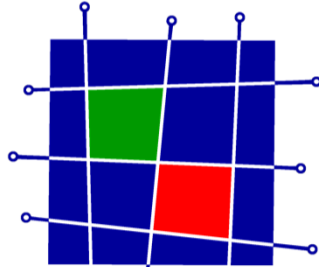


11 – 16 April 2010

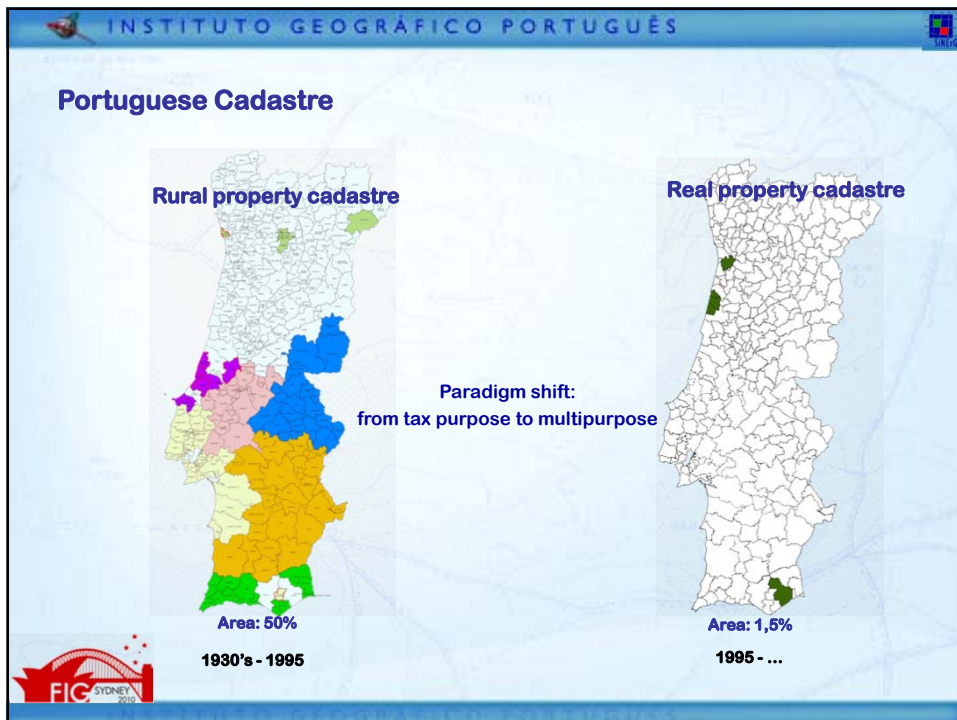


# SiNErGIC

## A new approach to cadastre

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PORTUGAL

[www.fig2010.com](http://www.fig2010.com)



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# Challenge

Keep executing cadastral maps



Acquiring and managing cadastral data with a global purpose, involving it in the legal real property market:



- **Who** needs this information?
- **How** is this information needed?
- **When** is this information needed?

Looking for integrated, articulated and add-value solutions

FIG SYDNEY 2010

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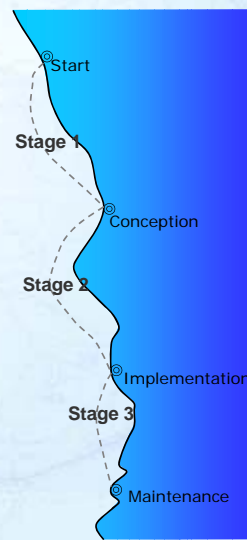
## Promote Unique Parcel Identification

Legal Framework definition

Cadastral Data Acquisition Plan

Information System



Start

Stage 1

Conception

Stage 2

Implementation

Stage 3

Maintenance

FIG SYDNEY 2010

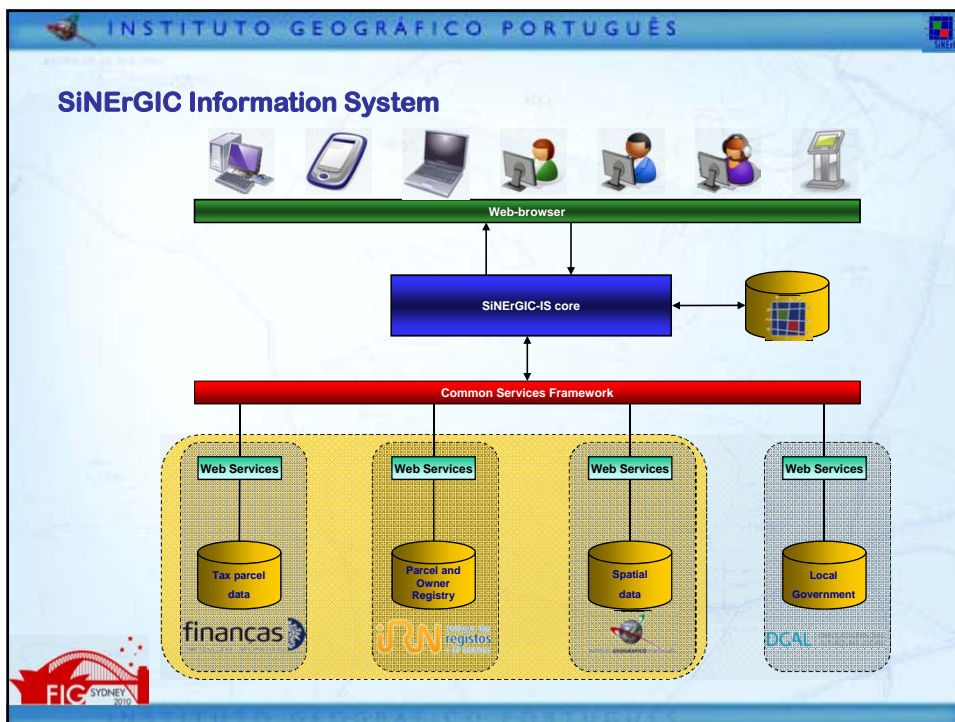
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## Real Property Cadastre

**Add Value? When is permanently updated**  
**Assumption? Part of the legal real property market and a tool for planning, management and decision making**

<p><u>Values</u></p> <ul style="list-style-type: none"> <li>Institutional cooperation and creation of synergies</li> <li>Subsidiarity</li> <li>Communication</li> <li>Transparency</li> <li>Quality</li> <li>Liability</li> </ul>	<p><u>Agents</u></p> <ul style="list-style-type: none"> <li>Law Professionals</li> <li>Registry Professionals</li> <li>IT Professionals</li> <li>Decision makers</li> <li>Local and Central Government</li> <li>Property owners</li> <li>...</li> </ul>	<p><u>Legal Background</u></p> <ul style="list-style-type: none"> <li>Real Property Registry</li> <li>Parcel Evaluation</li> <li>Parcel Taxes</li> <li>Deeds</li> </ul>	<p><u>Technology Background</u></p> <ul style="list-style-type: none"> <li>Good Practices</li> <li>SOA Architecture</li> <li>Collaborative Plataforms</li> <li>Real Property Information System</li> <li>Tax Property Information System</li> <li>Local Government Information Systems</li> </ul>
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FIG SYDNEY 2010



## SiNERGIC Information System

### Principal Assumptions:

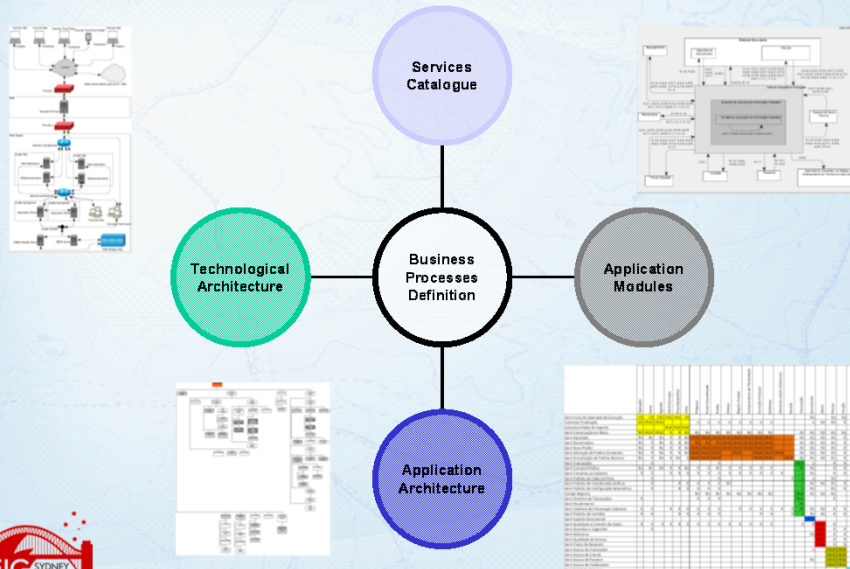
- Any owner who pretends to change spatially its parcel may do it by internet or in a one-stop spot
- Public Administration is responsible to execute and finish the process through interoperability between SiNERGIC strategical stakeholders

### Potential Benefits:

- Automatic trigger of parcels spatial change related processes
- Participation of a licensed cadastral expert surveyor
- increase transparency in legal real property market
- reduce multiple forms fill to a single digital form
- no documents duplication by multiple public services
- no physical documents transmission between Public Administration



## SiNERGIC Information System - Conception



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## Cadastral Data Specification





<b>Reference System</b>	PT-TM 06 / ETRS89	
<b>Data Completeness</b>	OMISSÃO SOBREPOSIÇÃO	
<b>Logical Consistency</b>	 LACUNA	
<b>Conceptual Consistency</b>	ObjectoCadastral e Declaracao	
<b>Positional Quality</b>	Cadastral Points The Cadastral Points coordinates must present a RMS less or equal to 40 cm	
<b>Application Schema</b>		

FIG SYDNEY 2010

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## Cadastral Data Acquisition Process















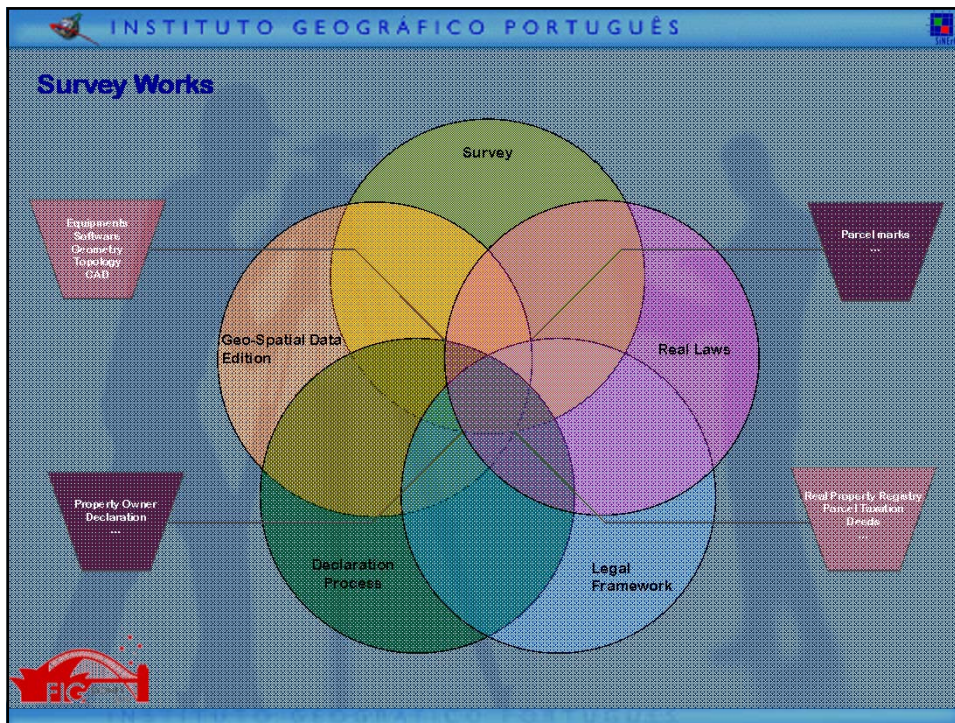
<b>Mapping Support Acquisition</b>				
Orthophotos Flight 	AT 	DTM 	Orthophoto Generation 	Toponymy 
↓				
<b>Cadastral Data Acquisition</b>				
Attendance Office 	Owners Declaration 	Parcel Survey Identification 	Survey 	
↓				
<b>Public Consultation</b>				
Public Consultation Offices 	Consultation 	Complaints Analysis and Resolution 		

FIG SYDNEY 2010



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### Future Actions

Cadastral Business Model Definition

Cadastral Acquisition Operations Nation-wide

SiNERGIC-IS implementation completed

Equity

Transparency

Citizenship

SiNERGIC

New challenges  
New demands

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