European Commission

ELISE

European Location Interoperability Solutions for E-Government

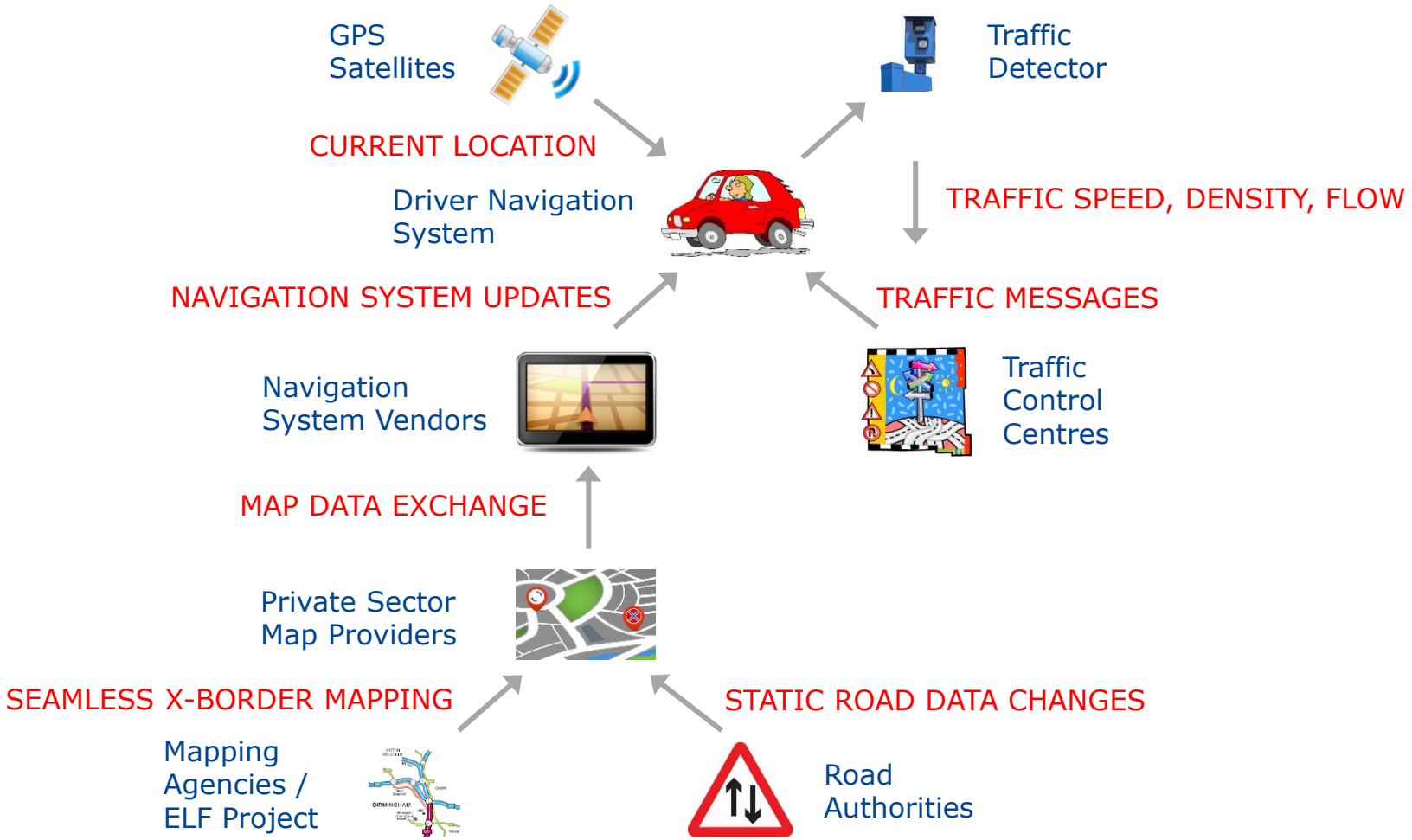
How healthy data ecosystems and collaboration fuel innovation

Ray Boguslawski, EC JRC, External Consultant

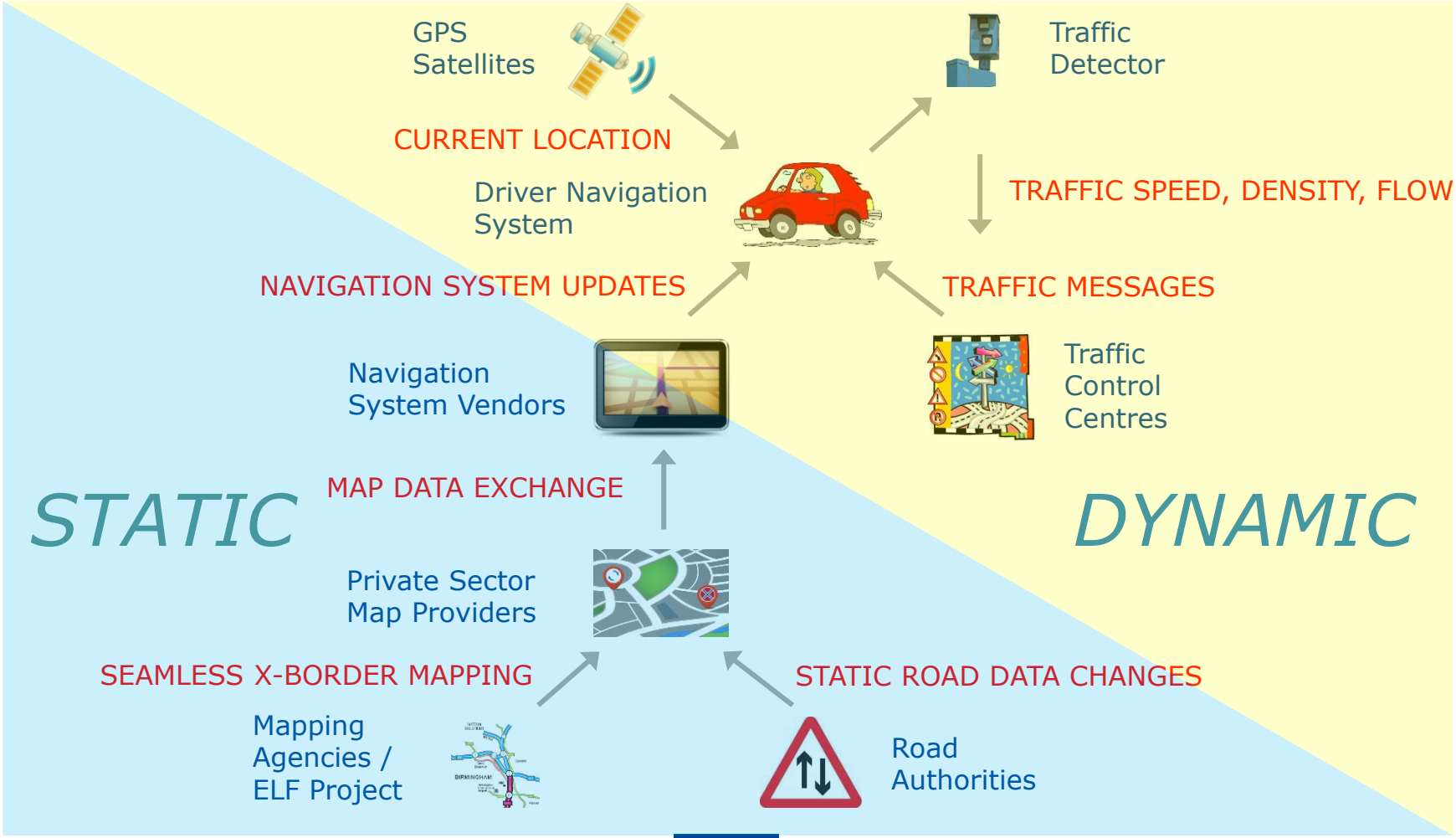
INSPIRE Online Conference webinar:
'Co-innovation with public-private sector data ecosystems'
3 June 2020 11.00 – 12.30 CET

ISA²

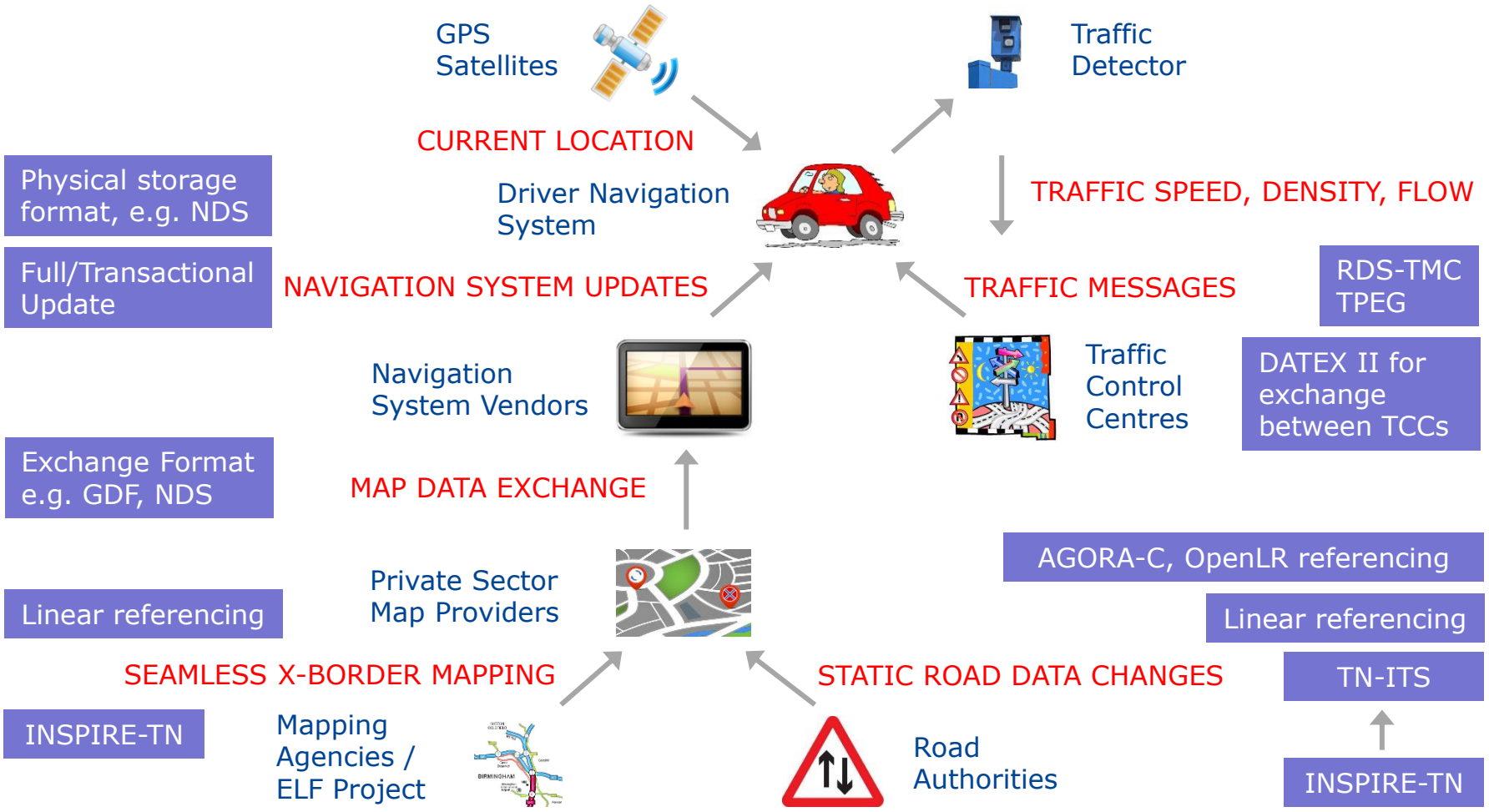
Road navigation data ecosystem – a typical example



Road navigation data ecosystem – static & dynamic data



Road navigation data ecosystem – driven by standards



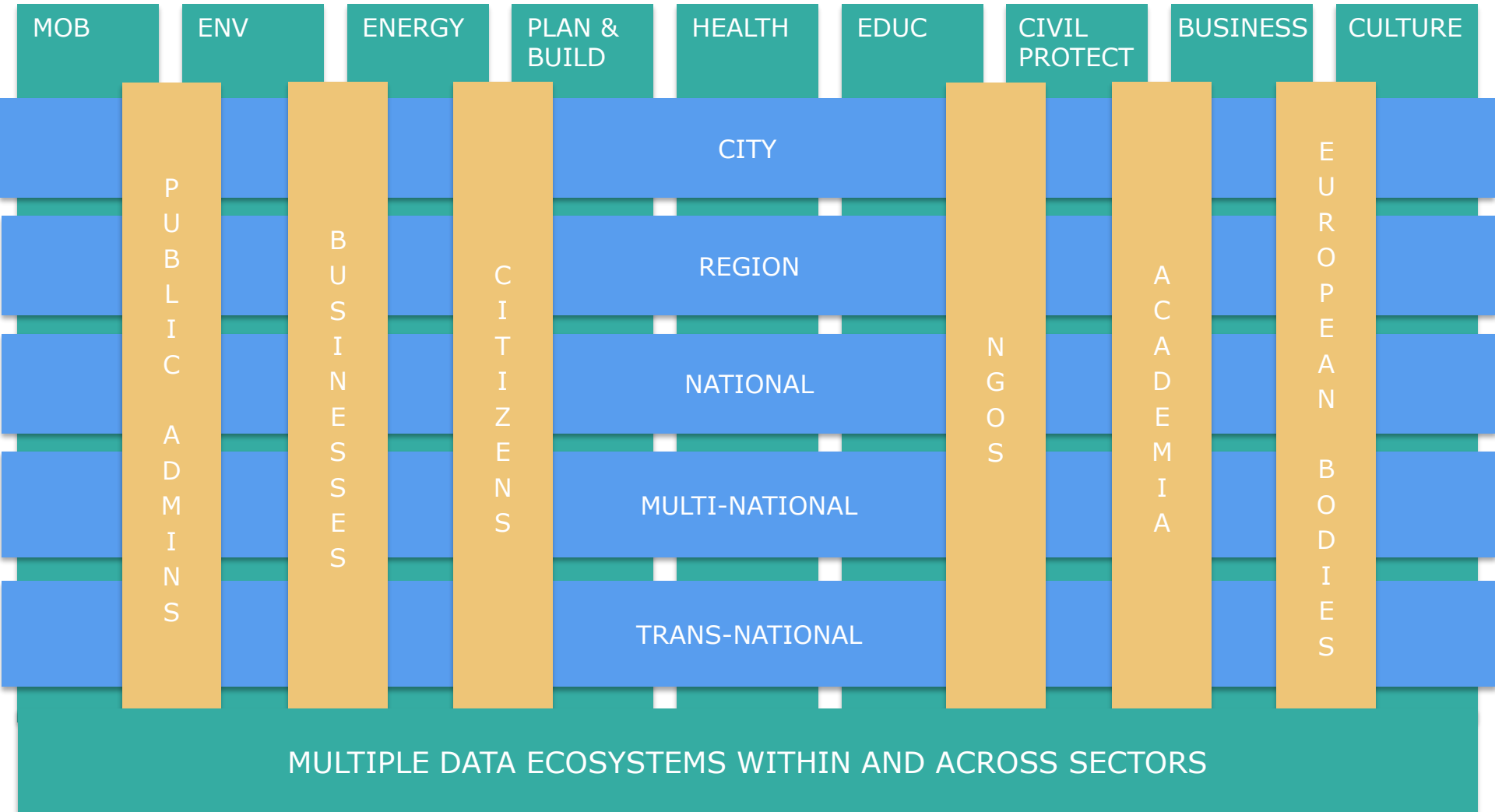
Data ecosystem: definition

"A data ecosystem is where a number of actors interact with each other and their environment for a specific purpose, generating value by producing, exchanging and consuming data in a collectively governed and operated way"

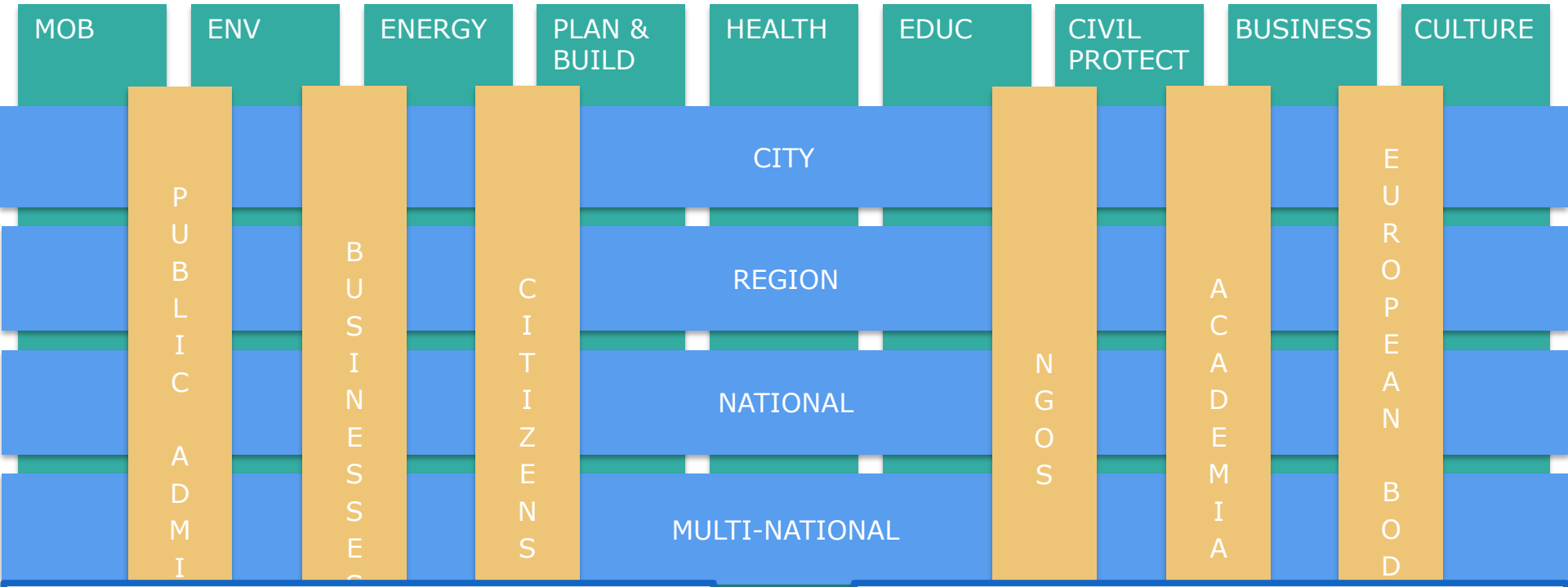
Typically, data ecosystems combine:

- spatial and other data
- static and dynamic data
- factual and analytical uses of data

Data ecosystems vary in purpose, extent and actors



Data ecosystems and geospatial data



Geospatial data is fundamental to most data ecosystems!

SDIs need to evolve to provide effective support across all these data ecosystems

Practical innovation using location intelligence - examples

PUBLIC SECTOR

PRIVATE SECTOR

Targeting solar panel offers

Street light energy saving automation

Aircraft traffic optimisation and re-routing

Modelling city developments and events

Driver assistance applications, e.g. safe driving, parking

Multi-service incident management

Disease track and trace systems

Precision agriculture crop management

Immersive tourism applications

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Cities are the focus of much of the ‘geospatial’ innovation

Effective public / private sector collaboration is vital in many instances

ELISE supports innovation through location interoperability

EULF BLUEPRINT
Location interoperability guidance framework

FRAMEWORK

STUDIES

KEY TOPICS IN LOCATION ENABLED DIGITAL TRANSFORMATION

Evolution of SDIs 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

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

SKILLS

TRAINING & WEBINARS

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 non-spatial data
- Challenge in supporting multiple data ecosystems in a harmonised way

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

Collaboration

- Involve users and partners in all SDI-related 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

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

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"

A key aim is to support and engage businesses through data sharing and help grow the digital single market

Key elements

- Policy framework
- Data spaces
- High value (open) datasets
- Demand driven

Dates

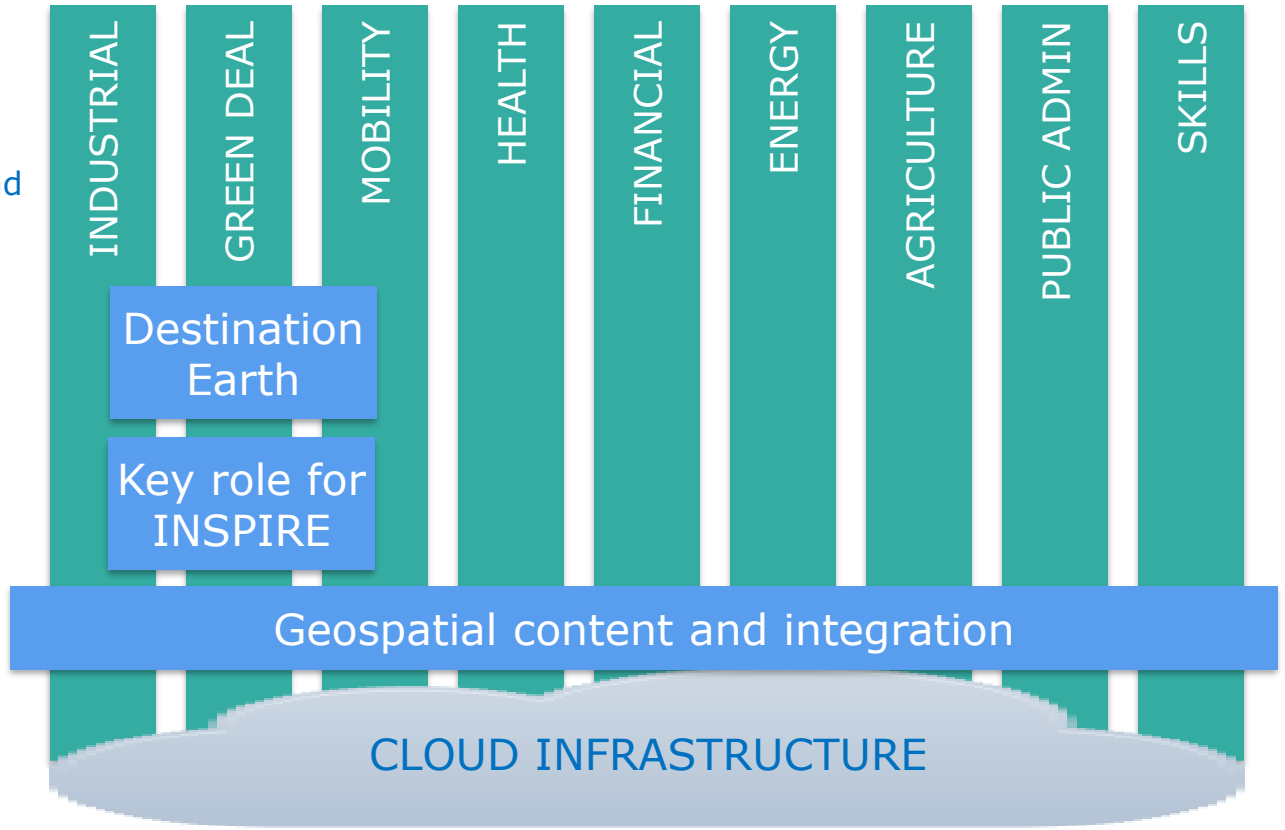
Q420 Review importance of data and existing policy framework

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: @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.

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Thank
you!