

Sustainable Development Goals, geospatial information and a Global Framework



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UN-GGIM: Europe Work Plan 2015-2017

- **Work Group A, Core Data:** deal with core data specifications and quality, production issues, funding and data availability
- **Work Group B, Data Integration:** deal with the integration of geospatial data (including cadastral parcels) with other information
- **Secretariat:** Supporting, facilitating and executing the actions of the Executive Committee



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Tasks for Work Group B: Data Integration

Supply three deliverables:

1. Definition of the priority user needs for combinations of data (Mid-2015).
 2. Recommendation for methods implementing the prioritised combinations of data (Mid-2016)
 3. Recommendation about how to manage side-effects induced by data combinations (Mid-2016)
- Showcase the usefulness of data integration



Tasks B1 – “priority user needs”– accomplished

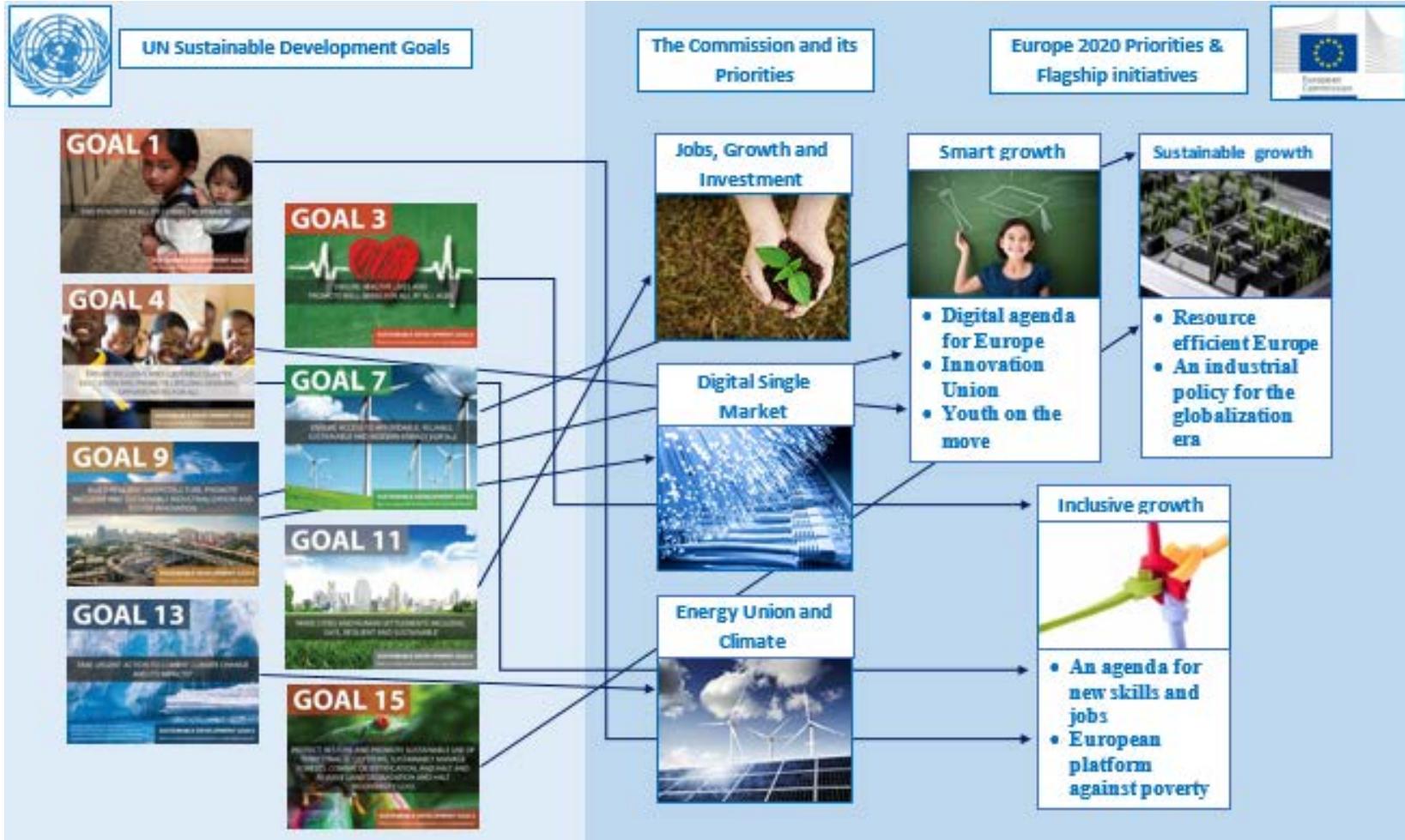
1. Definition of the priority user needs for combinations of data (Mid-2015).

Title: “Definition of priority user needs for combinations of data”

- Subgroup B1 leader: Sweden (SE)
- 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 adapted to UN SDGs publication in October 2015
- [Report](#) uploaded on the UN-GGIM: Europe website



There are a lot of policies in Europe..



SDG's that benefit from a SGF

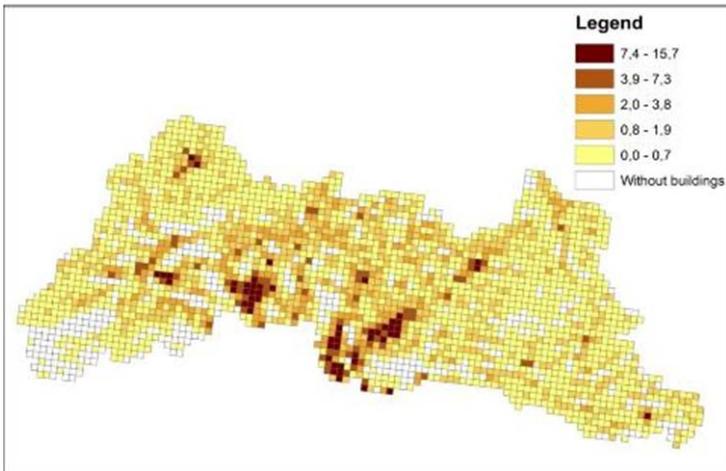
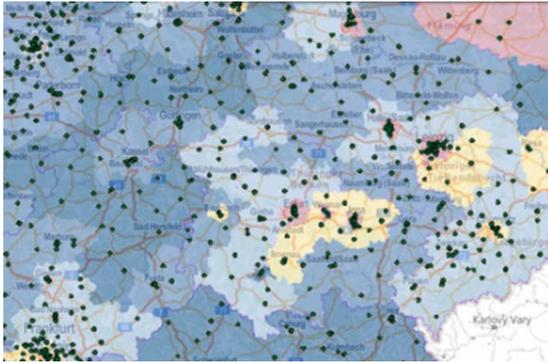


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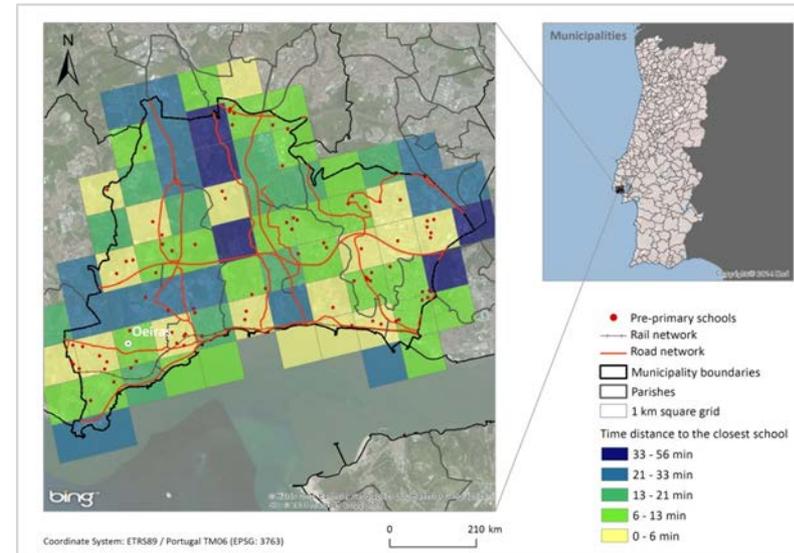
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National Use Cases

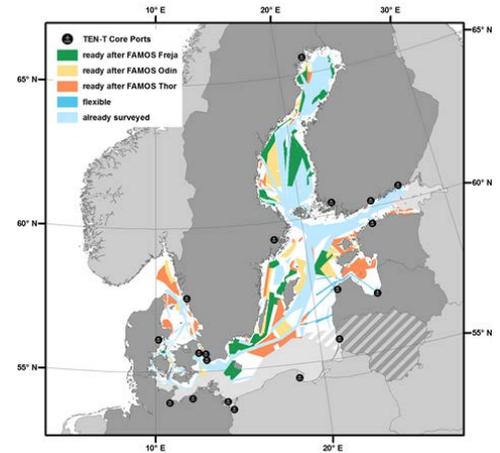
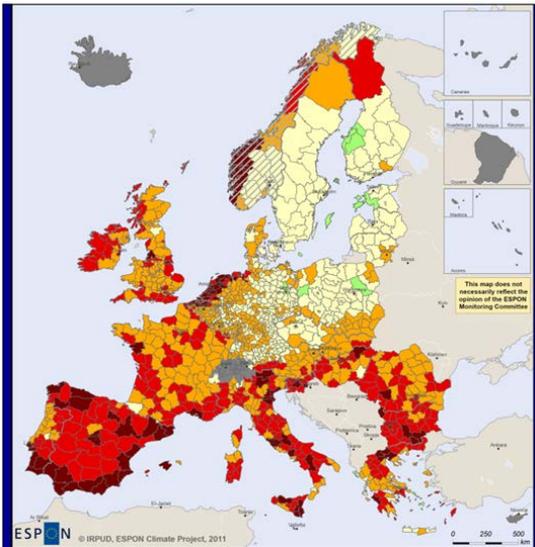
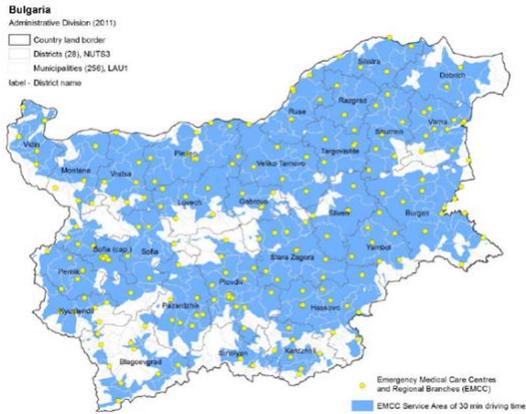


Albania
 Germany
 Denmark
 Spain
 Italy
 Poland
 Portugal
 Sweden
 Turkey
 UK



Cross-Border Use Cases

DG REGIO
 The Netherlands
 Sweden
 ESPON
 GEOSTAT 1B
 European Court
 of Auditors



Priority User Needs

People

- **Solid facts to take action against inequality on a local and national level in Poland**
- **Why the urban and rural dimension is of great importance in Turkey**
- **Accessibility to Schools in Portugal**
- **Ensure access to Emergency Hospitals in Europe**



Priority User Needs

Prosperity

- **Where establishing new Wind Power could still be worthwhile in Germany**
- **Catchment areas of European airports to ensure proper return on investment**
- **Potential territorial coverage of broadband internet access at regional level in Portugal**
- **Accessibility to Central Places in Germany**



Priority User Needs

Prosperity continued

- The state of spatial management in Poland
- Access to green infrastructure in Sweden
- Access to public transport in urban areas in Europe



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Priority User Needs

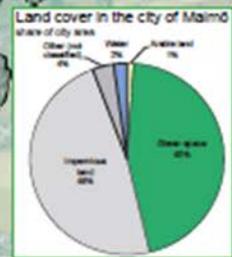
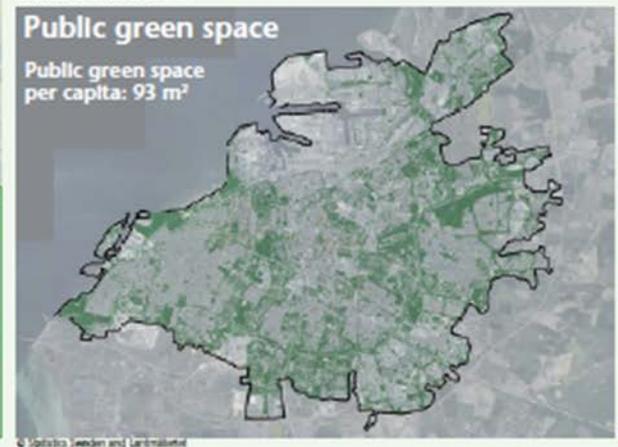
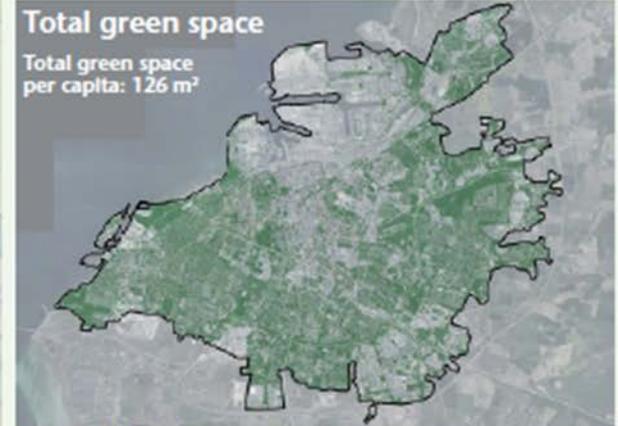
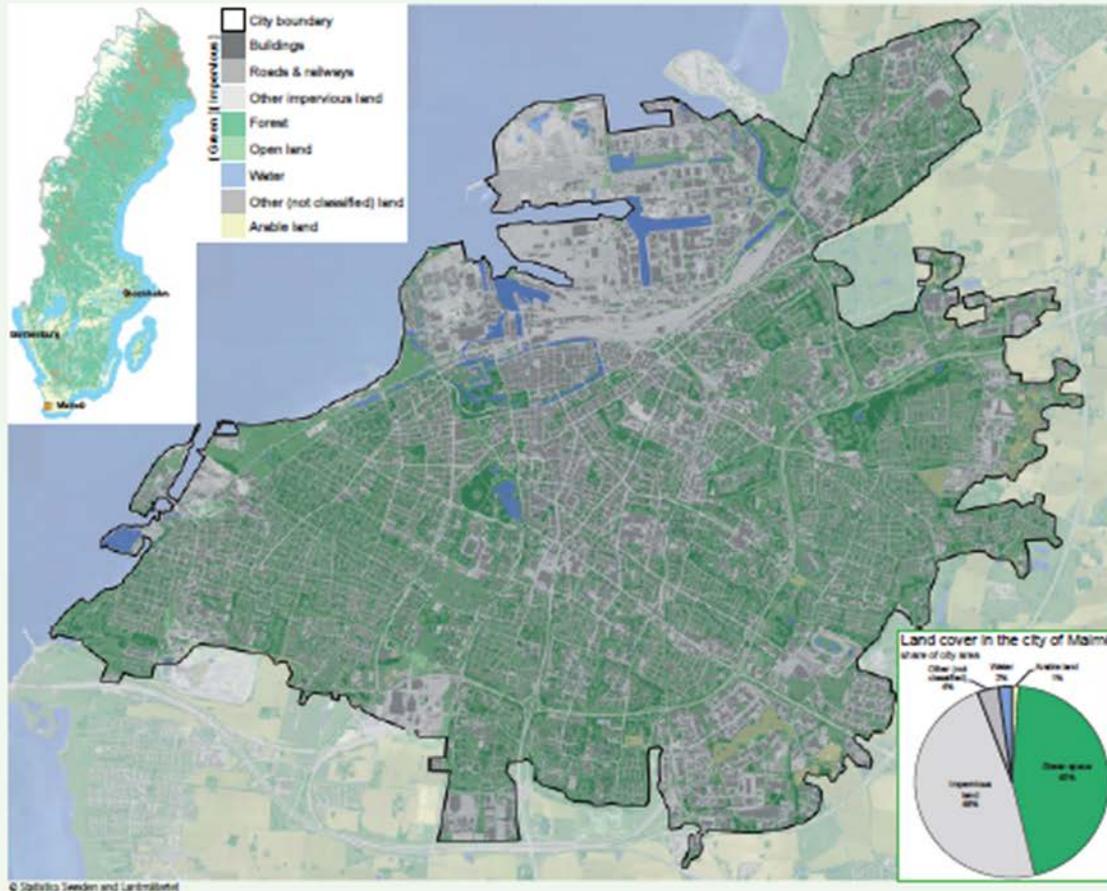
Planet

- Preventive measures in a crisis situation caused by the climate in Denmark
- Adaptation to climate change in Europe
- Land accounts for Biodiversity in Sweden
- Sensitivity to desertification in Andalusia 1956-2100



Swedish Use cases

City of Malmö



Based on the use cases: linking policy to action and outcome



Tasks B1 – “priority user needs”– accomplished

How to better meet user needs in Europe?

In a nutshell WG B identified the need for

- ★ A European Spatial Data Strategy building on National Spatial Data Strategies
- ★ Priority data (incl. core data) for a Statistical Geospatial Framework (SGF)
- ★ Improved workflows with geospatial technology

Recommendations & actions:

- ★ What? → Proposed „List of actions“ (incl. objectives)
- ★ Who? → WG B (NSIs and NMCA), ExCom, Secretariat, Private sector
- ★ When? → 2016 - 2019



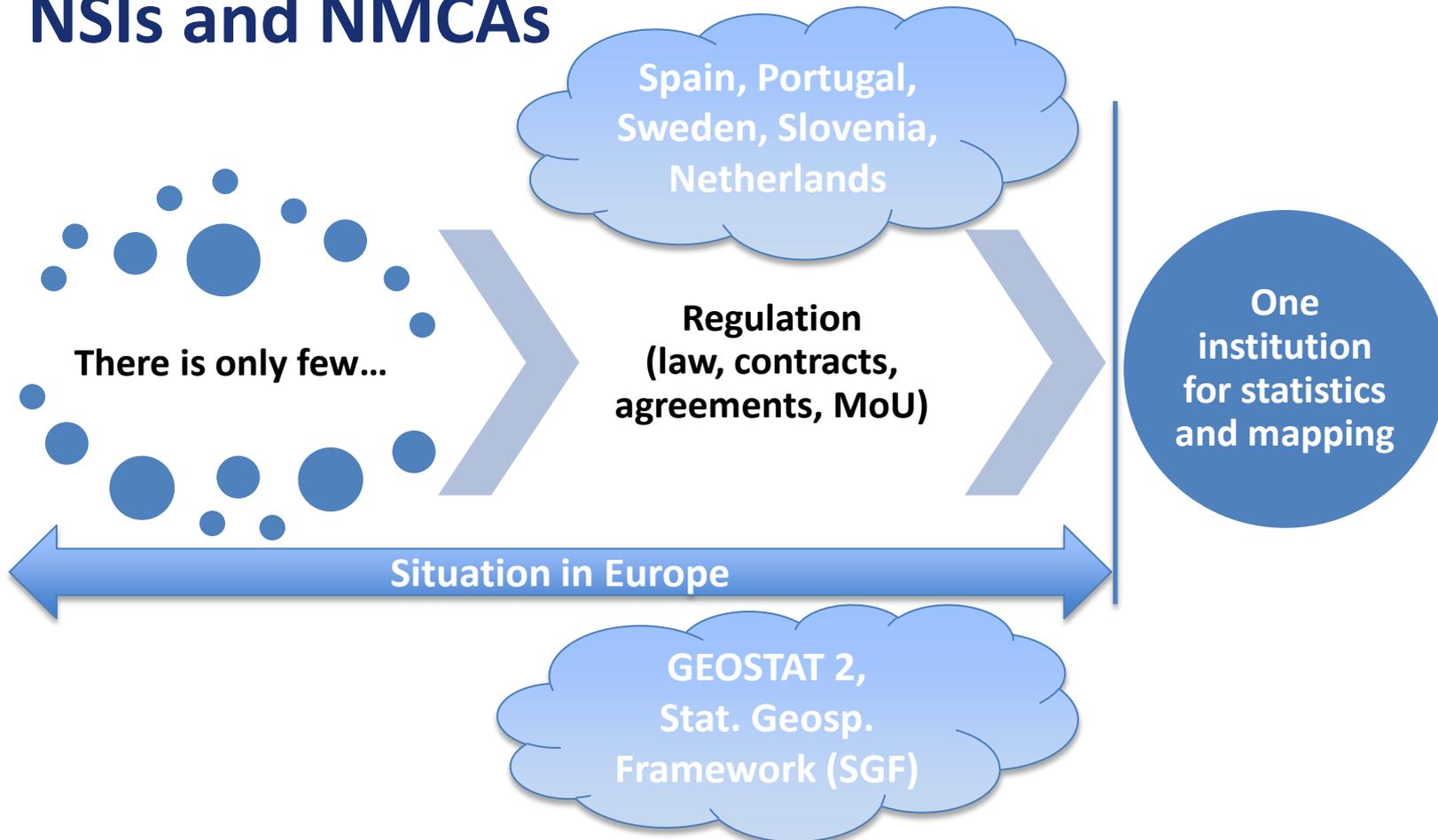
Tasks B2: “methods”

2. Recommendation for methods implementing the prioritised combinations of data (Mid-2016)

- **review** current European interoperability **frameworks** and geospatial, statistical and other thematic data integration **projects** regarding methods for combinations of data;
 - **provide best practise guidance for the interaction** between NMCA, NSIs, environment agencies and other relevant organisations;
 - **review current use of data from multiple sources** (crowd sourcing, community sourcing and regulatory geospatial representations) to identify case studies and best practices relevant for combinations with core data;
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- **Subgroup B2 leader: United Kingdom (UK)**
 - **activities started in June 2015**



Tasks B2: “methods” – Interaction between NSIs and NMCCAs



→ „Master Vision“ (recommendation) for organisations to follow



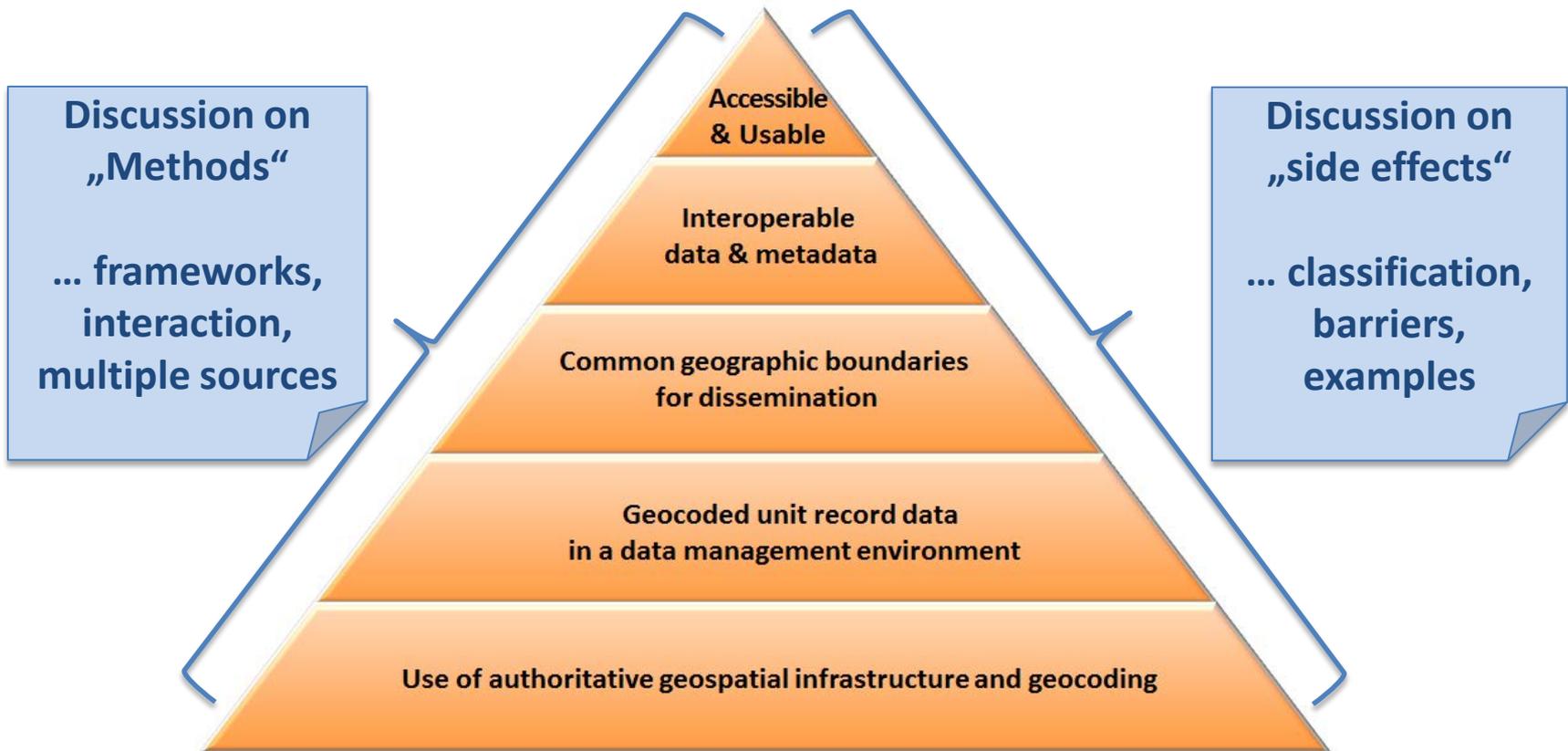
Task B3: “side-effects”

3. Recommendation about how to manage side-effects induced by data combinations (Mid-2016)

- recommend effective methods of governance, quality management, data interoperability, access control and privacy safeguards **for the integration of data from multiple sources with core data**;
 - identify legal and other barriers for the integration of data from relevant sources.
-
- Subgroup B3 leader: Austria (AT)
 - activities started in September 2015



5 principles of the Statistical Geospatial Framework (SGF)

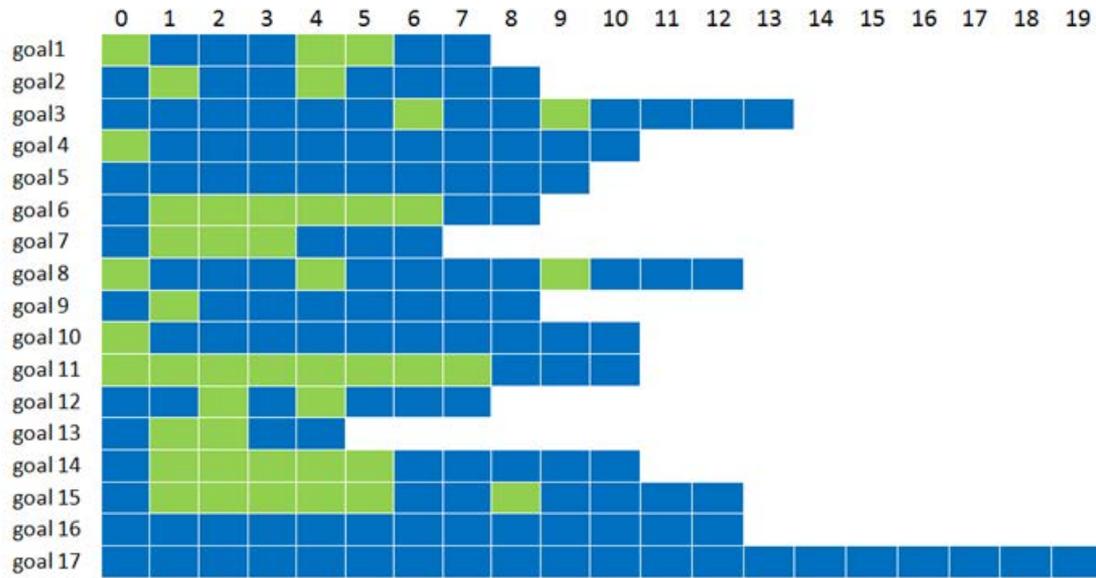


→ will be considered by WG B “Data Integration”



WG A: Classifying SDG targets consuming GI

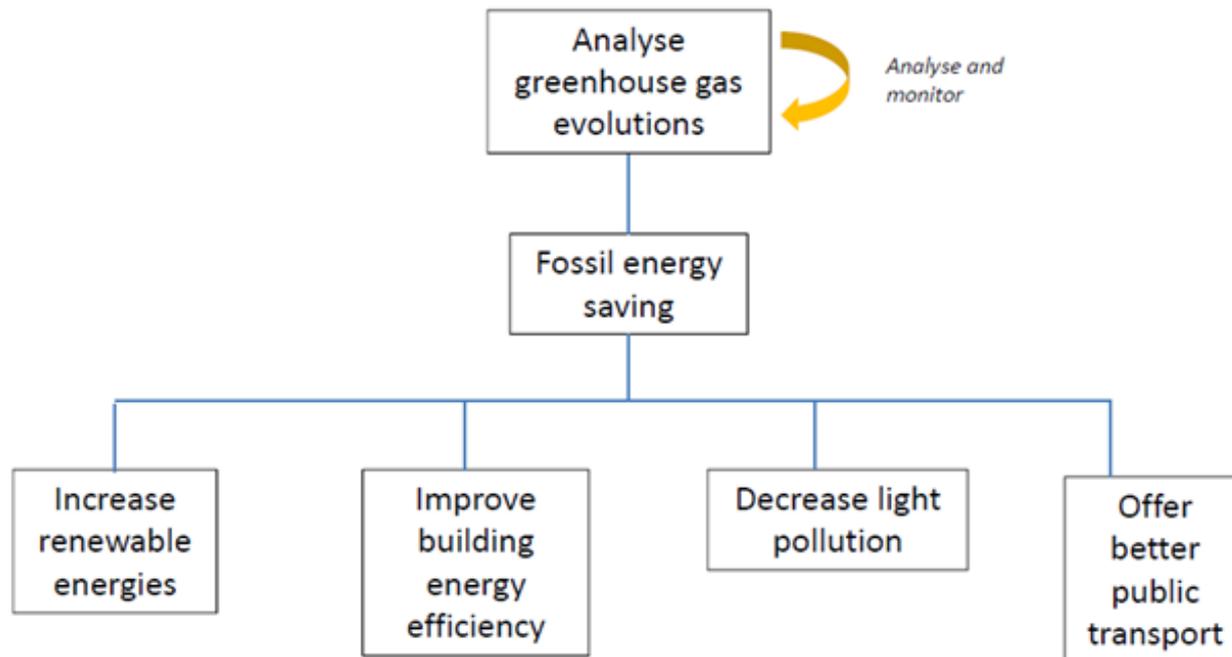
- Risk, pollution, climate
- Natural resources (water, ocean, ecosystems)
- Economy (agriculture, energy, settlements, poverty, education ...).

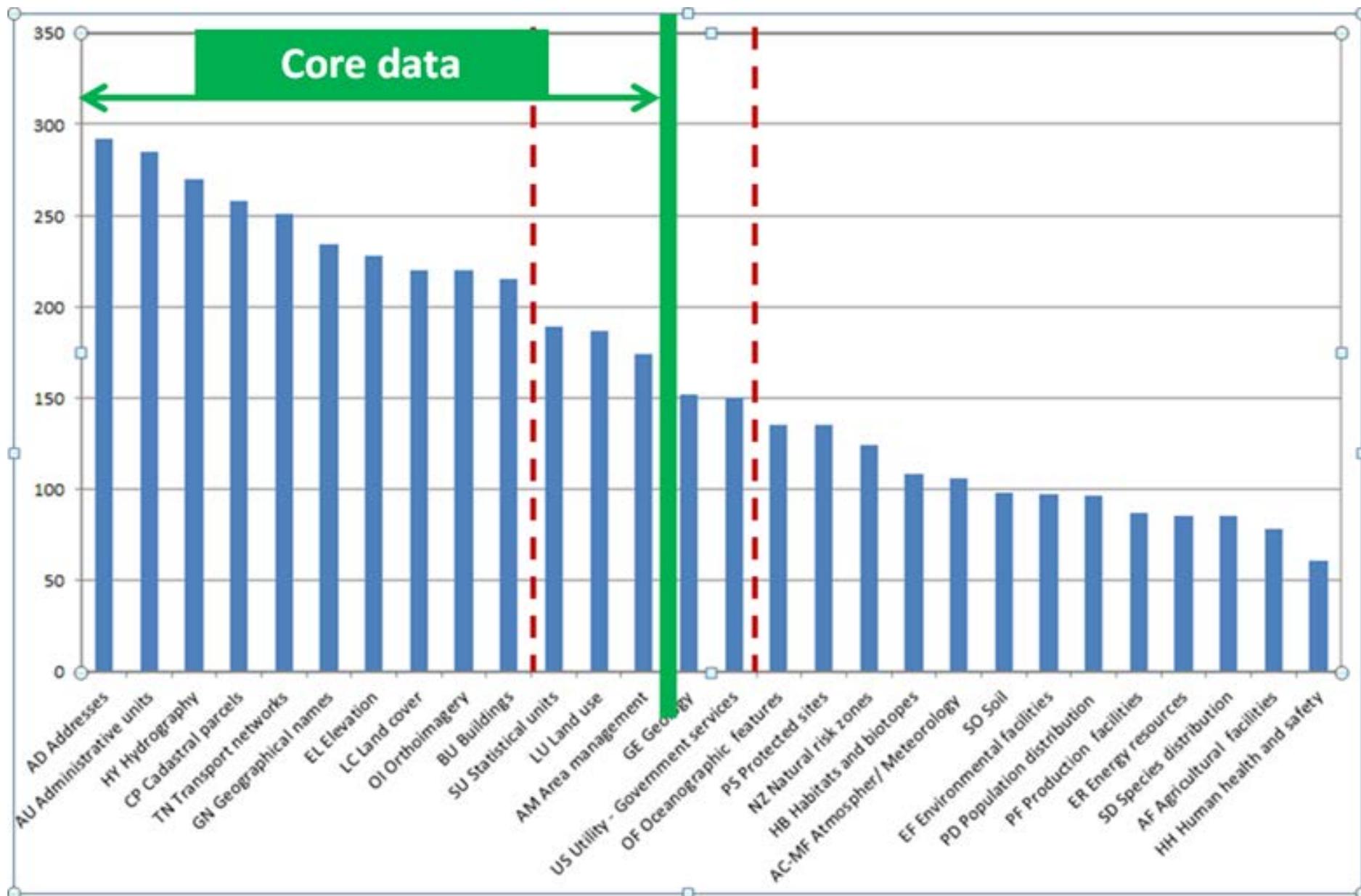


WG A – Defining core data: Use case example for climate change SDG



- 13.1 strengthen resilience and adaptive capacity to climate related hazards and natural disasters in all countries
- 13.2 integrate climate change measures into national policies, strategies, and planning





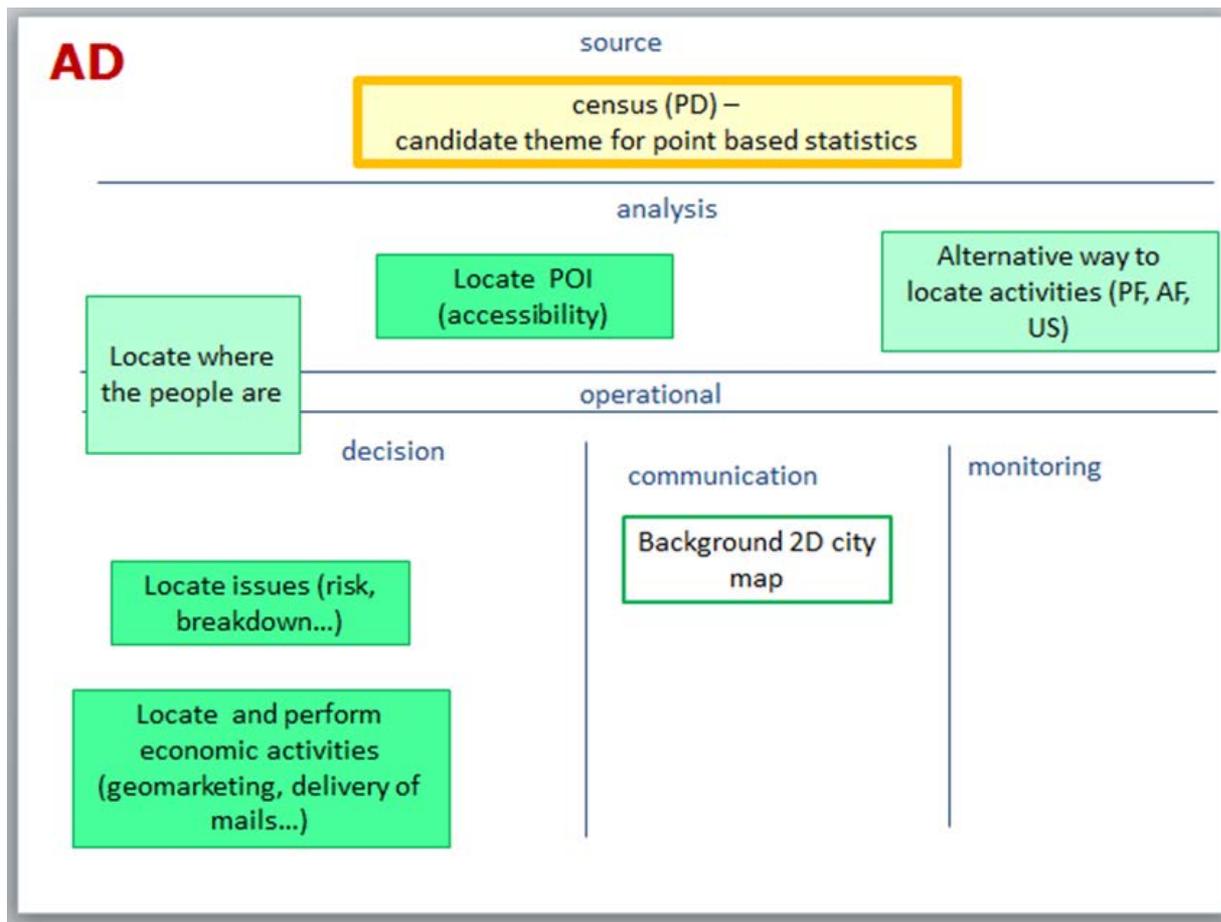
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Core themes linking to the SGF:

Addresses, Cadastral Parcels and Buildings



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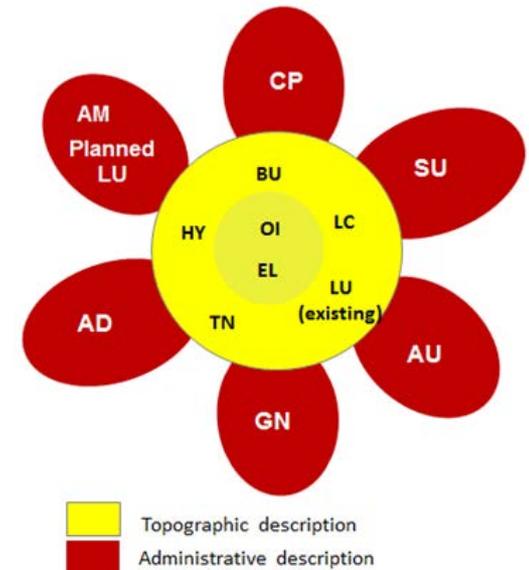


Core data – indirect or direct use for SDG's

- Indirect use:

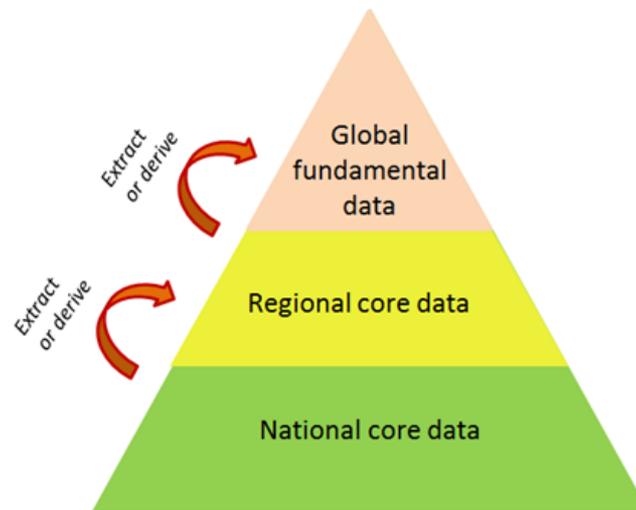
- ★ Data is used as background providing meaningful context to more thematic data;
- ★ Data is used as main source or as ancillary data to derive or to facilitate the production of other data;
- ★ Data is used to transform an indirect location into a direct one by geocoding process;
- ★ Data enables the combination with other data, typically by semantic jointure.

- The resulting selection includes both topographic and administrative description of the territory

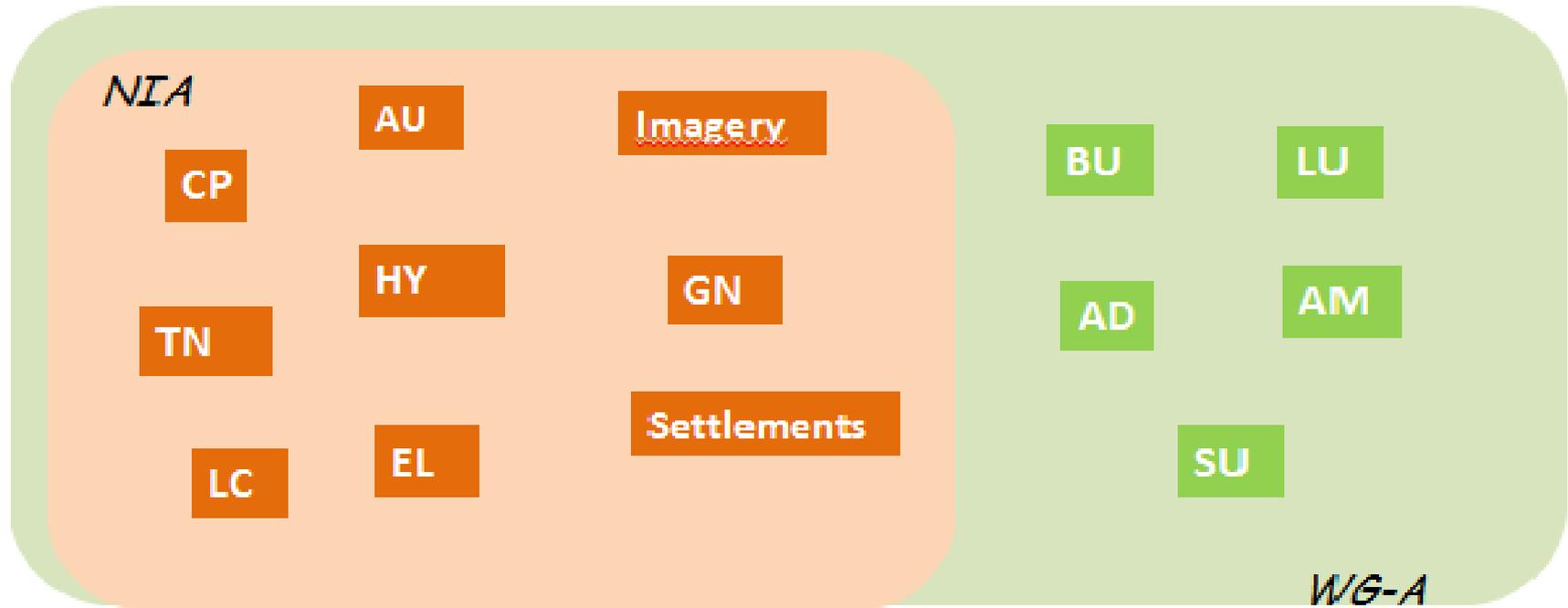


Levels of Detail of required Geospatial Data

- Geospatial data for policy use - International and strategic level
- Geospatial data for planning and management - National and management level
- Geospatial data for local level action - Local and action level



UN-GGIM NIA selection as subset of WG A



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The SGF in a European context

- **The UN-GGIM: Europe WG A and B have included SGF aspects in the work:**
 - ★ **WG A – core data include the georeferencing aspects for statistical purposes**
 - ★ **WG B – the SGF is important to illustrate the aspects of integration**
- **The ongoing work on GSBPM in the GEOSTAT 2 project relate to the SGF**
- **Proposals for GEOSTAT 3 include the SGF**
- **The EFGS website include the SGF**

