

INSPIRE implementation in Portugal: the operational approach

REIS, Rui; SANTOS, Ana Sofia; FONSECA, Alexandra; SILVA, Henrique; GOMES, Ana Luisa; FURTADO, Danilo; GEIRINHAS, João

rui.reis@igeo.pt











AGENDA



- 1. Member-State obligations
- 2. INSPIRE in Portugal
- 3. Coordination in Portugal
- 4. Action Plan
- 5. The opportunity











- Designate a National Contact Point (NCP);
- Transpose the INSPIRE Directive into national law;
- Representative on INSPIRE Committee;
- The national spatial data must be made compatible with common principles and rules (IR);
- Phased implementation of the INSPIRE Directive according to a established calendar;
- Guarantee interoperability between the national and european SDIs and to make possible, through INSPIRE geoportal, the access to the national spatial data sets and services referred in the Directive;
- Monitor and report the INSPIRE Directive implementation.







INSPIRE IN PORTUGAL



Portuguese National Contact Point

→ Portuguese Geographic Institute (IGP), since 2007.

Decree-Law n.º 180/2009, de 7 de Agosto

Review the national spatial data infrastructure - National System for Geographic Information (SNIG);

Transpose the INSPIRE Directive into national law;

Establishes rules for the creation of spatial data infrastructures in Portugal

- Created the Conselho de Orientação do SNIG (CO-SNIG) → strategic agency for SNIG
- Oblige the SNIG and other spatial data infrastructures in Portugal to comply with the provisions of INSPIRE implementation rules.







COORDINATION IN PORTUGAL

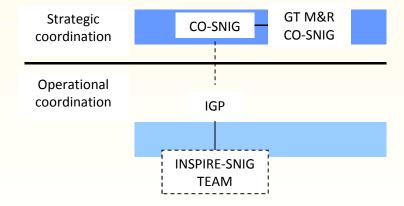


CO-SNIG → strategic coordination of SNIG

IGP → training, development, maintenance and operational coordination of SNIG

INSPIRE-SNIG Team → technical and operational support within IGP

GT M&R CO-SNIG → supports IGP on monitoring and reporting the INSPIRE Directive implementation











ACTION PLAN FOR INSPIRE IMPLEMENTATION

- Organization
- Contents
- Capacitation
- Dissemination









ACTION PLAN → 1. ORGANIZATION



- Develop contact networks and develop a tool for their management
 - INSPIRE Focal Points (2007) − 100
 - INSPIRE Core Focal Points (2010) 38
 - Metadata managers (2009) − 192
 - Thematic and technological Working groups (2010) 107
 - People registered in the Portuguese INSPIRE website 315

9	(e) - (e)	http://62.48.1	187.114/adminRede/AdminRede.htm		
Eichi Goi	eiro <u>E</u> ditar	<u>V</u> er Fav <u>o</u> rit	os Ferramen <u>t</u> as A <u>ju</u> da	Pesquisar - Mais	»
À	♠ [99] •	€ Gestão da	is Redes SNIG e IN 🏈 Administração das Redes 🗴		
	dmir	Contactos	ıção das Redes SNIG/ Mensagens Pessoas Temas As	INSPIRE suntos Relatórios	Sair
	r/Editar/ agar				
Ad	icionar		Nome	Sigla	Grupo
	acss		Administração Central do Sistema de Saúde	ACSS	Institutos Nacionais
	arhalgarve	4	Administração da Região Hidrográfica do Algarve, I.P.	ARH ALGARVE, I.P.	Outras Direcções Regiona
	arhcentro		Administração da Região Hidrográfica do Centro, I.P.	ARH CENTRO, I.P.	Comissões de Coordenaç
	arhnorte		Administração da Região Hidrográfica do Norte, I.P.	ARH NORTE, I.P.	Outras Direcções Regiona
	arhtejo		Administração da Região Hidrográfica do Tejo, I.P.	ARH Tejo, I.P.	Outras Direcções Regiona
П	portosdam	adeira	Administração dos Portos da Região Autónoma da Madeira, SA - Região Autónoma da Madeira	APRAM-RAM	Institutos Nacionais
_					
	iambiente		Agência Portuguesa do Ambiente	APA	Outras Instituições Nacion





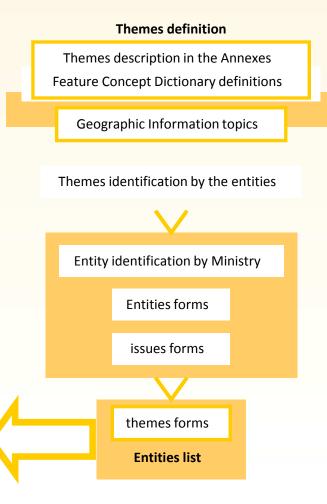


ACTION PLAN \rightarrow 1. ORGANIZATION



 Set up a methodology to analyse the Directive themes and identify the public authorities formally responsible for the production of spatial data sets related to those themes

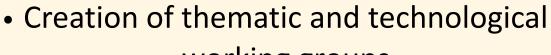
- Supported the first monitoring and report (2010)
- awareness of institutions to the issue of INSPIRE and its potential involvement.
- analysis of the Directive themes
- Analysis of the Public Authorities legislation
- List of the formally responsible Public
 Authorities (core entities)













working groups
10 thematic working groups

to clarify the formal responsibilities of the core institutions and monitor the development of data specification implementing rules, studing its application to the spatial data sets and services reported in the last monitorig process

1 technological working group
 to support core entities on the metadata production and publication and on the development of geowebservices

formally created by CO-SNIG in October 2010

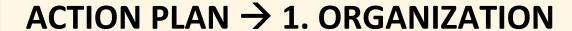
Groups work independently and have individual working spaces created in the INSPIRE forum for each group







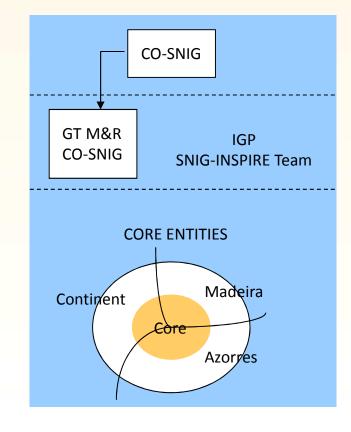






- Monitor and report the implementation of the INSPIRE Directive
 - Since 2010: 3 monitoring processes and 1 report
 - Development of procedures for monitoring and reporting

Indicator	2010	2011	2012
monitorized Spatial data sets	435	728	770
monitorized Spatial data sets with metadata on SNIG	296	681	727
Monitorized services	43	128	137
monitorized services with metadata on SNIG	28	125	135









ACTION PLAN \rightarrow 2. CONTENTS



 Metadata records from national entities, according to the Portuguese Profile

Indicador	2010	2011	2012
Metadata records on SNIG		17157	18048

National Metadata Profile (Perfil MIG)

 Specifications for prodution, management and dissemination of metadata in Portugal for interoperability with SNIG and INSPIRE

- 1st version: 2007

Last version: July 2010

Subset of ISO 19115 e ISO 19119 standarts

New draft version of the Nacional Metadata Profile.







ACTION PLAN \rightarrow 2. CONTENTS



Geo WebServices available through SNIG platform

- Discovery services
 - The SNIG catalog services didn't meet the INSPIRE specifications.
 - It was created a new catalog service based in Deegree 3.1.1 CSW, specific for interoperability with the INSPIRE infrastructure with the dataset and service metadata monitored in 2011.
- View services
 - The View services available through SNIG (WMS 1.1.1) are not in conformity with the Network services specification.
 - The Technological WG produced and delivered to the responsible authorities a guide for configuration and publication of INSPIRE-PT view services.
- Download services
 - The Download services (WFS 1.0.0) also not are in conformity with INSPIRE network services specification.



Discovery Services	View services	Download services
1	123	13





Geográfica

ACTION PLAN \rightarrow 2. CONTENTS

INSPIRE-PT Discovery services

Sistema Nacional de Informação



Catálogo INSPIRE-PT

Catálogo de Metadados INSPIRE-PT

O catálogo INSPIRE-PT é um catálogo de metadados nacional com os várias entidades nacionais monitorizadas em 2011. Este serviço de ca específi...

Abrir Pré-visualizar Detalhes XML



Apresentação

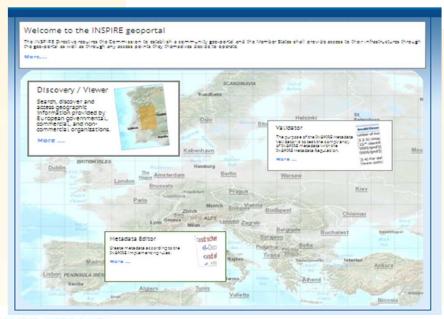
Metadados

· Outras IDE

Como integrar a Rede
 Edição e Publicação de

INICIAR SESSÃO

INSPIRE Geoportal





INSPIRE GEOPORTAL

Enhancing access to European spatial data

UROPEAN COMMISSION > INSPIRE > INSPIRE GEOPORTAL > Discovery / Viewe

Find a place in:	Lurope	<u>~</u>]			wered by GeoNames
0		Data Sou	rces and Credits	A STATE OF	
				3.0	ا-ىر
ŏ				6	
					178
			*		
1000			Carlo Maria		- State V
			D) Constant		
-					
			and the same		
200 mi					
95429, 39.50000		et o s		7 254	
Active Lave	The Section of the Se				140

	Ш	Į.	
sorte	ed by relevance	~	most relevant 💟
	displaying 1 to 10		

=

(dataset) Folha 53-A (Faro) da Carta Geológica de Portugal à escala 1/50 000

[dataset] PT-TM06/ETRS89

Reimpressão, com pequenas alterações, realizada com a coorde (show more)

O ETRSS9 é um sistema global de referência recomendado pela

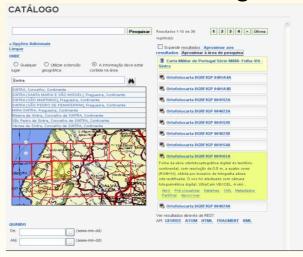






SNIG geoportal reformulation

Metadata catalog

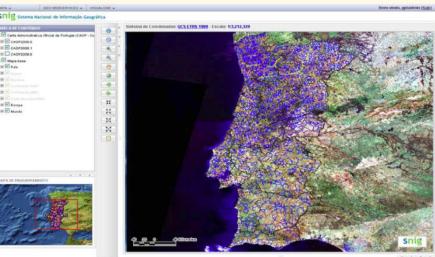


Searchable through the search interface geoportal or through external applications that use both types of services available in SNIG catalog, based on the REST Protocol and CSW

REST- REpresentational State Transfer

CSW - Catalog Service for Web

Maps viewer



Provides the possibility to display and overlay spatial data services, allowing the creation of new maps.

Data services must conform to the OGC specifications (WMS, WFS, WCS) and INSPIRE but SNIG geoportal only allows to add WMS.







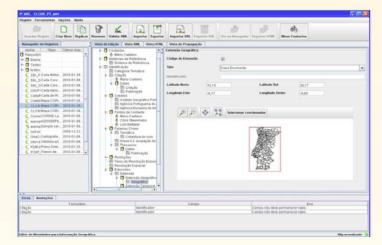
MIG Editor - tool for the production and

edition of metadata

based on the ISO 19115, 19119 e
 19139 standards, INSPIRE
 requirements and MIG profile

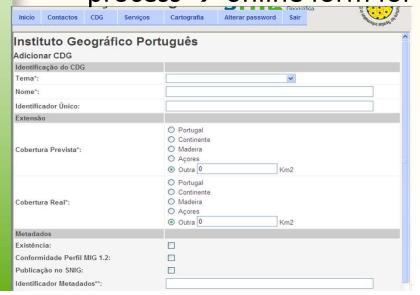
 Freeware, available on SourceForge site and open source

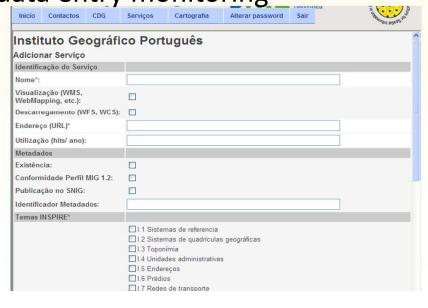
published three versions (2005, 2007 e 2010)



INSTITUTO GEOGRÁFICO

 Tool to support public authorities in the monitoring process → online form for data entry monitoring











Training actions on metadata and geowebservices



- Aims to prepare the technicians of the entities that produce or use geographic information for the creation and use of Geo Web Services.
- Were conducted internal training and external covering 66 trainees.



- Aims to prepare the technicians of entities that produce or use geographic information to create metadata according to current standards.
- At first it was performed on a regular basis, having been trained about 262 managers of metadata. Currently training is made at the request of the institutions.







Involvement in some european projects related to inspire



GIS4EU – Provision of interoperable datasets to open GI to EU communities



EURADIN – European Address Infrastructure



Humboldt - Development of a Framework for Data Harmonisation and Service Integration



NATURE-SDI*plus* - Best practice Network for European SDI in Nature Conservation





BRISEIDE: Bridging Services and Information for Europe





INSOLINATION IN EUROPO

ACTION PLAN \rightarrow 4. DISSEMINATION



site do INSPIRE PT

http://snig.igeo.pt/Inspire



informação sem fronteiras

início | histórico | registe-se | links

INSPIRE EU

O que é Temas Calendário Consultas Site INSPIRE Geoportal Disposições de execução Arquivo documental

INSPIRE PT

Quem é quem Enquadramento Legal Reuniões Acções de divulgação Monitorização e Relatórios Formação Perguntas frequentes

Destaques

O catálogo de metadados do INSPIRE-PT foi registado na infraestrutura europeia do INSPIRE com os metadados dos conjuntos de dados e serviços geográficos monitorizados em 2011. Este serviço de catálogo baseia-se em Deegree 3.1.1 CSW que implementa a especificação do INSPIRE para os serviços de pesquisa.

Já foi publicado, no Fórum INSPIRE, o Guia de apoio para a configuração e publicação de Serviços de Visualização INSPIRE-PT que visa apoiar a implementação e publicação de Serviços de Visualização INSPIRE em Portugal, segundo as regras de implementação do Open GeoSpatial Consortium e a Techinical Guidance INSPIRE versão 3.0 para os serviços de visualização.

Eventos



Realizou-se em Barcelona, de 2 a 4 de Novembro a segunda edição das Jornadas Ibéricas de Infra-estruturas de Dados Espaciais (JIIDE), dedicada ao tema "A interoperabilidade interadministrativa no âmbito da directiva Inspire".

A Equipa SNIG esteve presente com algumas comunicações.











ACTION PLAN \rightarrow 4. DISSEMINATION

- dissemination activities of INSPIRE at conferences, seminars and workshops
 - Raise awareness of entities to the concept and principles of INSPIRE
 - disseminate information on the Directive
 - disseminate achievements of European projects on Spatial Data Infrastructures that had the portuguese participation
 - knowledge associated with good national and international practices











- Clarification of the formal responsibilities of the data providers
- Metadata and geowebservices: enable easy access to geographic data
- Availability of normalised data and services
- Sharing of data and services between organisations
- Institutional cooperation: education and change in the culture of the organisations

