

# UN-GGIM & UN SDGs – better integration of geospatial information and statistics to support the UN SDG monitoring

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UN-GGIM  
EUROPE

UNITED NATIONS  
COMMITTEE OF EXPERTS ON  
GLOBAL GEOSPATIAL  
INFORMATION MANAGEMENT



SUSTAINABLE  
DEVELOPMENT

GOALS



# Content

- Connecting geospatial and statistical communities  
– „Building bridges“
- UN Sustainable Development Goals (UN SDGs) – Agenda 2030
- UN-GGIM – What's it all about?
- UN-GGIM: Europe – Just another European body?



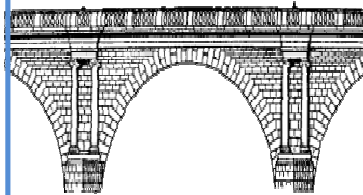
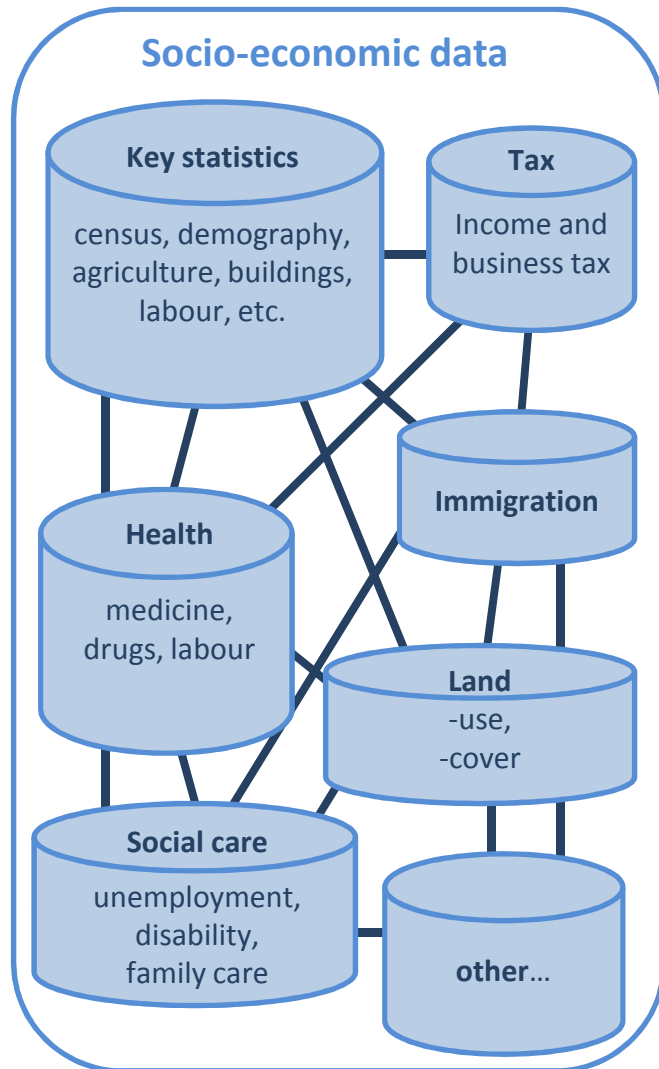
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# Connecting geospatial and statistical communities

## Statistical Community



Bridge  
Between  
Statistics  
and  
Geospatial

Source: Petri,  
Eurostat

## Geo Community

**Spatial Data Infrastructure**  
– Quality, License, time stamps, ...

Administrative Units

Addresses, geogr. Names

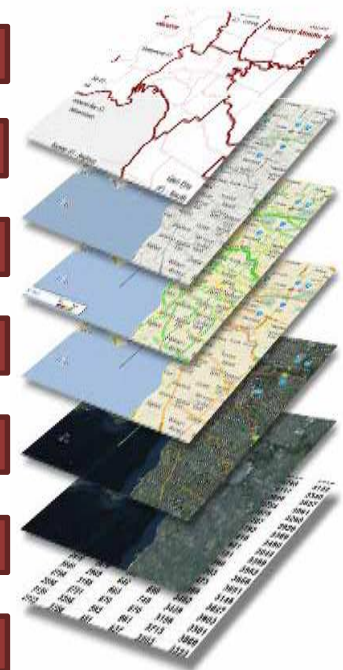
Transport, Hydrography

Land and Properties

Elevation

Orthophoto/Remote Sensing

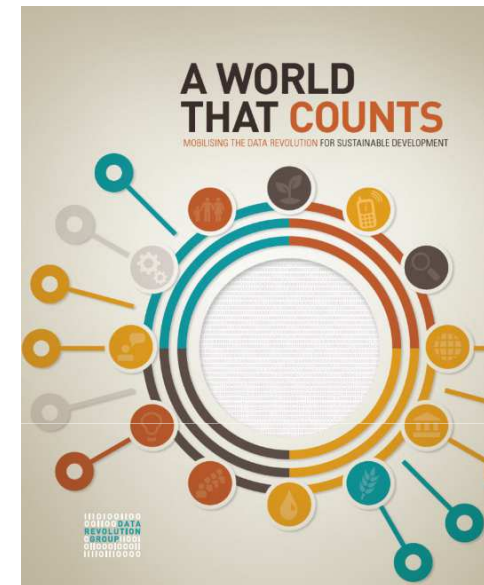
Positioning



# Connecting geospatial and statistical communities --- “A Data Revolution” ---

*“Data are the lifeblood of decision-making and the raw material for accountability. Without high-quality data providing the right information on the right things at the right time; designing, monitoring and evaluating effective policies becomes almost impossible.”*

*A World that Counts*, UN Secretary-General's Independent Expert Advisory Group on a Data Revolution for Sustainable Development



The report highlights two big global challenges for the current state of data:

- The challenge of invisibility
- The challenge of inequality

<http://www.undatarevolution.org/wp-content/uploads/2014/12/A-World-That-Counts2.pdf>



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# Connecting geospatial and statistical communities --- ESS Vision 2020 ---

- “ESS Vision 2020” is a strategic document on the challenges that official statistics is facing in building the future for European statistics.
- Who is the catalyst and driver that can connect the geospatial and statistical communities together at regional and global levels, addressing the “data revolution” challenges?



# Connecting geospatial and statistical communities --- 2021 Round of Censuses ---

- "... undertaking a census can provide a *catalyst for the statistical and mapping agencies* to work together to the benefit of both agencies and the community. Even more importantly and at both the global and regional levels there is a continuing initiative to ensure a *complete integration of statistical and geospatial information* as a critical piece of national systems for providing comprehensive overview of many social, economic and environmental phenomena."

**Principles and Recommendations for Population and Housing  
Censuses: the 2020 Round** Rev 3, March 2015  
Statistical Commission

## **The 2021 round of censuses is an opportunity to address this issue:**

- by collecting statistical and geospatial data at the same time
- collecting and geocoding at detailed capture levels of geography and aggregating to higher levels, geocoding and grid statistics
- global statistical and geospatial framework



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# Connecting geospatial and statistical communities --- Statistical Geospatial Framework (SGF)

UN Expert Group on the integration of statistics and geospatial info. (UN EG-ISGI)

Access to and use of geostatistics

5

Accessible  
& Usable

Interoperable data and  
metadata standards

4

Interoperable  
data & metadata

Common (geographical)  
administrative boundaries for the  
publication of statistics

3

Common geographic boundaries  
for dissemination

Collection of geocoded micro-units  
in a common data management

2

Geocoded unit record data  
in a data management environment

Use of reliable spatial data  
infrastructures and geo-referencing  
geocoding

1

Use of authoritative geospatial infrastructure and geocoding



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# **SUSTAINABLE DEVELOPMENT GOALS**



**1** NO  
POVERTY



**2** ZERO  
HUNGER



**3** GOOD HEALTH  
AND WELL-BEING



**4** QUALITY  
EDUCATION



**5** GENDER  
EQUALITY



**6** CLEAN WATER  
AND SANITATION



**7** AFFORDABLE AND  
CLEAN ENERGY



**8** DECENT WORK AND  
ECONOMIC GROWTH



**9** INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



**10** REDUCED  
INEQUALITIES



**11** SUSTAINABLE CITIES  
AND COMMUNITIES



**12** RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION



**13** CLIMATE  
ACTION



**14** LIFE  
BELOW WATER



**15** LIFE  
ON LAND



**16** PEACE, JUSTICE  
AND STRONG  
INSTITUTIONS



**17** PARTNERSHIPS  
FOR THE GOALS



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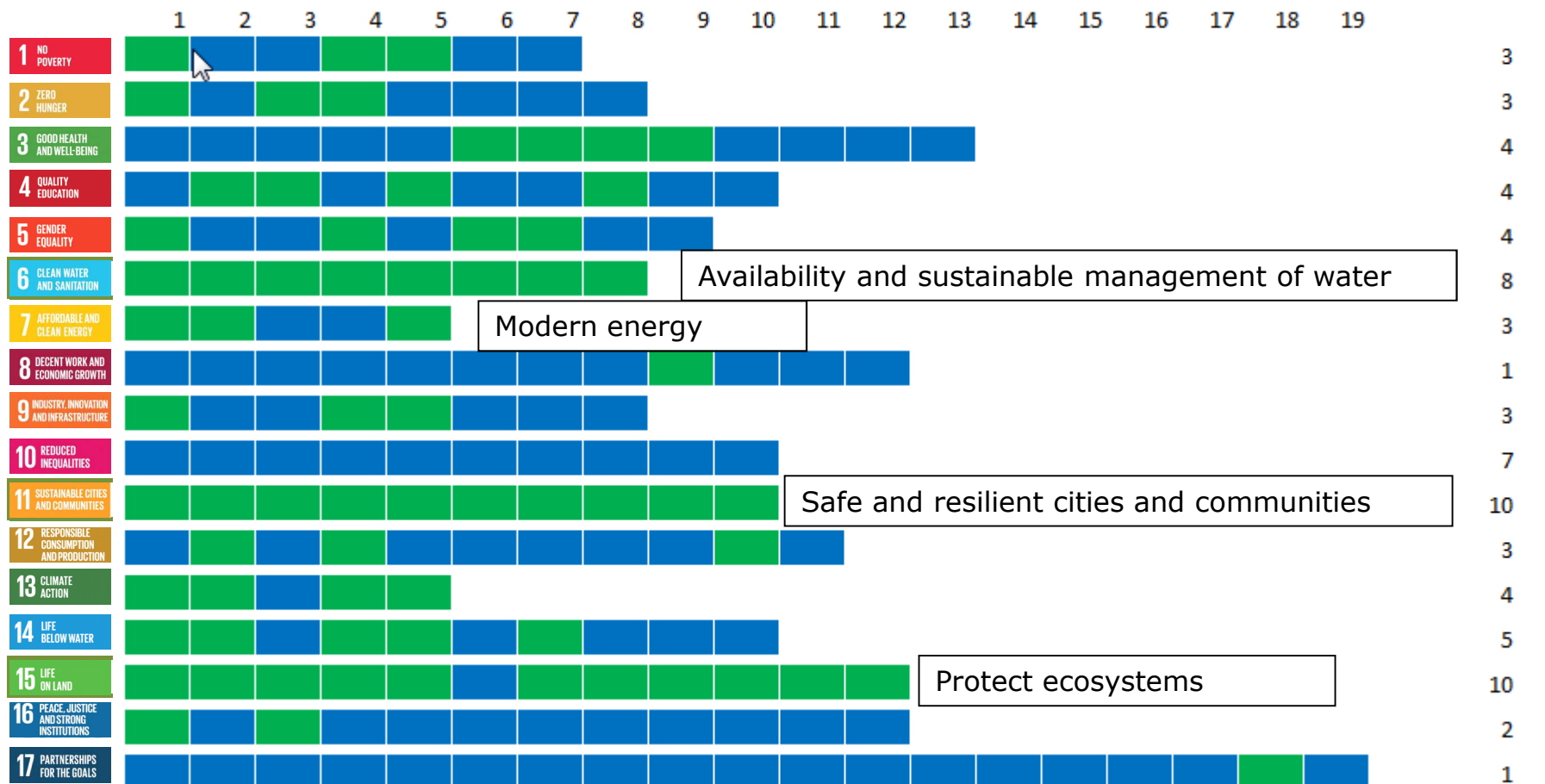




# SUSTAINABLE DEVELOPMENT GOALS

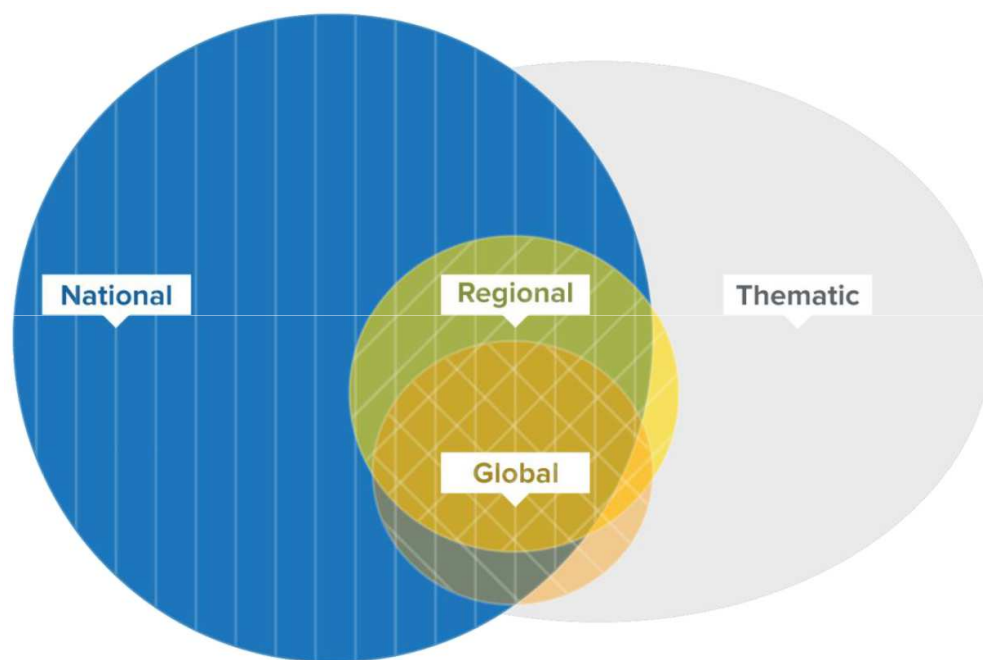
## 17 goals and 169 targets

1/3 geospatial (Eurostat) 2/3 no geospatial relation



Source: Eurostat

# SUSTAINABLE DEVELOPMENT GOALS



## Global monitoring:

- Each target (169) shall be measured → at least 1 indicator/target
- Global indicators to be measured by all Members States
- Additionally regional and national indicators
- Predominantly taken from official data
- Status - # 231 indicators:
  - 40% negotiated (calculation possible)
  - 30% to be adapted
  - 10% calculation not yet possible
  - 20% to be determined





## **Ensure availability and sustainable management of water and sanitation for all**

Water scarcity, poor water quality and inadequate sanitation negatively impact food security, livelihood choices and educational opportunities for poor families across the world. Drought afflicts some of the world's poorest countries, worsening hunger and malnutrition.

By 2050, at least one in four people is likely to live in a country affected by chronic or recurring shortages of fresh water.

Source: UN



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## **Ensure availability and sustainable management of water and sanitation for all**

- 6.1: By 2030, achieve universal and equitable access to safe and affordable drinking water for all
- [...]
- 6.5: By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate
- 6.6: By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes
- [...]

Source: UN



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## Ensure availability and sustainable management of water and sanitation for all

- 6.6: By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes

*Proposal indicator 6.6.1:*

- „Percentage of change in the extent of water-related ecosystems over time“
- *indicator needs geospatial data for measurement*

*How can geospatial data support the analysis for the measurement?*

- *Identify catchment areas, lakes, rivers, basins, and water bodies*
- *Identify transboundary water resources*
- *Identify proximity to urban settlements*
- *Monitor the changes in the regions*



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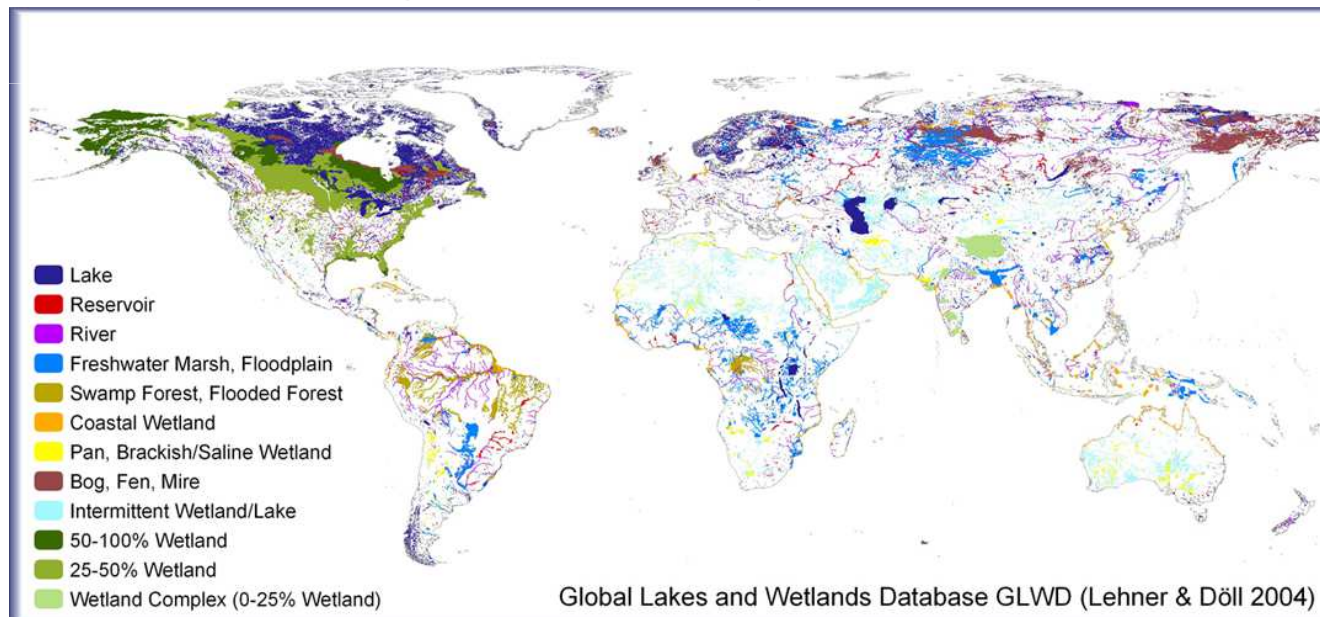






## Ensure availability and sustainable management of water and sanitation for all

- 6.6: By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes
- more than 20 global and regional data sets exist already...



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Examples: geospatial data can support the indicator measurement



Indicator 2.4.1:

Percentage of agricultural area under sustainable agricultural practices

**Denominator:** Agricultural Area = sum of arable land + permanent crops + permanent meadows and pastures (FAOSTAT)

**Numerator:** Land areas under productive and sustainable agricultural practices are those where indicators selected across the environmental, economic and social dimensions reach certain predefined values



Indicator 6.5.2:

Proportion of transboundary basin area with an operational arrangement for water cooperation

Indicator 6.6.1:

Change in the extent of water-related ecosystems over time



Indicator 15.1.1:

Forest area as a proportion of total land area

Indicator 15.3.1:

Proportion of land that is degraded over total land area

Indicator 15.4.2:

Mountain Green Cover Index



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<http://spaceflightnow.com/soyuz/vs07/images/>  
<http://www.d-copernicus.de/>



## Possible conflicts of interest for the monitoring and reporting...



### **Competition of different actors**

concerning the definition of methods, coordination



### **Competition of different analysis levels**

global vs. national vs. regional



### **Competition of available geospatial data**

remote sensing data vs. In-situ (geospatial reference vs. thematic)



### **Competition of different analysis methods**

for different resolution levels / scales



### **Information exchange and coordination needed**

between organisations, working groups (national, European)








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There are still some questions to be answered...

-  **At which time the indicators are consolidated and approved?**
-  **Who is in charge nationally to consolidate the information for the Members States?**
-  **Which national ministry will be in charge for the coordination?**
-  **Which national organization collects and submits the reports to the UN?**
-  **Which organisation validates the information compiled for the UN?**



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# UN geospatial activities



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United Nations Statistics Division

Home | Databases | Publications | Methods & Classifications | Meetings & Events | Newsletters | [Site search] | Go

**PROGRAMME OF WORK**

- | Economic Statistics
- | Demographic & Social Statistics
- | Environment & Energy Statistics
- | Gender Statistics
- | Big Data for Official Statistics
- | Quality Assurance Framework
- | Millennium Development Goals
- | **Geospatial Information**
- | Statistical Capacity Building

**COMMITMENTS**

- | Principles Governing International Statistical Activities
- | Fundamental Principles of Official Statistics

**UNSD PARTNERS**

- | Committee for the Coordination of Statistical Activities (CCSA)
- | UN System Meeting
- | International Agencies

**Chair of the Statistical Commission addresses the Commission on Population and Development**

**New York, 12 April 2016** - The chair of the Statistical Commission, Ms. Wasmalia Bivar of Brazil, addressed the Commission on Population and Development (CPD) on 12 April during its 49th session. Ms. Bivar provided her briefing by videolink. Ms. Bivar informed CPD that the Statistical Commission at its last session in March had agreed "as a practical starting point" on a global indicator framework, which had been developed by the Inter-agency and Expert Group on Sustainable Development Goal Indicators (IAEG-SDGs). She also assured CPD delegates of the Statistical Commission's intention to use all its capacity to ensure full implementation of the 2020 World Population and Housing Census Programme. Ms. Bivar called upon CPD to continue the close cooperation of the two sister Commissions to support of the of the implementation the 2030 Agenda. The presentation ([English](#), [Spanish](#)) was followed by a short Q&A session.

**Last missing piece completes architecture of the 2030 Agenda for Sustainable Development**

On Friday, 11 March 2016, the [United Nations Statistical Commission](#) agreed on a global indicator framework for monitoring progress towards achieving Sustainable Development Goals, which includes 230 global indicators proposed by the Inter-Agency and Expert Group on SDG indicators (IAEG-SDGs) (see [press release](#)). It is a robust framework intended for follow-up and review of progress at the global level towards achieving the 17 SDGs. The IAEG-SDGs will continue its technical work to review and refine the indicators as needed, and to further develop the necessary methodologies. [Read more...](#)

**Upcoming Events**

**28 - 30 June 2016 - New York**  
Expert Group Meeting on the Revision of ICATUS

**SDG Indicators Website**

**Sustainable Development Goals**

**Featured Databases**

**UNdata**  
A world of information

**UN comtrade**

**Geospatial Information** is associated to the „Statistics Division“ (UNSD) of the UN

- which is part of the „Department of Economic and Social Affairs“ (DESA)
- reporting to the „Economic and Social Council“ (ECOSOC) of the UN



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**United Nations Programs on Global Geospatial Information Management**


**UN-GGIM** | United Nations Committee of Experts on Global Geospatial Information Management

There is general agreement of an urgent need for an inter-government consultative mechanism that can play a leadership role in setting the agenda for the development of global geospatial information and to promote its use to address key global challenges; to liaise and coordinate among Member States, and between Member States and international organizations.



**UNGEGN** | United Nations Group of Experts on Geographical Names


In 1959, the Economic and Social Council (ECOSOC) paved the way for a small group of experts to meet and provide technical recommendations on standardizing geographical names at the national and international levels. This meeting gave rise to the United Nations Conferences on the Standardization of Geographical Names (UNCSGN) and to the United Nations Group of Experts on Geographical Names (UNGEGN).




**UNRCC** | United Nations Regional Cartographic Conferences

The Statistics Division organizes and services the following cartographic conferences: the United Nations Regional Cartographic Conference for Asia and the Pacific, convened every three years, and the United Nations Regional Cartographic Conference for the Americas, convened every four years, in collaboration with the Permanent Committees on Spatial Data Infrastructure for the Americas (PC-IDEA) and GIS Infrastructure for Asia and the Pacific (PGIAP).



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# UN-GGIM: roles and tasks



UN-GGIM | United Nations Initiative on  
Global Geospatial Information Management

*“To make accurate, reliable and authoritative geospatial information readily available to support national, regional and global development”*



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# Formal inter-governmental UN Committee of Experts

- **Discuss, enhance and coordinate activities** by involving Member States at the highest level.
- Make **joint decisions** and set directions on the use of geospatial information within policy frameworks.
- Address **global issues** and contribute collective knowledge as a community with shared interests and concerns.
  - E.g. “Reference Group” for the geospatial dimension in the UN SDGs
- Develop effective **strategies** to build geospatial capacity in developing countries.



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# UN-GGIM: Expert and Working Groups



UN-GGIM | United Nations Committee of Experts on  
Global Geospatial Information Management

## UN-GGIM EXPERT AND WORKING GROUPS

In pursuance of the objectives of setting the agenda for the management of global geospatial information to address key global challenges and providing a platform for the development of effective strategies on how to build and strengthen national capacity on geospatial information, the Committee of Experts has created several working groups and an Expert Group. These groups focus on progressing the work items and following up on decisions adopted at the annual session.

### Expert Group

1. United Nations Expert Group on the Integration of Statistical and Geospatial Information
2. The United Nations Expert Group on Land Administration and Management (UN-EG-LAM)

### Working Groups

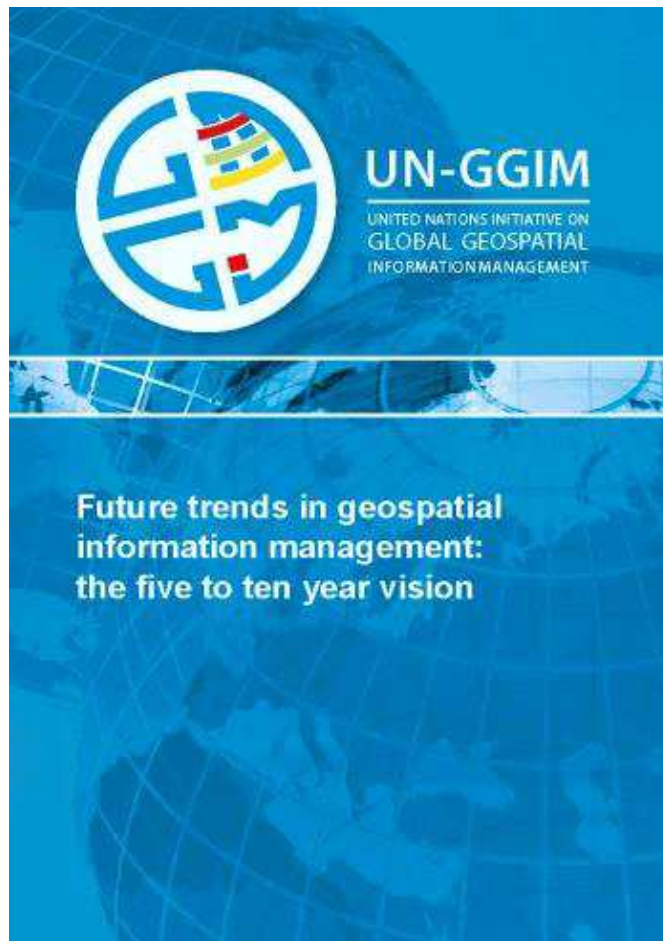
1. Working Group on Global Geodetic Reference Frame
2. Working Group on Development of a Statement of Shared Principles for the Management of Geospatial Information
3. Working Group on Global Map for Sustainable Development (GM4SD)
4. Working Group on Trends in National Institutional Arrangements in Geospatial Information Management
5. Working Group on Geospatial Information and Services for Disasters (WG-Disasters)



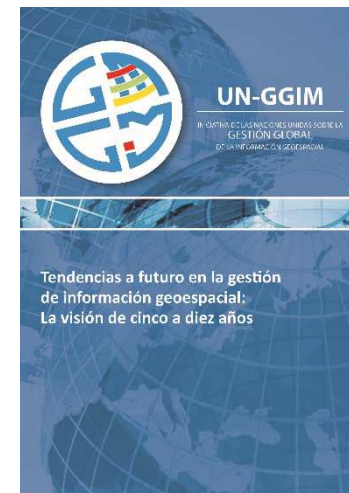
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# UN-GGIM: Report – “*Future trends in geospatial information management: the 5-10 year vision*”



Available in 6 official UN languages:  
English | Chinese | French | Russian |  
Spanish | Arabic

[illegible]

# UN-GGIM: Committee of Experts – Regional Committees

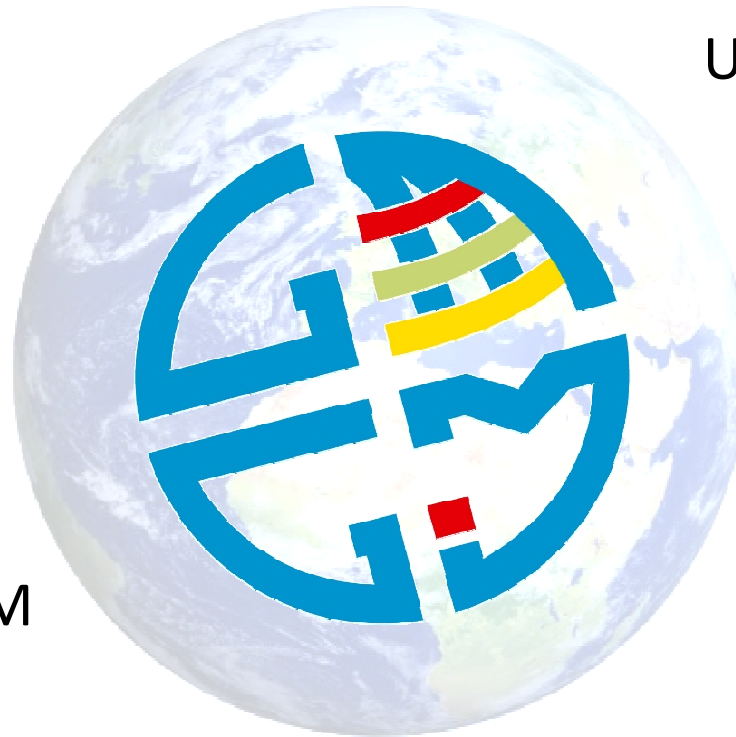
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Americas

UN-GGIM  
Europe

UN-GGIM  
Arab States

UN-GGIM  
Africa

UN-GGIM Asia-  
Pacific



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# UN-GGIM: Europe – Work Plan 2015-2018

The substantial part of the proposed Work Plan for 2015 – 2018 is the continuation of the Plan adopted in 2014:

## Work Group A: Core Data

1. Specifications of core data (*End 2017*)
2. Economic model for production & distribution of core data (*End 2018*)
3. Existing political & financial frameworks supporting core data availability (*End 2018*)

## Work Group B: Data Integration

1. Definition of the priority user needs for data combinations (*accomplished*)
2. Recommendation for implementing prioritized combinations of data (*Mid-2016*)
3. Recommendation how to manage side-effects induced by data combinations (*Mid-2016*)

Plus additional focus on new work areas: *topics and agenda items emerging from GGIM 5*



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# UN-GGIM-5 (2015): new work items for UN-GGIM: Europe

## Global Geodetic Reference Frame (GGRF)

- *"develop and communicate regional **best practice** and initiatives and work with the global working Group on GGRF to delivering a **road map** and leveraging the importance of geodetic data at the European Level"*
- Develop roadmap and establish a Working Group GGRF: Europe



## Sustainable Development Goals (UN SDGs)

- *"focus on the how geospatial data can enhance sustainable development and the 2030 Agenda in Europe"*
- European support SDGs



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# UN-GGIM-5 (2015): new work items for UN-GGIM: Europe

## Land Administration and Management

- *"contribute at the global level by sharing practical regional examples of land administration good practice"*
- European support of land management



## Global Fundamental Geospatial Data Themes

- *"UN-GGIM: Europe given a mandate by the Committee of Experts to lead a global work in collaboration with other Regional Committees, Member States and observers to develop an agreed minimum set of global fundamental geospatial data themes"*
- Europe coordinates this activity



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# Further information about UN-GGIM: Europe WG A „Core Data” – Website



UN-GGIM: EUROPE | United Nations Initiative on  
Global Geospatial Information Management

ABOUT UN-GGIM: EUROPE

ARTICLES AND RULES

EXECUTIVE COMMITTEE

EUROPEAN UN MEMBER STATES

NMCAs AND NSIs IN EUROPEAN UN  
MEMBER STATES

OBSERVER ORGANISATIONS

WG A Core Data

WG B Data Integration

WG A Core Data

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Point of Contact: Francois Chirie – Francois.Chirie (at) ign.fr

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Working Group 1 Report

LATEST NEWS:

Members from UN-GGIM: Europe  
participate in 3rd Regional Meeting  
of UN-GGIM: Arab States


Executive Committee of UN-GGIM:  
Europe holds first meeting of 2016

**UN-GGIM: Europe Working Group A  
select core data themes for Europe**


Widening the engagement with the  
geospatial community in Europe

UN-GGIM: Europe is one year old

<http://un-ggim-europe.org/content/wg-a-core-data>



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## Report B1: “priority user needs ” accomplished mid-2015



- Definition of the priority user needs for combinations of data (Mid-2015).

*Title: "Definition of priority user needs for combinations of data"*

- Collect policy relevant use cases, focus on evidence based decision making
- Elaborate use cases → derive user needs → recommendations
- 40+ Use cases were collected
- 5 Recommendations
- Report uploaded on the UN-GGIM: Europe website

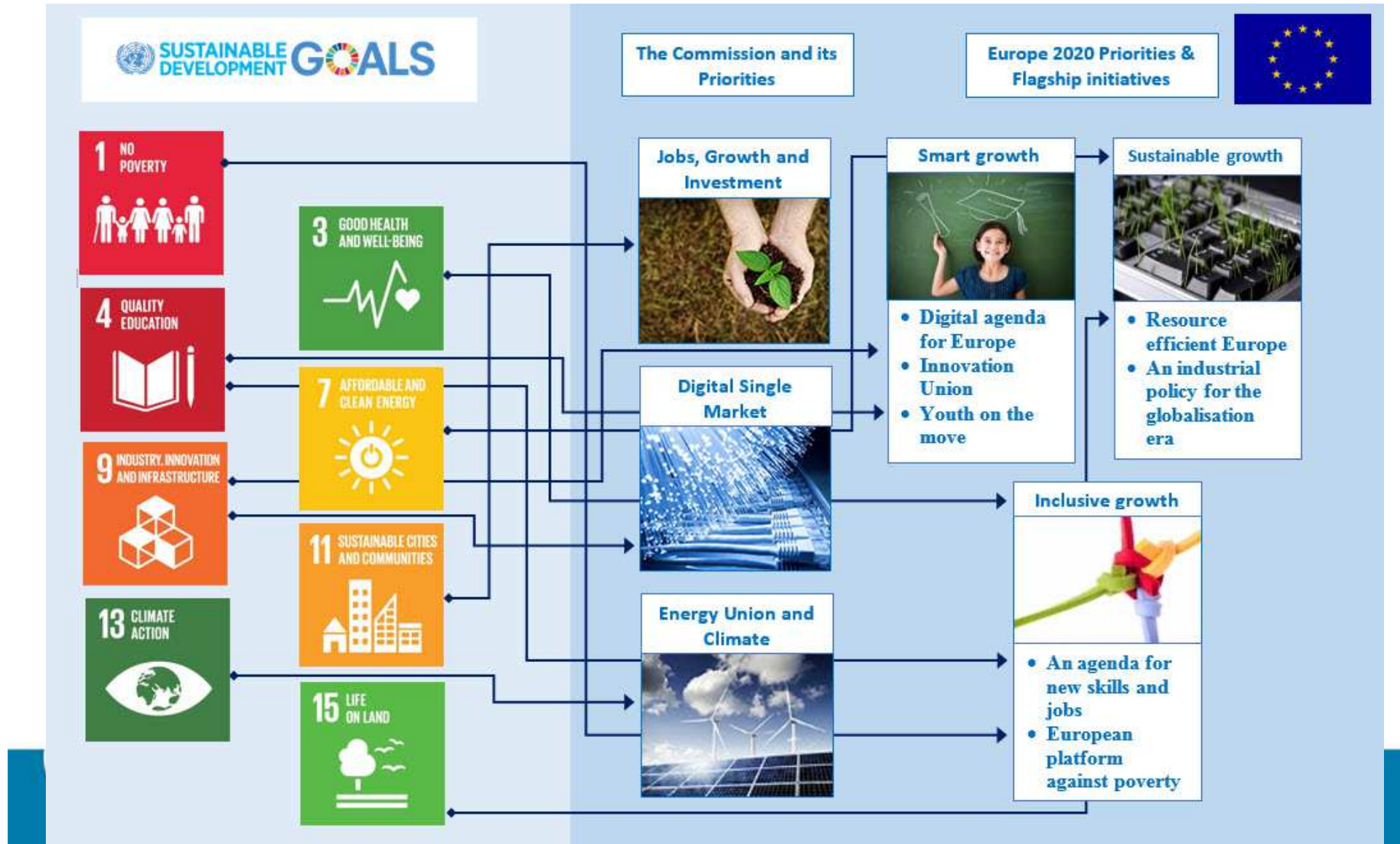


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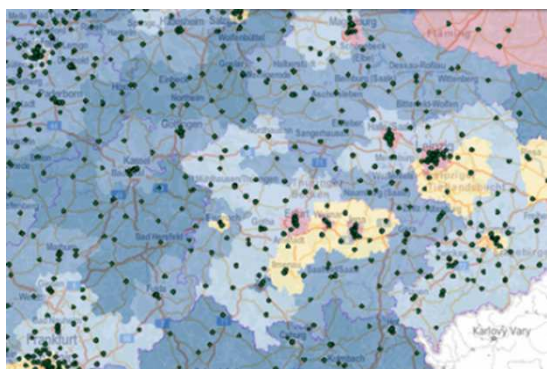
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# Report B1: “priority user needs” ...there are a lot of policies in Europe...



# Report B1: “priority user needs” – National use cases



DE-examples from the geoportal  
[www.geoportal.de](http://www.geoportal.de):

1. Wind Power
2. Flood protection
3. Future development of the school population
4. Accessibility of Central Locations

Albania

Germany

Denmark

Spain

Italy

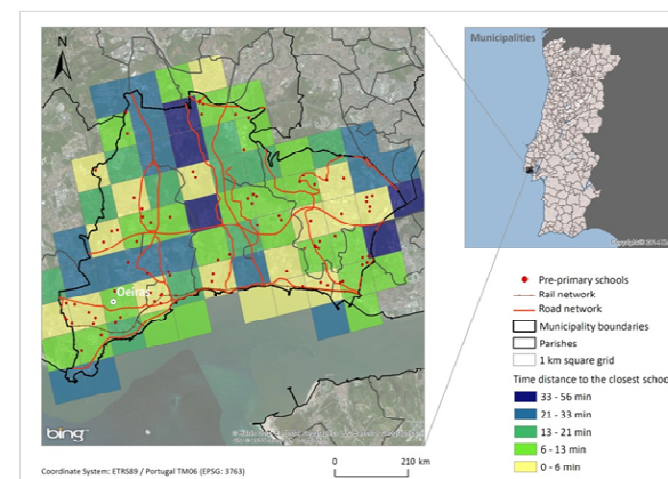
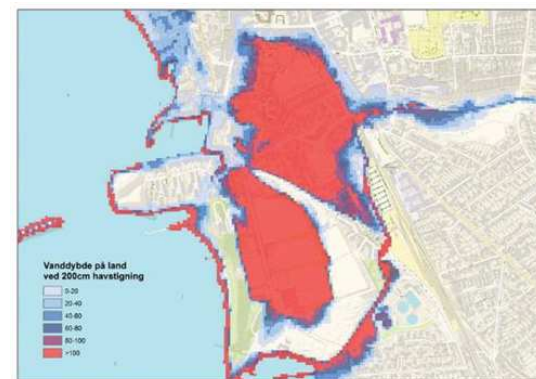
Poland

Portugal

Sweden

Turkey

United Kingdom



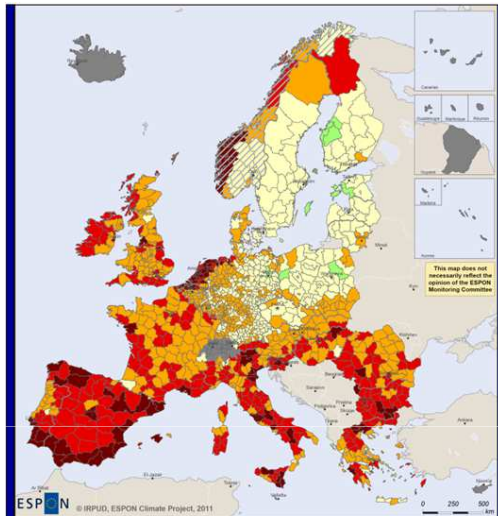
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# Report B1: “priority user needs” – Cross-border use cases

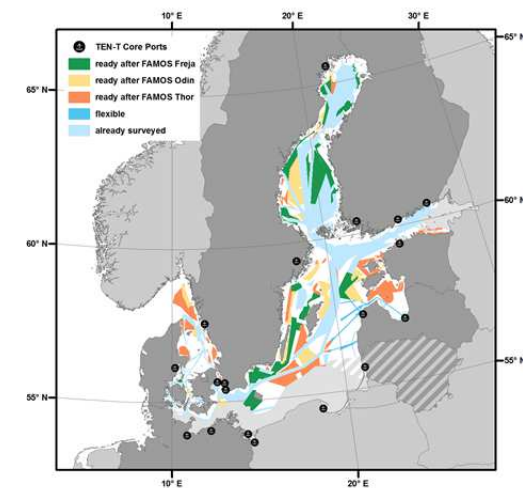


Examples:

1. NL – Fighting international organised crime
2. ESPON – Availability of secondary schools
3. [...]

DG REGIO  
(EU-COM)  
Netherlands  
Sweden  
ESPON  
GEOSTAT 1B  
(Eurostat)

European Court of  
Auditors and  
European Commission




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# Further information about UN-GGIM: Europe WG „Data Integration“ – Website



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- EUROPEAN UN MEMBER STATES
- NMCAs AND NSIs IN EUROPEAN UN MEMBER STATES
- OBSERVER ORGANISATIONS
- WG A Core Data
- WG B Data Integration

**WG B Data Integration**

Chair: Hansjörg Kutterer, Germany

Point of Contact: Pier-Giorgio Zaccheddu – Pier-Giorgio.Zaccheddu (at) bkg.bund.de

UN-GGIM-Europe Report from SWG B1 on Priority User Needs ver 1.1

UN-GGIM-Europe Annex II\_Report from SWG B1 on Priority User Needs ver 1.1

<http://un-ggim-europe.org/content/wg-b-data-integration>



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# UN-GGIM: Europe – Work Plan 2015-2018

The substantial part of the proposed Work Plan for 2015 – 2018 is the continuation of the Plan adopted in 2014:

## Work Group A: Core Data

1. Specifications of core data (*End of 2016*)
2. Economic model for production & distribution of core data (*End 2017*)
3. Existing political & financial frameworks supporting core data availability (*Mid-2018*)

## Work Group B: Data Integration

1. Definition of the priority user needs for data combinations (*accomplished*)
2. **Recommendation for implementing prioritized combinations of data (*Mid-2016*)**
3. Recommendation how to manage side-effects induced by data combinations (*Mid-2016*)

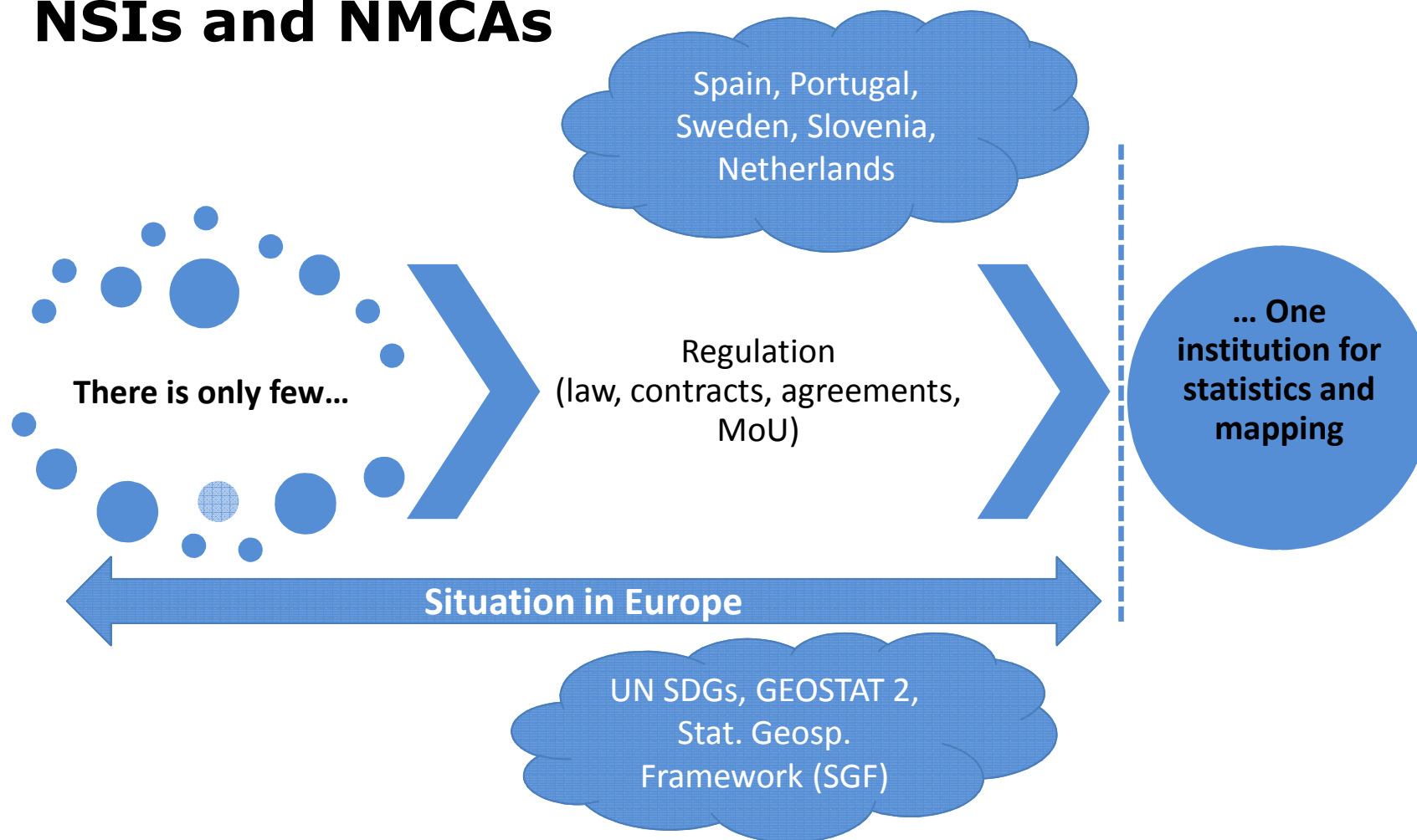


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# Report B2: “methods” – Interaction between NSIs and NMCAAs



→ Recommendations for improving the interaction



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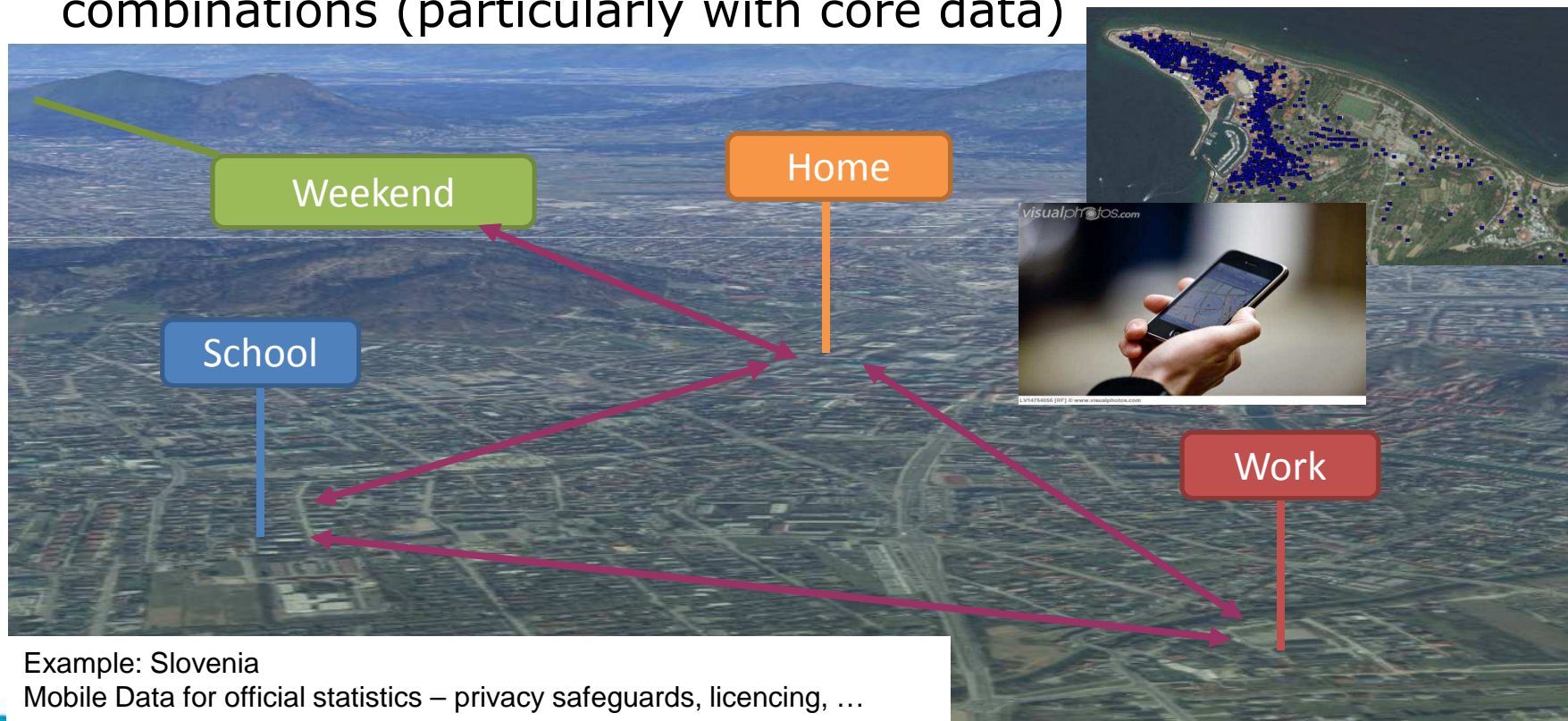
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# Report B2: “methods” – Multiple sources

Review of the current use of data from multiple sources

- identify case studies and best practices relevant for data combinations (particularly with core data)



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## Report B3: “side-effects” – mainly obstacles

- What is a “side effect”?
  - “[...] is something that occurs unintendedly after the data combination and needs further effort to be removed, exploited or steered... maximize the positive effects and minimize the negative [...]”
- Side effect classification
  - using the aspects of (interoperability) frameworks
- Collection of side effect examples (description)
  - side effects in existing B1 examples and other Member States examples
- How do side effects influence interoperability and usability?

→ We received contributions from SE, DE, FI, PL, RS, ES



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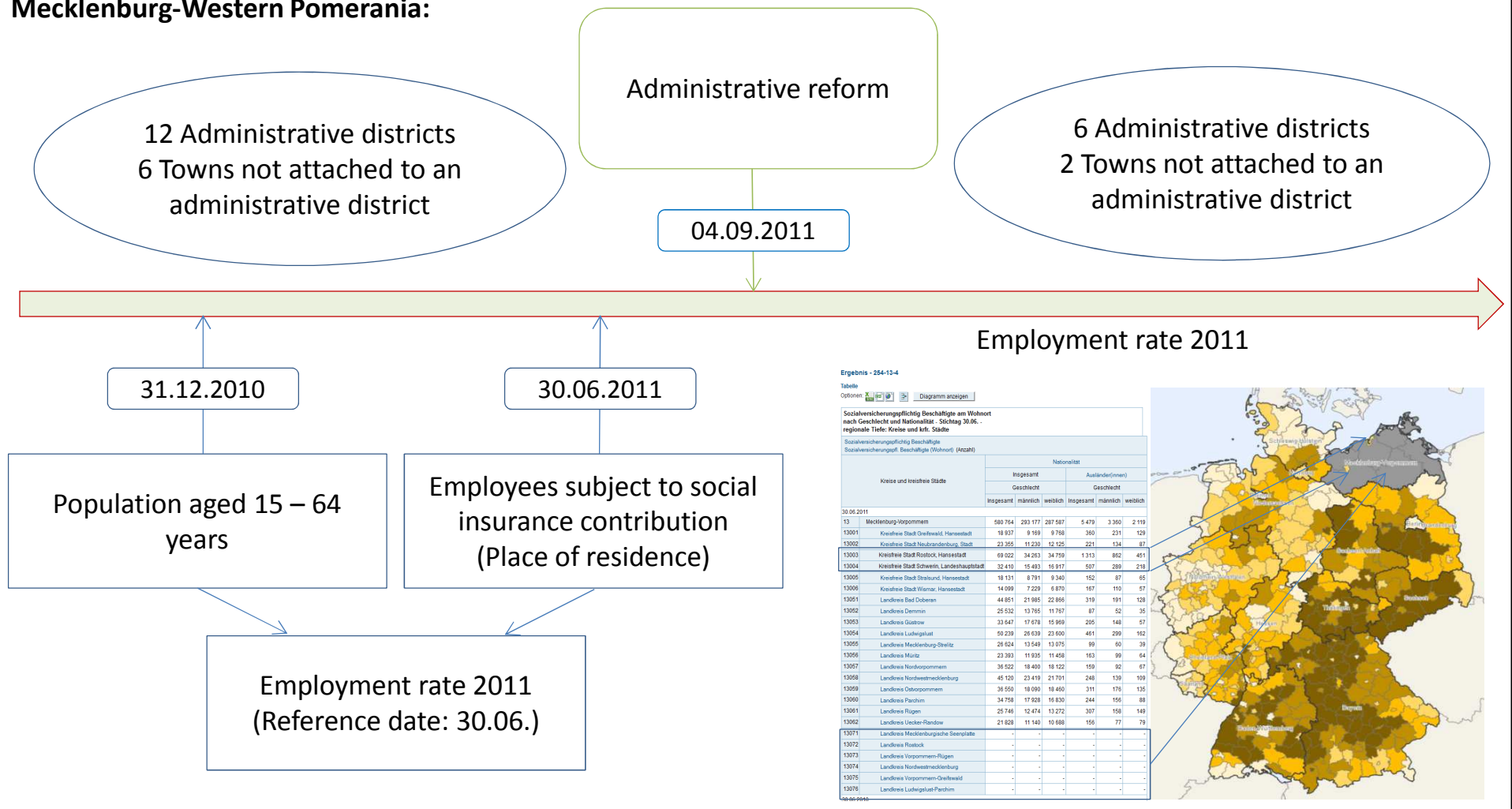
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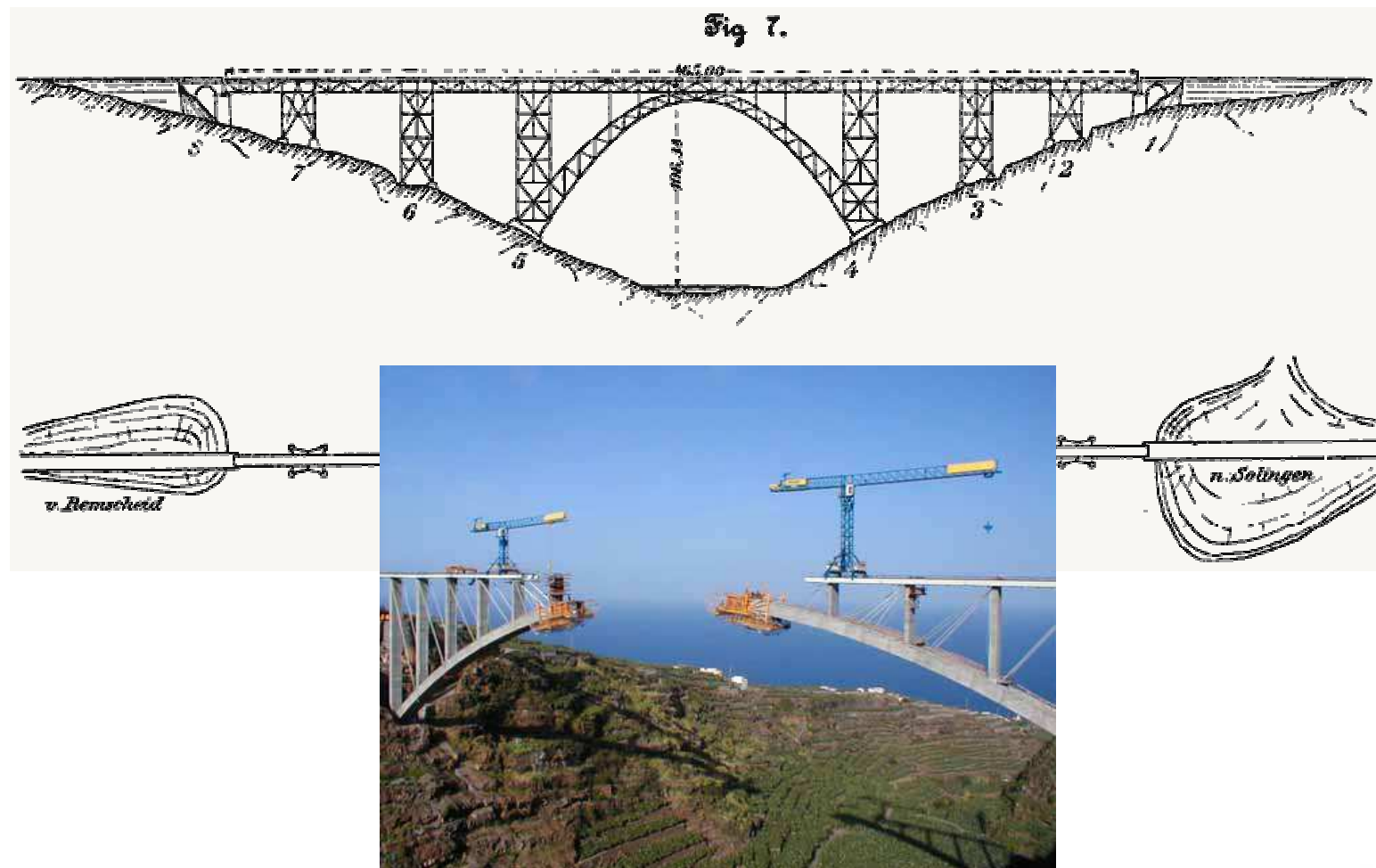
# Report B3: "side-effects" – examples

## a) Matching statistics with administrative boundaries

### Mecklenburg-Western Pomerania:



# UN-GGIM / UN-GGIM:Europe -> UN SDGs „Building bridges“



Source: Petri,  
Eurostat



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# Thank you for your kind attention!



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