

Topic iv: Standards and metadata

✎ Main objectives:

- are standards useful /necessary for integration, storage and dissemination of statistical and geospatial data both inside and outside the agency ?
- how organisations are coordinating the development of standards and metadata ?

✎ Specific topics

- focus on models
- role of metadata for data integration (from disparate sources)
- tools and methodologies in the collection, evaluation, and dissemination of data
- some real examples

Preliminary remarks

✎ Is the word 'standards' understood in a standard way ?

- Data standards
- Technological standards
- Statistical standards
- ...
- Is there a common element between the various concepts ?

✎ Who knows about metadata

- Is GI metadata different from other metadata ?
- Are you aware of advantages/disadvantages ?

✎ Why a session on 'standardisation' ?

The way forward for this session

- ✍ Part 1: GI-GIS aspects (invited papers)
 - OpenGIS
 - GI Standards in European Commission
- ✍ Part 2: Statistical aspects (working papers)
 - US standards for definition of Metropolitan areas
 - Territorial aspects in statistics in Serbia
- ✍ Two discussant
 - Annoni (GI-GIS) ----- Gallego (Statistical)
- ✍ Part 3: A common approach to standardisation (you all)

Why Standardisation ?

- ✍ Advantages
 - Interoperability ?
 - ✍ Accessibility, sharing, discovery, ...
 - Avoid duplication ?
 - Avoid repetitive procedures for 'data harmonisation'?
- ✍ Disadvantages
 - Conversion of existing systems ?
 - Policy harmonisation (access, copyright, price, ..) ?
 - Impact on organisations (technical, political) ?

Content standardisation (Data,Metadata)

- ⌘ First level of complexity
 - Common Reference systems
 - Well described data model
 - Standard metadata (core elements) ⌘ Data Policy
- ⌘ Second level of complexity
 - Understanding Semantic differences
 - Human Language
 - Common Data model
 - Standard metadata (communities profiles) ⌘ Data Policy
- ⌘ Third level of complexity ?
 - Organisational issues (data quality, Updating & maintenance)
 - Dependencies (protocols, MoU, ..)
 - Inter-sector collaboration (e.g. water quality, Flooding, planning, ...)
⌘ Policy

Technological Standards

- ⌘ Link with standardisation bodies
 - ISO, OGC, CEN, Others
- ⌘ Link with industry
 - Influencing development (through a collaborative framework)
 - Transparency (using standards Metadata to document sw procedures ?)
 - Understanding technology development

Statistical Standards

- ✎ Nomenclature (Eurostat since....????)
- ✎ Administrative units: NUTS
- ✎ Other areal units (catchments). What do we want them for?
- ✎ Sustainability, environmental indicators (ongoing)
- ✎ Definition of urban/rural areas????
- ✎ Definition of urban agglomerations

Statistical Standards

Should we define standard criteria to attribute coordinates to:

- Persons?
- Farms?
- Companies?
- Vehicles?

Coordinate attribution should be

Precise, accurate?

With an indication of accuracy?

AFFORDABLE

Compatible with attribution criteria to administrative units.

The future ?

✍ Services standardisation

- Focus on Usability & Accessibility
- How ?
 - ✍ Catalogs
 - ✍ User interfaces
 - ✍ Common models
 - ✍ Common functionalities
 - ✍ Common policy
 - ✍ ...