Land and Marine planning and management using Sentinel data Small oceanic islands as a model





28 September 2015, from 8.00 to 18.00



The role of Geographic Information Infrastructures on supporting management and availability of information: the case of the Regional Secretariat for Agriculture and Environment

Ana Moreira & Joana Pombo



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Fields of expertise of SRAA







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The role of Spatial Data Infrastructures	
Data management	Normalization
Multiple users	Transversality
Support to decision	Integration
Access and diffusion of information	Data Sharing





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SRAA Spatial Data Infrastructure



ARCSDE GDB.

> CARTOVECTORIAL

> PLANOS

> DADOS MONITO

> DIRETIVA HABITATS

> CARTORASTER

> PLANOS RASTER

> ORTOFOTOS

> SATELITE (Landsat 7)

+ Intranet component

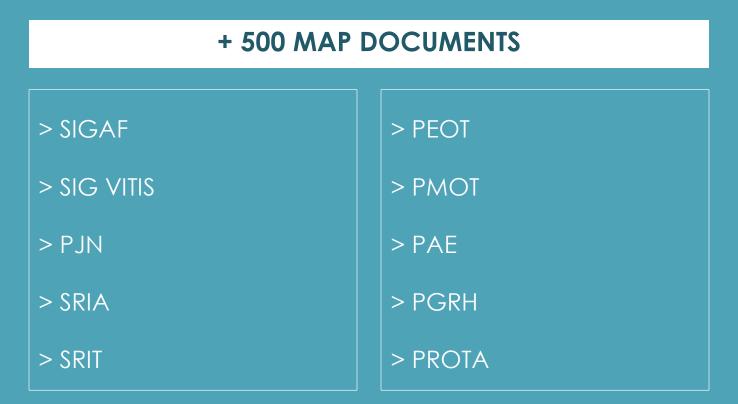


FILE GDB.



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SRAA Spatial Data Infrastructure



+ Intranet component



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SRAA Spatial Data Infrastructure

Internet component



Bem-vindo ao Portal de Informação Geográfica da Secretaria Regional da Agricultura e Ambiente

Este portal tem por objectivo proporcionar, a todos os cidadãos e entidades, públicas ou privadas, a possibilidade de pesquisar, visualizar e explorar informação geográfica sobre o arquipélago dos Açores. É também um espaço informativo através do qual se disponibiliza o acesso aos vários planos de conservação da natureza, ordenamento do território e de recursos hídricos em vigor na Região e à informação sobre a sua aplicação e monitorização.

Com esta iniciativa a Secretaria Regional da Agricultura e Ambiente aposta no direito do acesso à informação e na transparência dos processos de decisão, contribuindo para simplificar procedimentos e melhorar a eficiência dos serviços.

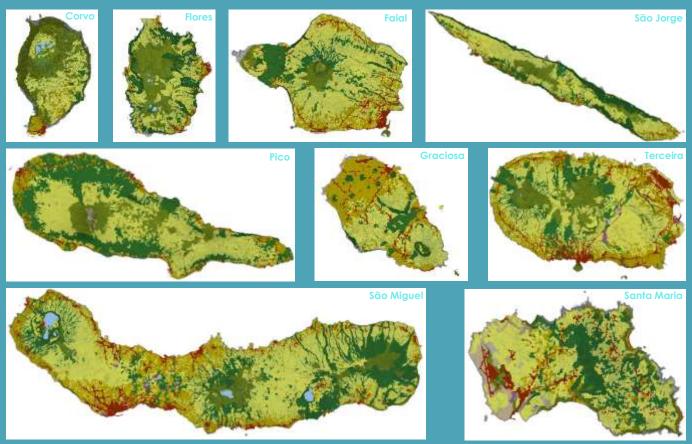
http://sig-sraa.azores.gov.pt



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Use of Earth observation data

Azores Land Cover Map | 2007



Regional Secretariat for Agriculture and Environment | Ponta Delgada | 28 September 2015

Governo dos Açores

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Use of Earth observation data

Azores Land Cover Map | 2007

> Landsat 7 satellite images

Geometric resolution: 30 m

Dates: 2000 and 2003

Sources: USGS & GLCF





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Use of Earth observation data

Azores Land Cover Map | 2007

- > Complementar spatial data
- Aerial images
- Elevation data
- Road Network, Buildings

Total investment: € 38.985,00



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Use of Earth observation data

Sentinel Data

> Benefits

Free access(?) / low cost access(?)

Uptaded and accurated data since 2014(1° satellite - Sentinel 1,

launched in april, 2014)

Diversity of data collected (land, ocean and atmosferic monitoring)

Multiple domains (environment, agriculture, forests, fisheries, health,

transportation, emergency response, climate changes, ...)





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Use of Earth observation data

Sentinel Data

> Disadvantages

Difficult access to regional and national level (lack of information and

coordination between entities)

Data comparison impossible prior to 2014



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Use of Earth observation data

Sentinel Data

- > Significance in the context of SRAA
- Access to earth observation data periodical updated (more acurate
- data and the possibility of data comparison between two or more
- dates)
- Update of thematic cartography produced by SRAA (spatial plans, land
- use and cover maps,...)
- Production of inexistent thematic cartography under the INSPIRE scope





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Thank you for attending

Governo dos Açores