

RUSTIK Viewer: a tool for integrating bottom-up and topdown data sources



MCRIT

Rural proofing: looking at policies through the rural lens. 12 June 2025





RUSTIK Approaches to Data Collection & Analysis



1. Gap Analysis on Data Availability

Comparative analysis on Data Availability across all LLs

Identification of missing data & data interests

Guiding the priorities for database development



2. Design & Development of RUSTIK Database & Viewer

Development of **RUSTIK database**

Integration processes with **local databases** (LLs)

RUSTIK Viewer functionalities & design



3. Trainings to Gather & Analyse (Bottom-up/Top-down) Data

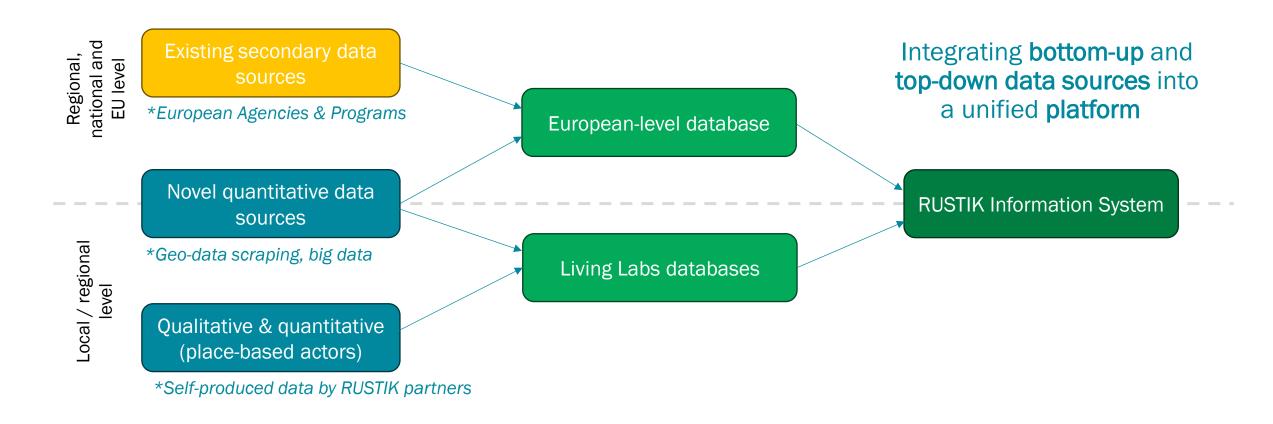
Mapita's Learning Hub – Maptionnaire tool

Trainings on **Tools for Geospatial Analysis & Data Scraping**

Trainings on how to use RUSTIK Viewer

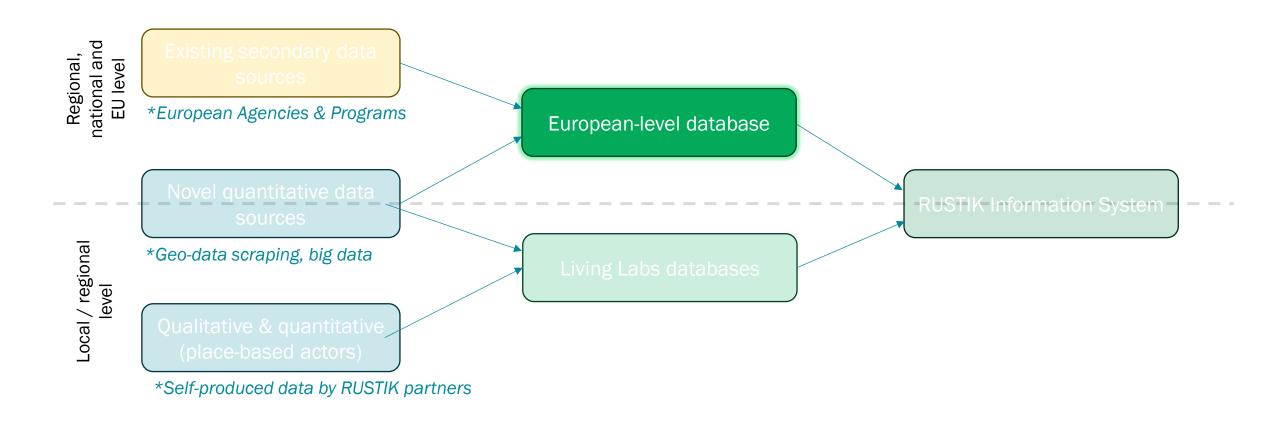


RUSTIK Viewer: Conceptualization





RUSTIK Viewer: European-level database











The RUSTIK Information System is an analytical interface providing access to meaningful data sets illuminating three key transitions in rural areas: socio-economic, environmental, and digital.

The System connects a central EU platform with regional systems at the Pilot Region level (the Living Labs interface). The Core RUSTIK European interface fosters comparability and transferability of data across regions and territories, while the Living Lab interface emphasizes locally curated datasets that answer to place-based challenges.

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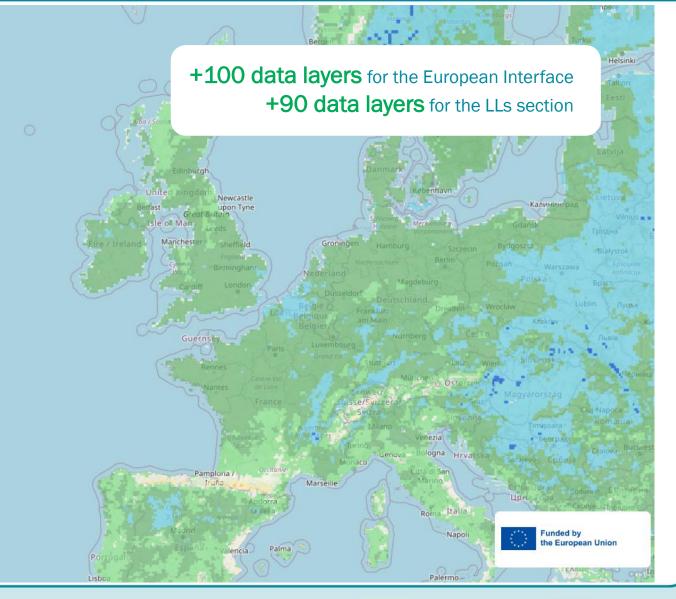
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▼ Content

- General Information
- ▼□ European-wide data
- ➤☐ Socioeconomic Transition
- > Environmental Transition
- ➤☐ Digital Transition
- > Living labs

Living lab finder

Disclaimer













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Average meteorological forest fire danger (1981 - 2010)

Areas burnt by wildfires

> Precipitation

➤ Natural Resources and Heritage Conservation

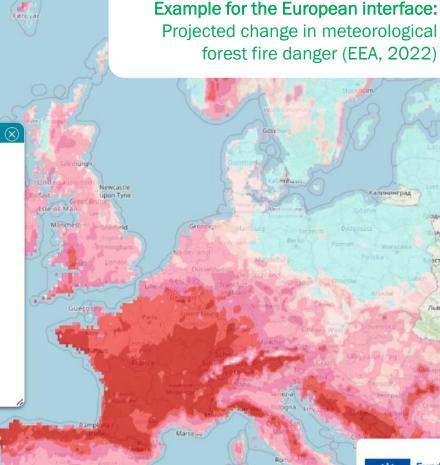


Source: European Environmental Agency Organisation: Joint Research Centre

(i)**!**■

Source data access: Click here

This indicator measures the projected change in meteorological forest fire danger, expressed as a percentage change in the Standardized Severity Ratio (SSR). It provides insights into the anticipated variations in fire risk due to climatic and environmental factors.



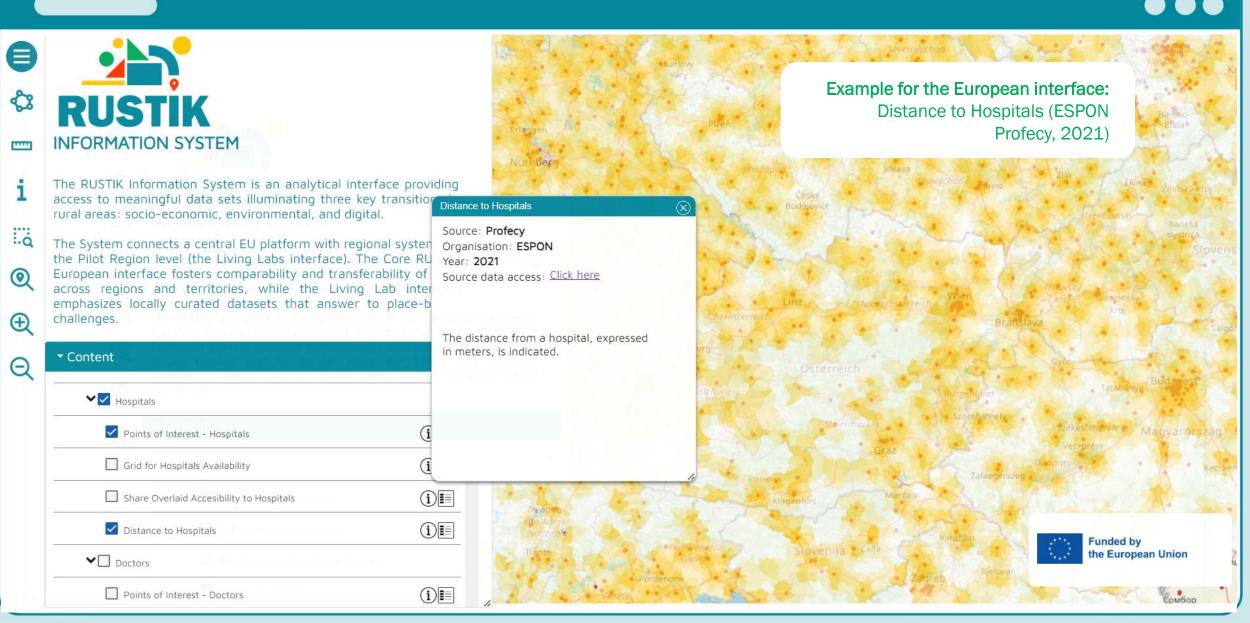






Funded by

the European Union









1- Provision of **ecosystem services** (water quality/quantity, energy, biodiversity, landscape, etc.).



Indicator	Source
1. Forest Proportion of Land (%)	Joint Research Centre - LUISA (2018)
2. Built Proportion of Land (%)	Joint Research Centre - LUISA (2018)
3. Agricultural Proportion of Land (%)	Joint Research Centre - LUISA (2018)
4. Projected change in meteorological forest fire danger	European Environmental Agency (2022)
5. Average meteorological forest fire danger 1981- 2010	European Environmental Agency (2022)
6. Areas burnt by wildfires	European Environmental Agency (2022)
7. Projected changes in heavy precipitation in winter	European Environmental Agency (2020)
8. Projected changes in heavy precipitation in summer	European Environmental Agency (2020)
9. Drought Frequency Change 2041-2071 RCP 4.5	European Environmental Agency (2023)
10. Drought Frequency Change 2041-2071 RCP 8.5	European Environmental Agency (2023)
11. Forest Type (raster 20 m and 100 m), 3-yearly	Copernicus Global Land Service (2018)
12. Tree Cover Density (raster 10 m and 100 m), 3-yearly	Copernicus Global Land Service (2018)
13. Small Woody Features (vector raster 5 m and 100 m), 3-yearly	Copernicus Global Land Service (2018)
14. Dominant Leaf Type (raster 10 m)	Copernicus Global Land Service (2018)
15. Natura 2000 Protected Areas	Copernicus Global Land Service (2018)
16. Emerald Protected Areas	Copernicus Global Land Service (2018)

Source
Copernicus Global Land Service (2018)
European Environmental Agency (2018)
European Environmental Agency (2018)
European Environmental Agency (2018)
European Environmental Agency (2023)
Joint Research Centre (2023)
Joint Research Centre (2023)
Joint Research Centre (2023) 8

2- Innovative infrastructures & services (schools, transports, healthcare services, broadband networks, etc.).



Indicator	Source
Primary Schools. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
2. Secondary Schools. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
3. Hospitals. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
4. Doctors. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
5. Pharmacies. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
6. Tran Stations. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
7. Banks. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
8. Retail Shops. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
9. Cinema. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)

Indicator	Source	
10. Commercial Activities. Points of Interest	Open Street Maps (2024)	
11. Culture. Points of Interest	Open Street Maps (2024)	
12. Health. Points of Interest	Open Street Maps (2024)	
13. Industry. Points of Interest	Open Street Maps (2024)	
14. Nature and Forestry. Points of Interest	Open Street Maps (2024)	
15. Restauration. Points of Interest	Open Street Maps (2024)	
16. General Services. Points of Interest	Open Street Maps (2024)	
17. Sports and Leisure. Points of Interest	Open Street Maps (2024)	
18. Touristic Assets. Points of Interest	Open Street Maps (2024)	
19. Touristic Information. Points of Interest	Open Street Maps (2024)	
20. Access to high-speed mobile network	Joint Research Centre (2023)	
21. Access to high-speed fixed network	Joint Research Centre (2023)	

3- Provision of high quality & accessible land-based products (agriculture, forestry, energy, etc.).



Indicator	Source
1.Forest Proportion of Land (%)	Joint Research Centre - LUISA (2018)
2. Built Proportion of Land (%)	Joint Research Centre - LUISA (2018)
3. Agricultural Proportion of Land (%)	Joint Research Centre - LUISA (2018)
4. Agricultural Area	Copernicus Global Land Service (2018)
5. Forest Type (raster 20 m and 100 m), 3-yearly	Copernicus Global Land Service (2018)
6. Tree Cover Density (raster 10 m and 100 m), 3-yearly	Copernicus Global Land Service (2018)
7. Small Woody Features (vector raster 5 m and 100 m), 3-yearly	Copernicus Global Land Service (2018)
8. Dominant Leaf Type (raster 10 m)	Copernicus Global Land Service (2018)

Indicator	Source
9. Urban Atlas Land Cover/Land Use (vector), Europe, 6-yearly	Copernicus Global Land Service (2018)
10. Urban Atlas Land Cover/Land Use Change (vector), Europe, 6-yearly	Copernicus Global Land Service (2018)
11. CLC+Backbone 2018 (raster 10 m), Europe, 3-yearly	Copernicus Global Land Service (2018)
12. Coastal Zones Land Cover/Land Use (vector), Europe, 6-yearly	Copernicus Global Land Service (2018)
13. Coastal Zones Land Cover/Land Use Change 2012-2018 (vector), Europe, 6-yearly	Copernicus Global Land Service (2018)
14. Solar Production	Joint Research Centre (2023)
15. Onshore Production	Joint Research Centre (2023)
16. Hydropower Production	Joint Research Centre (2023)

4- Distributed and diversified **production systems** (new economic activities)



Indicator	Source
Banks. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
2. Retail Shops. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
3. Cinema. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
4. Commercial Activities. Points of Interest	Open Street Maps (2024)
5. Culture. Points of Interest	Open Street Maps (2024)
6. Industry. Points of Interest	Open Street Maps (2024)
7. Restauration. Points of Interest	Open Street Maps (2024)

Indicator	Source
8. Touristic Assets. Points of Interest	Open Street Maps (2024)
9. Touristic Information. Points of Interest	Open Street Maps (2024)
10. Unemployment Proportion	JRC / DG Regio (2022)
11. Agriculture Sector Workers Proportion	JRC / DG Regio (2022)
12. Construction Sector Workers Proportion	JRC / DG Regio (2022)
13. General Service Workers Proportion	JRC / DG Regio (2022)
14. Tourism capacity in rooms per LAU2	JRC / DG Regio (2022)
15. PIB per capita	JRC / DG Regio (2022)

5-Social capital / cultural assets & cooperative institutions

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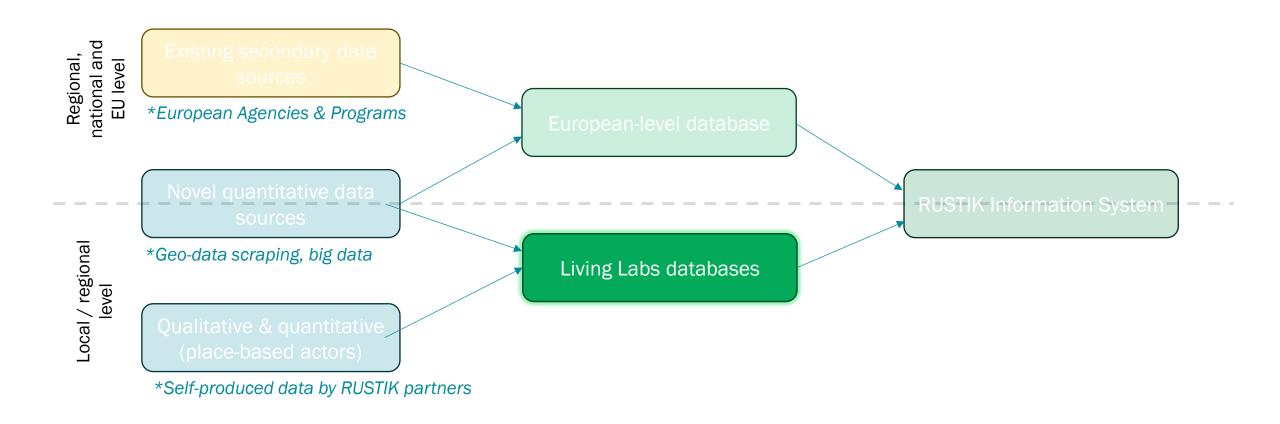


Indicator	Source
1.Population (1981, 1991, 2001, 2011, 2021)	Eurostat (1981-2021)
2. Population growth 1981-2021	Eurostat (1981-2021)
3. Density	Eurostat (2021)
4. Density Growth 2011-2021	Eurostat (2011-2021)
5. Women employment proportion	Eurostat (2022)
6. Women and men unemployment difference	Eurostat (2022)
7. Female Disadvantage Index (FemDI)	DG Regio (2021)
8. Female Achievement Index (FemAl)	DG Regio (2021)

Indicator	Source
9. Crude rate of net migration	Eurostat (2021)
10. Migration population proportion	Eurostat (2021)
11. Cinema. Points of Interest, Grid, and Accessibility (three separate layers)	ESPON Profecy (2022)
12. Culture. Points of Interest	Open Street Maps (2024)
13. Tertiary education level (25-64)(%)	Eurostat (2022)
14. Secondary education level (25-64)(%)	Eurostat (2022)
15. Early school leaving (18-24)(%)	Eurostat (2022)
16. Quality of Government Index	University of Gothenburg (2021)



RUSTIK Viewer: Living Labs database



Local Data from RUSTIK Living Labs





- ~ 10 indicators
- Employment
- Businesses
- Public facilities



- ~ 20 indicators
- Agricultural support and CAP payments
- Agricultural activity
- Tourism and local economy



- ~ 3 indicators
- Population over 65 years
- Population with foreign mother tongue



- ~ 30 indicators
- Demographics
- Enterprises by type



- ~ 5 indicators
- Demographics
- Working population



- ~ 1 indicators
- Educational migration



- ~ 80 indicators
- Demographics
- Agricultural structure and productivity
- Farm market orientation and diversification



- ~ 30 indicators
- Quality of life (environmental, social, and economic indicators)



- ~ 10 indicators
- Land ownership and structure
- Spatial Planning (model settlement)



- ~ 1 indicator
- Rural broadband connection and performance



- ~ 15 indicators
- Population dynamics
- Destination of movers
- Community perception and social cohesion

^{*} The data from the Living Labs is in the process of being integrated into the RUSTIK Viewer.









INFORMATION SYSTEM

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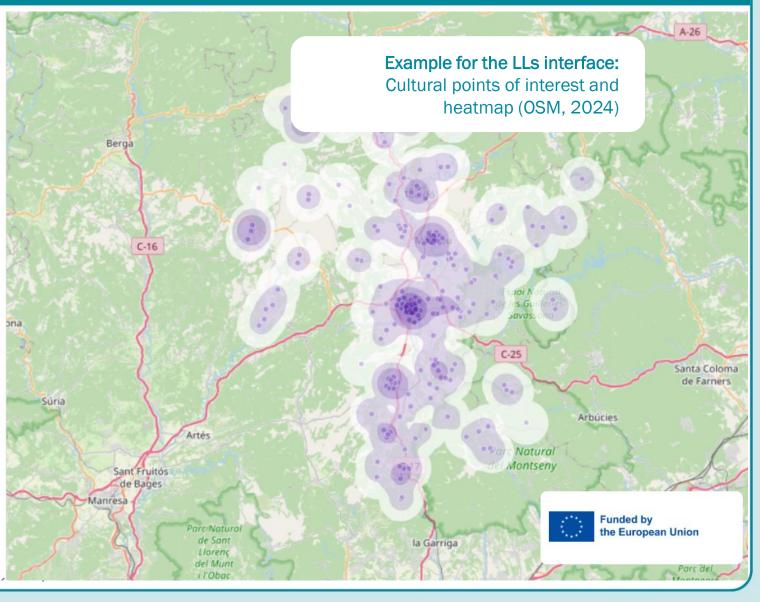
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▼ Content	
Osona Municipalities	_
✓✓ Service Accesibility	
✓ Cultural Point of Interest	
✓ Cultural Heatmap	
Administrative Point of Interest	
Administrative Heatmap	
☐ Tourism Point of Interest	

















INFORMATION SYSTEM

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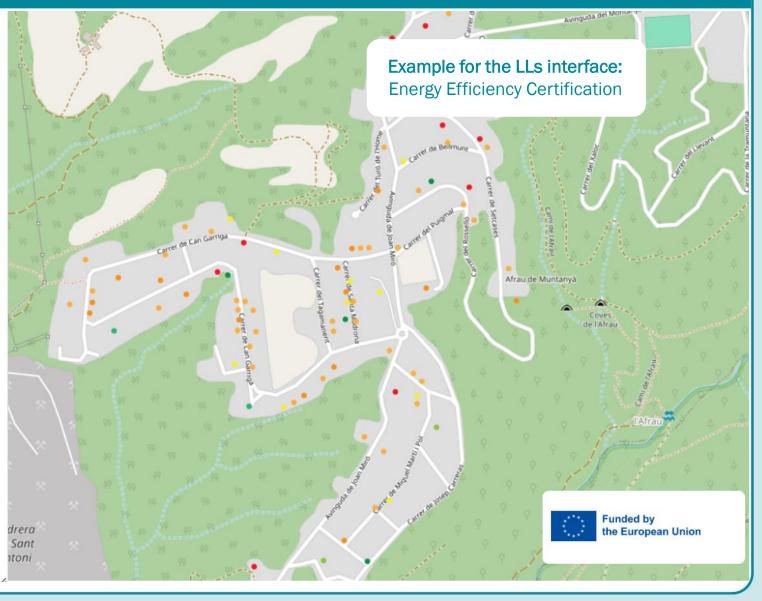
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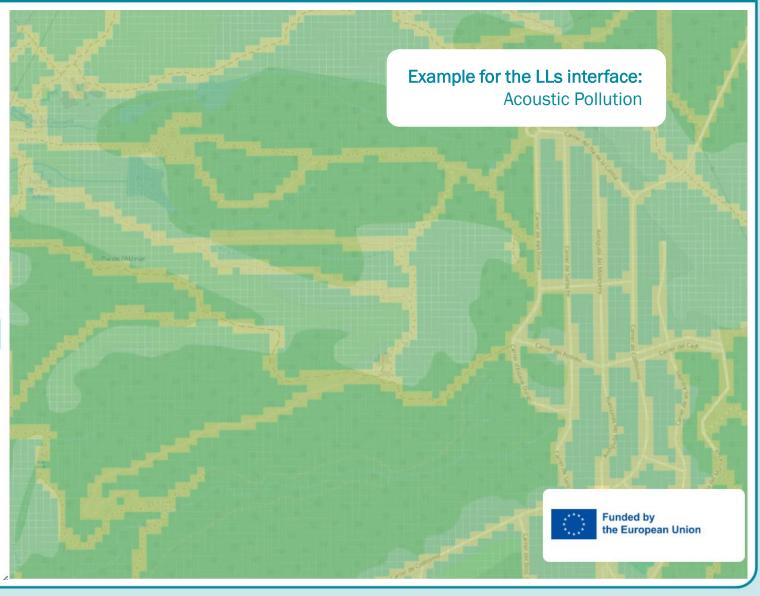
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▼ Content	
Quality of life Grid Calculation	4
☐ Energy Efficience Certification	
Commercial Vitality	
Green public space proximity	
✓ Acoustic pollution	
➤☐ Osrednjeslovenska (SI)	
➤☐ Parma and Piacenza (IT)	









thanks

Marta Carbonés, MCRIT



