



GEOSTAT 3

How to enable Statistical and Geospatial Integration in Europe

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The GEOSTAT Projects

- GEOSTAT 1: Creating a population grid for Europe (2010-2014)
- GEOSTAT 2: A point-based foundation for statistics (2015-2016)
- GEOSTAT 3: The ESS Statistical Geospatial Framework (2017-2018)



GEOSTAT 3 Objectives

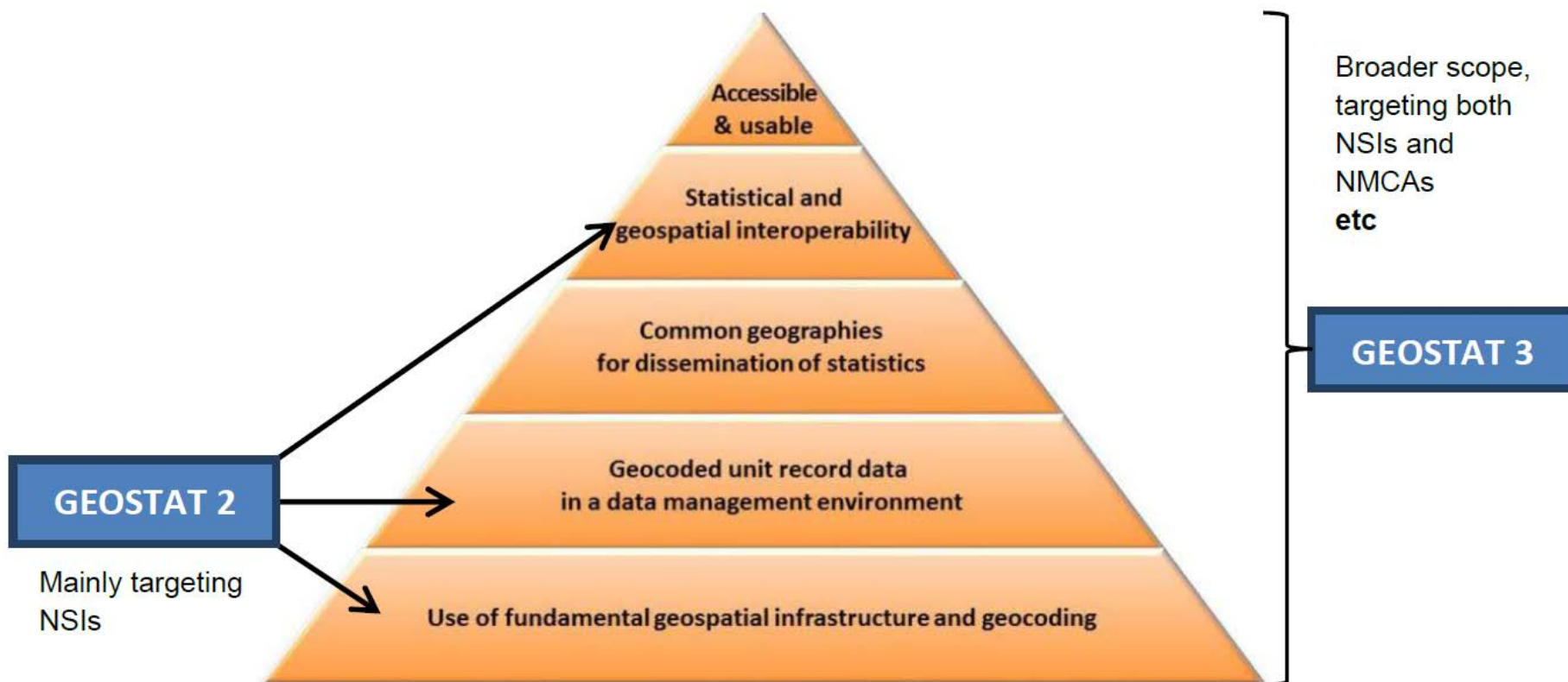
1. Develop the European adaption of the SGF (ESS-SGF) and provide recommendations on how to implement it in EU member states within and outside NSIs;
2. Test the usefulness of the ESS-SGF and its implementation on selected indicators for the 2030 Agenda;
3. Support EFGS, disseminate results, benefit from GGIM activities etc.



Project Team

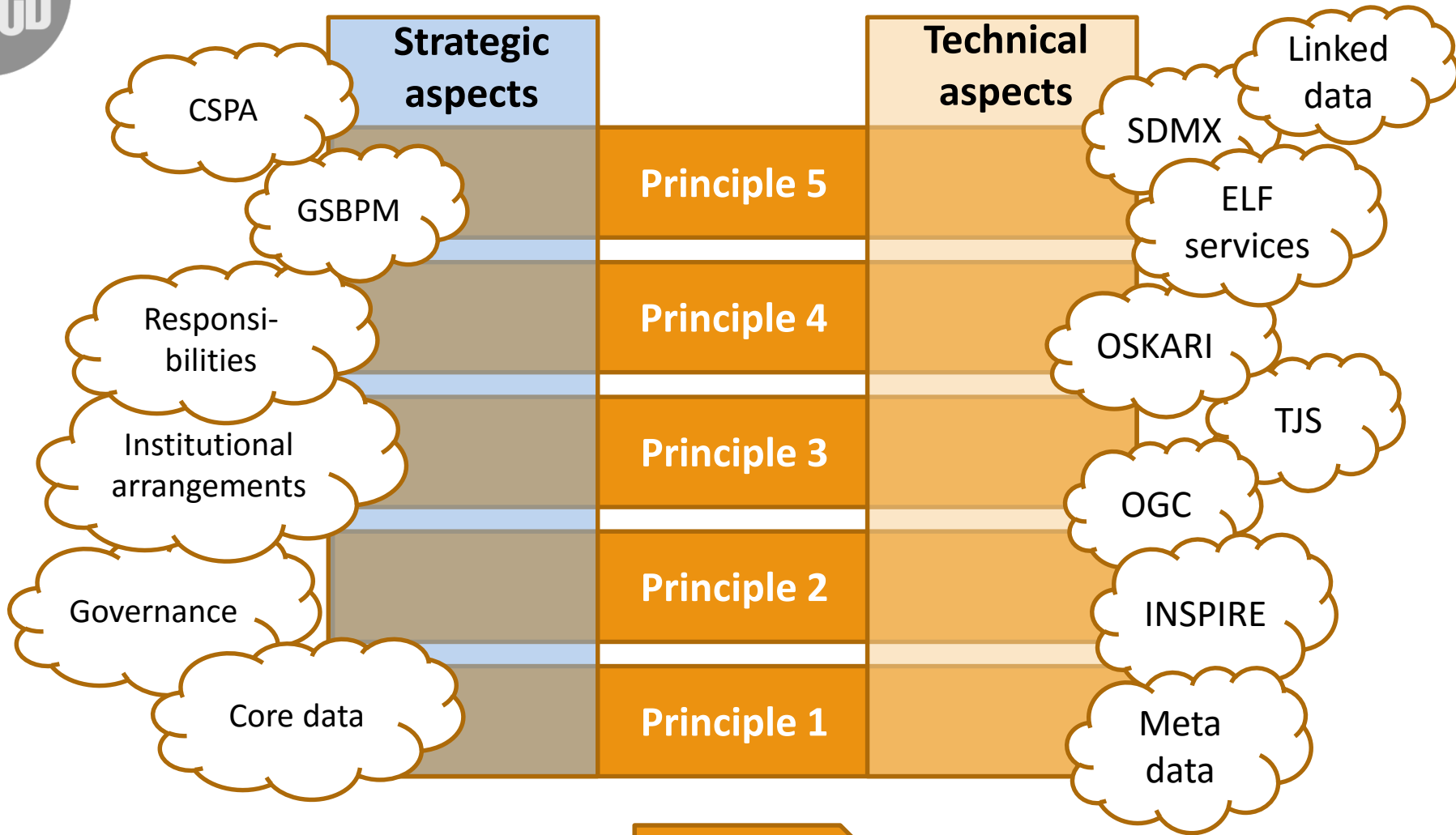
- Coordinator: Sweden
- Participating NSIs:
 - Austria
 - Estonia
 - Finland
 - Netherlands
 - Norway
 - Poland
 - Portugal
- Sub-contractors:
 - Kartverket, Norway
 - BKG, Germany
 - Marina Backer (EFGS Secretary)
- Sponsor: Eurostat

Develop a European Statistical Geospatial Framework



Deliverables of WP1

- A detailed description of all the principles and elements of the ESS-SGF and the differences with the global SGF.
- Strategic and technical recommendations for the implementation of the ESS-SGF in NSIs but also, where needed and/or possible, in other public authorities concerned.



Roadmap!

Interaction

- GGIM on Global and European level
- NMCA:s and EuroGeographics
- Eurostat Projects
- INSPIRE
- UNECE
- Geospatial Standards Community



Input – some examples

- GGIM Documents on the GSGF
- National experiences
- GEOSTAT 2 results
- GGIM: Europe reports
- UNECE Workshop on Standards (Stockholm Nov 2017)





Statistical Community

Socio-economic datasets

Core NSO datasets

Census, Demographics, Agriculture, Building, Labour Force, etc.

Tax

Income and business tax

Electoral Role

Health Services

Medicare, Pharmaceuticals, Medical workforce

Land Valuation and Land Use

Social Welfare Services

Unemployment, Disability, Family Support

Others ...

SSF
bridge

Spatial Community

Spatial Data Frameworks – Fundamental Elements

Themes:

Admin. & statistical boundaries

Addressing, Place Names

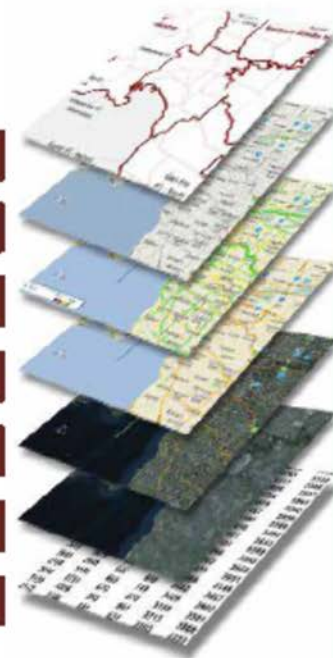
Transport, Water

Land and Property

Elevation and Depth

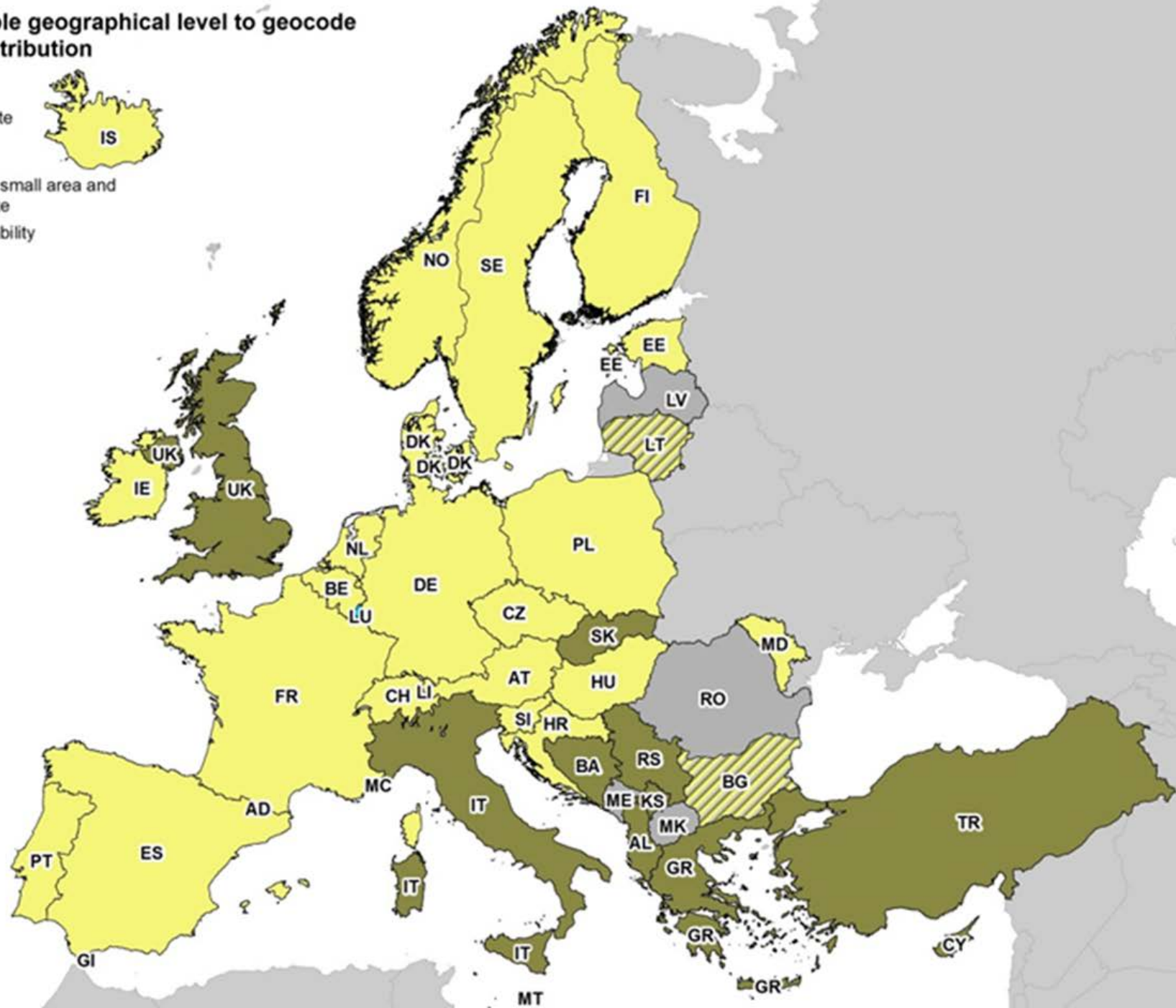
Imagery

Positioning



Lowest possible geographical level to geocode population distribution

- Single coordinate
- Small area
- Combination of small area and single coordinate
- No geocoding ability
- No response



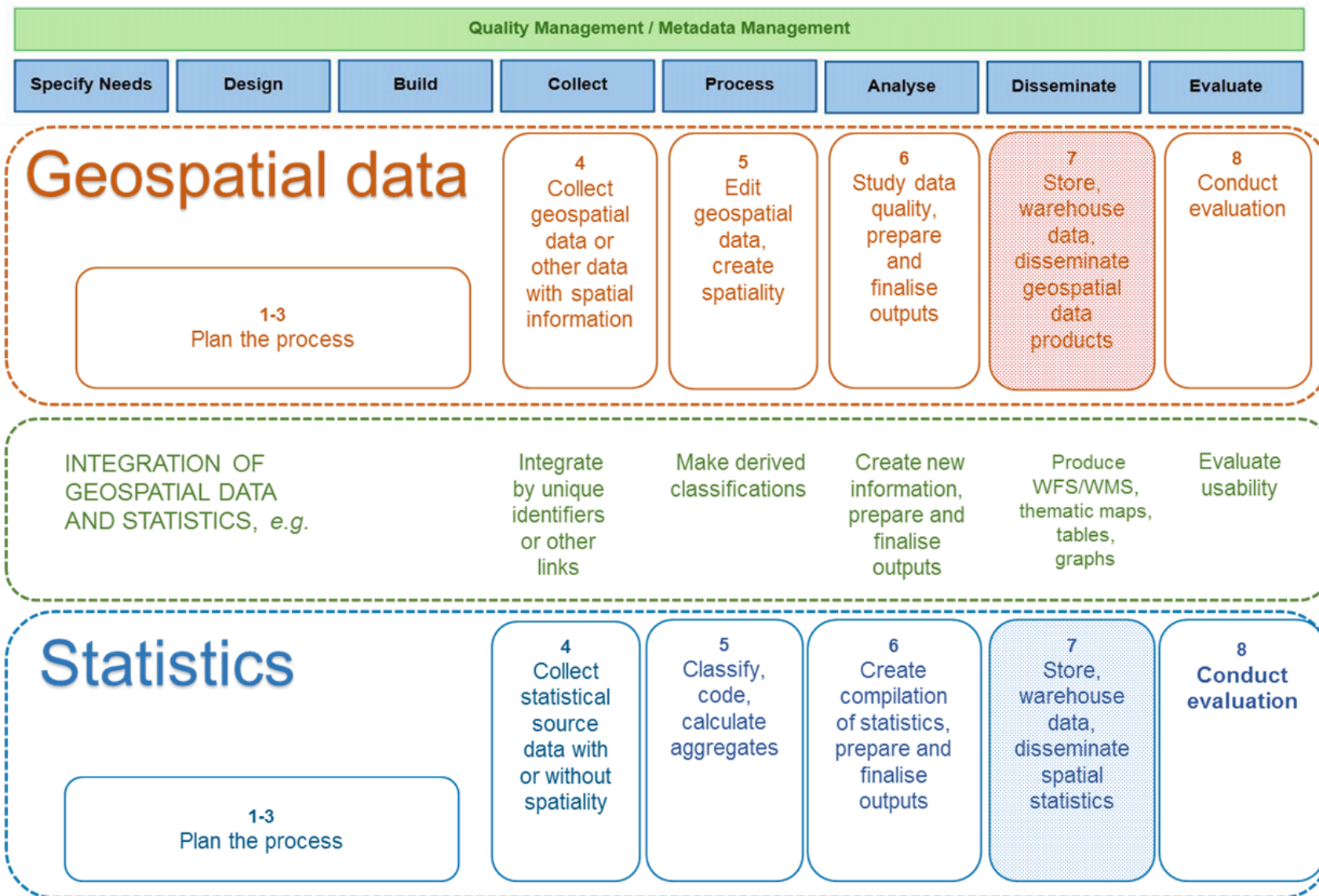
Production of Spatial Statistics: An applied sketch of GSBPM

Terms used:

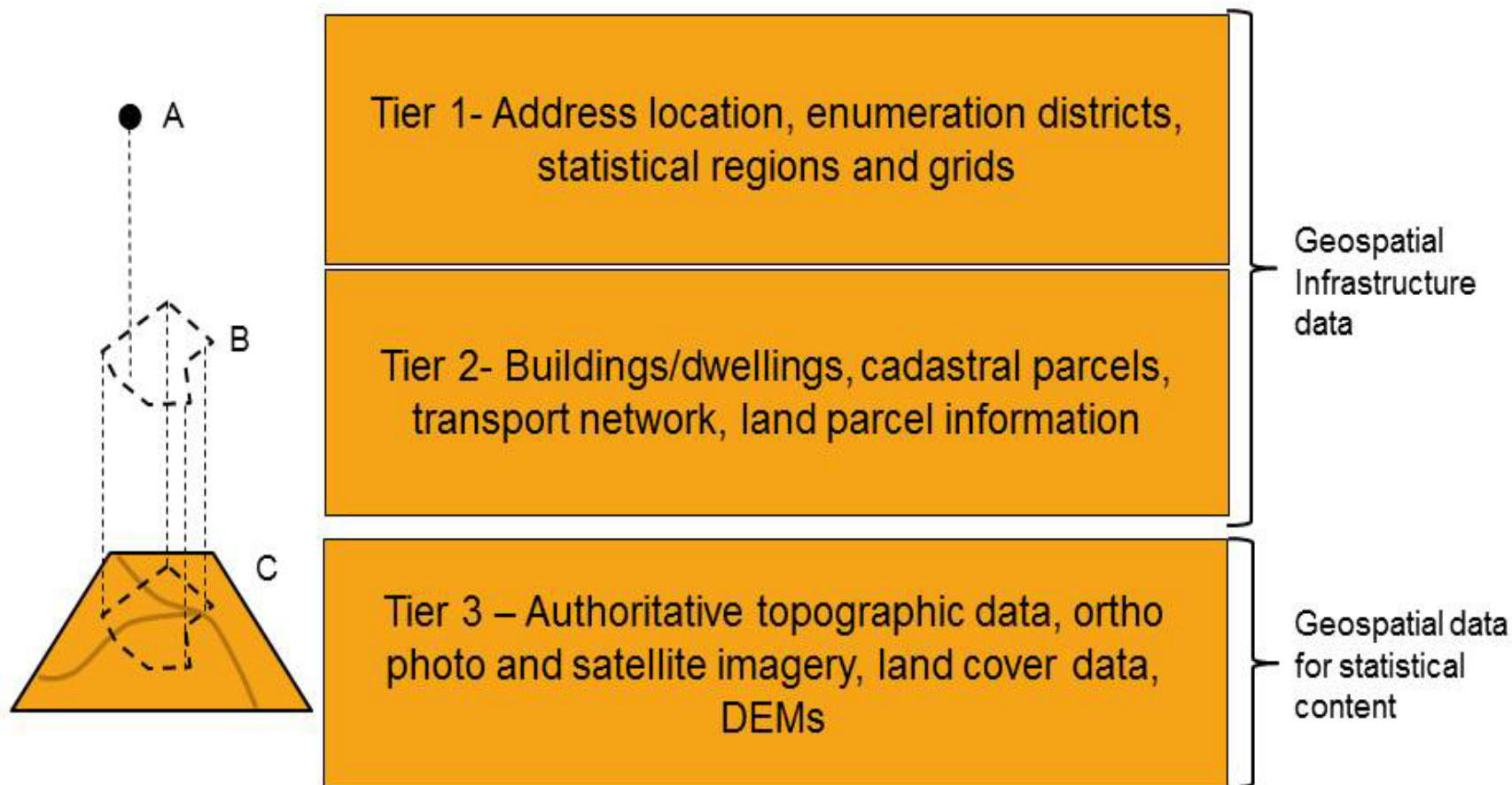
Geospatial data: Data with direct reference to a specific location on the surface of the Earth (points, areas, lines)

Spatial statistics: Geospatial data with statistics or table data with location information.

General Statistical Business Process Model: <http://www1.unece.org/stat/platform/display/GSBPM/GSBPM+v5.0>



Point-based approach



WP-2 Testing the ESS-SGF

- Applying the ESS-SGF to the indicator framework of the 2030 Agenda
- Applying the ESS-SGF to Census indicators (1 km grid)
- Implementing technical considerations from WP 1.
- Choice of indicators to be tested!





EFGS

European Forum for
Geography and Statistics
DUBLIN 2017

2-3 Nov, 2017

Dublin Castle,
Dublin,
Ireland
D02 HW86

Registration details to follow shortly

Hosted by the Central Statistics Office and Ordnance Survey Ireland



An Phríomh-Oifig Staidrimh
Central Statistics Office



Ordnance
Survey
Ireland

A map of Europe with a color-coded overlay. The overlay uses a gradient from light yellow to dark purple, with darker colors indicating higher values. The map shows the outlines of European countries and major water bodies like the Atlantic Ocean, the Mediterranean Sea, and the North Sea. The text is centered over the Western European landmass.

More information:
<http://www.efgs.info/geostat/>