

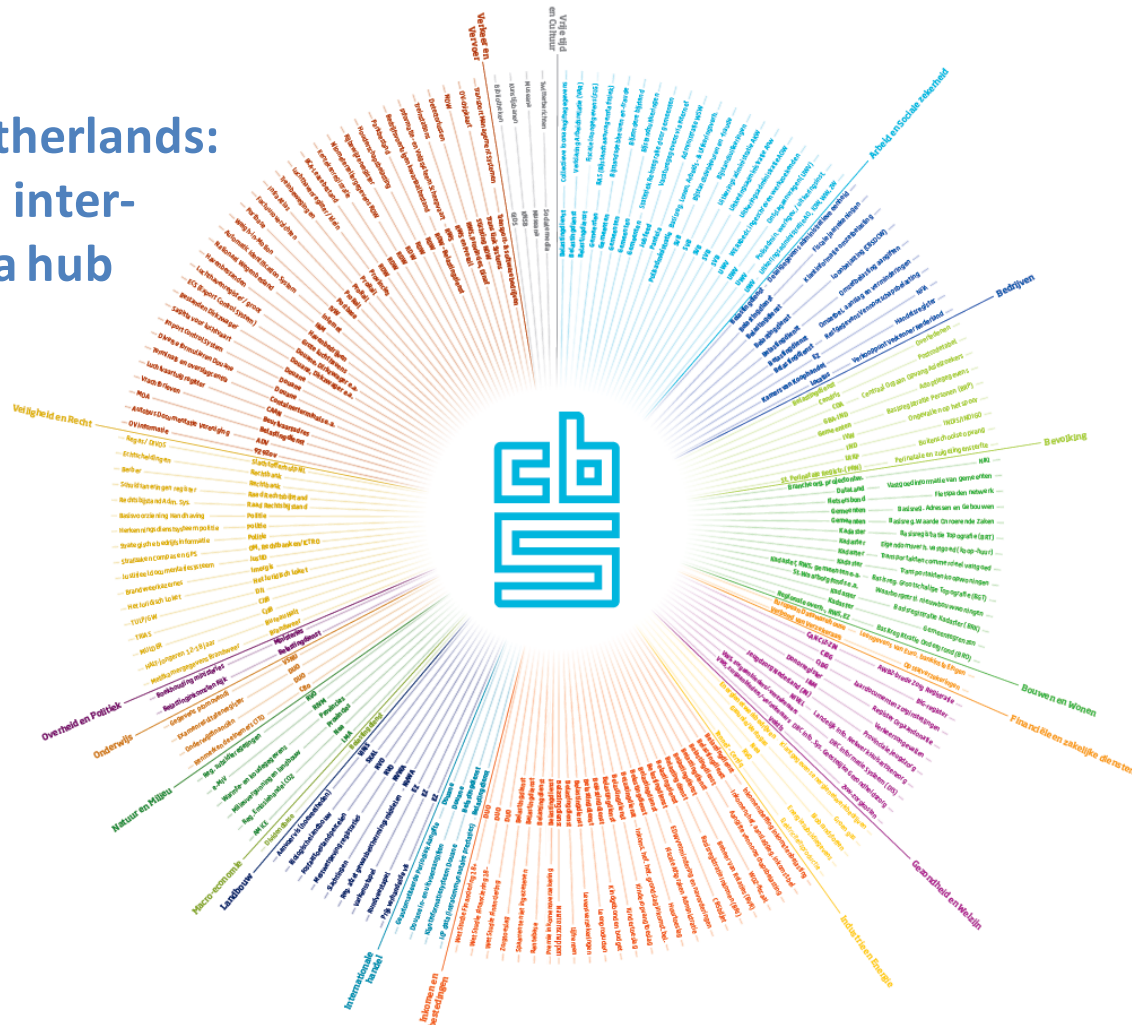
Geospatial data for the SDGs

Expert Forum for producers and users of climate change-related statistics

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Statistics Netherlands: national and inter- national data hub



Statistics Netherlands and the SDGs

- Leading international player in the field of SDG monitoring
- Innovative approach: not only knowledge of using primary data (surveys) and registers (admin data), but also sensor/big data, including city data and geospatial data
- First NSI worldwide to produce a baseline report on the national position regarding the SDG indicators
- Frontrunner in using data from civil society organisations in national SDG monitoring
- Aims to help and support other countries with this very relevant experience



Our second SDG report



- Report published on 7 March 2018
- feedback on first report included
- Based on international (IAEG) indicators
- Contains CBS and external data
- Financed by Ministry of Foreign Affairs
- English version available at:
<https://www.cbs.nl/en-gb/publication/2018/10/the-sdgs-the-situation-for-the-netherlands>

Working Group on Geospatial Data

- Resolutie GA: “improve the availability, quality, timeliness and disaggregation of data to support the 2030-agenda”
- Geospatial information explicitly quoted as data source
- WG on geospatial data established in spring 2016, CBS joined WG one year ago
- First product:

Shortlist

results of the analysis of the Global Indicator Framework with a “geographic location” lens

Table A:

List of Indicators where geospatial information has a direct contribution

Table B:

List of additional Indicators where geospatial information has a significant/supporting contribution.



Working Group on Geospatial Data

A few relevant examples for Statistics Netherlands:

- 6.4.1 Change in water use efficiency over time
- 6.4.2 Level of water stress: freshwater withdrawal as a proportion of available resources
- 15.1.1 Forest area as a proportion of total land area
- 15.3.1 Proportion of land that is degraded over total land area



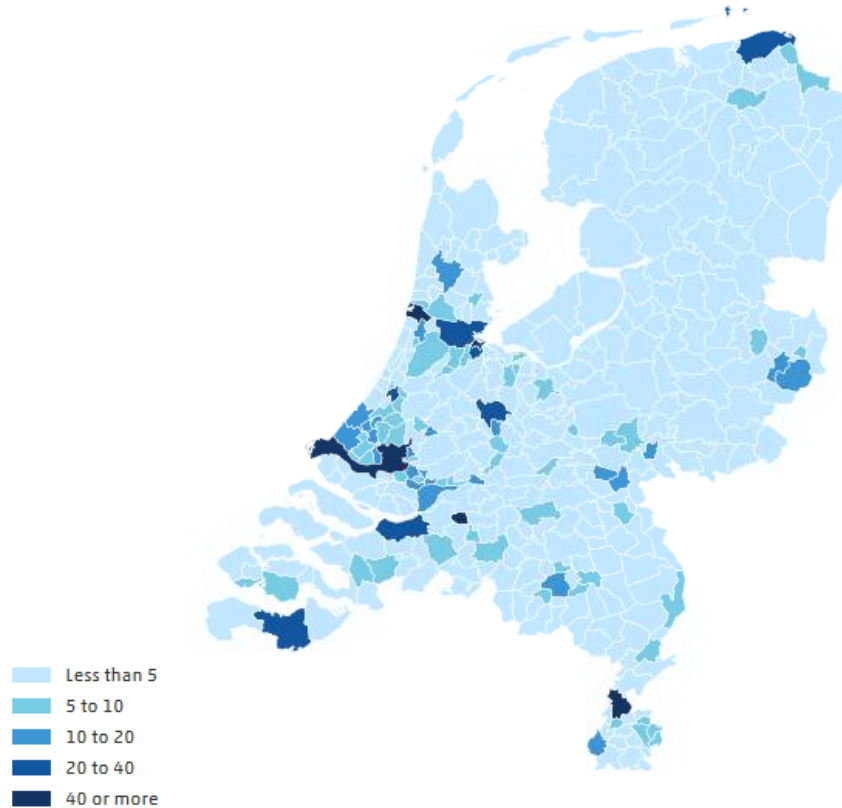
Country example: greenhouse gas emissions

- CO₂ emission in 2017 for The Netherlands at the same level as in 1990 (163 billion kg)
- In the same period: emissions of other greenhouse gasses reduced by half
- Total emissions expressed in CO₂ equivalents were 13 percent lower than in 1990
- Two examples: use of geospatial information for estimating uptake and emission of carbon dioxide in The Netherlands

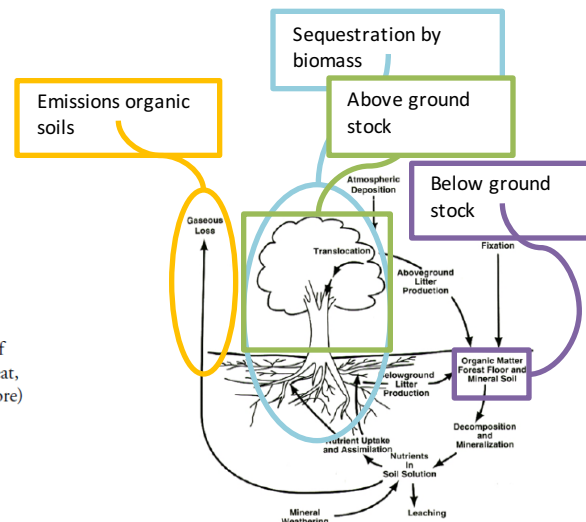
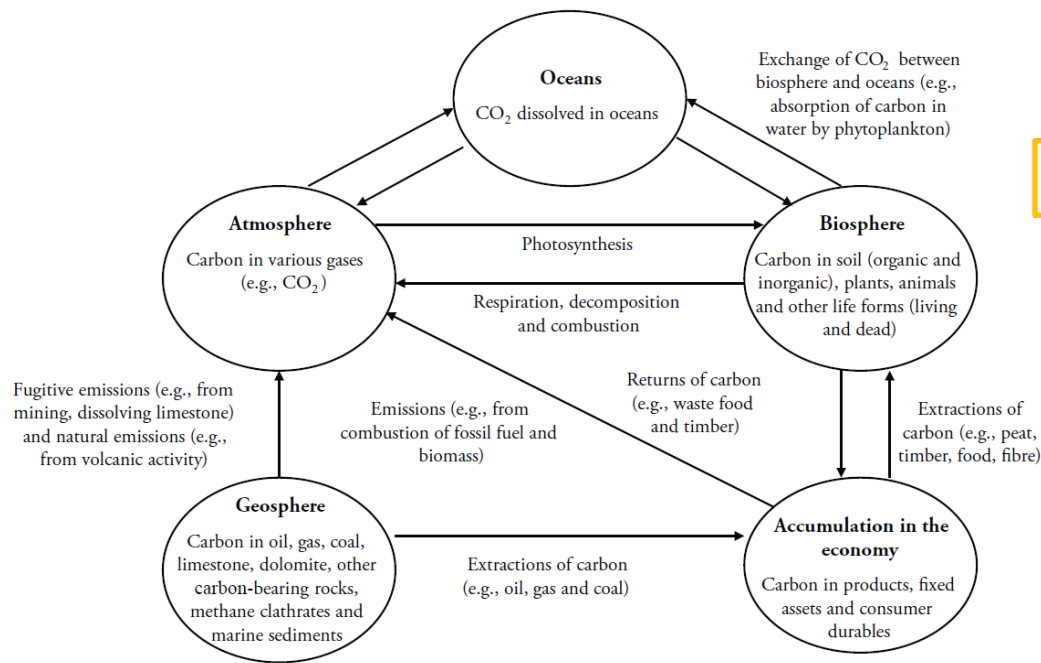


Example 1: regional map CO₂ emissions

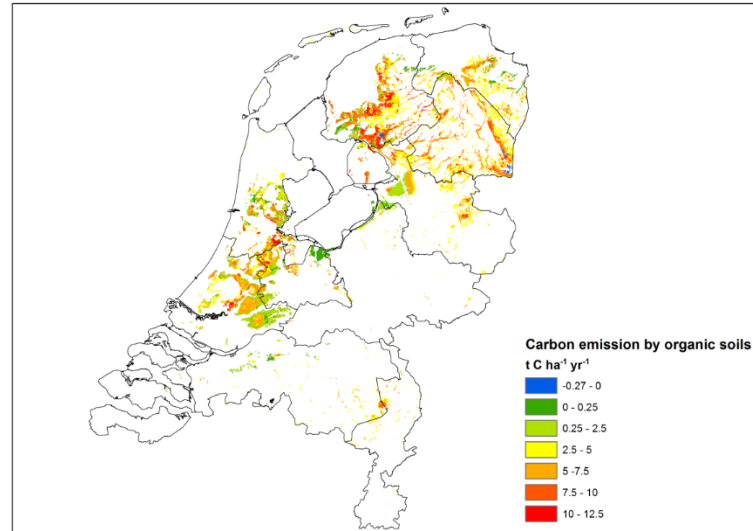
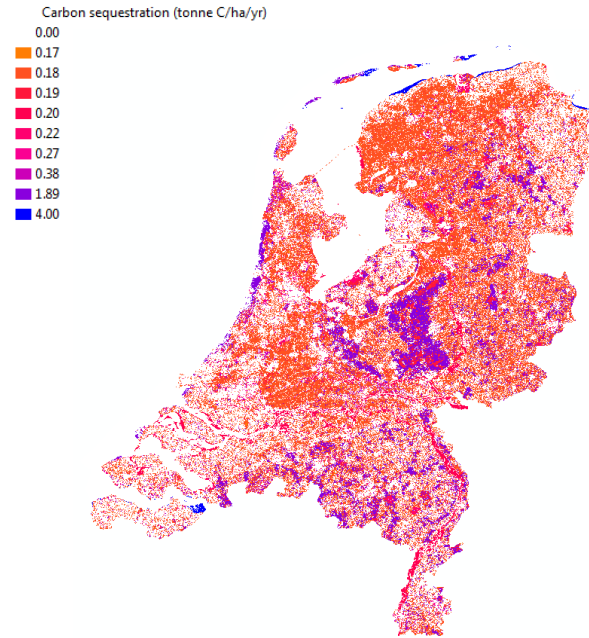
Carbon dioxide emissions in 2016 (kg per square metre)



Example 2: Dutch carbon accounts



Output carbon accounts



Most important conclusions

- Carbon emission by biomass in the Netherlands is nearly twice as high as sequestration
- Forests account for 60 percent of the uptake, carbon emissions are almost entirely caused by outgassing of peatlands
- The lowering of the water level for agricultural purposes causes the peatlands to desiccate, thus releasing carbon
- Carbon emissions are dependent of the drainage depth, with the largest numbers in the northern provinces.



Questions?

