The OECD Geospatial Lab

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Centre for Entrepreneurship, SMEs, Regions and Cities (CFE)

THE OECD LABORATORY FOR GEOSPATIAL ANALYSIS

OECD
BETTER POLICIES FOR BETTER LIVES

The OECD Laboratory for Geospatial Analysis

Goal: Encourage widespread **adoption of geospatial analyses in shaping policies** that tackle today's place-based problems

Steering group	Secretariat OECD CFE	Members

International community of stakeholders for geospatial analysis

Facilitate exchange, networking and knowledge sharing

Promoting production and dissemination of geospatial data

Set **principles and standards for aggregation, harmonisation, and interoperability** for geospatial data

Developing and showcasing policies enabling innovation

Workstreams

Urban analytics

Understand the **processes and interactions** amongst agents, technology and infrastructure **in urban contexts** across spatial and temporal scales.

Ethical and responsible use of geospatial data

Understand **location data ethics in the policy arena** by bringing together experts from various sectors, including government institutions, NGOs, industry, and academia.

Sustainability and economic development

Leverage geospatial data to **integrate environmental** and **economic planning**.

Reconciling mismatches between official statistics and earth observation data

Promote robust global population distribution products as strategic resource, with the aim to **supplement census data** through data collected by **remote sensing**.

Data fusion and integration between public and private sources

Integrate **geo-data from public and private data providers**, to provide a framework to monitor and diagnose the **well-being and liveability of places** at the grid level.

Increasing need for timely and granular data

Progress assessment for the 17 Goals based on assessed targets, 2023 or latest data

Share of targets assessed

■ On track or target met   ■ Fair progress, but acceleration needed   ■ Stagnation or regression   ■ Insufficient data

Source for figure: UN (forthcoming), Progress towards the Sustainable Development
Goals: Towards a Rescue Plan for People and Planet (Draft report)

Increasing need for timely and granular data

SDG11

60% of the indicators needed to measure SDG 11 on Sustainable cities and settlements are missing

... opportunity for a "new brave world of data"

New sources

- Smartphones

- Sensors (deployed on the ground or remotely)
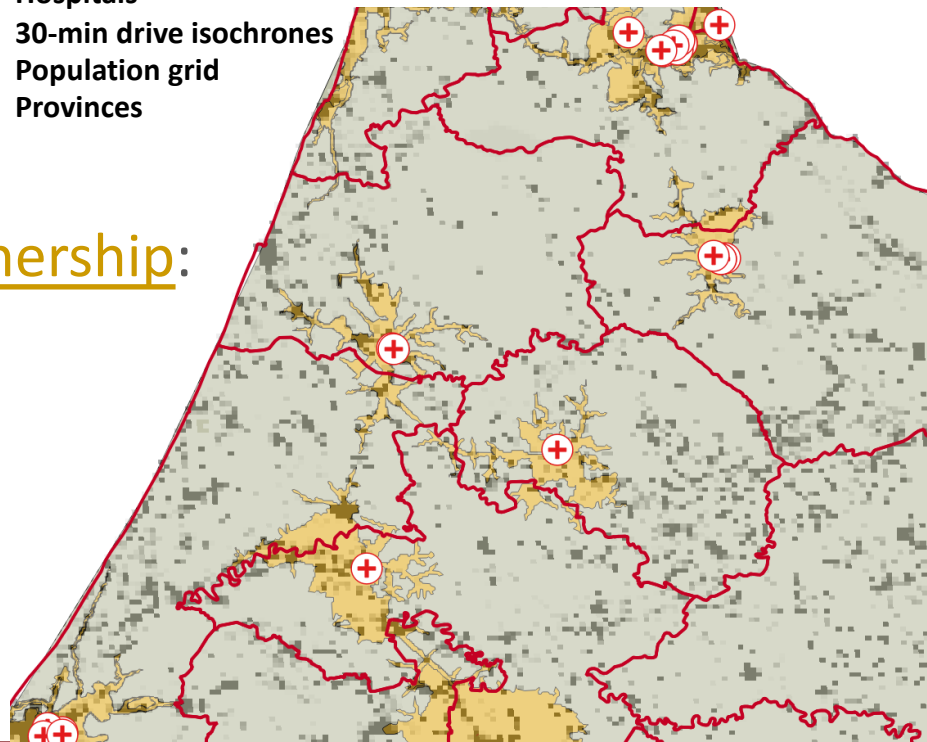
- Previously closed (public) registries

Features

- Global scope

- Spatial, temporal or spatiotemporal granularity

- "Accidental" (i.e., low marginal production cost)

Mapbox: Accessibility to services

Hospitals
30-min drive isochrones
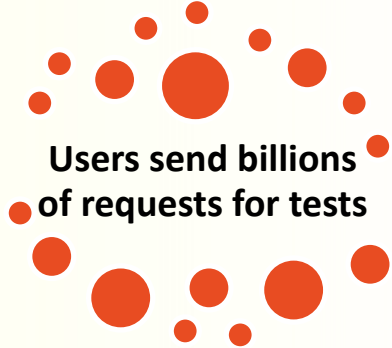Population grid
Provinces

Through the Development Data Partnership:

- Mapbox Isochrone API to assess accessibility to services (hospitals, schools, parks, etc.)

Ookla: Territorial disparities in Internet speed
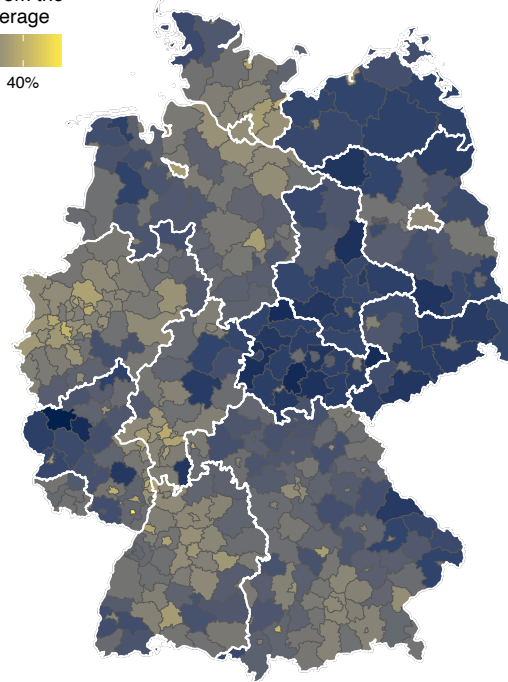
Users send billions of requests for tests

14 000 Ookla servers

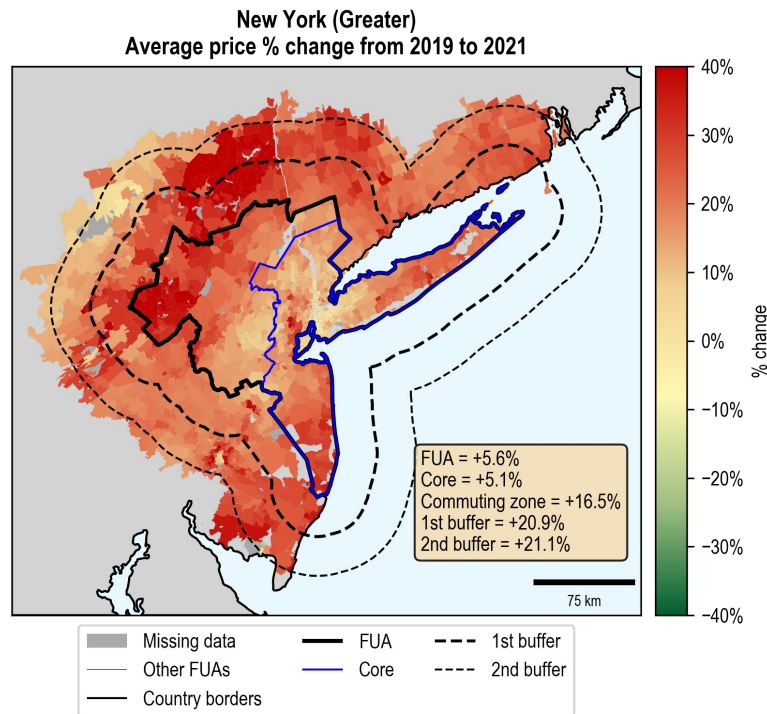Deviation from the national average

-40%   0%   40%

Housing data providers: The impact of remote work and COVID-19 on the geography of housing demand

Network of public and private data providers on house prices, e.g.:

- **US**: Zillow
- **Portugal**: Confidential Imobiliario
- **Germany**: Vdp Research

New York (Greater)
Average price % change from 2019 to 2021

FUA = +5.6%
Core = +5.1%
Commuting zone = +16.5%
1st buffer = +20.9%
2nd buffer = +21.1%

75 km

% change

Missing data	FUA	1st buffer
Other FUAs	Core	2nd buffer
Country borders		

Source for map: Ahrend et al. (forthcoming), Expanding the Doughnut? The Impact of Remote Work and COVID-19 on the Geography of Housing Demand

What's next?

We are planning for the next phase:

- **Enlarge** and diversify the **community** (also inside the OECD!)

- **Re-focus the Workstreams** and set a long-term **strategy**

- **Experiment new working modalities**

- **Re-inforce** the link with other **initiatives** in the field

Thank you!

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