Italy: moving from data-oriented to service-oriented approach

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1996: IntesGIS project

- For more than 10 years Italy has been greatly focused on data specs
- National GeoDB specs implement 19100 series standards, but are limited on issues like:
  - Information transfer standards
    - define the interfaces that allow different systems to work together, or the expected behaviour of software systems. The RM-ODP calls this the computation viewpoint; its focus is on invoking services effectively and unambiguously
  - Services invocation
    - define the content of geospatial information or its encoding for transfer between different processing systems. In RM-ODP parlance, this is the information viewpoint, emphasizing efficient, lossless communication
In 1998 IntesaGIS put big emphasis on metadata

The goal: collect GI metadata from Public Sector (central + local)

Errors and lessons learnt:
- 19115 problems: draft versions, hierarchy levels and encoding
- Little participation (just at Regional level)
In 2005, CNIPA defined new 19115 implementation guidelines (draft)

Some issues on 19139 (XML implementation) due to national hierarchical model, inherited by IntesaGIS

Problems remain on “services”: how do we exchange metadata within national context?
“Cartographilia”

► Italian concept of GI is ... cartography!
► GI is cartography and cartography is GI
► This is a partial (and wrong) vision
► Geographical identifier (e.g., addresses, streets, gazetteers, ...) are not harmonised, as they’re managed at municipal level:
  ▪ over 8000 municipalities = chaos
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► In 2007 Italian GI *should* move focus on services

► Need for a “framework” document on standards & specs (and IRs) to be taken into consideration

► Need to move from a GI perspective to a more IT perspective:
  - W3C, OGC, OASIS, …
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► Italy has been greatly involved in eGov implementations:
  - > 550 millions € funded
  - 786 AtoC (Admin to Citizen) services implemented: 37% of national population covered
  - 1031 AtoB (Admin to Business) services implemented: 48% of total number of businesses.

► Secure-services and accessibility issues are mandatory within Public Sector context
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Topics
- Interoperability issues
- Registries
- Catalogues
- Chaining
- ...

What now? What next?
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► Standards
  - Lack of technical skill on GI implementation specs and standards
  - Little participation at ISO/CEN activities

► Central Gov
  - Absence of a strong national agency and lack of a strong national position
  - Lack of national coordination
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