

Instituto Geográfico Português




Provision and use of imagery from mapping agencies to global information providers – exploring the implications

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MINISTÉRIO DO AMBIENTE, DO ORDENAMENTO DO TERRITÓRIO E DO DESENVOLVIMENTO REGIONAL



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Overview

- ❖ Portugal
- ❖ Instituto Geográfico Português
- ❖ Products
- ❖ Imagery
- ❖ Conclusion

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- ❖ Decree-Law nº133/2007, April 27
 - National authority for Geodesy, Cartography and Cadastre
 - National policy for geographic information
- ❖ NMCS DIA
 - Mapping
 - Cadastre
 - Spatial Data Infrastructure
- ❖ Research
- ❖ Training

The figure shows a photograph of a large, multi-story building with many windows, which is the headquarters of the Instituto Geográfico Português. The building is light-colored with a red-tiled roof. The text 'Instituto Geográfico Português' is written in large blue letters. The list of activities is presented in a list with blue diamond symbols. The background of the text is a faded image of the building. The text is framed by a blue border with the text 'INSTITUTO GEOGRÁFICO PORTUGUÊS' at the top and bottom.



Instituto Geográfico Português

❖ Human Resources

- 300 employees
 - 30% university degree
 - 46% other technicians
 - 24% administrative

❖ Financial Resources

- Overall Budget: 10 M€
 - Human resources: 60%
 - Investment: 20%
 - Revenue: 20%



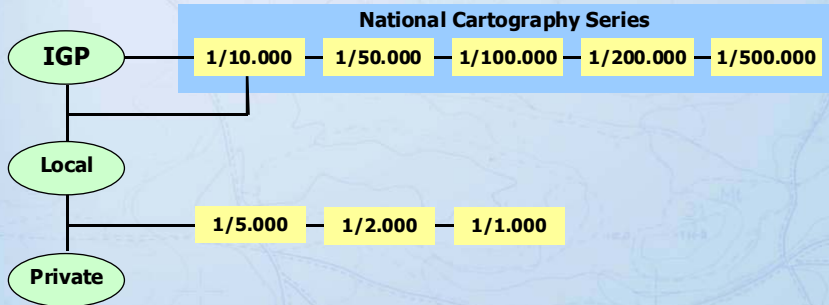
Products

- ❖ Geodetic data
- ❖ Elevation models
- ❖ Topographic cartography
- ❖ Cadastral data
- ❖ Thematic cartography



Products

❖ Topographic cartography



Products

❖ Topographic cartography

- 1/500.000 – 1 map | Anual update | 3.000€
- 1/200.000 – 8 maps | 5-10 years | 2.000€ per map
- 1/100.000 – 53 maps | 5-10 years | 1.200€ per map
- 1/50.000 – 175 maps | 5-10 years | 5.000€ per map

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Strategy & Imagery

- ❖ **Objectives**
 - Provide high quality context information and support for data acquisition
 - Promote de dissemination and usage of geographic information
 - Improve Geographic Information market growth
- ❖ **Tools**
 - IGP visualization tool 
 - NSDI support and development 
 - New products (digital orthophoto)
 - Agreements with major international and national players

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Strategy & Imagery

- ❖ **Visualisation**
- ❖ **Webservices**
 - OGC
 - Topographic
 - Thematic

mapas.igeo.pt



The screenshot shows a web browser window titled 'Visualizador IGP - Windows Internet Explorer' displaying the 'Informação Geográfica do IGP' application. The main map area shows an aerial view of a city. On the right, there is a legend titled 'Legenda' with sections for 'Carta Administrativa' (municipalities, districts), 'Cartografia base' (Ortho), and 'Cartografia temática' (CRIF layers for various municipalities like Aveiro, Braga, Bragança, Coimbra, Guarda, etc.). Below the map, there are coordinates (X: -93191, Y: -107493), a scale bar (0 to 0,05 km), and a 'Redraw Map' button. The browser's status bar at the bottom shows 'Concluído' and 'Internet'.

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Imagery

❖ New Products

- 50 cm digital ortho every odd year
- 10 cm digital ortho of main urban areas every even year
- High accuracy
- Visibility in shaded areas



Conclusions

- ❖ High quality & useful data
- ❖ Low cost
- ❖ Easily updated
- ❖ Increasing demand
- ❖ New ideas on the way



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