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| SDG Goal 9 | Industry, innovation and infrastructure |
| SDG Target 9.1 | Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all |
| SDG Indicator 9.1.1 | Proportion of the rural population who live within 2 km of an all-season road |
| Time series | Proportion of the rural population who live within 2 km of an all-season road |

1. General information on the time series

- Date of national metadata: 15 December 2021
- National data: <http://sdg-indicators.de/9-1-1/>
- Definition: The time series measures the share of a country's rural population that lives within 2 km of an all-season road.
- Disaggregation: Not available.

2. Comparability with the UN metadata

- Date of UN metadata: September 2020
- UN metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-09-01-01.pdf>
- The time series is compliant with the UN metadata.

3. Data description

- The data is based on a special evaluation by the Federal Statistical Office. The delineation of urban and rural areas is calculated in line with the "Degree of urbanisation" manual based on the "Worldpop population count raster data" as recommended in the UN metadata. For the delineation of all-season roads a national data source is used. All-season roads are selected from the digital landscape model for Germany (DLM) and buffered over 2 km radius.

4. Access to data source

- Unconstrained individual countries 2000-2020 UN-adjusted at 1km resolution data: <https://www.worldpop.org/geodata/listing?id=75>

5. Metadata on source data

- Digital elevation model (DGM10): https://sg.geodatenzentrum.de/web_public/gdz/dokumentation/deu/basis-dlm.pdf
- Unconstrained individual countries 2000-2020 UN-adjusted at 1km resolution data: <https://www.worldpop.org/geodata/listing?id=75>

6. Timeliness and frequency

- Timeliness: t + 6 months
- Frequency: Annual

7. Calculation method

- Unit of measurement: Percentage
- Calculation:

$$\text{Rural Access Index} = \frac{\text{Rural population within 2 km of an all-season road [number]}}{\text{Rural population [number]}}$$