



PUBLIC POLICIES AND GEOGRAPHIC INFORMATION

Basis for a Strategy for Next Generation SDI

JIIDE 2013

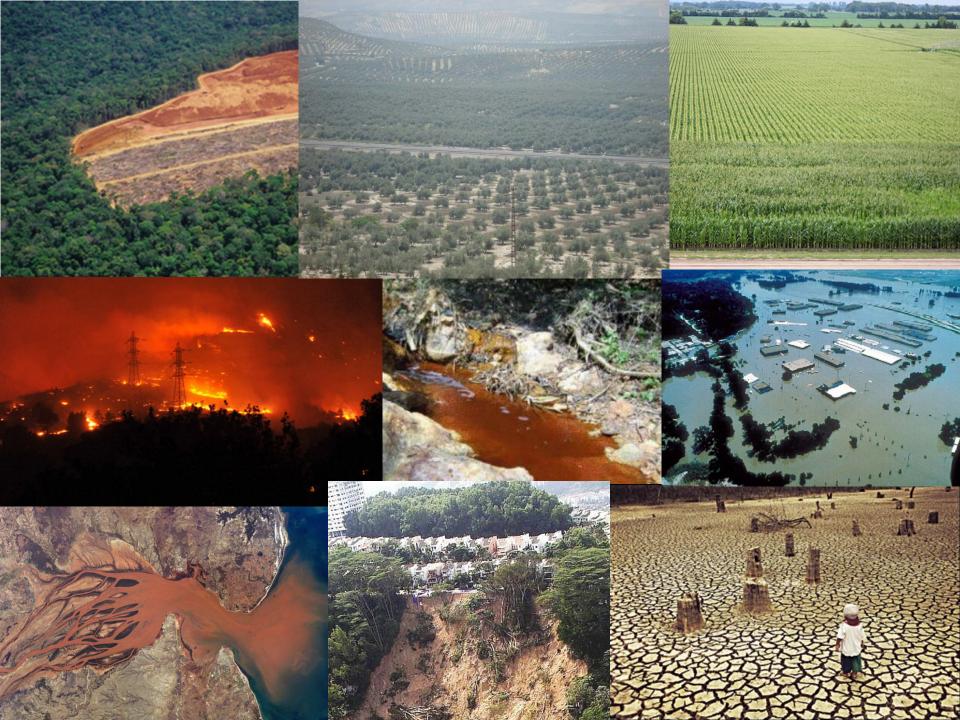
November 2013

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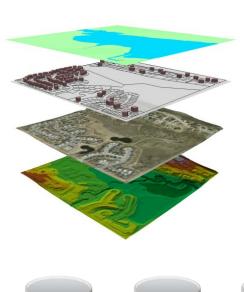
Territorial Management

- Several perspectives
- Need for "new Spatial Planning concept playing with a more active role in sectorial policies integration using shared territorial based visions" Ferrão (2011: 40)
- PNPOT National Programme for Spatial Planning Policy
 - Framework for different territorial management tools
 - Establish the need for them to be supported upon sound geographic data
- Keywords: Territory / Management / Integrated
- Good Management => Good information





Good Management => Good information







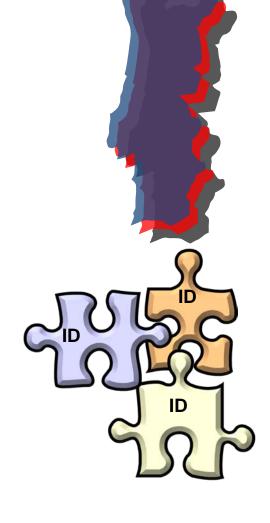


SDS₂



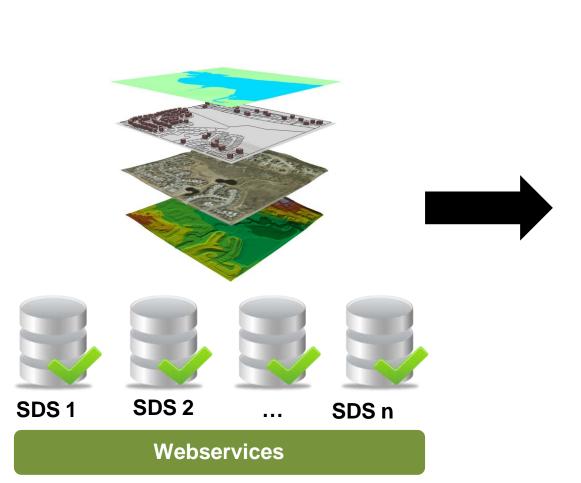


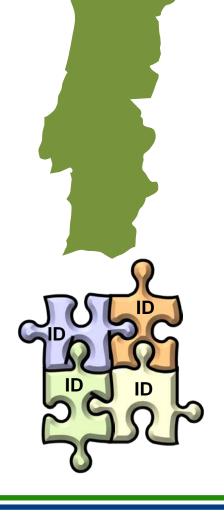
SDS_n





Good Management => Good information









Public Policies for Spatial Data

- Long tradition and several initiatives
- Implementation capacity
- Integration capacity
- Key domains
 - Geodesy
 - Cartography
 - Cadastre

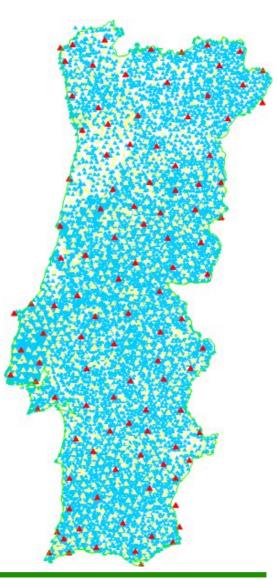


National Geodetic Network

- Mainland and Autonomous regions
- ± 9.000 geodetic points
- 42 GPS permanent stations



- GP 1st order
- △ GP 2nd order
- △ GP 3rd order





Centro de Estudos de Geografía e Planeamento Regional Faculdade de Ciências Socias e Humanas . Universidade Nova de Lisboa

RENEP and SERVIR

INFORMAÇÃO GEODÉSICA



RENEP - Rede Nacional de Estações Permanentes

A RENEP é um serviço público de geo-posicionamento prestado pelo IGP que, no âmbito das • Todos os dados são de distribuição suas atribuições de manutenção do Referencial Geodésico Nacional, disponibiliza aos gratuita.

utilizadores de equipamentos GPS dados que facultam a determinação de coordenadas • Para pós-processamento consulte o Arquivo RINEX.

geográficas com precisão melhor que 10 cm. É constituída por Estações GPS/GNSS, de observação contínua, que difundem observações • Para aceder ao serviço em tempo-real deve no Sistema de Referência ETRS89, para posicionamento em tempo-real, utilizando a técnica efectuar o registo como utilizador.

Detalhes da cobertura

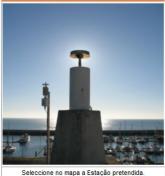
RTK, ou para pós-processamento com ficheiros RINEX.

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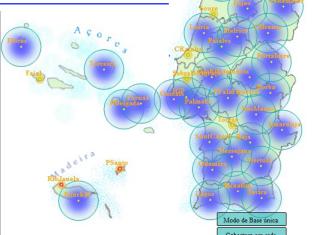
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3	4	5	6	7	8	9	
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17	<u>18</u>	19	20	21	22	23	
24	<u>25</u>	26	27	28	-	7-1	

Seleccione a EP e o dia pretendidos. Cada ficheiro respeita ao período de 1 hora com intervalo entre observações de 5

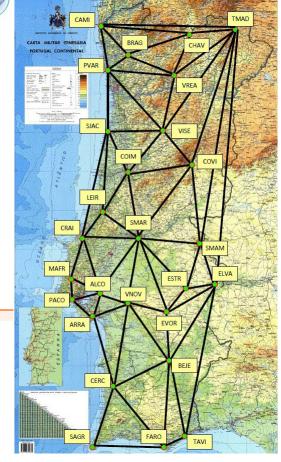
Para informações adicionais contacte a Divisão de Geodesia



A RENEP é um sistema cooperativo. Se possui ou vai instalar uma Estação GPS, junte-se a nós.



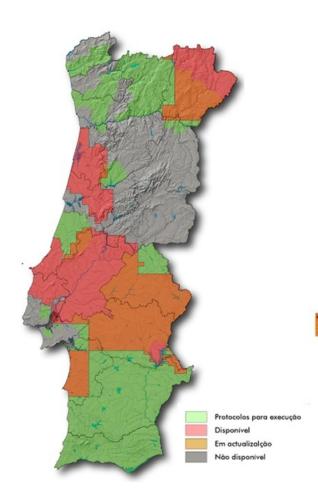
Entidades Participantes:



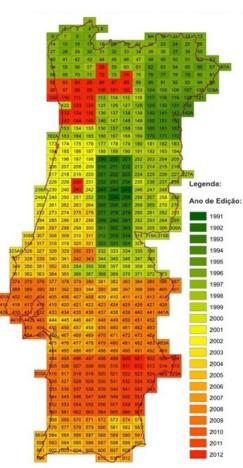




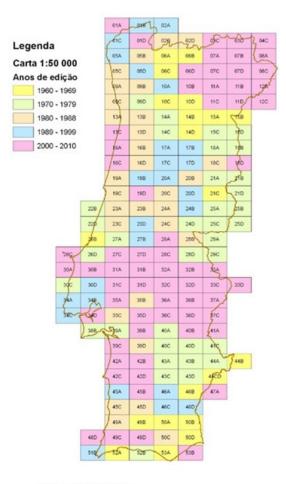
Cartography



Escala 1:10 000 Instituto Geográfico Português www.igeo.pt



Escala 1:25 000 Instituto Geográfico do Exército www.igeoe.pt



Escala 1:50 000 Instituto Geográfico Português www.igeo.pt





Cartography

- Some problems
 - Temporal gap
 - Contents missing
 - Homologation process
- Some solutions
 - Orthophoto imagery
 - Flexible dataset items catalogue
 - Collaborative process CAOP



Cartography

CARTA ADMINISTRATIVA OFICIAL DE PORTUGAL



CAOP em vigor (versão 2013)

Alterações à CAOP

Legislação

Informações úteis

Perguntas frequentes

Download das versões anteriores da CAOP

- CAOP 2012.1
- CAOP 2012.0
- CAOP 2011
- CAOP 2010
- CAOP 2009.0
- CAOP 2008.1
- CAOP 2008.0
- CAOP V6.0
- CAOP V5.0
- CAOP V4.0
- CAOP V3.0
- CAOP V2.0
- 010140
- CAO V1.0

Carta Administrativa Oficial de Portugal

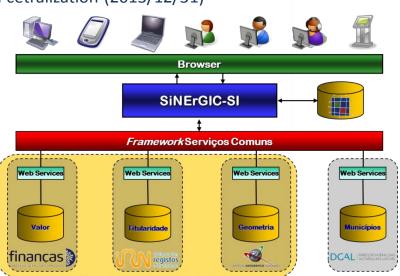
A Carta Administrativa Oficial de Portugal (CAOP) regista o estado da delimitação e demarcação das circunscrições administrativas do País.A Assembleia da República é o organismo com competência, reconhecida por lei, para alterar e fixar limites administrativos. A Direção-Geral do Território (DGT) é responsável pela execução e manutenção da CAOP, de acordo com o Despacho conjunto nº 542/99, de 31/05/1999, publicado no Diário da República nº 156 de 07/07/1999.

Sugestões | © IGP 2012

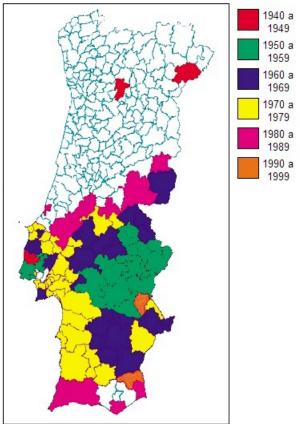


Cadastre

- CGPR
 - 50% surface ≠ 50% data
- SiNErGIC
 - Information System
 - Execution plan
- RCM n.º 56/2012, 5 de Julho
 - CTGIC
 - Data cetralization (2013/12/31)















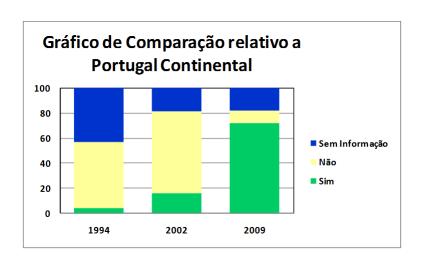
Public Policies for Data Management and Exploration Tools

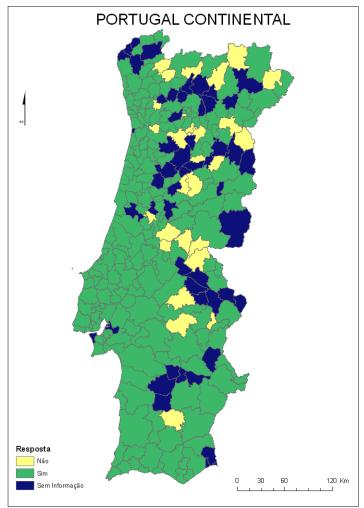
- Early adopter
 - -80's
- Innovation
- Initiative
- Key domains
 - Geographic Information Systems (GIS)
 - Spatial Data Infrastructures (SDI)



Geographic Information Systems

- Wide utilization
 - Municipalities
 - CIM
 - Regional Administration
 - Central Administration







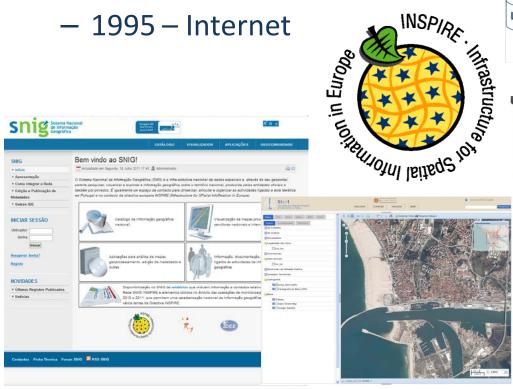


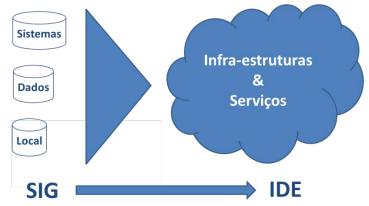
Spatial Data Infrastructures

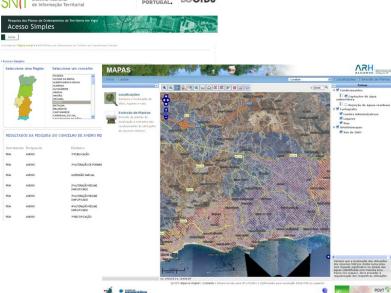
Pionneer country:

- 1990 - SNIG

- 1995 - Internet











Contributions for a Public Policy for Integrated Management of Spatial Data

- Formal
 - Conselho Coordenador de Cartografia
 - Coordination council of public bodies legally mandated for cartographic production
 - Conselho de Orientação do SNIG
 - Strategic Coordination
 - Wide scope
- Operational
 - Data sets, Services and SDI
 - Public bodies, Public participation and Business Models



Data sets, Services and SDI

- INSPIRE
- Cloud computing
- Spatial data Infrastructures
- Static representation versus dinamic
 - Object catalogue
 - Users needsand specs
- "Old cartography" is dead, long live the "new geography"!





- Building and exploring a infrastructure that increases territorial knowledge is mandatory for development
 - "Insufficient technical databases for spatial planning, namely in what considers resources spatial data, certified cartography, cadastral data and online actual plans" (MAOTDR, 2007: 107)
 - Ferrão (2011:115) refers that "more and better information, knowledge, organization and innovative support technologies" are key components that a modern spatial planning public policy demands
 - Inline with the perspective that "good territorial management needs availability and wide dissemination of information and updated knowledge of existing resources, dynamics and perspectives for national, regional e local scales" (MAOTDR, 2007: 221)



- There is no sense for the inexistence of:
 - a better articulation of public investment, assuring the existence of high quality strategic national geographic data sets and their continuous actualization
 - a higher decentralization of the productive process directly involving municipalities in the creation of basic vector geographic data
 - improved access to strategic geographic datasets and services that promotes their effective use by public administration, added value creation and support to research and teaching
 - a better integration of citizens public participation



State role:

- Organization
- Collaborative environment
- Key themes (INSPIRE Directive):
 - Coordinate reference systems
 - Geographical grid systems
 - Administrative units
 - Addresses
 - Geographical names
 - Cadastral parcels
 - Orthoimagery
 - Elevation
 - Hidrography
 - Transport networks
 - Land use
 - ...

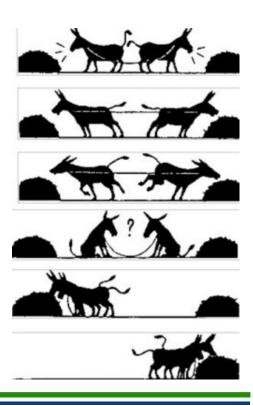


- New paradigms
 - Volunteered Geographic Information (VGI) | Goodchild (2007)
- New business models
 - Commercial and Cost-recovery decline
 - Directive 2003/98/CE Public Sector Information
 - Directive 2007/2/CE INSPIRE
 - UK Location Strategy 2008
 - DK e-Government Strategy 2013-2016
 - IS Open Geographic Data 2013
- http://www.dados.gov.pt
 - Geographic data missing





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