

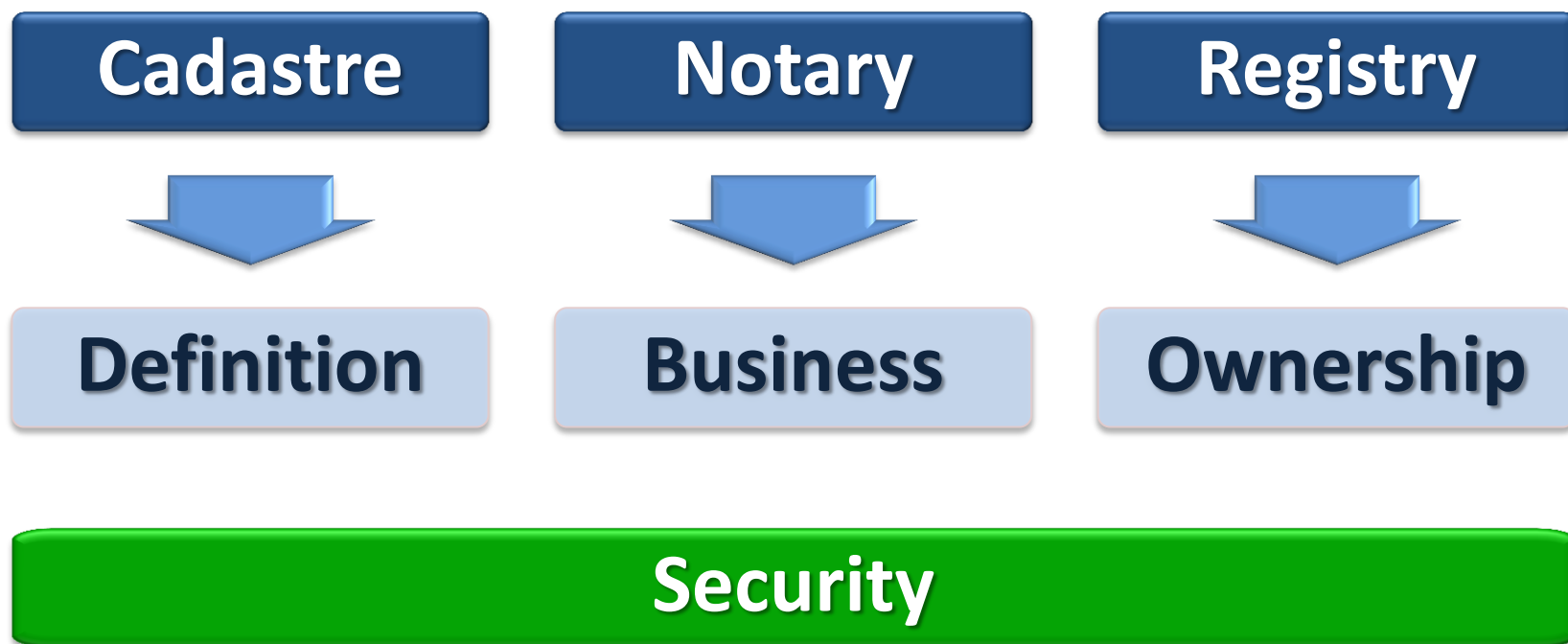
# THE PORTUGUESE CADASTRAL DATA MODEL

Rui Pedro Julião  
rpj@fcsh.unl.pt

# Topics

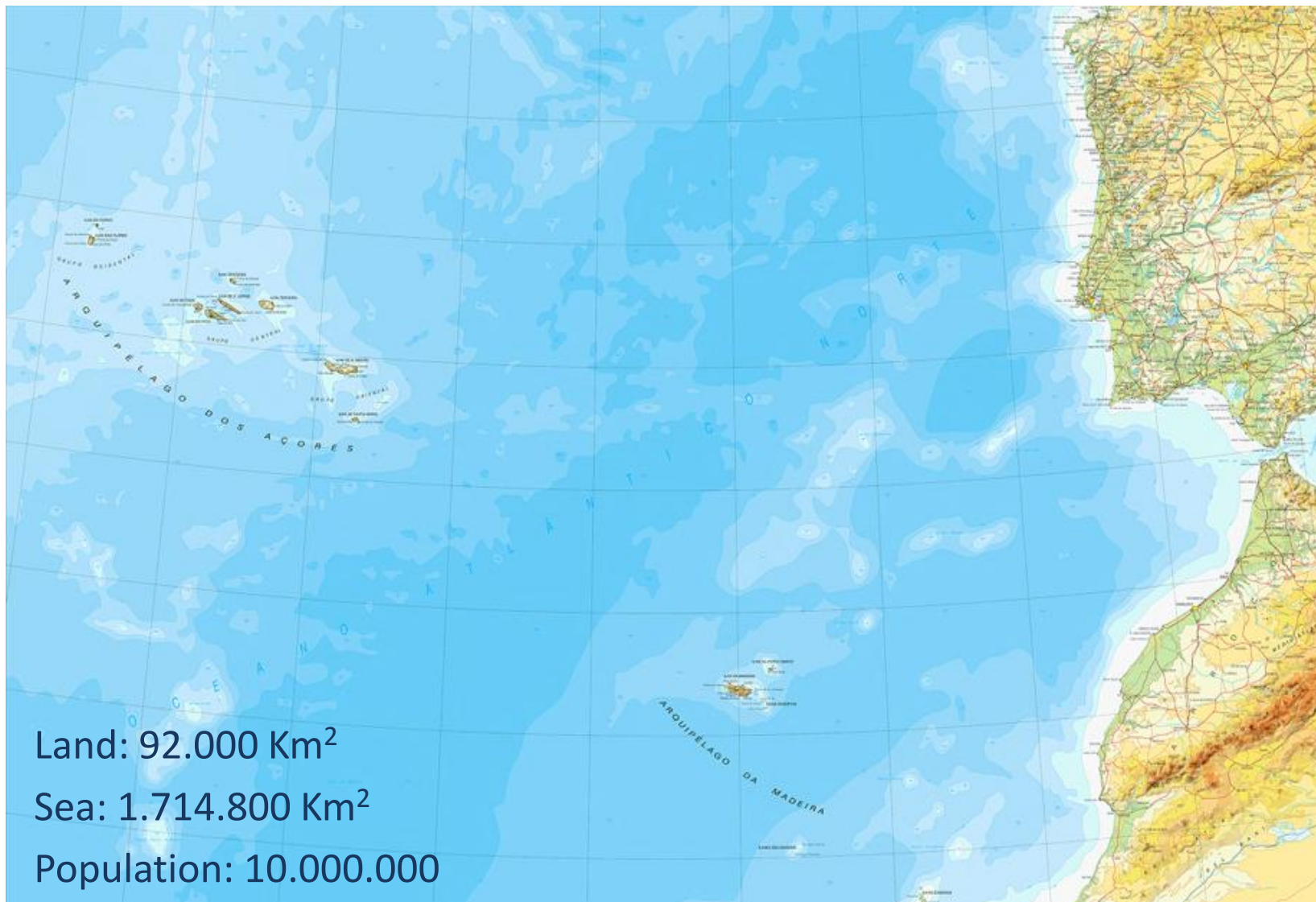
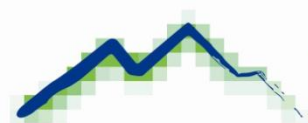
- Background
  - Cadastre
  - Portugal
- SiNErGIC
  - Vision
  - Approach
- Final Remarks

# Cadastral contribution



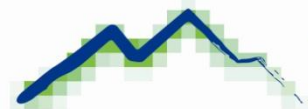
# Cadastral contribution

- Key asset for sustainable development
- Higher and better spatial knowledge
- Resources protection and valorization
- New citizenship culture towards territory
- Accountability and transparency
- Juridical and fiscal equity



Land: 92.000 Km<sup>2</sup>  
Sea: 1.714.800 Km<sup>2</sup>  
Population: 10.000.000

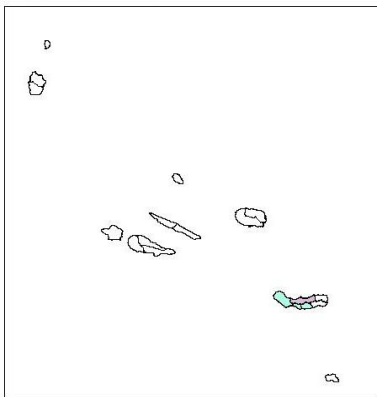




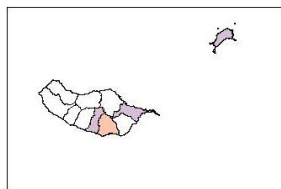
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## CGPR

Arquipélago dos Açores

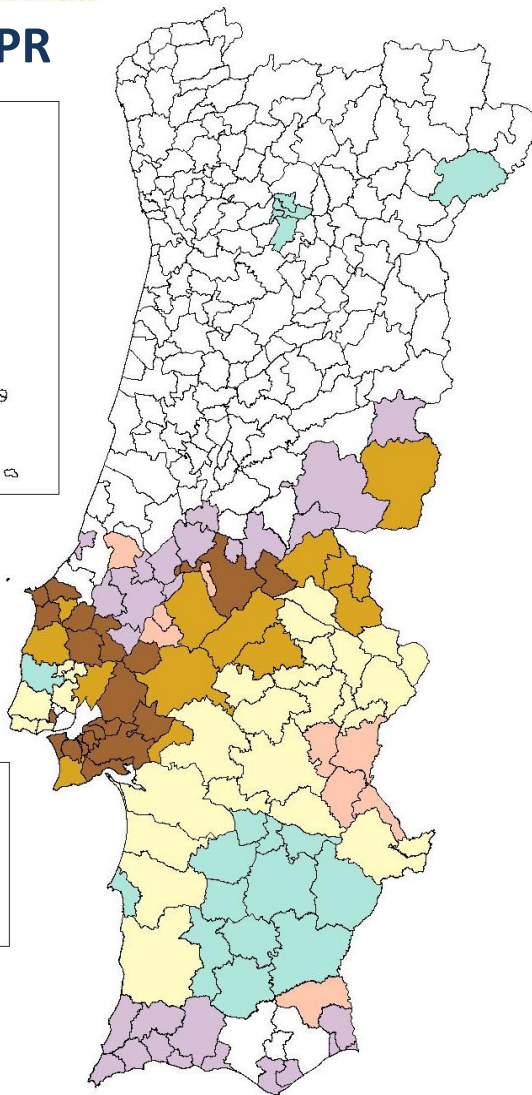


Arquipélago da Madeira



### Legenda

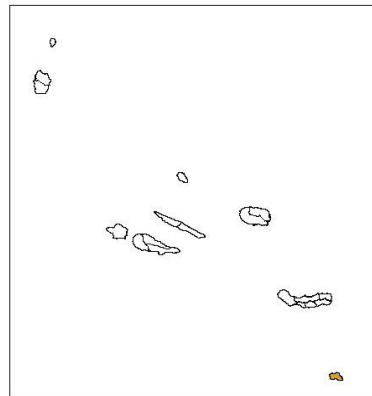
- 1940 - 1949
- 1950 - 1959
- 1960 - 1969
- 1970 - 1979
- 1980 - 1989
- 1990 - 1999



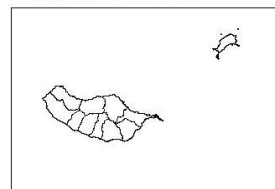
Dezembro de 2003

## PREDIAL

Arquipélago dos Açores

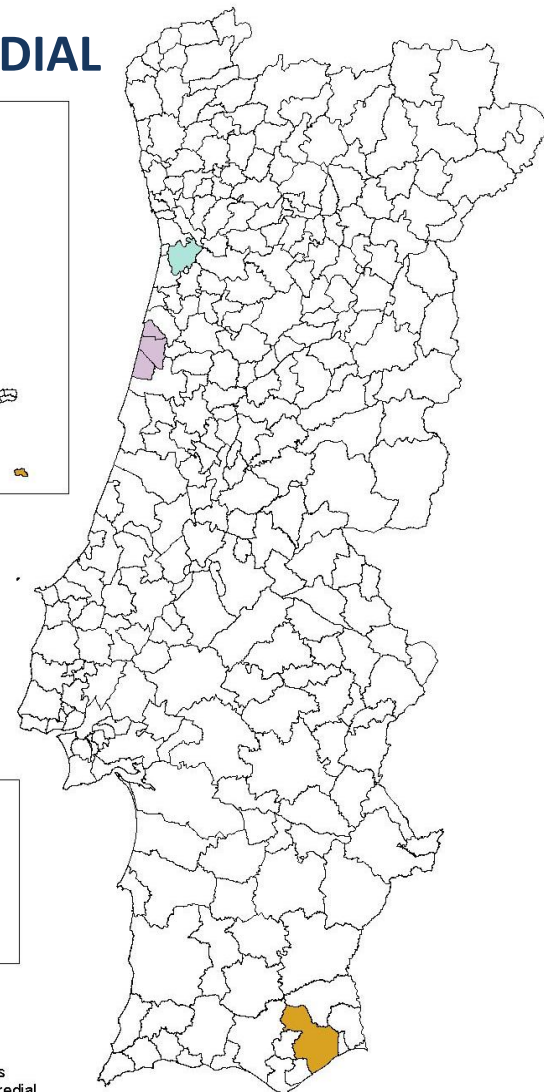


Arquipélago da Madeira



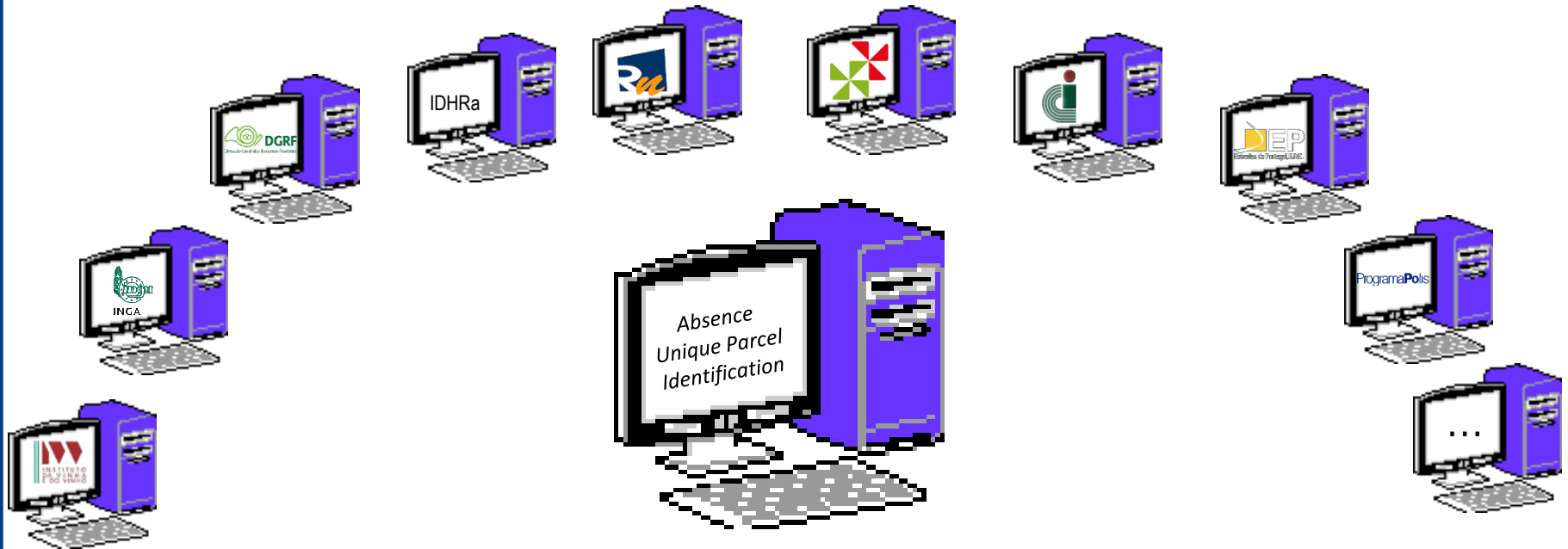
### Legenda

- Conclusão da recolha de dados
- Harmonização com o registo predial
- Recolha de dados

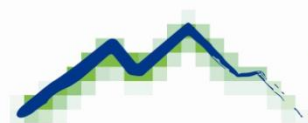


Dezembro de 2003

# Thematic Cadastres



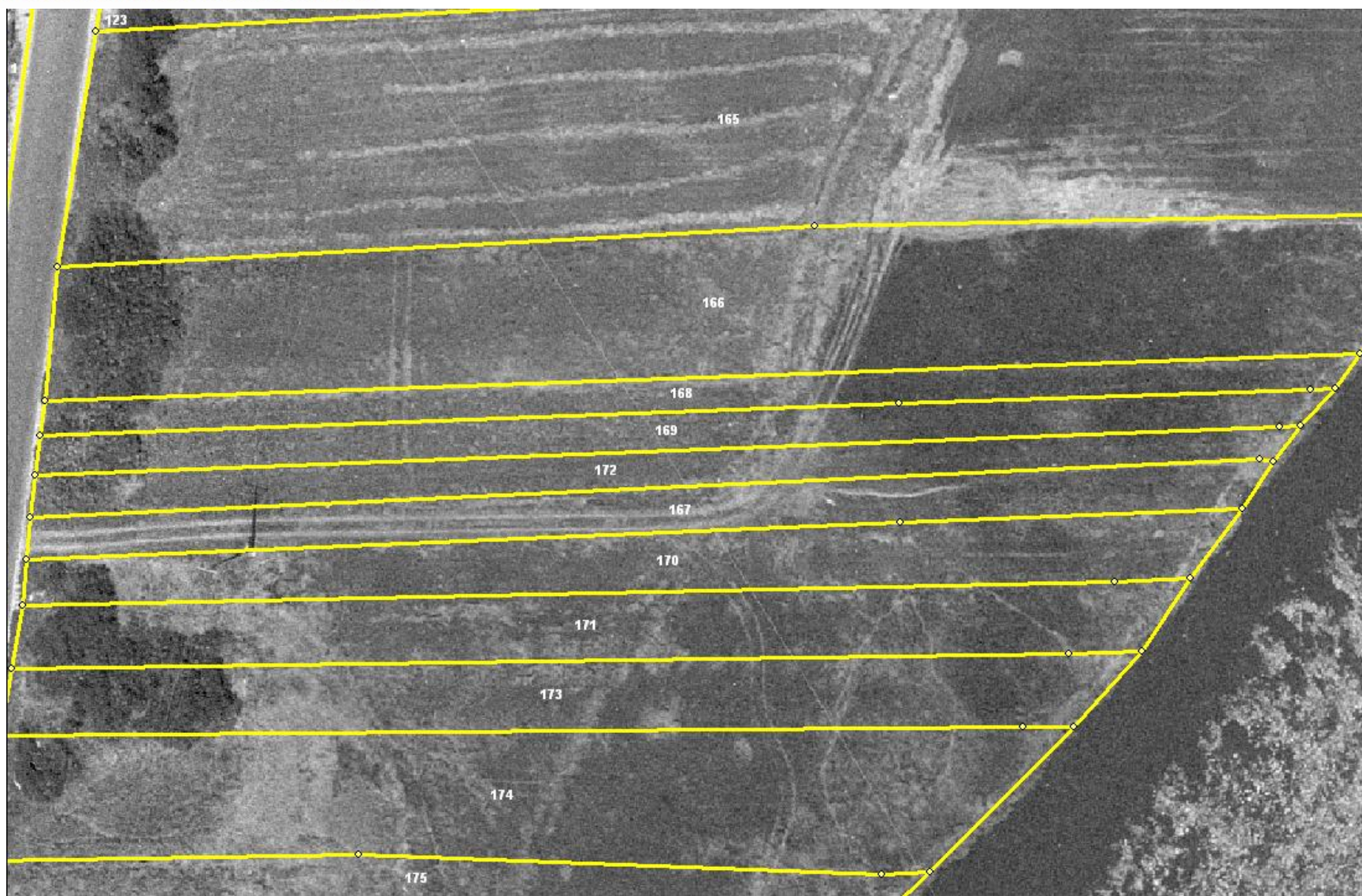
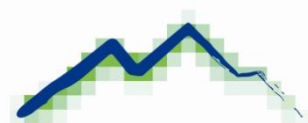
- Restricted compatibility
- Inexistence of interoperability & multi-functionality
- Data, resources and investment duplication



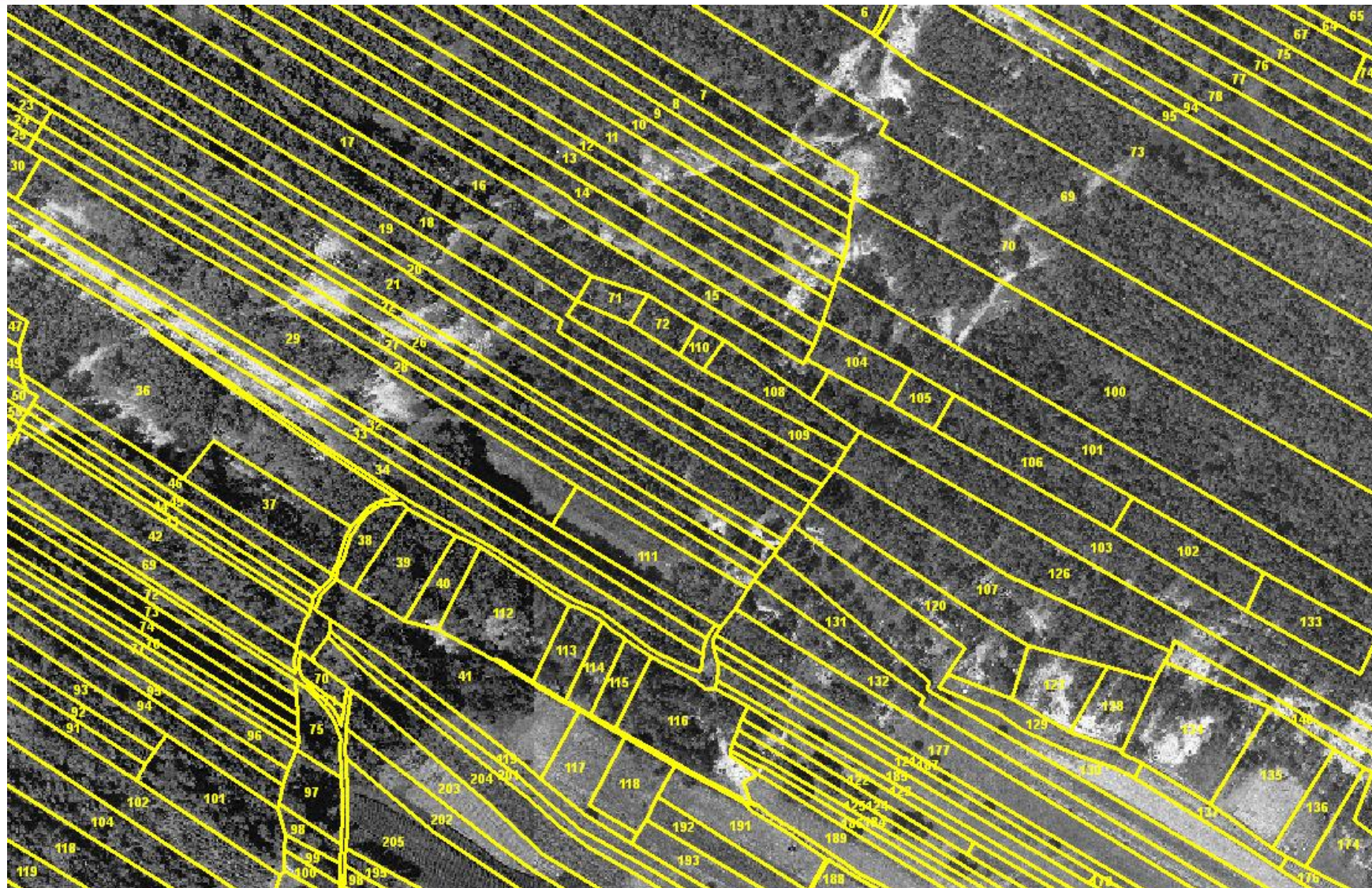
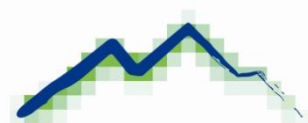
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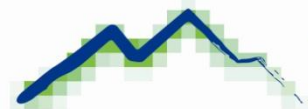












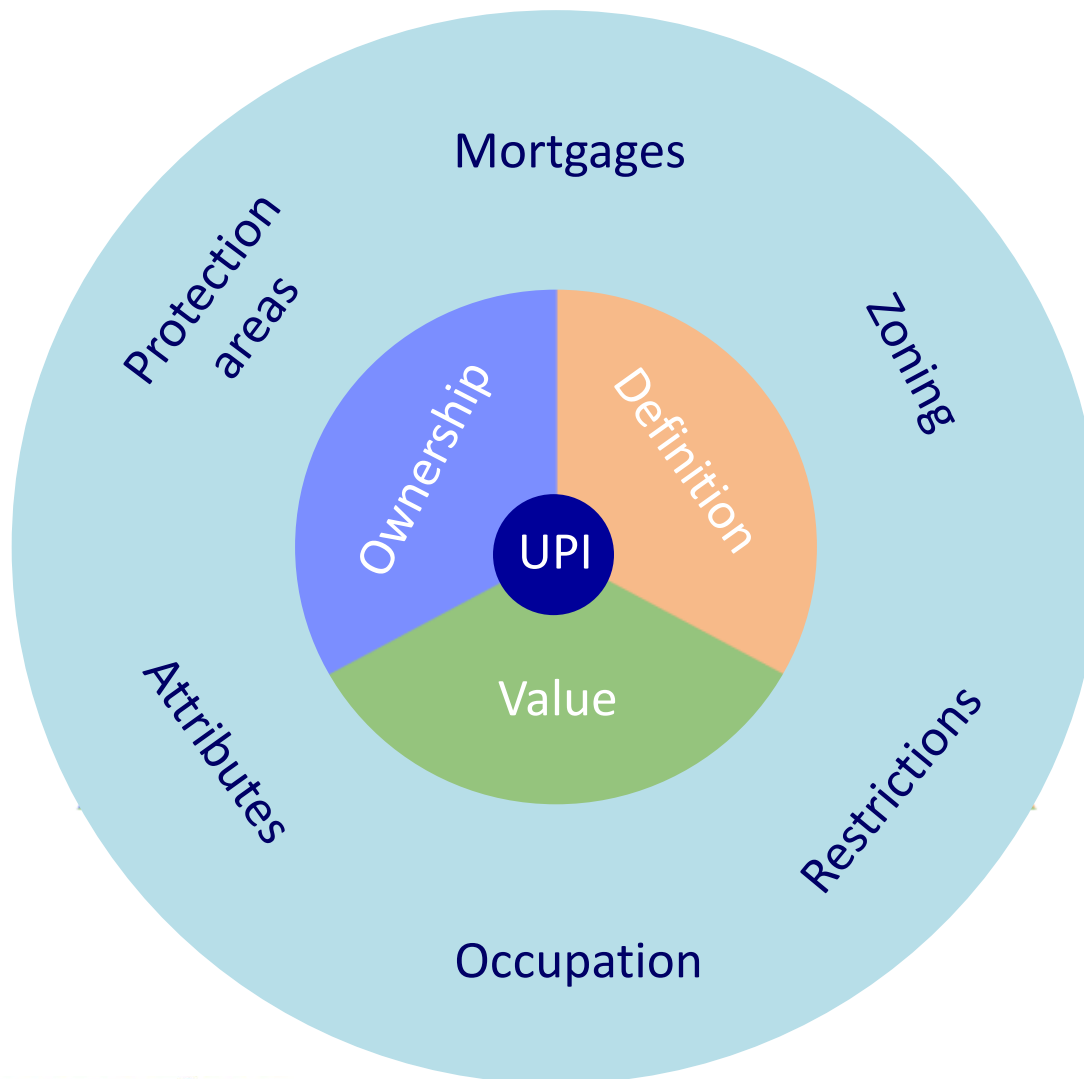


# Topics

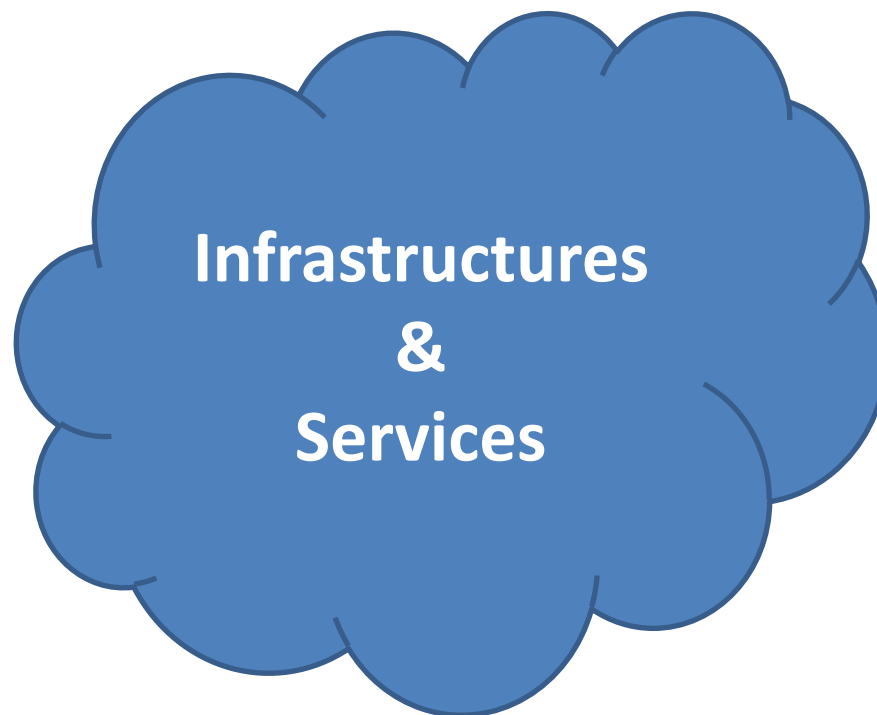
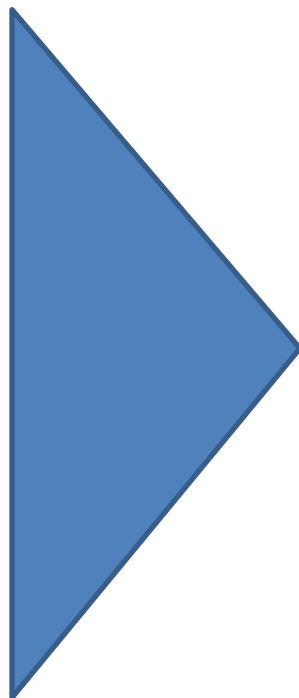
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# Unique Parcel Identification



# From GIS to SDI

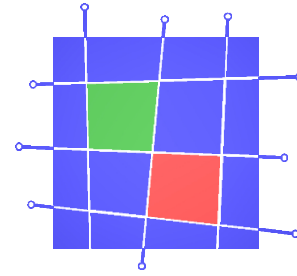


GIS

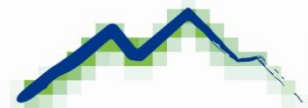


SDI

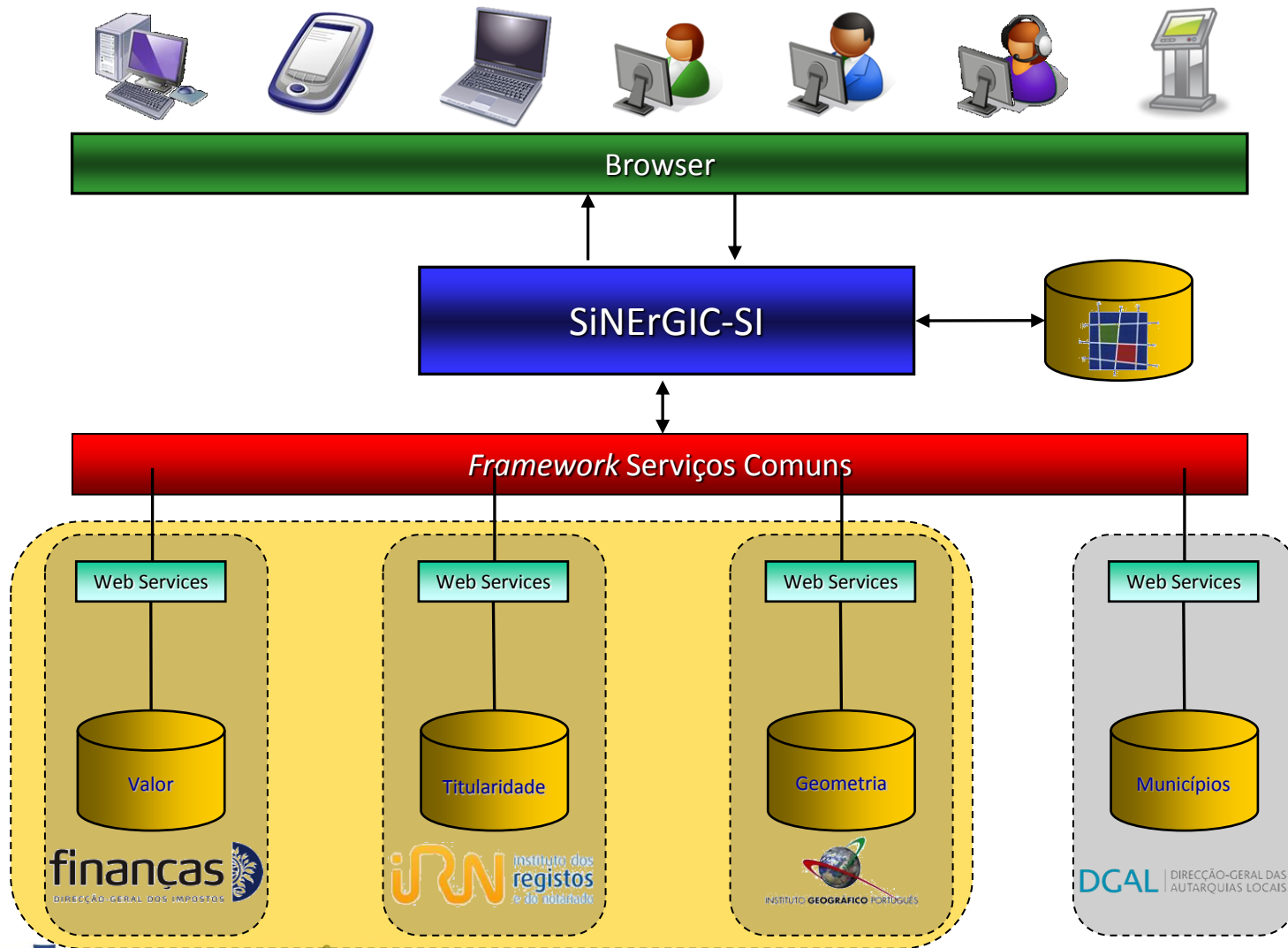
# SiNErGIC



- Council of Ministers Resolution nº 45/2006
- Creates National System for Managing and Exploring Cadastral Data (Sistema Nacional de Exploração e Gestão de Informação Cadastral – SiNErGIC)
  - Assure unique parcel identification
  - Unify existing cadastral data
  - Uniform and digital managing of cadastral data
  - Force interoperability among stakeholders IS
  - Support land registry with geographic data
  - Common framework for Public Administration
  - Provide access to public and business

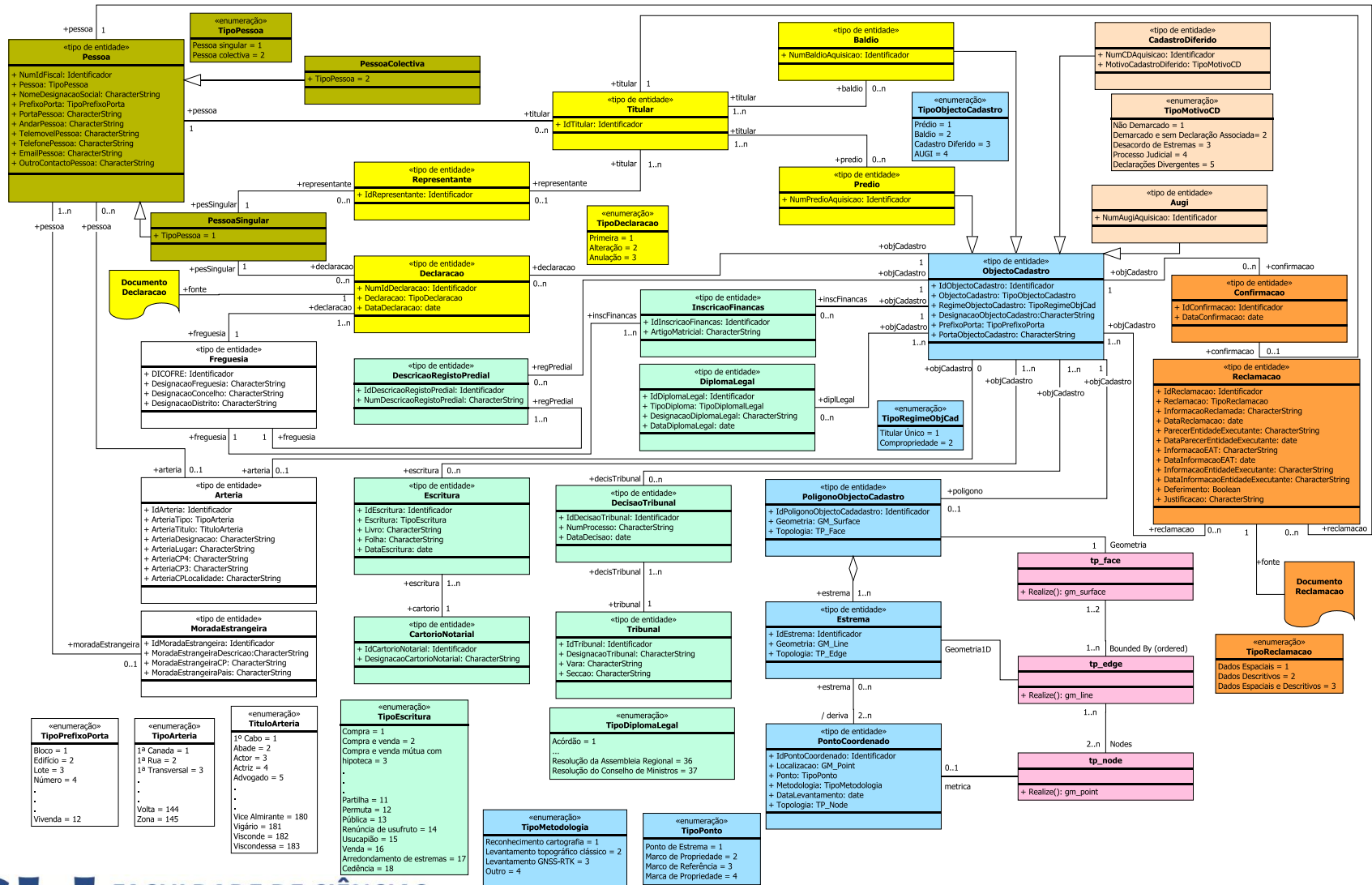


# SiNErGIC – IS Architecture





# SiNErGIC – Data Model



# Topics

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# Final Remarks

- **Complex process**
  - Large number of Stakeholders
  - High level of Requirements/Accuracy
- **Information System**
  - Interoperability
  - eGovernment
- **Technically unavoidable and feasible**
  - Stakeholders
  - CBA
- **Politically wanted?**
  - Investment
  - Implementation period
  - Taxation

# Thank you!

THE PORTUGUESE CADASTRAL DATA  
MODEL

# Questions?

Rui Pedro Julião

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