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PORTUGAL

A new approach to cadastre

Portugal Cadastre

Paradigm shift: from tax purpose to multipurpose

Rural property cadastre

Area: 50%

1930's - 1995

Real property cadastre

Area: 1.5%

1995 -...

www.fig2010.com
Challenge

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

Promote Unique Parcel Identification

Legal Framework definition
Cadastral Data Acquisition Plan
Information System

Start
Stage 1
Conception
Implementation
Stage 2
Stage 3
Maintenance
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

Values
- Institutional cooperation and creation of synergies
- Subsidiarity
- Communication
- Transparency
- Quality
- Liability

Agents
- Law Professionals
- Registry Professionals
- IT Professionals
- Decision makers
- Local and Central Government
- Property owners

Legal Background
- Real Property Registry
- Parcel Evaluation
- Parcel Taxes
- Deeds

Technology Background
- Good Practices
- SOA Architecture
- Collaborative Platforms
- Real Property Information System
- Tax Property Information System
- Local Government Information Systems

SiNerGIC Information System

Web browser

Coreon Services Framework

Web Services

SiNerGIC-IS core

Data stores
- Tax parcel data
- Owner data
- Spatial data

SiNerGIC-IS core

Common Services Framework

Good Practices

SOA Architecture

Collaborative Platforms

Real Property Information System

Tax Property Information System

Local Government Information Systems
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
Cadastral Data Specification

- Reference System: PT-TM 95 / ETRS89
- Data Completeness: ON SSAGO
- Logical Consistency: LACUNA
- Conceptual Consistency: ObjectoCadastre-e-Declarações
- Positional Quality: Cadastral Points

The Cadastral Points coordinates must present a RMS less or equal to 40 cm.

Aplication Schema

Cadastral Data Acquisition Process

- Mapping Support Acquisition
  - Orthophotos
  - Flight AT
- Cadastral Data Acquisition
  - Identification Survey
  - Owners Declaration
  - Parcel Survey
  - Public Consultation
- Public Consultation Offices
- Complaints Analysis and Resolution
Survey Works

Future Actions

- Cadastre Business Model Definition
- Cadastre Acquisition Operations Nation-wide
- SiNErGIC-IS implementation completed

New challenges
New demands