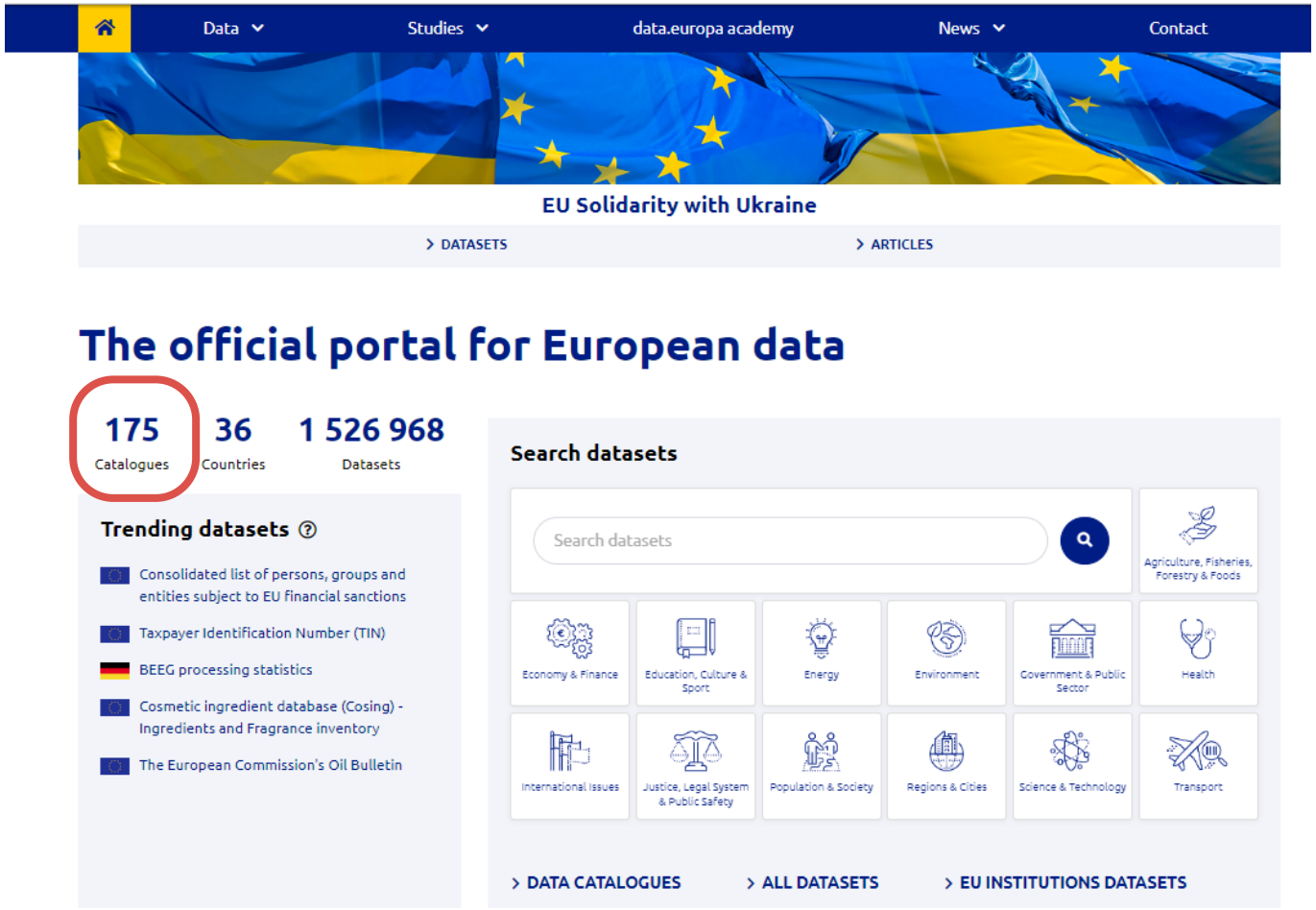
data.europa.eu

- data.europa.eu provides access to open data
- Single access point to open data in Europe
- Strategic objective is to improve accessibility of open data



data.europa.eu

- Includes metadata from 175 catalogues
  - Open Data Portals and Geoportals
- from 36 countries
- Descriptions of more than 1.5 Mio. datasets



What‘s a trend?

A trend is a
“general development or change in a situation or in the way that people are behaving”

(quoted from Cambridge Dictionary https://dictionary.cambridge.org/dictionary/english/trend)

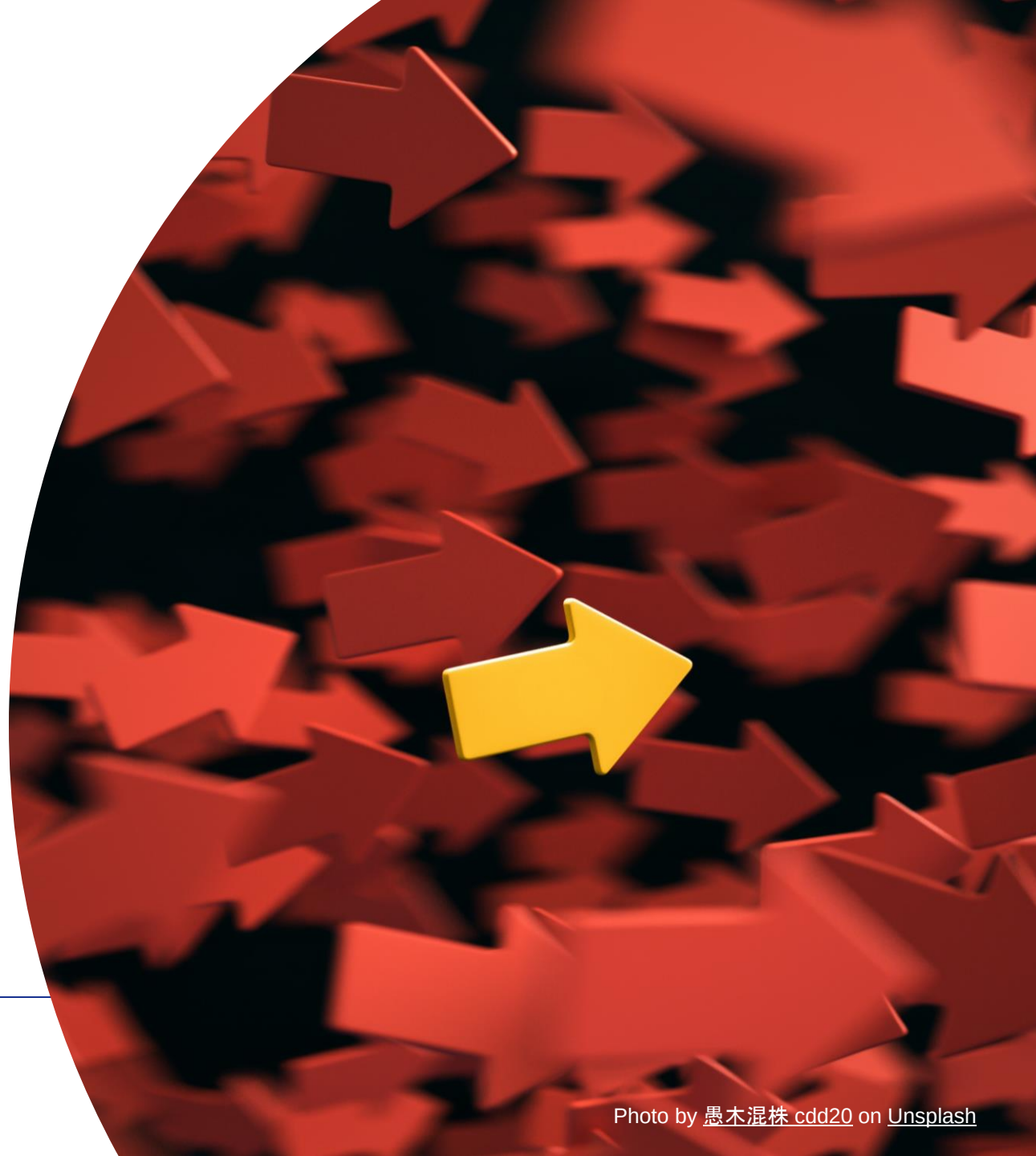


Photo by 愚木混株 cdd20 on Unsplash

Warm-up

What trends might affect the way we use geospatial data?

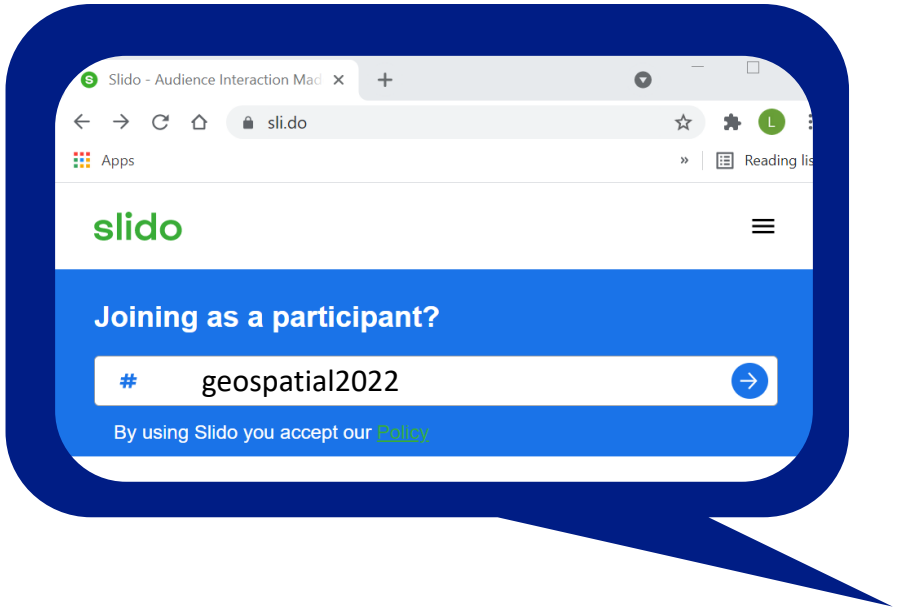


Photo by Annie Spratt on Unsplash

Trends in working with geospatial data

Trends to be discussed today:

1. Modernizing INSPIRE[1]… moving towards Open Data[2]
2. The role of geospatial information for Smart Cities

[1]INSPIRE Directive (2007/2/EC): https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX%3A32007L0002
[2]Open Data Directive (2019/1024) https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32019L1024

Source: https://inspire.ec.europa.eu/about-inspire/563

2 ½ min. video on INSPIRE

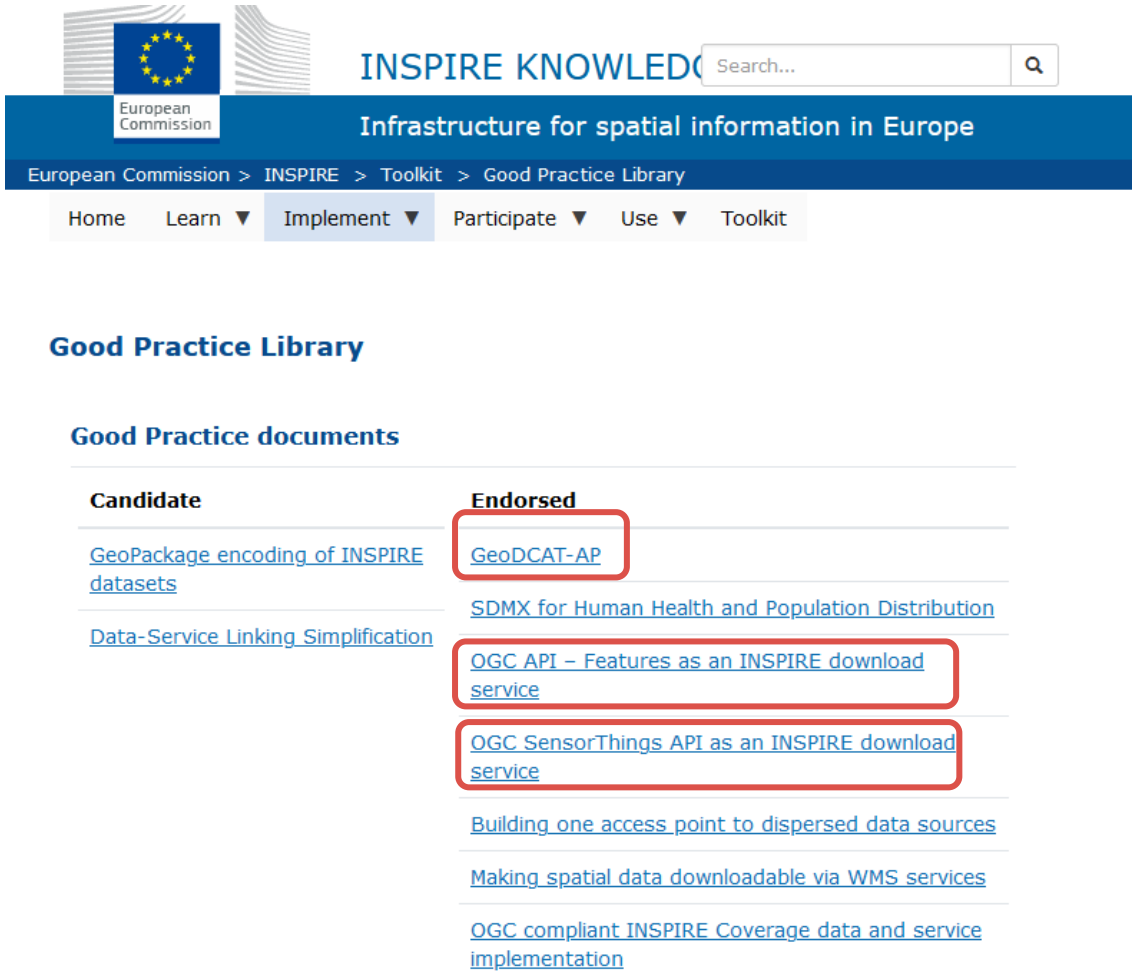
Modernizing INSPIRE

- The INSPIRE Directive came into force 2007
- Much has changed since then

Photo by Hansjörg Keller on Unsplash

Implementing INSPIRE

- 2007 to 2021: Roadmap for implementation of INSPIRE
  - Technical Guidance documents describing technical details
  - Good Practice documents



INSPIRE Directive evaluation 2022*

- *„INSPIRE has improved efficiency by creating a framework for distributing spatial data according to **FAIR (Findable, Accessible, Interoperable, Reusable)** principles.“*
- *“the INSPIRE Directive is still **very relevant** for addressing data sharing obstacles from the past and data needs for the future.”*
- *“the INSPIRE Directive’s **technical over-specification** renders the legal framework less fit for the future in the light of technological evolution”*
- *“the evaluation demonstrated **simplification potential** of the implementation in terms of addressing the too detailed interoperability requirements. ”*
- *“The INSPIRE Directive has been designed to be consistent with the EU legal framework on data sharing and dissemination and can support implementation of Public Access to Environmental Information Directive and the **Open Data Directive.**”*

* Sharing geospatial data on the environment – evaluation (INSPIRE Directive)
https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12427-Sharing-geospatial-data-on-the-environment-evaluation-INSPIRE-Directive-_en

“let‘s leave the geospatial bubble“

collaboration

OGC API “Evolution“

OGC API Features

Open Data Directive High-value datasets

Application Programming Interfaces (API)

15

Photo by Omar Prestwich on Unsplash

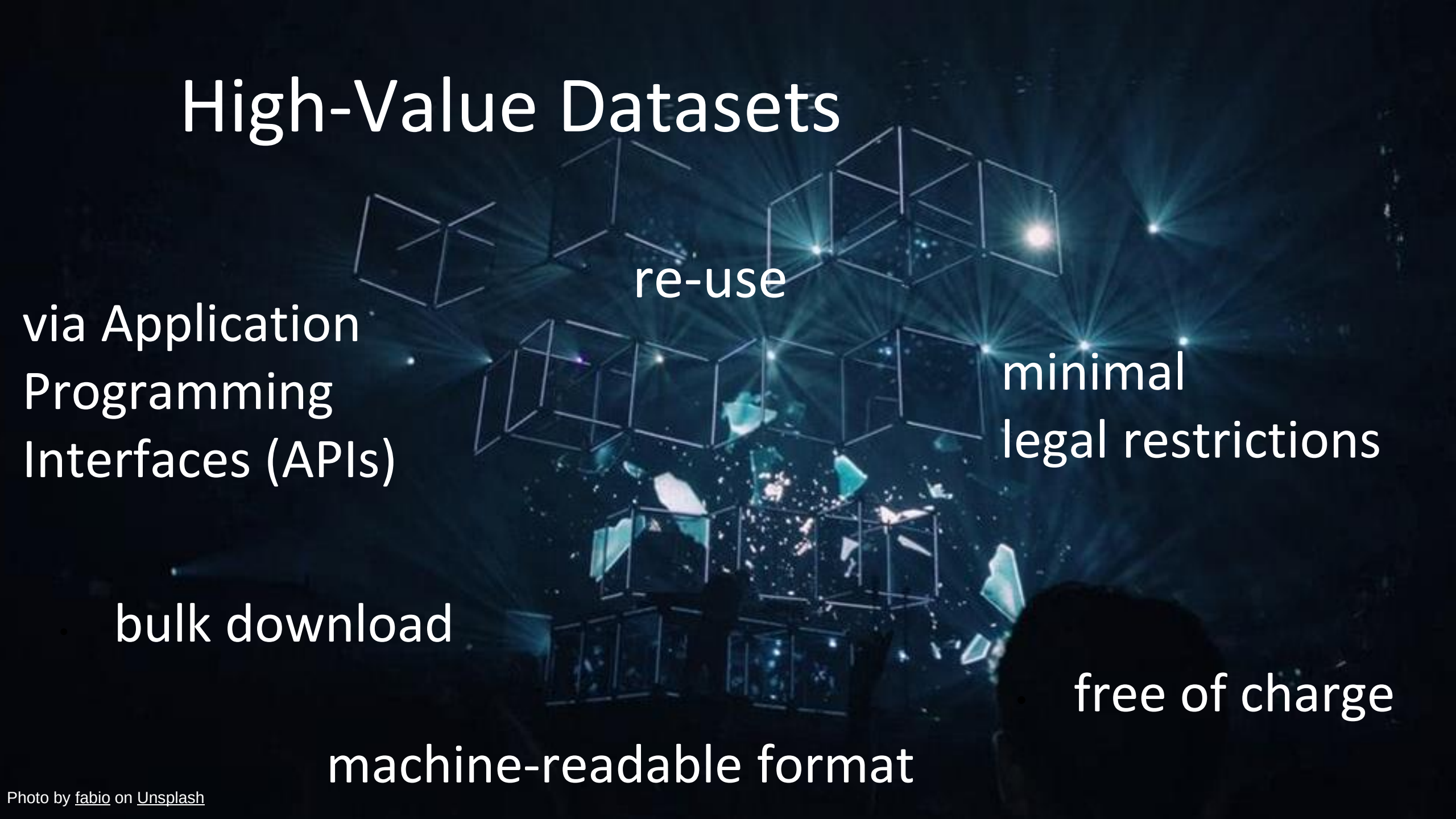
Directive on Open Data and the re-use of Public Sector Information (Recast 2019)

formerly “PSI-Directive”

Open Data Directive

Photo by Christian Lue on Unsplash

High-Value Datasets



re-use

via Application Programming Interfaces (APIs)

minimal legal restrictions

bulk download

free of charge

machine-readable format

Photo by fabio on Unsplash

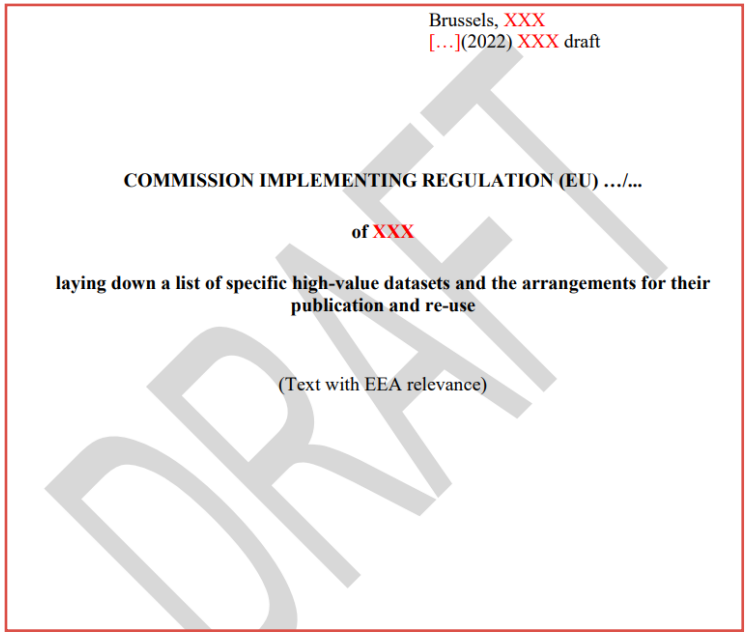
High Value Datasets

Thematic Categories

- Geospatial
- Earth observation and environment
- Meteorological
- Statistics
- Companies and company ownership
- Mobility

Draft Implementing Regulation laying down a list of specific high-value datasets and the arrangements for their publication and re-use
https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12111-Open-data-availability-of-public-datasets_en

Draft references INSPIRE data themes



Brussels, XXX
[…](2022) XXX draft

COMMISSION IMPLEMENTING REGULATION (EU) …/...

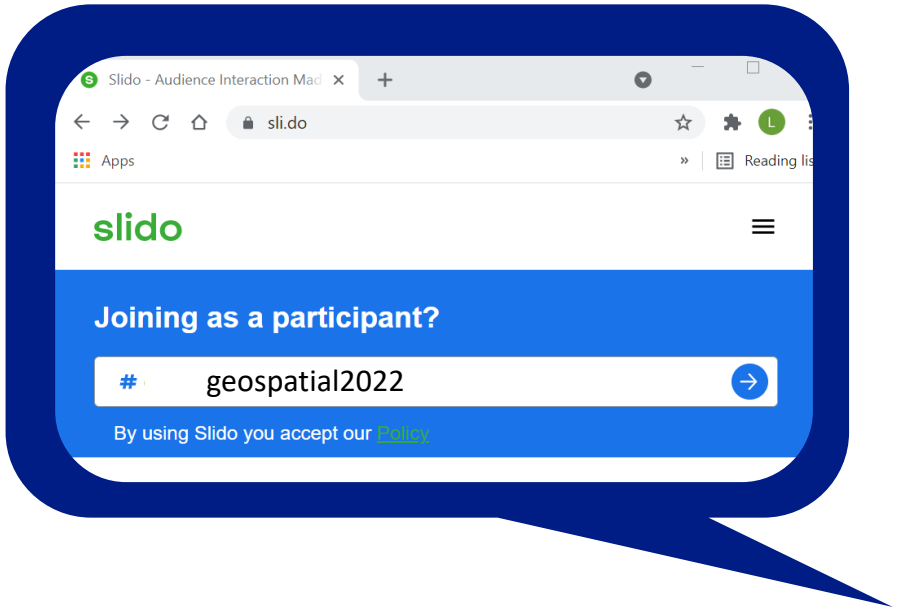
of XXX

laying down a list of specific high-value datasets and the arrangements for their publication and re-use

(Text with EEA relevance)

DRAFT

Questions?



data.europa.eu
The official portal for European data

Photo by Jules Bss on Unsplash

The role of geospatial information for Smart Cities

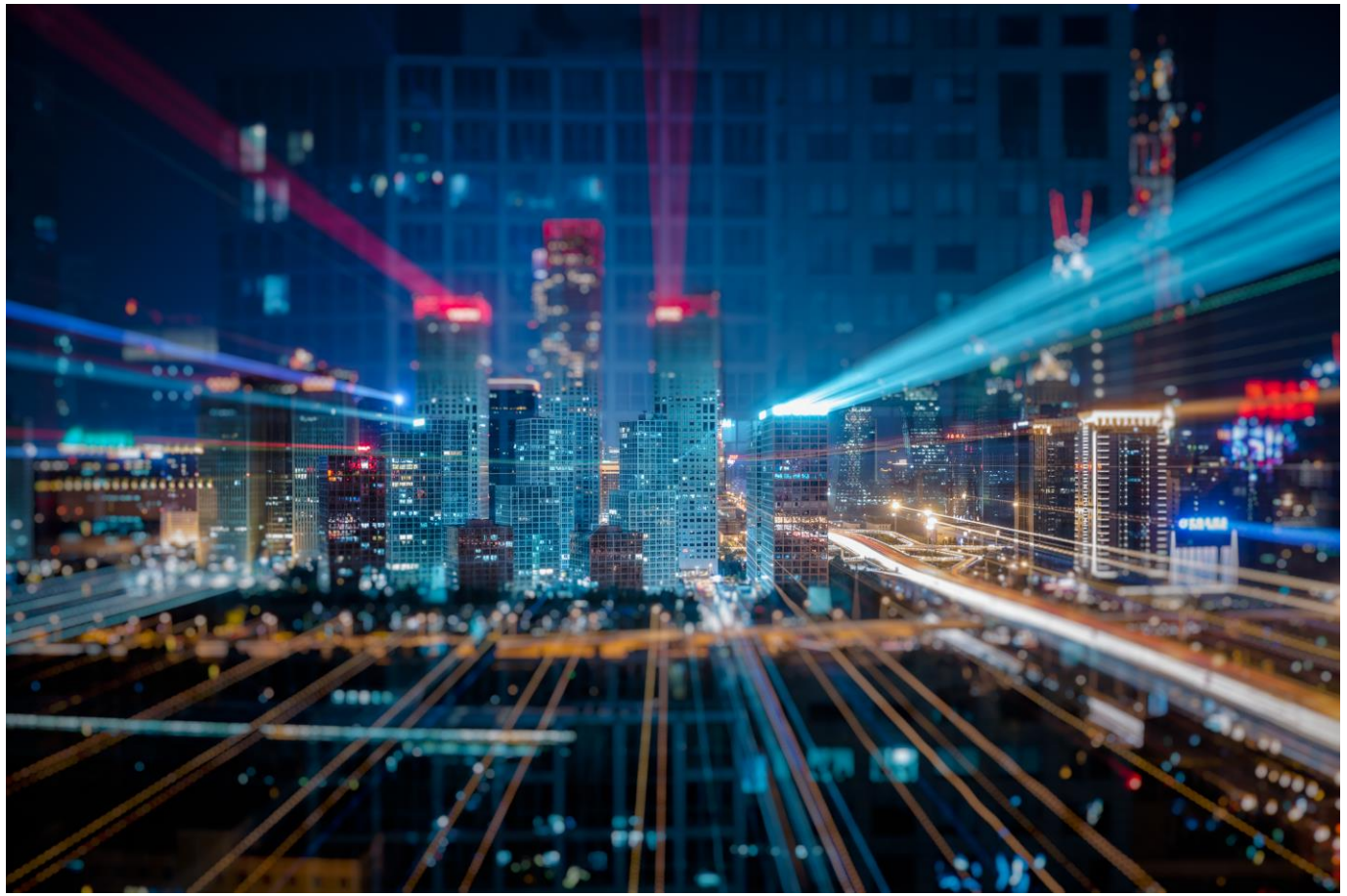


Image by fanjianhua on Freepik

What does "smart city" mean?

European Commission:

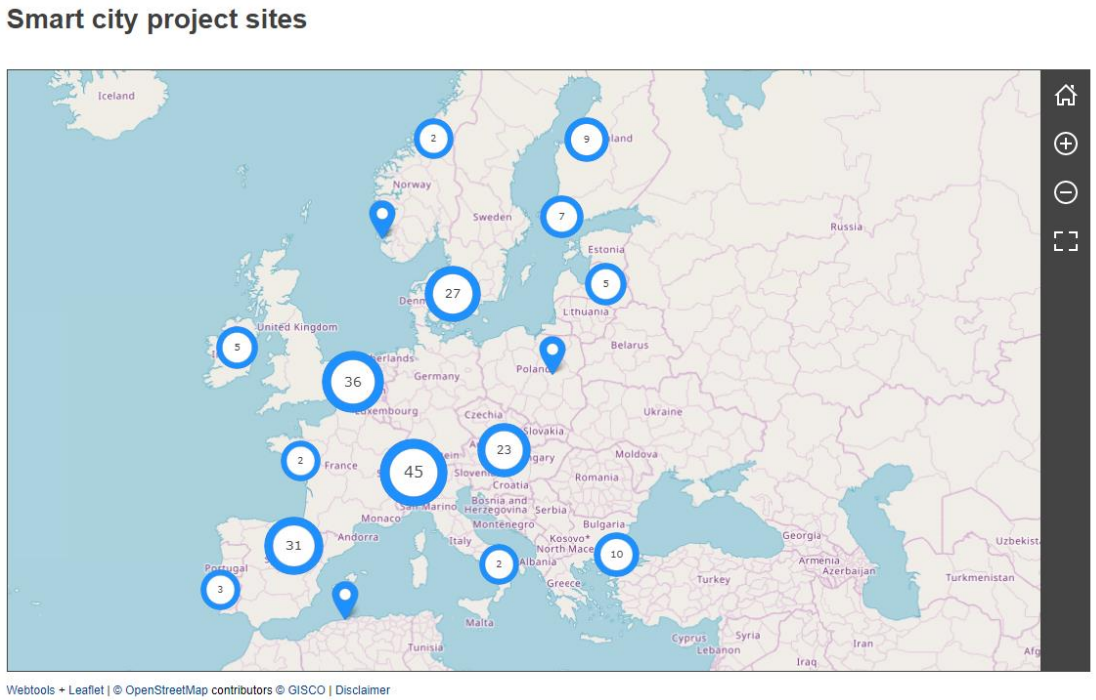
*"A smart city is a place where traditional networks and services are made more efficient with the **use of digital solutions** for the benefit of its inhabitants and business.*

*A smart city **goes beyond the use of digital technologies** for better resource use and less emissions. It means **smarter** urban transport networks, upgraded water supply and waste disposal facilities and more efficient ways to light and heat buildings. It also means a more interactive and responsive city administration, safer public spaces and meeting the needs of an ageing population."*

https://ec.europa.eu/info/eu-regional-and-urban-development/topics/cities-and-urban-development/city-initiatives/smart-cities_en

Smart city initiatives and projects

- High strategic value
- Support on European, national, and regional levels
- Reaches beyond pure technical infrastructures



Source: https://smart-cities-marketplace.ec.europa.eu/

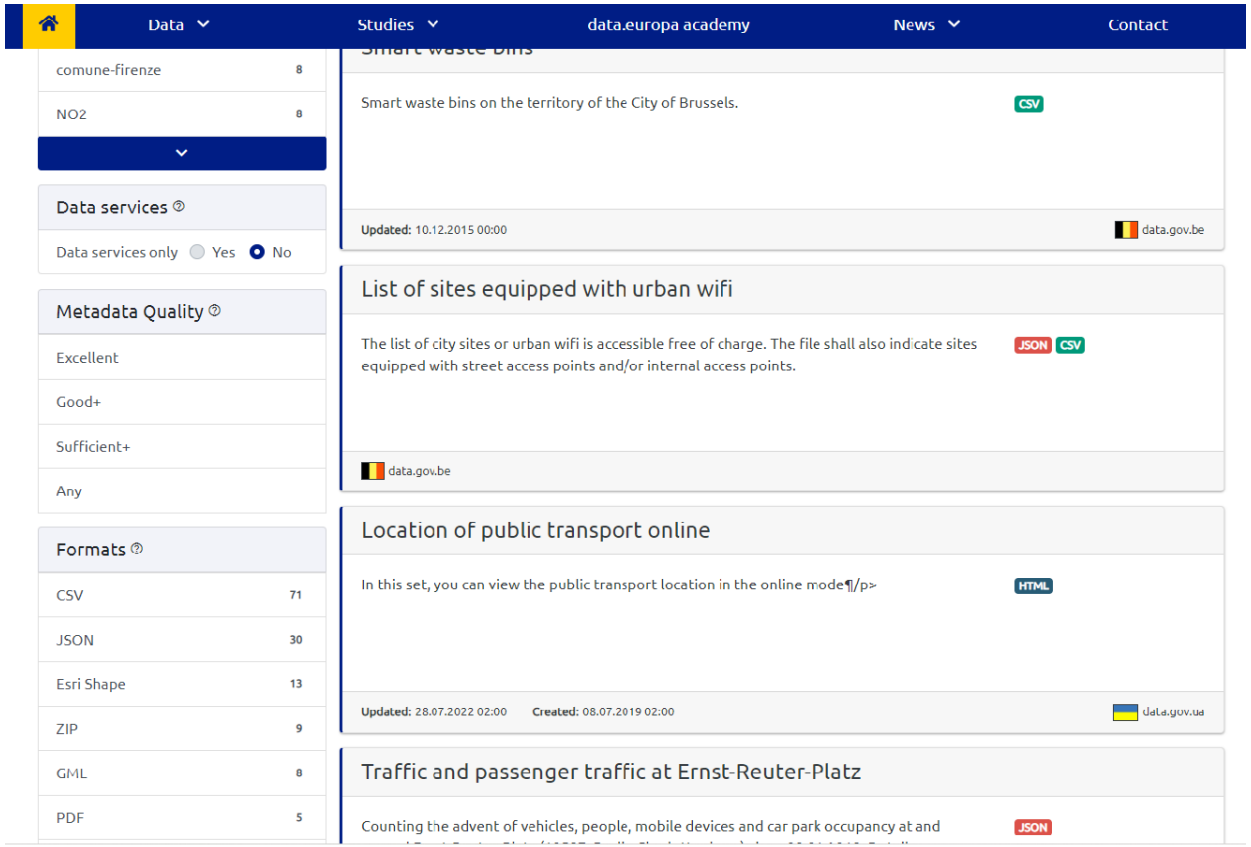
Smart cities and geospatial data

- Up to date data is an important foundation for building smart cities
- Geospatial references of data are essential
- Important types of data
  - Geospatial base data (e.g., background maps)
  - Traffic (car counts, person counts, traffic lights, parking spaces, bike sharing, …)
  - Public transportation (real-time schedules, delays and disturbances, …)
  - Environmental conditions
  - Lighting
  - Utility network data
  - 3D models

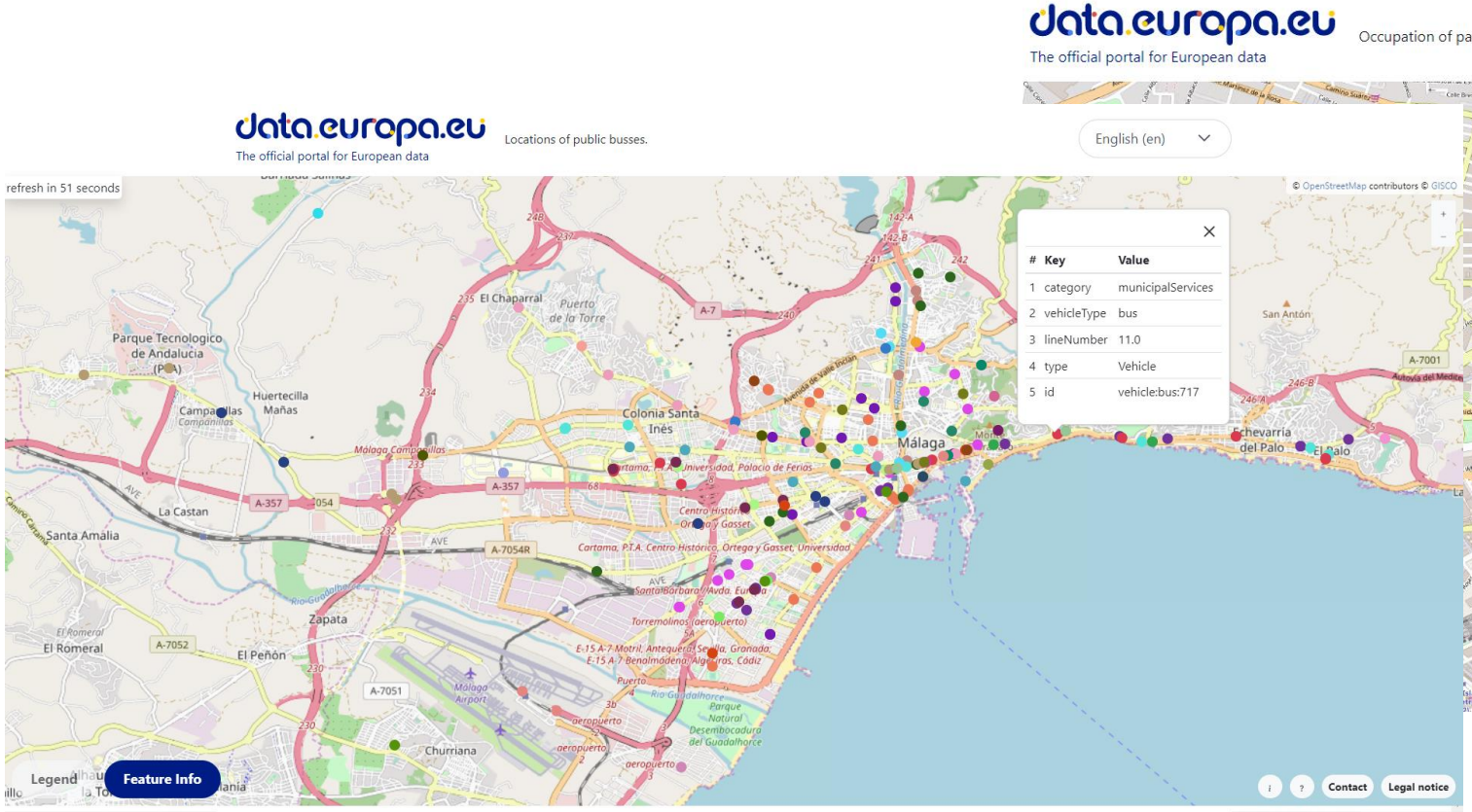
Image by rawpixel.com on Freepik

Smart city data on data.europa.eu

- data.europa.eu helps to discover different types of smart city related information
  - Background documents
  - Historical data
  - Base data (e.g., smart city infrastructure)
  - Real-time data



Smart city data on data.europa.eu



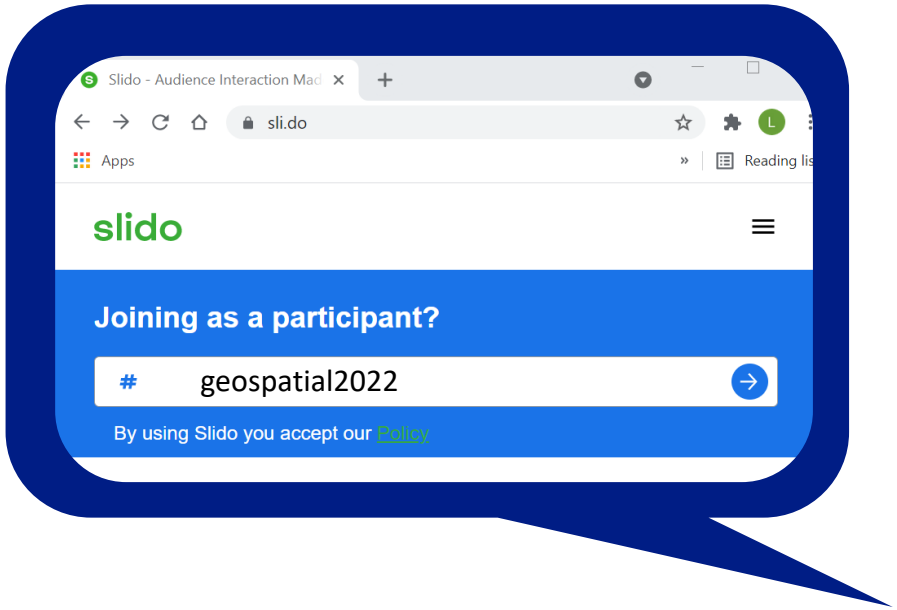
Which opportunities do smart cities offer for data.europa.eu?

- Smart city initiatives and projects strengthen the collection of data
  - Real-time information
  - Infrastructure data
  - (Citizen science activities)
- Smart city portals as additional catalogues for data resources

Which challenges need to be addressed?

- Identify relevant types of data sources
  - Standards
  - Interfaces
- Encourage the provision of metadata
- Enable new approaches for data preview

Questions?



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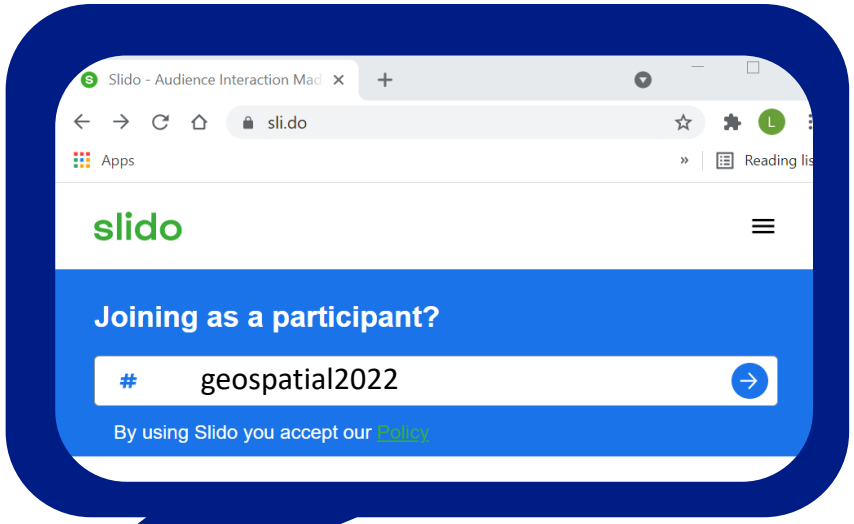
Discussion

Interactive with sli.do



- What opportunities for data.europa.eu might arise from these trends?
- How can data.europa.eu benefit from and support new ways of sharing geospatial data?

Next steps

- Short report to be published

  Link to last year's report: https://data.europa.eu/sites/default/files/course/Geospatial_Trends_2021.pdf

- Findings will provide input to further development of data.europa.eu

Thank you!

Please provide your feedback!

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3rd webinar for data providers on legal openness

Registration open

Training course on Geospatial Harvesting (29/11)

Registration opening soon

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