Delineating Cities and Rural Areas. Polish case study

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On January 1, 1999 the new administrative division was introduced in Poland. The two stage administrative division used since 1975 has been replaced with a three-stage one that consists of voivodeships, counties, and municipalities (communes).

The new administrative division has been slightly modified since its introduction.
Types of municipalities in Poland

The National Official Register of the Territorial Division of the Country (TERYT) which is based on administrative (formal) division of municipalities (Polish: gmina) into:

- urban municipalities (including only cities/towns) – 302 entities (as of 1 January 2018)
- rural municipalities (including only rural areas) – 1548 entities
- urban-rural municipalities (including both cities within their administrative borders and rural areas) – 628 entities
Urban and rural areas in Poland

The division based on the National Official Register of the Territorial Division of the Country (TERYT).

Urban areas:
• areas within administrative boundaries of cities and towns (i.e. urban municipalities and urban areas of urban-rural municipalities)

Rural areas:
• areas outside administrative boundaries of cities and towns (i.e. rural municipalities and rural parts of urban-rural municipalities)
According to the degree of urbanisation (DEGURBA) elaborated by Eurostat there are:

- 74 municipalities classified as „cities”
- 527 municipalities classified as „towns and suburbs”
- 1877 municipalities classified as „rural areas”
Comparison: Polish classification v. DEGURBA

In total (as of 2018) there were 1,775 out of 2,477 municipalities in Polish division (71.6%) assigned analogically to the DEGURBA division;

84 municipalities (3.4%) had lower assignment in DEGURBA (by 1 class);

assignment of 619 municipalities (25.0%) was overrated in comparison to DEGURBA (597 by 1 class, 22 by 2 classes)
Main cities in Poland

There is no official definition of "main city" in Poland. For statistical purposes (as well as i.e. in the National Urban Policy) cities are categorized into:

• small cities (with less than 20,000 inhabitants – 712 entities),
• medium-sized cities (with 20-100 thousand inhabitants – 179 entities) and
• large cities (with over 100,000 inhabitants - 39 cities) is used.

In this manner, large cities might be considered as "main cities".

Moreover, capitals of voivodeships (18 cities) also tend to be considered "main cities"
All large cities (and all capitals of voivodeships) are classified in DEGURBA as "cities".
Rural areas: DEGURBA vs. TERYT

TERYT division - 1548 rural municipalities
DEGURBA – 1877 municipalities are classified as "rural areas;"
DEGURBA level 2

- Urban centre (City)
- Dense and semi-dense urban cluster (Town)
- Suburban cells (Suburb)
- Rural cluster (Village)
- Low density rural grid cells (Dispersed rural area)
- Very low density rural grid cells (Mostly uninhabited area)

Population as on 2011
Suburbs – case study: Warszawa

CORINE Land Cover 2012

DEGURBA level 1

DEGURBA level 2 (pop. 2011)
Suburbs – case study: Wrocław

DEGURBA level 1

DEGURBA level 2 (pop. 2011)

CORINE Land Cover 2012
Suburbs – case study: Kraków

DEGURBA level 1

DEGURBA level 2 (pop. 2011)

CORINE Land Cover 2012
Population of types of units

Municipality types

- Urban: 48.24%
- Urban-rural: 23.39%
- Rural: 28.38%

DEGURBA (level 1)

- Cities (densely populated areas): 34.52%
- Towns and suburbs (intermediate density areas): 29.60%
- Rural areas (thinly populated areas): 35.88%

*as on January 1, 2018*
There are 58 Functional Urban Areas in Poland
There are 24 areas of integrated territorial investments (ITI) in Poland
Degurba level 2 vs. Degurba level 2 – Łomża example

Degurba model in the GHSL framework (SMOD)

Degree of urbanisation level 2 of Europe in the coordinate system ETRS_1989_LAEA.
1. Each unified methodology facilitates comparisons. The main question is whether the division of urban and rural population according to DEGURBA would become internationally accepted and applied by official statistics at international level.

2. In Poland it is possible to publish statistics at the municipal level by FUA and DEGURBA. Currently, the data range for 1×1 km grid is limited, mainly to the data on population. There is work underway to obtain additional data as part of the census in 2021.

3. The main problem is to collect data in a grid. Such data is actually collected only during censuses, once every 10 years. There is work underway to obtain data from available administrative sources.

4. The delimitation of the areas only is not enough to monitor the implementation of SDG. It is necessary to develop, agree and approve the methods for obtaining data for this division.

Closing remarks
Thank you for your attention

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