

UN-GGIM: Europe ExCom 14 January 2015

Work Group A « Core Data »

Work plan and time-table agreed at the kick-off meeting

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WG A PARTI- CIPANTS

15 European UN Member States	3 Observers
Austria	Joint Research Centre
Belgium	European Environment Agency
Denmark	EuroSDR
Finland	
France	
Germany	
Greece	
Netherlands	
Norway	
Poland	
Spain	
Sweden	
Switzerland	
Turkey	
United-Kingdom	



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Plan

- WGA proposes to refine first the 2015 work plan leading to **core data specifications**
 - Specifications are a prerequisite for investigating economic, financial, political aspects in 2016 and 2017
- General **Definition** of Core Data
- Identify **users** and **requirements** for core data
 - Proposed method
 - Proposed structure of usages
- Define the **scope** to be covered by core data
- Description and technical **specifications** of core data
 - Relation with **INSPIRE** and **ELF**



General Definition of Core Data

- UN-GGIM: Europe 2014 Report
 - The **minimum set** of **authoritative national data** needed to meet **common requirements** for applications at cross-border, European and global levels
- Issues
 - The notions of *minimal set* and *common requirements* have to be clarified
 - **Specific topics** e.g. climate, demography, air pollution?



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General Definition of Core Data (cont.)

- WG A proposal with respect to these issues
 - Core data is **authoritative 'skeleton' data**
 - Enabling national, European and global users
 - Either to fulfil their requirements directly
 - Or to geo-reference, locate, or **build** their own **thematic geospatial data**
- Proposed production scheme (**bottom-up**)
 - Member states would produce core data with high resolution for national uses
 - Member states would provide core data to international users through generalizing and aggregating processes



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Identify users and requirements for core data

1) Proposed method

- **Matrix:** Usages – Data Themes – Existing Data
 - Open matrix highlighting the requirements not met by existing data
- Coordination with **WG B**
 - Many requirements will be met by **crossing core data and other data sources**
 - Core data have to be distinguished from other data



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Identify users and requirements for core data

2) Proposed structure of usages

From the 17 UN Sustainable Development Goals (**SDG**), 3 major usages themes have been identified:

1. Technological and natural hazard prediction
2. Availability of natural resources and maintenance of biodiversity
3. Sustainable economy and facilities



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WGA Major Usage Theme	Related UN SDG	Related UN SDG Target (sub-goal)
Technological and natural <u>hazards</u> prediction	1. End poverty	1.5 : reduce exposure and vulnerability to <u>climate-related extreme events</u>
	3. Ensure healthy lives	3.9 : reduce the number of <u>deaths from pollution</u>
	6. Available and sustainable water sanitation	6.3 : improve <u>water</u> quality by minimising <u>releases</u>
	11. : Make cities and human settlements sustainable	11.5 : reduce the number of <u>deaths due to disasters</u>
		11.6 : reduce the environmental <u>impact of cities</u> , esp. air quality and waste management
	12. Sustainable production and consumption	12.4 : achieve environmental compliant management of <u>waste and chemicals</u>
	14. Use of oceans, seas and marine resources	14.1 : reduce <u>marine pollution</u>
	15. Use of terrestrial ecosystems	15.8 : reduce the impact of <u>invasive species</u>

Availability of natural resources and maintenance of biodiversity

2. Hunger, <u>food security</u> , agriculture	2.1 : end hunger
	2.3 : double the productivity and income of small-scale producers
	2.4 : ensure sustainable food production systems
6. Available and sustainable <u>water sanitation</u>	6.1 : universal access to drinking water
	6.3 : improve water quality by minimising releases
	6.5 : implement water resources management
	6.6 : protect and restore water-related ecosystems
8. Sustainable <u>economic growth and employment</u>	8.4 : improve resource efficiency to decouple economic growth from environmental degradation
	8.9 : promote sustainable tourism
11. : Make <u>cities and human settlements</u> sustainable	11.4 : safeguard world's cultural and natural heritage
	11.a : ensure links between urban and rural areas
12. Sustainable <u>production and consumption</u>	12.2 : efficient use of natural resources
13. Combat <u>climate change</u>	13.1 : strengthen resilience to climate related hazards
14. Use of oceans, seas and <u>marine resources</u>	14.2 : protect coastal ecosystems
15. Use of <u>terrestrial ecosystems</u>	15.1 : ensure conservation of inland freshwater ecosystems
	15.2 : promote sustainable management of forests
	15.3 : restore degraded land
	15.4 : ensure conservation of mountain ecosystems
	15.5 : reduce degradation of natural habitat
	15.8 : reduce the impact of invasive species
	15.9 : integrate biodiversity values into national and

Sustainable economy and facilities

1. End <u>poverty</u>	1.4 : access to basic services, ownership and control over land
6. Available and sustainable <u>water sanitation</u>	6.1 : universal access to drinking water 6.4 : increase water-use efficiency 6.5 : implement water resources management
7. Ensure access to sustainable <u>energy</u>	7.1 : universal access to energy services 7.3 : Double the rate of energy efficiency
8. Sustainable <u>economic growth</u> and <u>employment</u>	8.1 : sustain economic growth 8.4 : improve resource efficiency to decouple economic growth from environmental degradation
9. Resilient <u>infrastructure</u> and sustainable <u>industrialization</u>	9.1 : develop sustainable and resilient infrastructure 9.c : access to ICT and internet
11. : Make <u>cities and human</u> <u>settlements sustainable</u>	11.1 ensure access to affordable housing and basic services, upgrade slums 11.2 : provide access to sustainable transport systems for all 11.3 : enhance inclusive and sustainable urbanisation 11.4 : safeguard world's cultural and natural heritage 11.5 : reduce the number of deaths from disasters 11.7 : universal access to green spaces 11.a : ensure links between urban and rural areas
13. Combat <u>climate change</u>	13.1 : strengthen resilience to climate related hazards

Define the scope to be covered by core data

- Working on usages will enable to set a **hierarchy between the requirements**
 - Which requirements will be fulfilled by core data
 - Which requirements will be partly fulfilled by core data
 - e.g. by enabling users to geo-reference, locate or build their own thematic geospatial data
 - Which requirements will not be addressed by core data
- **Priorities definition** may enable a **gradual implementation** of core data



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Description and technical specifications of core data

- As far as possible comply with **INSPIRE** rules
 - In INSPIRE, there are themes from which to pick-up core data
- As far as possible comply with **ELF** specifications
 - ELF: INSPIRE implementation coordinated between member states
 - ELF narrowed the INSPIRE scope: good base for core data
- Define the **quality of core data** quality to achieve **homogeneity**



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ELF and WG A

SDG

use cases and
user
requirements

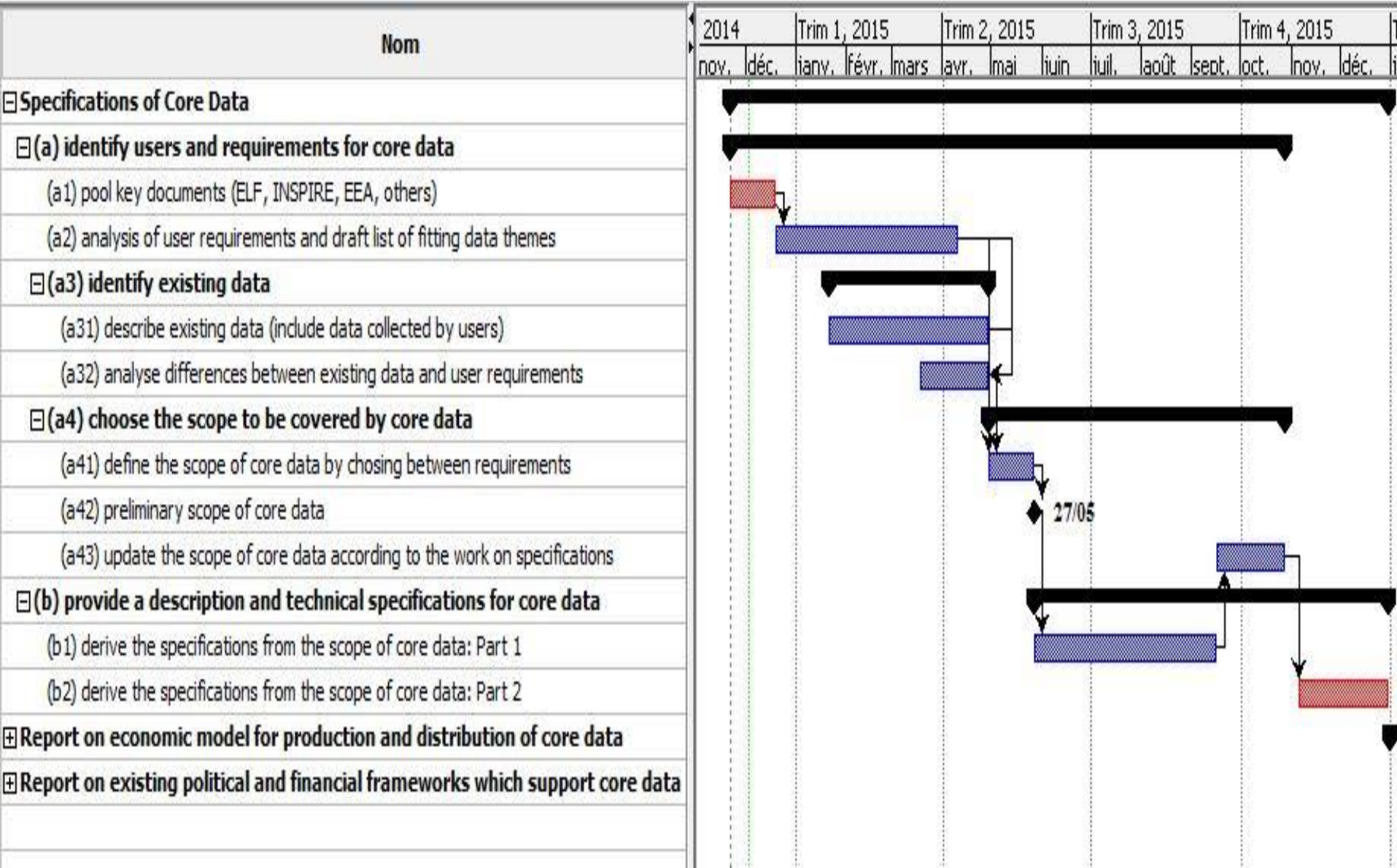
Distribution
ELF

Harmonisation of
data content
GGIM WGA

MS Authoritative Data Providers
(NSDIs, NMCAs, NSIs, Other Data Providers
working together)



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Thank you for your attention



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