Strategies to develop a governmental data sandbox to NUTS-2 level place-based transformations towards sustainability and resilience: A case study on an exercise to monitor SDGs in the EU regions

DANIEL POP, FSPAC, BABEŞ-BOLYAI UNIVERSITY

Structure of the presentation

- Introduction:
 - The overview of status and progress of EU member states towards the SDGS
 - The Regions 2030 monitoring the SDGs in the EU regions initiative
 - Sandboxing to strengthen local data ecosystems
- Case study SDGs monitoring at the level Romania's Nord-Vest region
- Lessons

Overview of status and progress of EU Member States towards the SDGs





Romania

Source: Eurostat

Source: Eurostat. Sustainable development in the European Union: monitoring report on progress towards the SDGS in an EU context. Publications office of the European Union, 2017. doi:10.2785/846970. KS-04-23-184-EN-C

Regions 2030 – Monitoring the SDGs in the EU regions

- The European Commission's Joint Research Centre, in collaboration with the Directorate General for Regional and Urban Policy for Eurostal and with the support of the European Parliament and the European Committee of Regions have implemented the pilot project 'Monitoring the SDGs in the EU regions – Filling the data gaps – REGIONS2030'.
- The initial survey resulted in a database of 83 indicators (covering all 1 SDGs, and 54 targets) at EU level for NUTS2.
- Of the 83 indicators 57 are official one, and 26 experimental.



Source: Vega Rapun, M., Stamos, I., Proietti, P. and Siragusa, A., REGIONS2030 - European regional SDG indicators, EUR 31326 EN, Publications Office of the European Union, Luxembourg, 2022, ISBN 978-92-76-59330-0, doi:10.2760/535936, JRC131581.

Data ecosystem for monitoring SDGs at regional level



- To create regional level SDGs data framework to enable sharing of data on the 17 goals, 169 targets and 248 indicators.
- Ensure interoperability solutions for digital public services using information from location
- To implement the European Data Strategy

Galasso G., Montino C., Gori M., Rasmussen M., Roman L., McColgan O., Liva G., Rebesco E., Brynskov M., Mulquin M., Micheli M., Schade S., Smith R.S., Kotsev A., *Sandboxing: how to use it to strengthen your local data ecosystem*, Publications Office of the European Union, Luxembourg, 2022, doi:10.2760/779684, JRC130555.

SDGs data ecosystems in the Nord-Vest region

- To establishment a relevant and applicable set of indicators for monitoring the achievement of the SDGs at NUTS2 regional level.
- The review was developed within the framework of the pilot project entitled "REGIONS2030: Monitoring the SDGs in the EU regions – Filling the data gaps", launched by the European Commission's Joint Research Centre (JRC) in collaboration with the Directorate General for Regional and Urban Policies (DG REGIO) and ESTAT, and supported by the European Parliament.
- The analysis focuses on identified the availability of official and alternative indicators to the Regions 2030 – Monitoring the SDGs in the EU regions database

The Nord-Vest region Romania:

NUTS2: inter-municipal cooperation framework for the realization of development objectives and implementation of EU programs

LAUs: 6 COUNTIES; 6 county seat municipalities; 9 municipalities, 28 cities; 403 communes (1,752 villages)

SURFACE: 34,159 km2 (14.3% of country)

RESIDENTS (2020): 2,542,441 (13.2% of country)

GDP (2021): 20,500 (EURO PPS per inhabitant)

Available indicators benchmarked to the Regions2030 initiative



Internationally available official regional-level data examples



Romania

Macroregion 1, Romania



Yea

Macroregion 1, Romania

Romania

Nord-Vest Region

Source: Romanian Statistical Yearbook



Romania

Macro region 1, Romania

Nationally available official regional-level data - examples













Example of data collected locally

SDG6. Indicator 6.1. Water bodies that exceed a standardized quality rating (6.3 water quality)



Source:	The National Administration "Romanian Waters" through the Romanian Statistical Yearbook
Name of indicator:	Surface water quality for Hydrographic basins
Hyperlink (available API):	https://insse.ro/cms/en/content/statistical-yearbooks- romania
Visualisation:	https://crisuri.rowater.ro/ https://rowater.ro/
Availability and geographic coverage:	NUTS2
Unit of measurement:	km The quality rating includes four classes, which are: First and second class- Very good and good status (VGGS); Third class – Moderate status (MS); Fourth class – Poor status (PS) and Fifth class – bad status (BS).
Level of aggregation:	Water basin
Time coverage and frequency:	2009-2021 Data collected every year

Insights

- The identified data provide critical insights into the realization of SDGs at regional (NUTS2) level, but only for a limited number of indicators and targets.
- However, to strengthen the monitoring of SDGs at regional level could benefit from the articulation of a local data ecosystem – including data from all 6 county seat municipalities; 9 municipalities, 28 cities; 403 communes (1,752 villages).
- Expanding indicators analysis by expanding the data ecosystem to include besides descriptive and performance indicators also a group of welfare and sentiment indicators