Instituto Geográfico Português

INTERNATIONAL FEDERATION OF SURVEYORS
FEDERATION INTERNATIONALE DES GEOMETRES
INTERNATIONALE VEREINIGUNG
DER VERMESSUNGSINGENIEURE

FIG

Land Administration
Devolpments in Portugal

www.igeo.pt

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ACTUAL SITUATION

Rural Property Cadastre

2006

1995

- 132 municipalities

- 1.935.000 rustic parcels

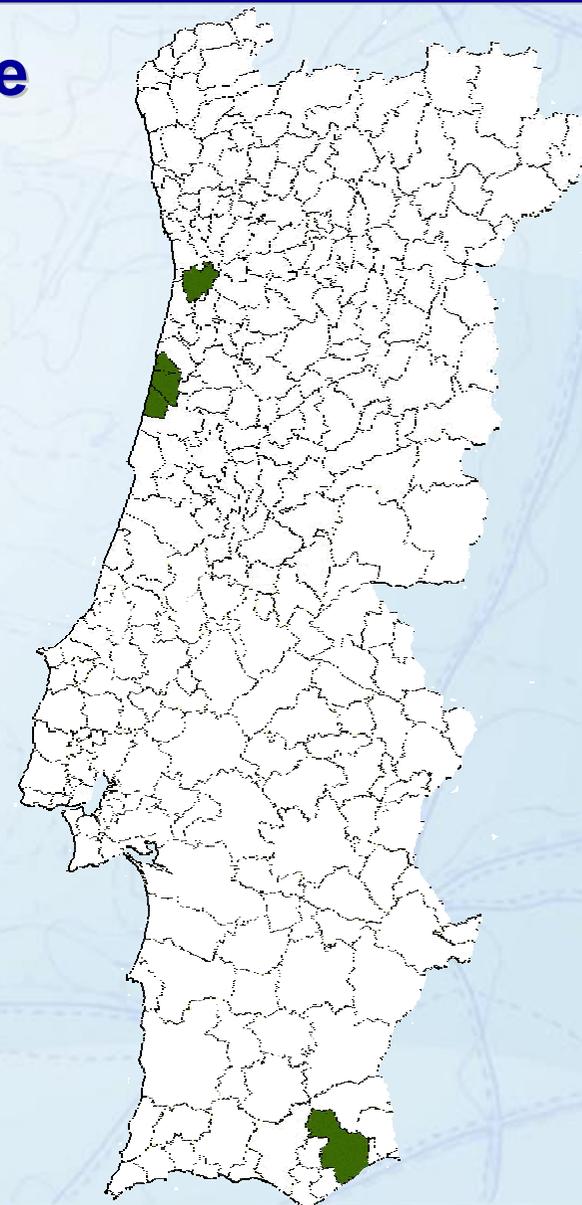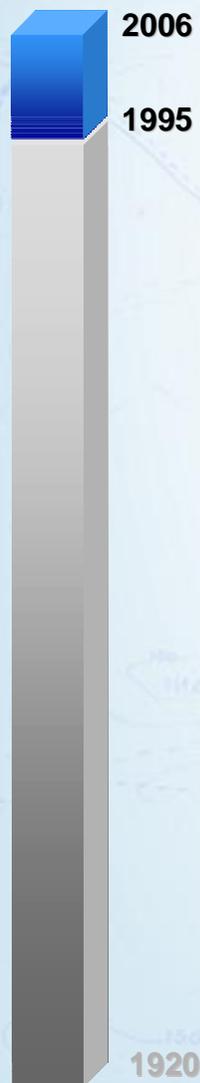- 4 890 000 ha (about 40% of Portugal)

- 23 798 cadastral map sheets

Azores

Oriental Group

1920

	Sede - Lisboa
	DRLVT - Santarém
	DRAlentejo - Beja
	DRAlgarve – Faro
	DRC – Castelo Branco
	DRN – Mirandela
	EDDRC – Coimbra
	DRAçores
	DRGC Madeira

Madeira

FIG Comission 7 AM – 14 March 2006
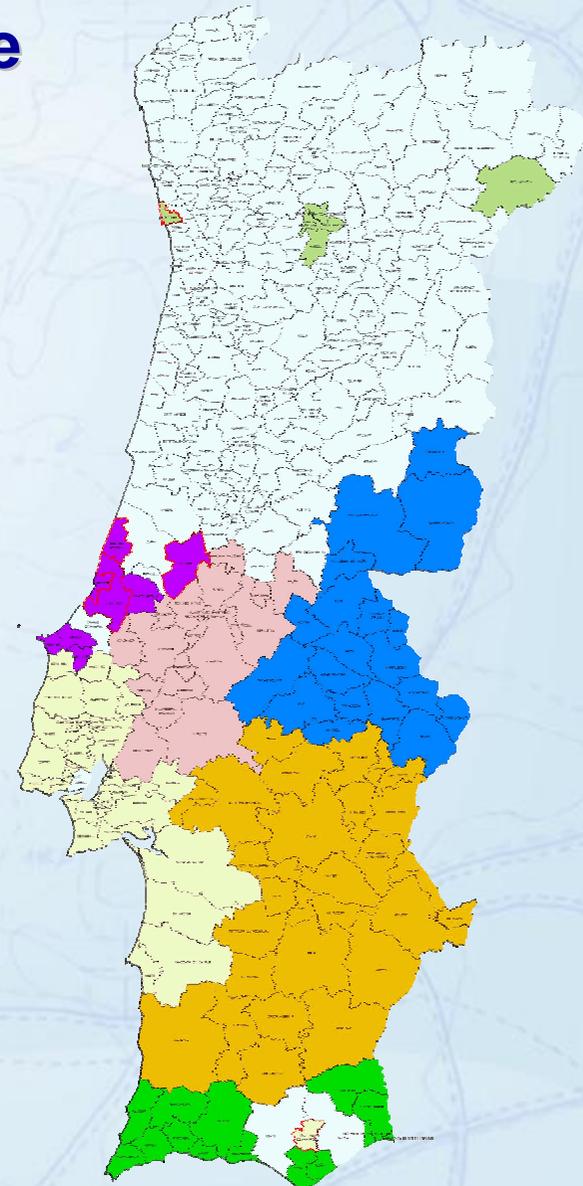
CADASTRO PREDIAL

Real Property Cadastre

2006

1995

1920

FIG Comission 7 AM – 14 March 2006
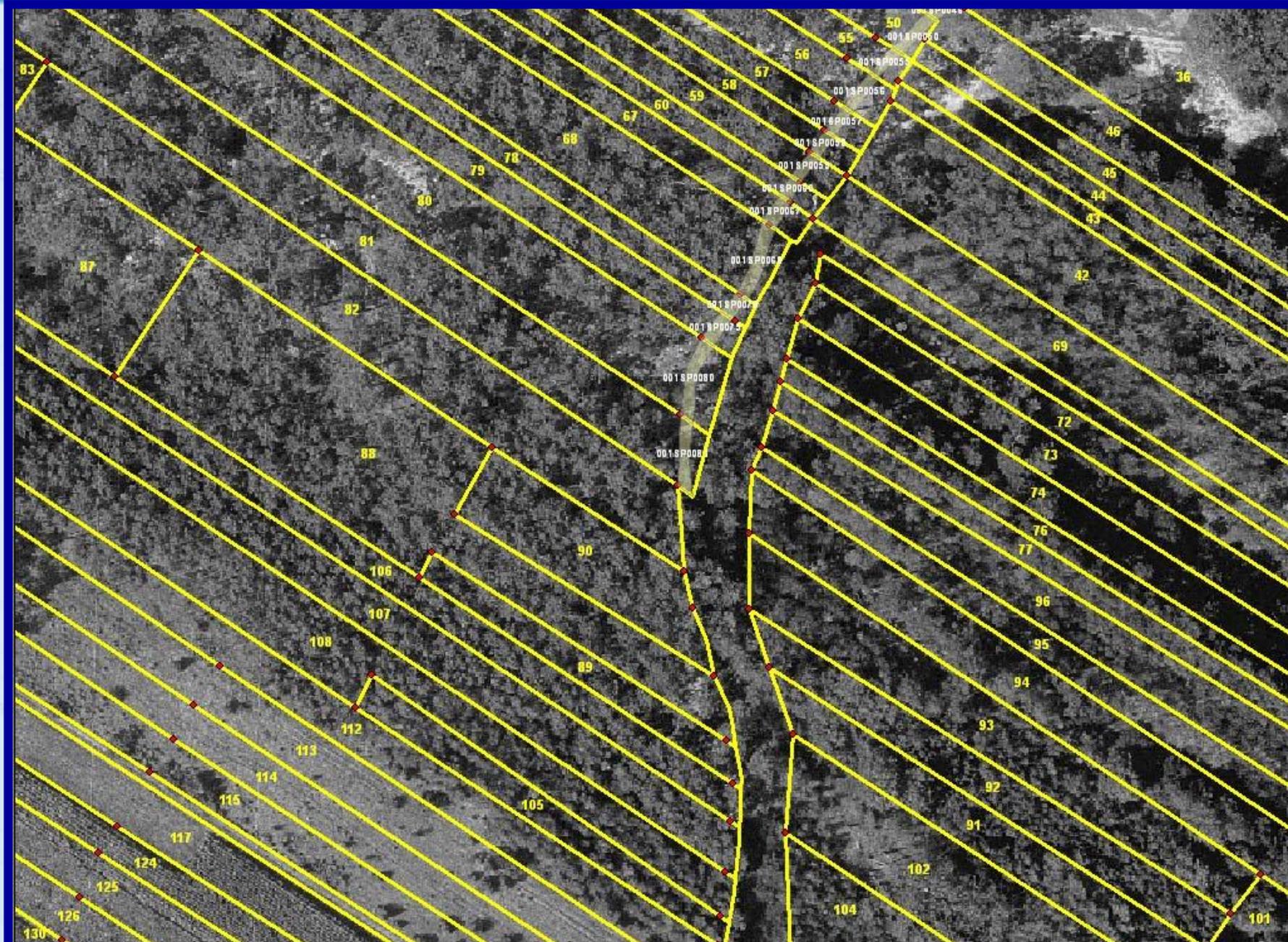
ACTUAL SITUATION

Inexistence of a unique real property information

Thematic Cadastres:

• **Agriculture management**

• **Representation of ocupation parcels**

• **Parcel indentification made only with photo-interpretation**

• **Helpfull for a future identification of real property**

Other pontual projects:

• **Identify real property parcels for land consolidation, road and other infrastructures**

• **No common rules**

• **Helpfull for a future identification of real property**

ACTUAL SITUATION

Conclusions

Legal and Technical Problems

• No harmony on parcel definition

• No connection between National or Local Agencies

• Cadastral surveying procedures

• Owner's data

• Lack of data definition

• Cadastral update procedures

• No multifunctionality and interoperability

• Almost no use of IT

SiNErGIC

RESOLUTION COUNCIL OF MINISTERS – 23 March 2006

Creation of "National System for Exploration and Management of Cadastral Information"

Promote the basis for a national cadastral information system in order to guarantee the knowledge of real property parcels and owners and establish unique identification of real property parcels (code number) to be used by the Public Administration.

Goals:
(i) Join in one system all cadastral data;
(ii) On-line cadastral information and use of e-governement procedures;
(iii) Guarantee the multifunctionality and interoperability between partners and theirs databases;
(iv) Integrate in the real property registery cadastral information;
(v) Guarantee the privacy and security of data;
(vi) Equal access to information for all owners;

Working Groups:
- Legal framework;
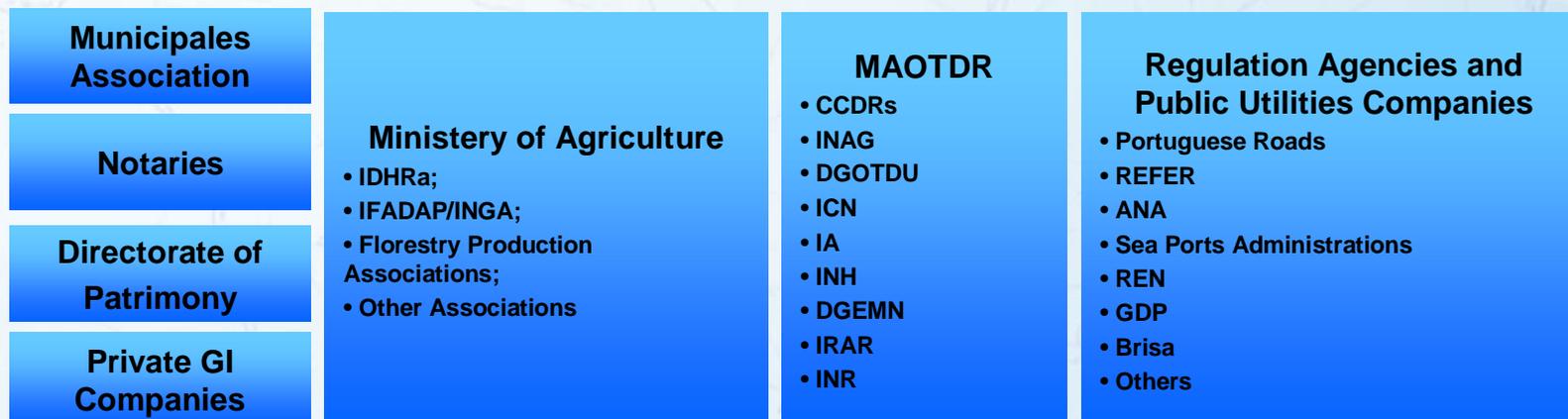- Cadastral Information System;
- Forestry Information "Sub-system"

Partners

SiNErGIC

Strategical

IGP	Directorate of Registers and Notaries	Directorate of Taxes	Local Administration

Indirect

Municipales Association

Notaries

Directorate of Patrimony

Private GI Companies

Ministery of Agriculture
• IDHRa;
• IFADAP/INGA;
• Florestry Production Associations;
• Other Associations

MAOTDR
• CCDRs
• INAG
• DGOTDU
• ICN
• IA
• INH
• DGEMN
• IRAR
• INR

Regulation Agencies and Public Utilities Companies
• Portuguese Roads
• REFER
• ANA
• Sea Ports Administrations
• REN
• GDP
• Brisa
• Others

Users

• Owners
• Citizens
• Banks
• Ensurance Companies
• Real Estate Promotors
• Industry and Trading Companies
• Regional Devolpment Agencies

• Security and Emergency Services
• Comunication Companies
• Engineering Companies
• Constructors
• Lawyers
• Auditors
• ...

SiNErGIC

Action Plan

- **New legal framework**

- **Resources renewal**

- **Conception and implementation IT System**

- **Pilot Area**

LEGAL FRAMEWORK

Cadastral Survey	Cadastral Conservation	Cadastral Information Management
License for Private Survey Companies	License for Private Survey	Fiscalization Procedures

Presuppositions

- Represent real property structure

- Create institucional agreements

- Focus resources

- Give juridical value to cadastral data

- Give sustaintability to the real property registery

- Avoid duplication

- Regulated and transparent procedures

- Centralized management

- Decentralized cadastral surveying

- More Private sector cooperation

RESOURCES RENEWAL

Goals

- **Human**

- **Technology**

- **Logistical (Network of GNSS Continuous Observation Stations)**

Presuppositions

• **integrate cadastral contents**

• **optimize management procedures**

• **interoperable and multifunctional**

• **increase services efficiency**

• **scalability**

• **increase data security and personal data privacy**
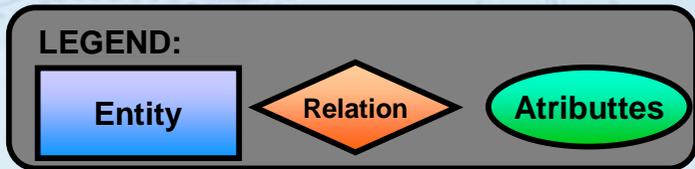
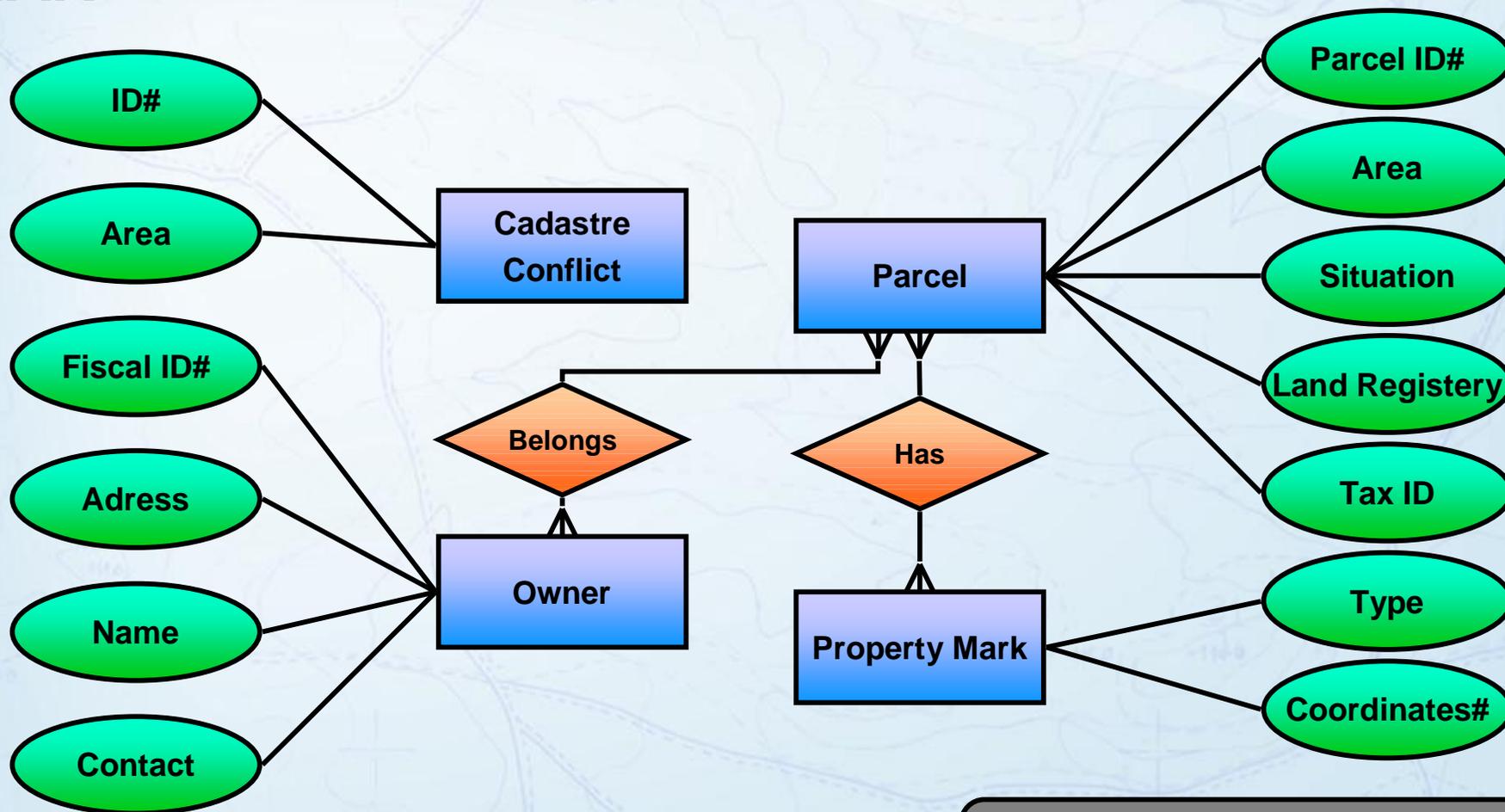• **IT platform citizen oriented**
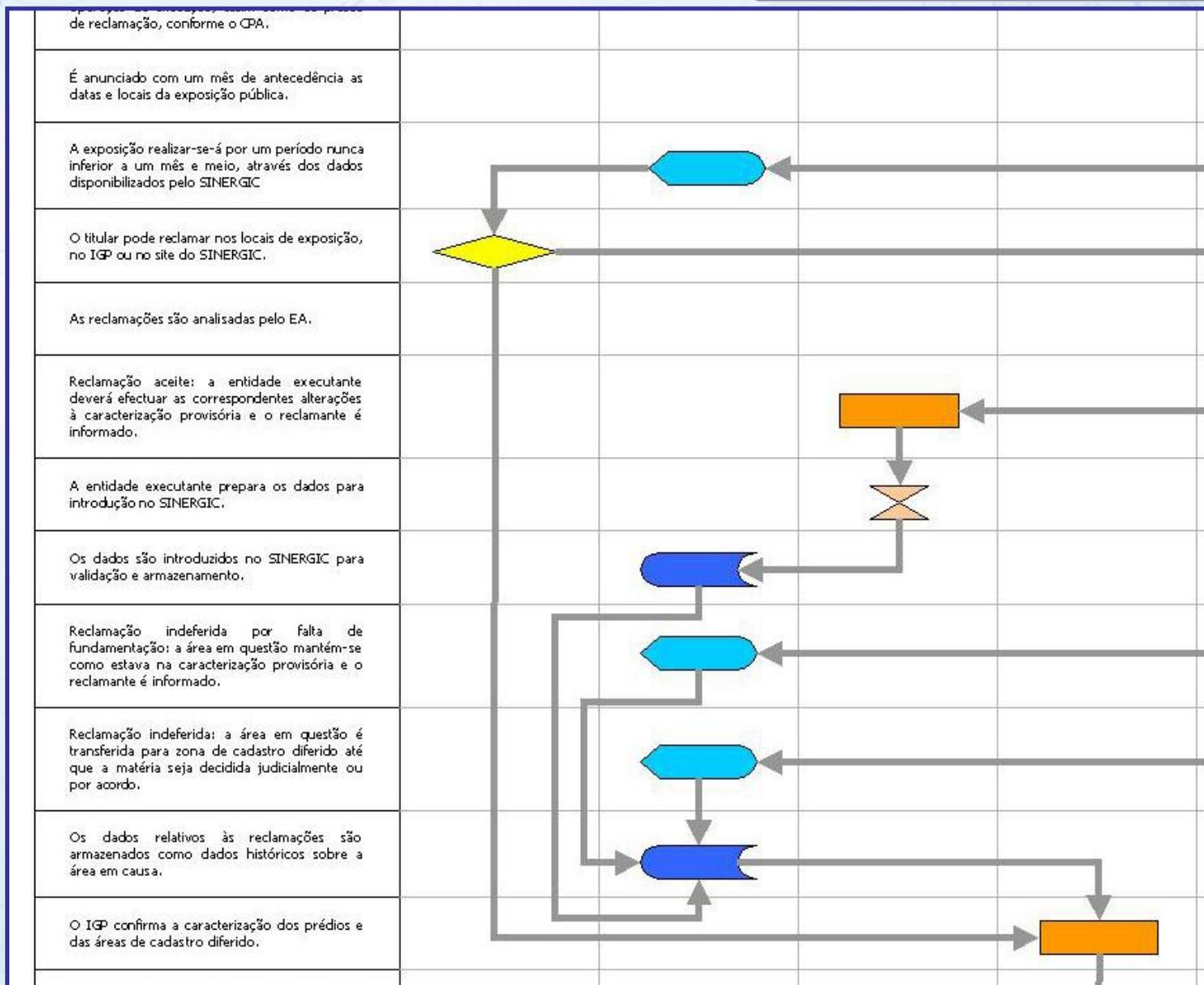
• **Publicize cadastral data**

CADASTRAL SYSTEM

System Architecture

CADASTRAL SYSTEM

EAR

LEGEND:

| Entity | Relation | Atributtes |
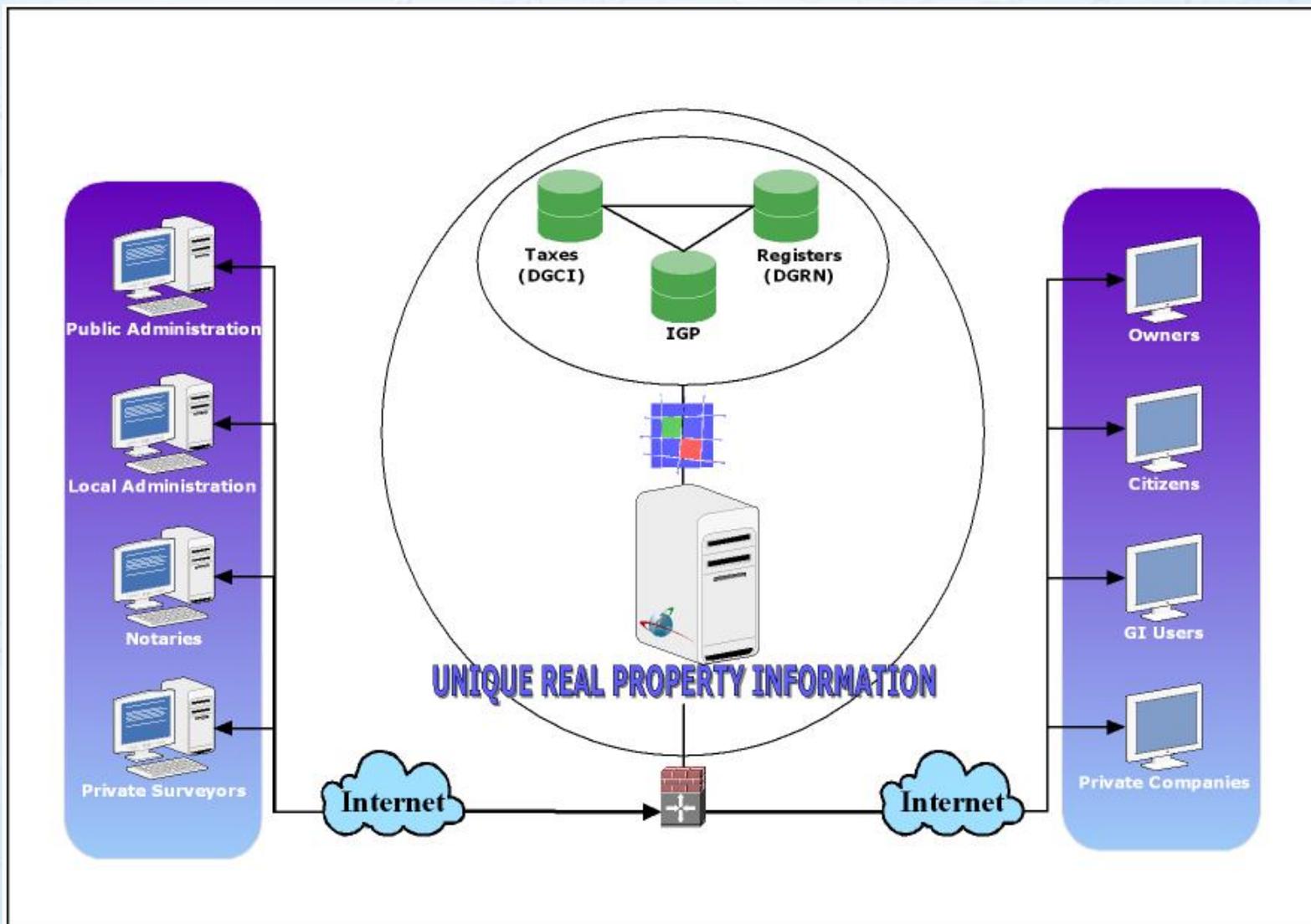
CADASTRAL SYSTEM

Cadastral Survey Process

Procedure 1.3.2. – Parcel's union

Updating Cadastral Procedure

Owner	SINERGIC

Parcels union
Access to SINERGIC to begin procedure
System procedures for transaction process and Parcel ID block
Procedure suspended until all the owners of the parcels involved take the same steps
Generate temporary Parcel ID
Store new data
Keep old data on the system until the check from the Registry and Financial Services
Is the procedure checked?
New data becomes official (Parcel ID); old data is kept as historical data
Changed data goes on-line and the owners are informed
Old data is kept as official; introduced data is stored; temporary ID is eliminated
Old data is kept on-line and the owner(s) informed of the refusal reasons
End of the procedure

Start

Y   N

End

PILOT-PROJECT
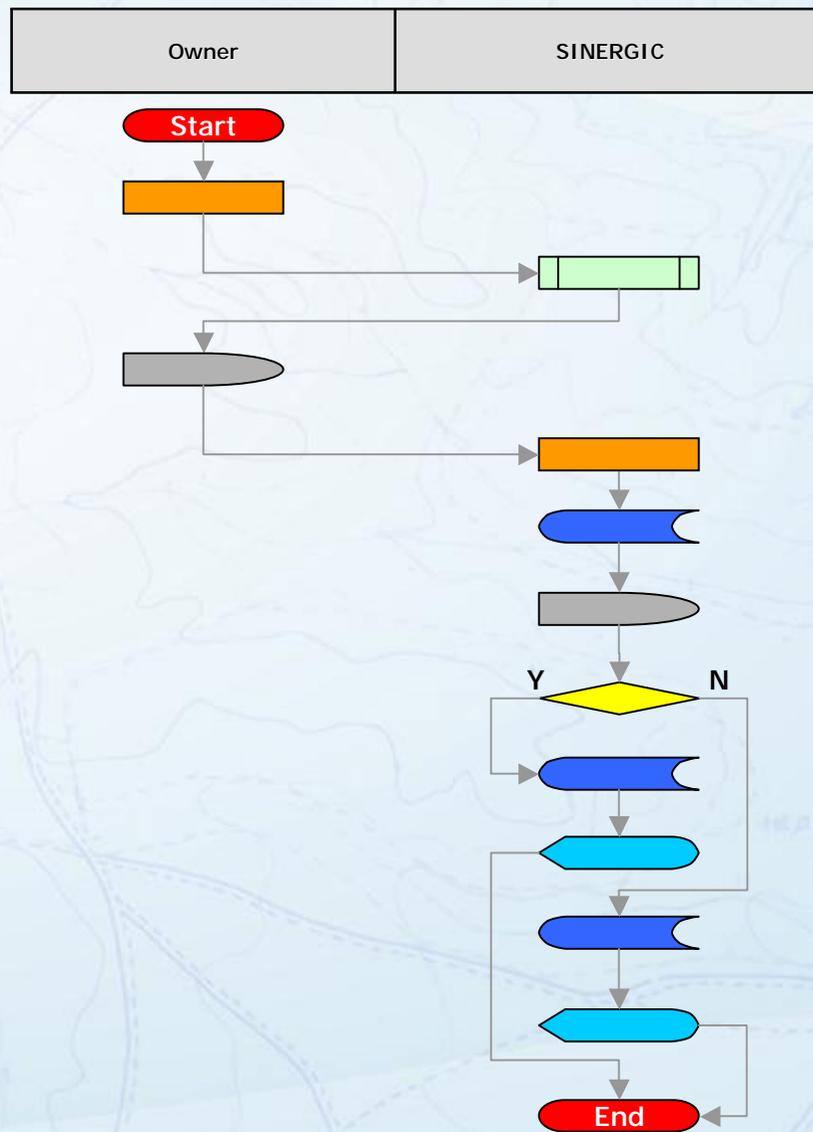
Selection criteria:

Ø doesn't have any cadastral data

Ø has very fragmented real property parcels

Ø afected by florestry fires

Ø cartography (raster or vector)

Ø Digitalization of the Real Property Registery is concluded

Ø area < 2 500 ha
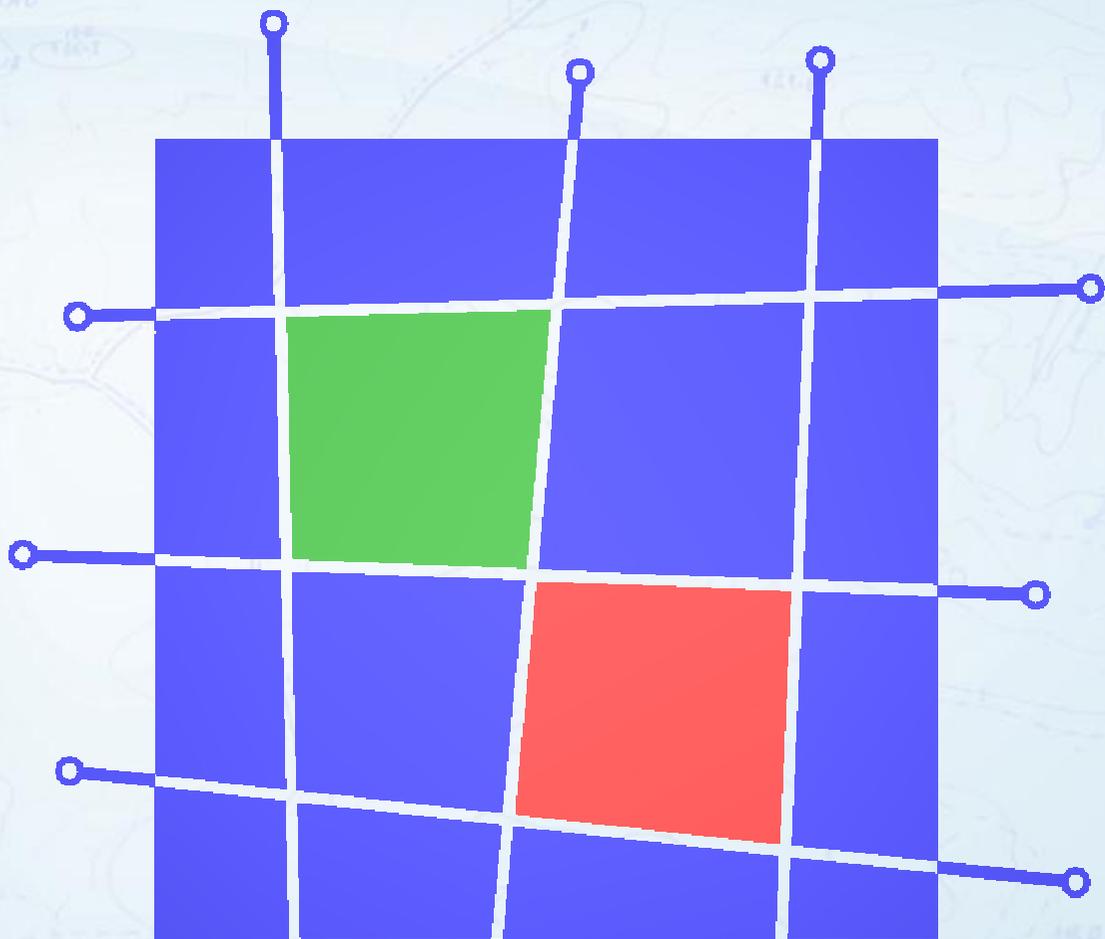
ALBERGARIA DOS DOZE

End of 2006:

- **New legal framework**

- **Technical Specifications for cadastral survey**

- **IT system implementation on the way**

- **Pilot Project concluded**

2007 - ...:

- **Mass Cadastral surveying**

- **SiNErGIC implemented**

IGP SiNErGIC