JOINT UN-GGIM: EUROPE – ESS MEETING ON THE INTEGRATION OF STATISTICAL AND GEOSPATIAL INFORMATION
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Work Group A « Core Data » Report and Update

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UN-GGIM: EUROPE
UNITED NATIONS INITIATIVE ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT

Plan

- Work and progress
  - January 2016 WGA workshop to select core data themes

- Next Actions

13 – 14 January 2016 WGA workshop to select core data themes

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January 2016 WGA workshop to select core data themes

Methodology - Bottom-up approach

- Identify the SDG targets that "consume" GI

- For each selected SDG target
  - Identify use cases to analyse, achieve and monitor SDG target
  - Identify the required geographic data

- For each INSPIRE data theme
  - Make a summary of use cases

  →Use case "maps"

EL

source

To make OI

To delimit DrainageBasins (HY)

analysis

Forecast propagation of physical phenomena (risk, water, sun, pollution, winds ….)

Understand influence on ecosystems and climate change

Influence city spreading

operational

decision

Find relevant place for project (slope, sun, visibility,…)

Find relevant activity on given area (species…)

communication

Background 2D map

3D models (risk, projects…)

monitoring

Protection of landscapes (visibility)

January 2016 WGA workshop to select core data themes

Methodology - Top-down method (UK)

- Several projects around the world
  - Tried to define core/base/reference/fundamental/data
  - Substantial agreement about the most important themes

- Use the findings of these earlier studies
  - To help validate the conclusions of the bottom-up process

Candidate core data themes

Core data requirements: candidate data themes

Category	Theme	1994 US NSDI	1997 EC GI-BASE	2007 INSPIRE	2007 UNECA	2008 UK Location	2013 ELF	2014 ANZLIC	2015 UN-GGIM NIA	2015 ESS T/F Cat 1	Count
Administrative	Cadastral parcels / site boundaries	Yes	Yes	Yes	Tenure	Yes	Yes	Yes	Yes	Yes	9
Infrastructure	Transport networks (road, rail, water)	Yes	Yes	Yes	Yes	Streets	Yes	Yes	Yes	Yes	9
Physical	Hydrography	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	9
Physical	Height/elevation/depth	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	9
Administrative	Administrative boundaries	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	8
Physical	Imagery	Yes		Yes	Yes		Yes	Yes	Yes	Yes	7
Administrative	Geographic names			Yes	Yes		Yes	Yes	Yes		5
Control	Geodetic framework	Yes		Yes	Yes	Yes		Yes			5
Physical	Land cover		Yes	Yes	(Yes)			Yes	Yes		5
Administrative	Addresses			Yes		Yes		Yes		Yes	4
Infrastructure	Buildings		Yes	Yes			Yes				3
Infrastructure	Utility networks		Yes	Yes	Yes						3
Physical	Topography		Yes			Yes	Yes				3
Physical	Hydrology		Yes		Yes	Yes					3
Administrative	Statistical units			Yes		Yes				Yes	3
Administrative	Sea regions			Yes			Yes				2
Administrative	Protected sites			Yes	(Yes)						2
Administrative	Regulated areas			Yes	(Yes)						2
Physical	Land use		Yes	Yes							2
Physical	Geology and soils		Yes	Yes							2
Statistical	Demographics		Yes	Yes							2
Administrative	Postal boundaries		Yes								1
Administrative	Health & Safety			Yes							1
Infrastructure	Environmental monitoring facilities			Yes							1
Infrastructure	Production and industrial facilities			Yes							1
Infrastructure	Agricultural facilities			Yes							1
Physical	Natural risk zones			Yes							1
Statistical	Geographical grids			Yes							1
	Points of interest		Yes								1
	Atmospheric conditions			Yes							1
	Meteorology			Yes							1
	Oceanography			Yes							1
	Ecological regions			Yes							1
	Habitats			Yes							1
	Species distribution			Yes							1
	Energy resources			Yes							1
	Mineral resources			Yes							1
Infrastructure	Settlements								Yes		

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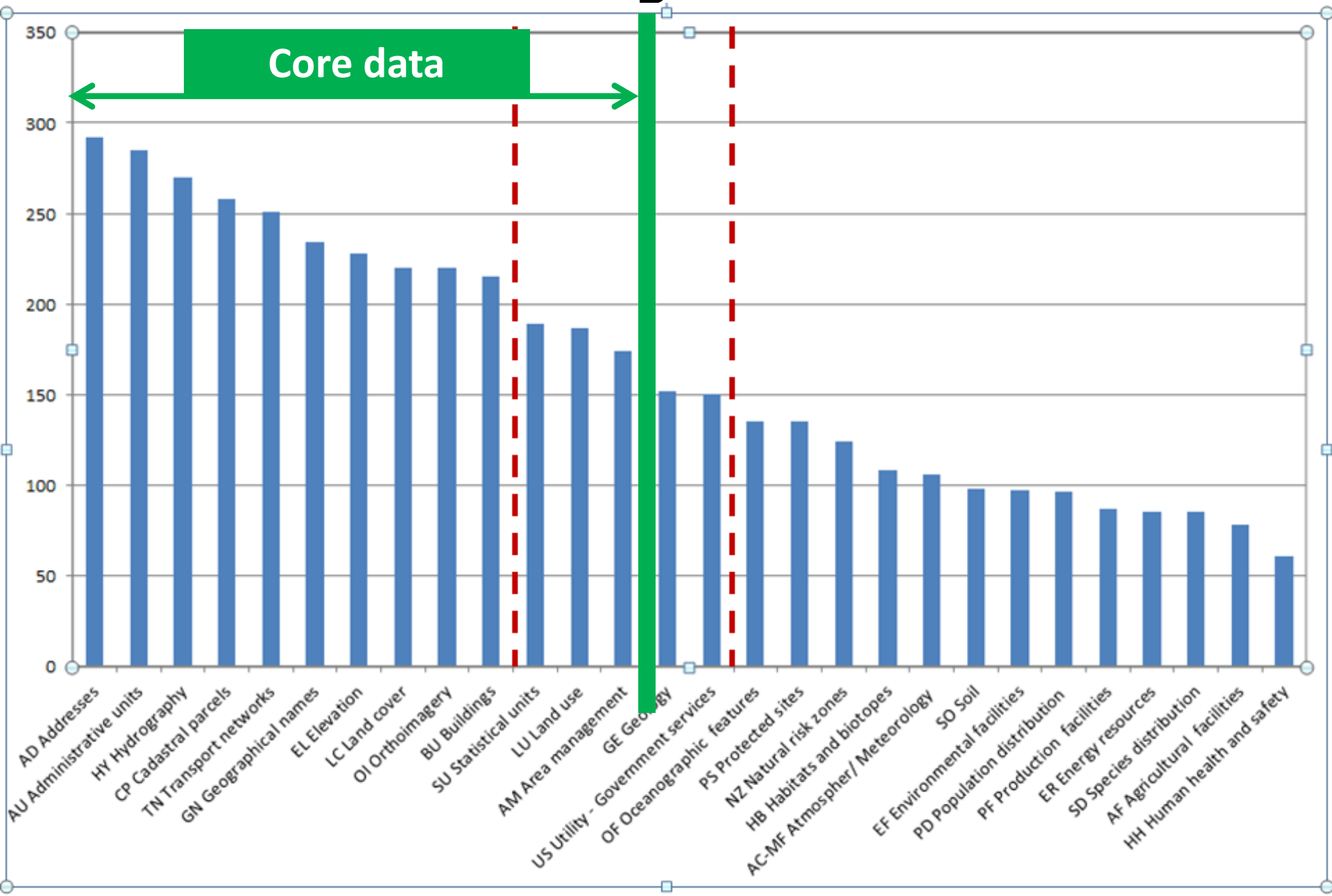
January 2016 WGA workshop to select core data themes

Methodology – Selection Process

- Discussion about each INSPIRE theme
  - Based on its summary of use cases
- Each country or observer (incl. WGB) ranked the themes
  - Criterion: geospatial data the most required by SDG use cases,
    either directly or indirectly (as framework)
- Final rank: average

January 2016 WGA workshop to select core data themes

Final Themes Histogram



Final list of selected core data themes

Annex I

Coordinate Reference Systems

Geographical Grid Systems

Geographical Names

Administrative Units

Addresses

Cadastral Parcels

Transport Networks

Hydrography

Protected Sites

Annex II

Elevation

Land Cover

OrthoImagery

Geology

Annex III

Statistical units

Buildings

Soil

Land use

Human health and safety

Utility and governmental services

Environmental monitoring facilities

Production and industrial facilities

Agricultural and aquaculture facilities

Population distribution - demography

Area management/restriction/regulation

Natural risk zones

Atmospheric conditions

Meteorological geographical features

Oceanographic geographical features

Sea regions

Bio-geographical regions

Habitats and biotopes

Species distribution

Energy resources

Mineral resources

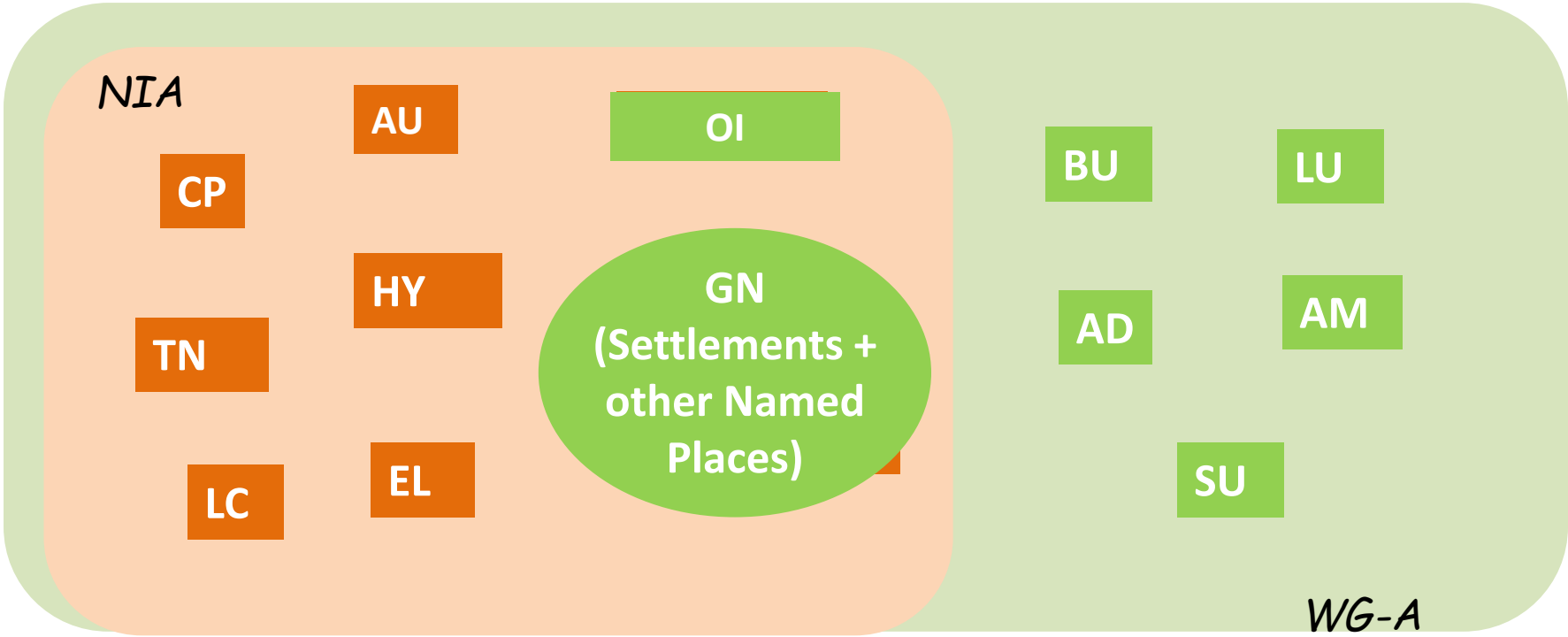
European dimension of selected core data

- User requirements
  - SDG: global
  - INSPIRE use cases among main source
    - Reporting for European Directives in some use cases

- INSPIRE nomenclature used
  - List of INSPIRE themes as work basis for selecting themes
  - Work basis for future specifications work

Global dimension of selected core data

Comparison with the list of core themes selected by the NIA (National Institutional Arrangements) WG



Next Actions

Identifying **users** and their needs and **requirements for core data**

- Well advanced
- Achievement expected End of March with delivery of 'core data scope' report

Providing a **description** and **technical specifications for core data**

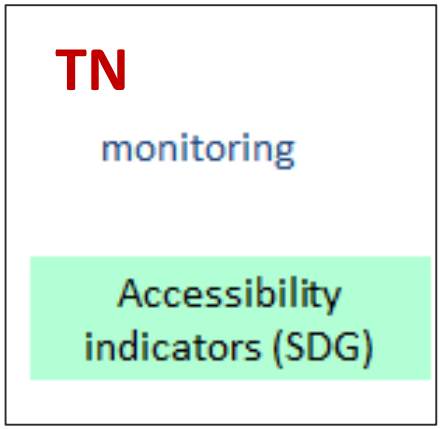
- Carry out first **investigation of selected themes** by studying INSPIRE specifications, user requirements, etc.

- Propose **draft work plan per theme** to be presented during next WGA meeting

- Main work will be to make appropriate **decisions about core data content**
  - Feature types, attributes
  - Level of detail, quality requirements

SDG Indicators and Core Data

- Considered in the use case maps of INSPIRE themes
  - Draft version (without “metadata”)
  - Only the indicators that obviously consume GI
  - Examples :
    - "share of the rural population who lives within 2 km of an all seasons road"
    - "coverage of protected areas“



- WGA interested to contribute to UN-GGIM work on indicators
  - To provide our expertise to the group
  - To take into account the requirements related to SDG indicators in core data specifications

Thank you for your attention

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