

Mapping a sustainable world

Geospatial knowledge platforms: Empowering the SDGs through maps

**Menno-Jan Kraak
Kyoung-Soo Eom
Ayako Kagawa
Yuri Engelhardt**

UNIVERSITY OF TWENTE.



**Geospatial Information Section
UNITED NATIONS**

Mapping a sustainable world

Geospatial knowledge platforms: Empowering the SDGs through maps

Offer guidelines and best practices for mapping the UN SDGs to...

- best support the SDGs through Cartography with help of the cartographic community
- transfer knowledge and expertise via the book *Mapping a sustainable world* and various training related activities



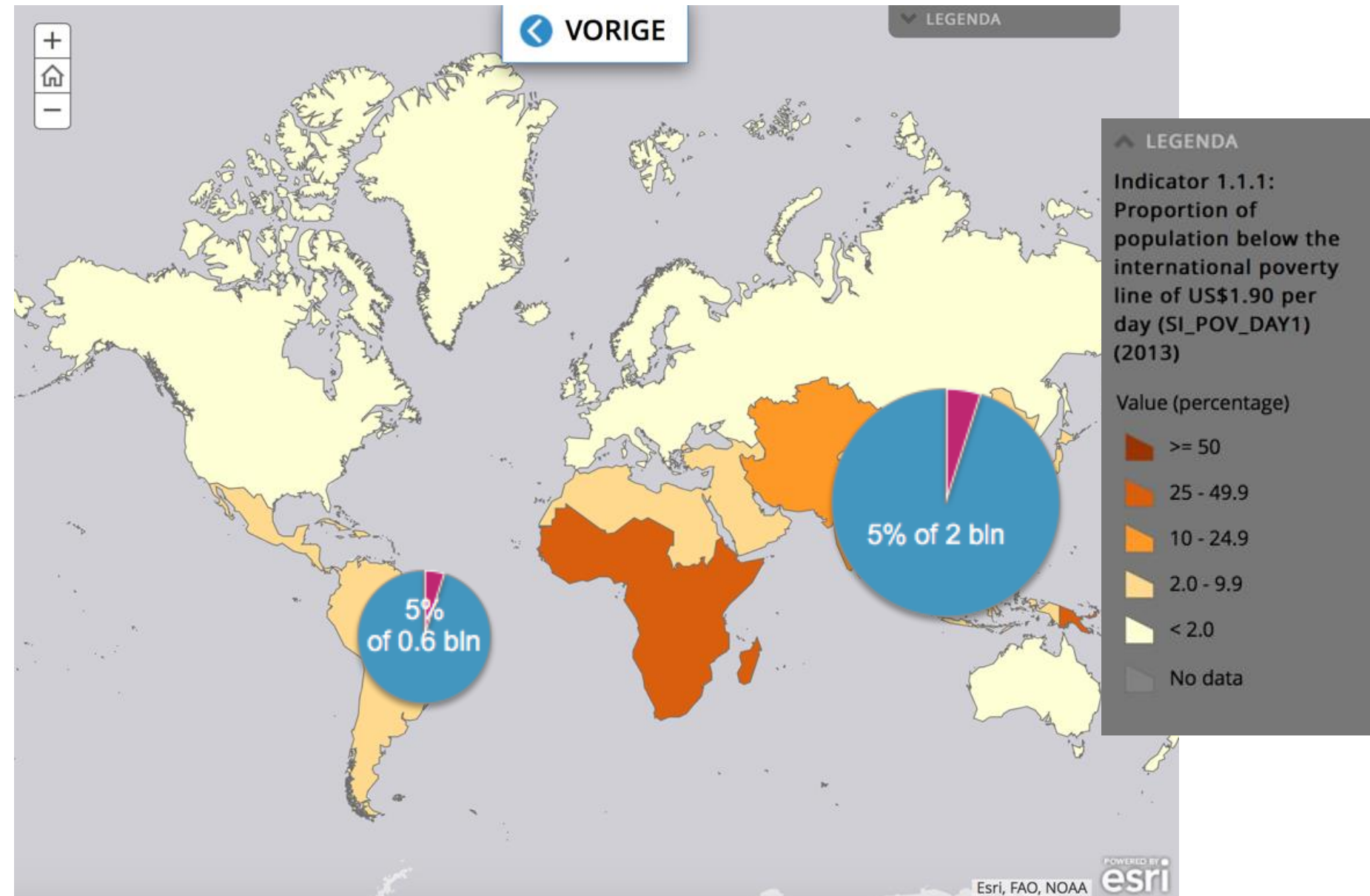
**Tier Classification (<https://unstats.un.org/sdgs/iaeg-sdgs/tier-classification/>),
Metadata Repository (<https://unstats.un.org/sdgs/metadata/>)**

- 113 indicators are **per country** of which
 - 84 indicators are a **proportion (%)**, of which
 - 56 are a proportion (%) of the (a sub)population
 - 8 are a proportion (%) of the GDP or another economic measure
 - 6 are a proportion (%) of the (a sub)surface area
 - 14 are another proportion (%)
 - 10 indicators are an **absolute value**
 - 9 indicators are a **rate involving two different variables**, of which
 - 4 are per capita or per unit of population
 - 3 indicators are a **growth rate** over time
 - 1 indicator is a **parity index**
 - 3 indicators are **another** (calculated) **index**
 - 1 indicator is an **ordinal level**
 - 2 indicators are an **average** or **mean**

What do we see?

<https://unstats.un.org/sdgs/report/2017/storymap/index.html>

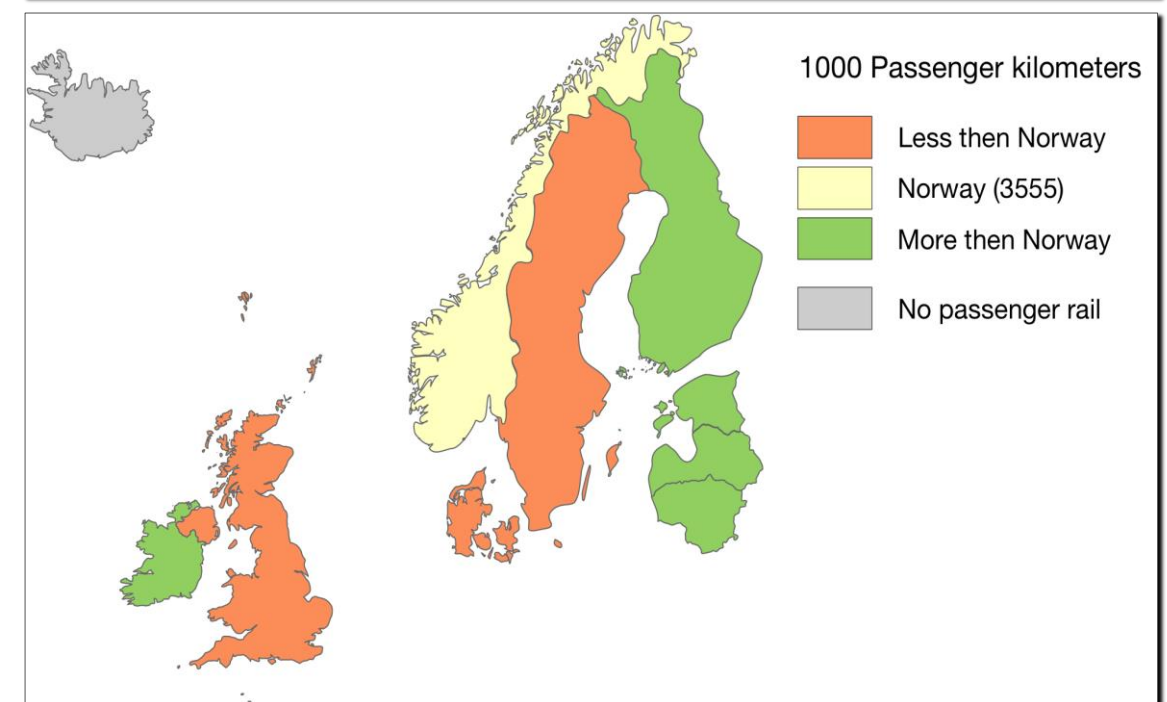
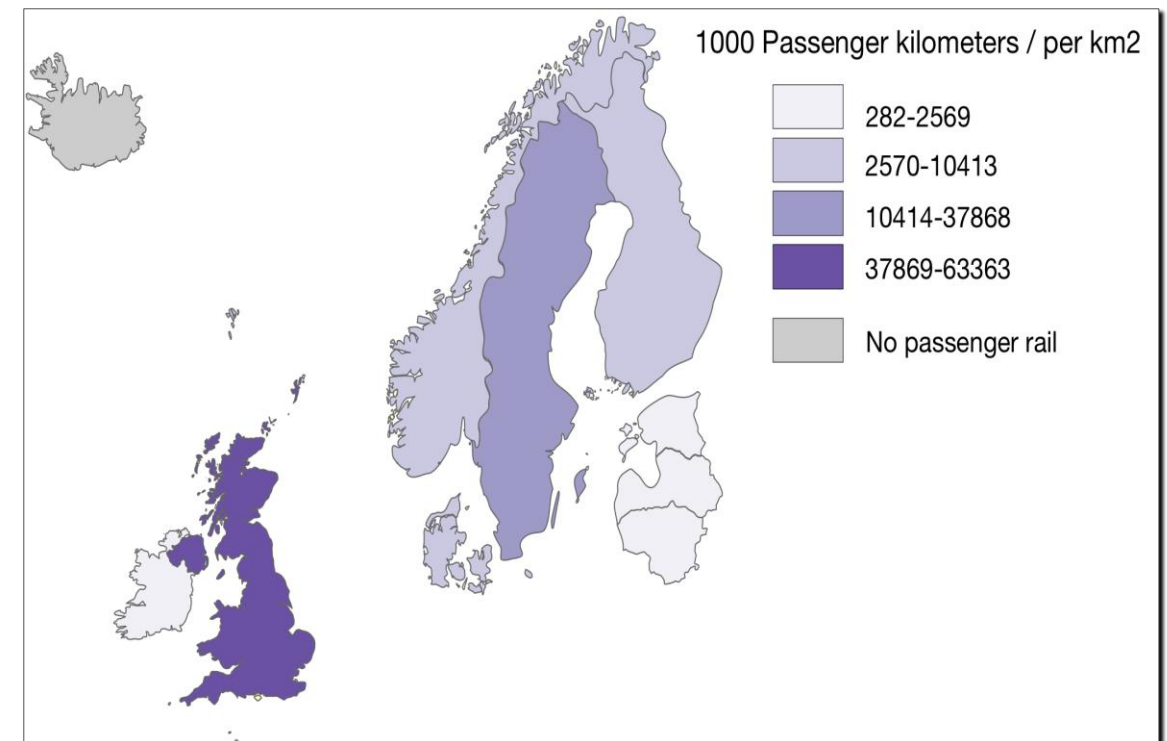
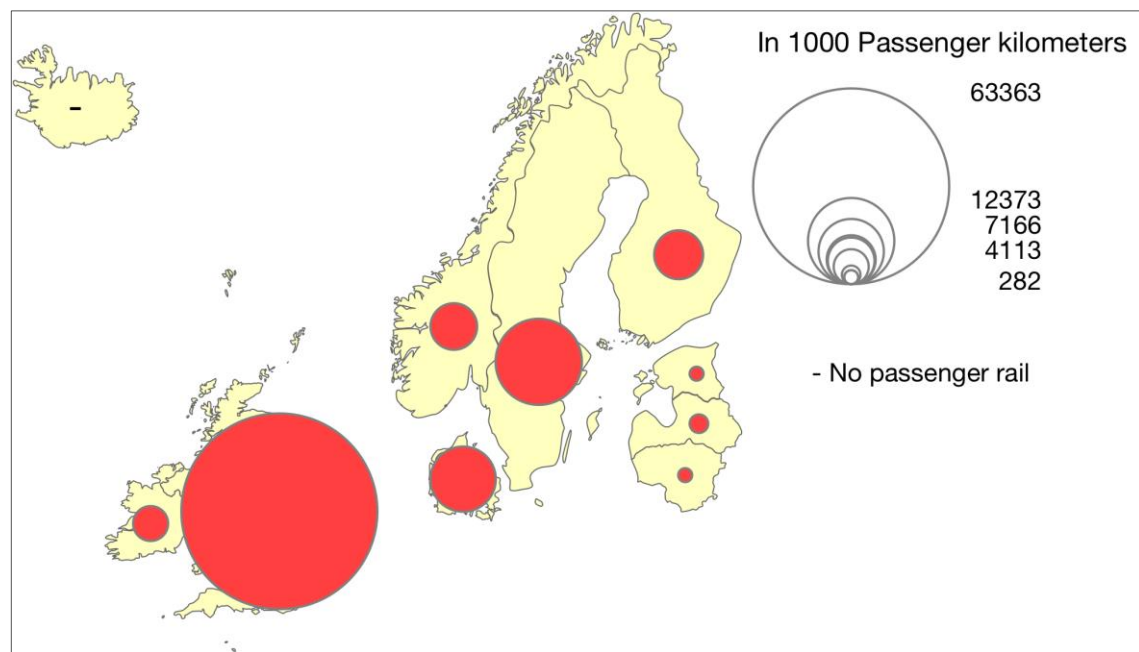
- Map area?
Mercator projection
- Map theme?
Percentage of what?
- Map time?
Trends



What can we do? Data transformations

Indicator 9.1.2: Passenger and freight volumes, by mode of transport

Passenger volume by Rail transport



What did we do before?

<http://icaci.org/maps-and-sustainable-development-goals>



What is next?

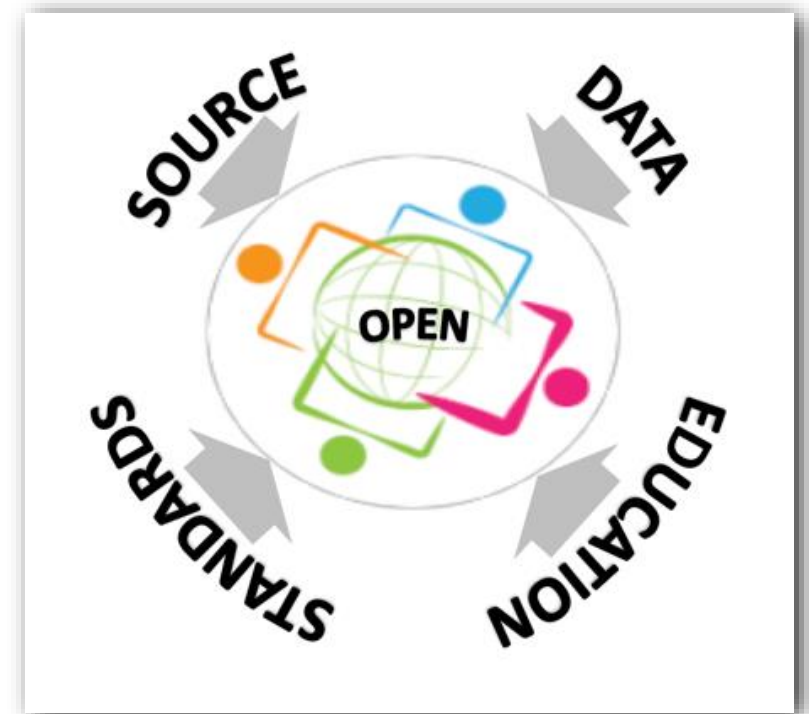
Book: Mapping a sustainable world



What is the content ?

(e-)book and supported by training materials

- Introduction
- SDGs
 - data characteristics
- Cartography
 - design principles
- Maps and Diagrams
 - visual representations
- Environment
 - interaction, web mapping
- Epilogue



► Basics

► Do/nt

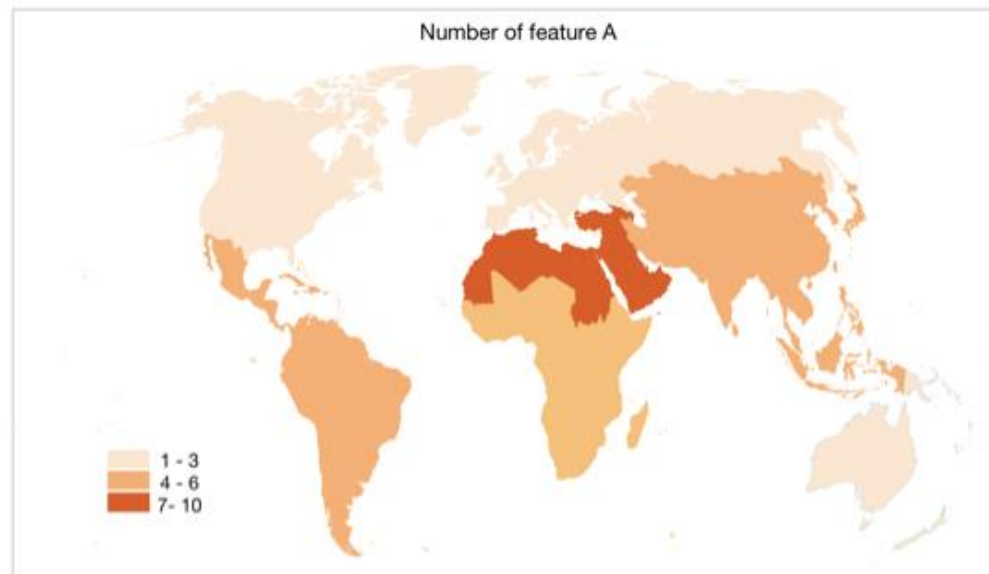
► How

► Role

How will it look like?

▼ Do/nt

Be sure to select an appropriate thematic map type



Choropleth map



Proportional point symbol map



Do not map absolute number in a choropleth map. The different sized administrative units will result in a wrong perceptual image: large unit with equal values as small units will attract more attention. Use a proportional point symbol map instead

Timeline



2019

Maps are analytical tools, and part of knowledge data eco system and support decision-making in governance and operations



Geospatial Information Section
UNITED NATIONS

Let's make the world a better place with maps