

SNIG Development Priorities: the renewal under INSPIRE Umbrella

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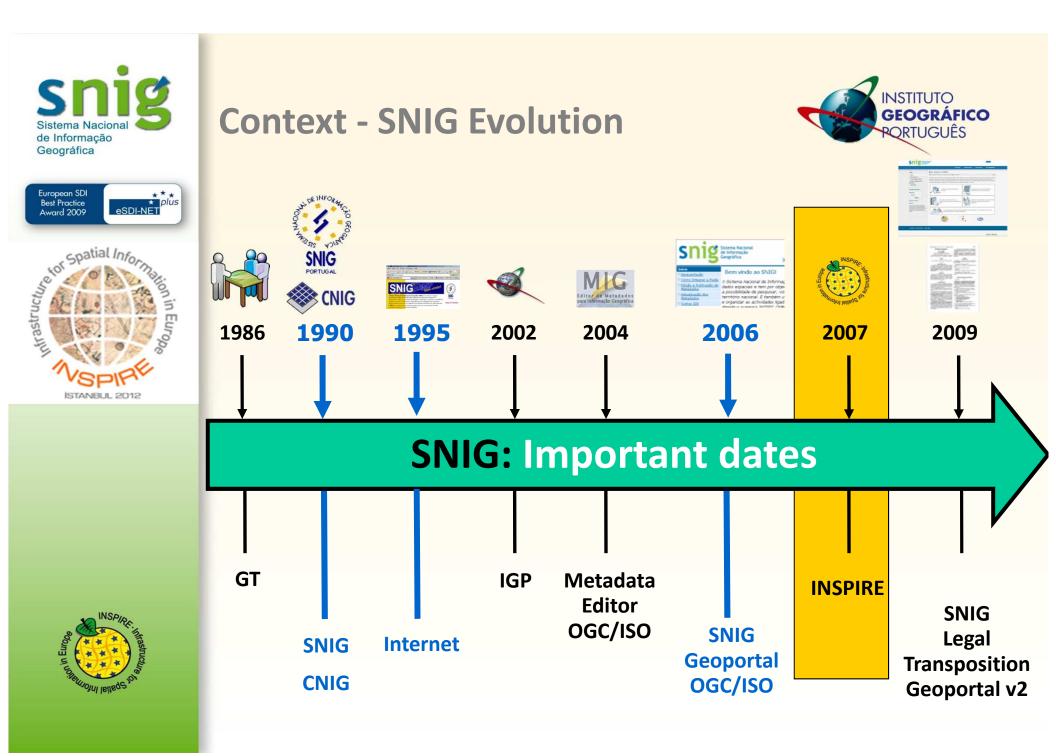






- Context
- The Portuguese National Spatial Data Infrastructure
- Actual issues around main SNIG components
- Final remarks













Context



- August 2009 Decree-Law 180/2099 was published in order to meet the requirement of INPIRE Directive transposition - a new scene for the National Spatial Data Infrastructure (NSDI) development in Portugal was established
- SNIG has a new legal framework, which created the **Coordination Council (CO SNIG)** for strategic decision regarding SNIG evolution
- SNIG has evolved in technical terms following the main developments achieved in the SDI domain
- SNIG coordinator IGP is also the **NCP for INSPIRE** being actively involved in all INSPIRE related activities in Portugal, steering its implementation

This paper aims to present the Portuguese National Spatial Data Infrastructure developments under INSPIRE umbrella and the actual issues around SNIG main components.









SNIG is following the advances made in recent years

- standards on geographic information (GI)
- XML and Web Services
- new computing models such as the Service Oriented Architecture (SOA)

SNIG Main Components

- Metadata Catalogue
- Catalogue Search
- Publication of Metadata
- Viewer
- SNIG Geo-portal







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European SDI

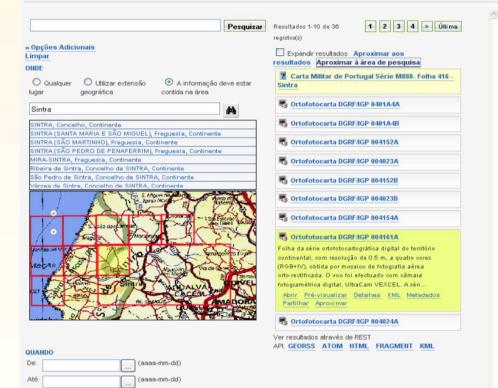
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CATÁLOGO



Catalogue search form



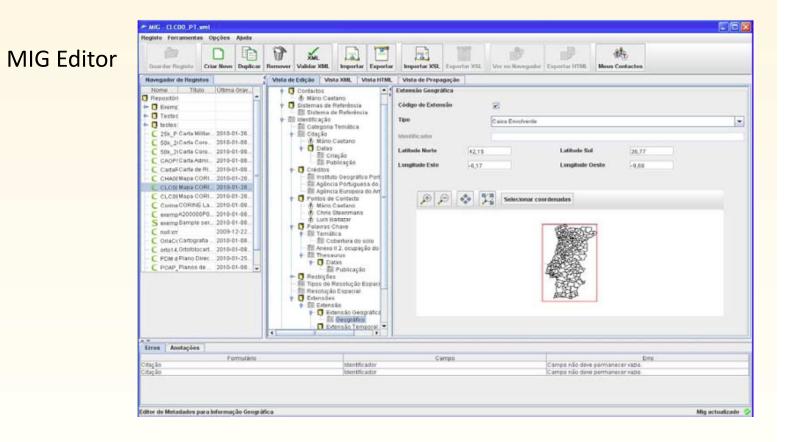




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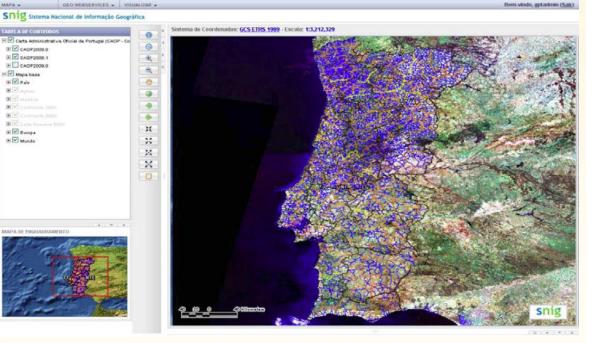
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Europa





Combined Hapa base Visualization: Officia Administrative Map and Portugal Base Map













SNIG development is being reviewed considering:

- The INSPIRE technical data and services specifications
- A new legal framework
- The available technical, human and financial resources
- Potential internal technical synergies with other systems under future DGT
- Potential partnerships with other public data providers







Actual main issues are focused in SNIG main components:

- Metadata
- Services
- Training
- Data Sharing







Actual issues around main SNIG components



Metadata

- (1) Update the National Metadata Profile created in 2007
- (2) Improve the tool developed for the production and edition of metadata
- (3) improve the Registry for National Spatial Data (RNDG)

A thesaurus in Portuguese harmonized with the MIG Editor keywords is foreseen







Actual issues around main SNIG components



Metadata

- (1) update the National Metadata Profile created in 2007, last version 1.2, March 2010
 - Wider range of authours, from several public administration entities, under the scope of the Transversal WG – Metadata and Services.
 - Objectives: nomenclature harmonization between the existing documentation and tools, wider agreement in what should be the base metadata, refinement of some fields regarding the INSPIRE operational requeriments (geoportal interoperability)
 - Based in a broader experience, systems evaluation and several documention available.
 - Status: Draft, waiting comments and approval from the Transversal WG





Actual issues around main SNIG components



Metadata

(2) improve the tool developed for metadata production and edition -MIG Editor:

- Created in 2005, last version 3.1 July 2010
- Follows technological evolution and INSPIRE specifications related to:
 - services metadata, add new metadata requirements (Annex I spatial data sets)
 - harmonize nomenclature according the new version of the national profile.
- Other improvements aim to allow a more efficient validation process, a better automatic metadata acquisition and improve usability.

Evaluate other recent Portuguese metadata editors, like **GEMA**, developed by the INSPIRE Açores WG already a mature tool, based in the Portuguese metadata profile and INISPIRE specifications





Actual issues around main SNIG components



Metadata

(3) **implement the Geographical Data National Registry** (RNDG) with the identified official thematic and topographic datasets, resultant of the process of the identification of the responsible public entities, dataset survey and evaluation of cartography quality requirements (*homologação*).



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Actual issues around main SNIG components



Services

- (1) as SNIG catalogue search services are not compliant with INSPIRE specifications, **a new search service**, based on Degree 3.1.1 CSW, already set-up to guarantee the interoperability with the European SDI and providing access to the around 600 metadata records corresponding to the spatial data and services monitored in 2011, is being improved
- (2) work towards INSPIRE compliance of the SNIG geoportal visualization (WMS 1.1.1) and download services (WFS 1.0.0) available through the metadata catalogue, considering the Initial Operating Capability (IOC) conditions
- (3) discuss the guidelines recently produced by a technical working group involving IGP and some public authorities – "Guide for the configuration and publication of Visualization Services INSPIRE-PT";
 (4) prepare the IT Infrastructure to be able to guarantee the minimum INSPIRE service quality levels (QoS).









Training

- (1) continue to develop training actions in relevant areas such as metadata, geo webservices and data harmonization
- (2) produce contents to provide through the e-learning platform









Data Sharing

- (1) develop a study on spatial data sharing and dissemination policies
- (2) develop a SNIG cost-benefit analysis to support data dissemination policies



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Final Remarks







Integrated in a new legal framework SNIG is under review:

The following actions will be put into place

- different users testing and evaluation in order to understand this NSDI usefulness and indentify its strong and weak points Concerning :
 - User requirements/data fitness
 - User interface
 - Functionalities and contents
 - e-Commerce

SNIG has to continue to **evolve to an open, flexible, interoperable and participated SDI** able to guarantee an effective and reliable access to the spatial data and services provided by the public authorities in Portugal promoting and