Cadastre and Land Management in Greece

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Land registry works in a dual (public/private) system

Deeds registration system since the early 1850’s

398 registry offices (18 offices public, 380 certified private)

1995: the Hellenic Cadastre Project was started.
Total estimated cost : ~750 million Euros

Major weakness:
• unclear purpose
• without a parallel legal reform (Peter Dale, 1996)

2014:
• the purpose still remains unclear among some politicians
• but the legal reform has started and there is political will
State lands are not defined & recorded, but are >60%. The state has not responded well with its management.

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
<td>132,000 Km²</td>
</tr>
<tr>
<td>Population</td>
<td>10,962,000</td>
</tr>
<tr>
<td>buildings</td>
<td>3,990,970</td>
</tr>
<tr>
<td>Residences</td>
<td>5,475,400</td>
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<tr>
<td>Land parcels</td>
<td>~15-18 million</td>
</tr>
<tr>
<td>Total farming land</td>
<td>35,832 Km²</td>
</tr>
<tr>
<td>Property rights</td>
<td>~37.2 million</td>
</tr>
<tr>
<td>GDP</td>
<td>~€180 billion</td>
</tr>
<tr>
<td>Per capita income</td>
<td>~€18,000</td>
</tr>
<tr>
<td>Estimated total value of private land</td>
<td>€750 billion(before crisis)</td>
</tr>
</tbody>
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Progress of the Hellenic Cadastre Project

- **A’ phase of cadastral surveys**
  - A’ Pilot (1995)
  - B’ Pilot (1997)
  - 1st Main Program (1998)
  - area: 6.5%
  - Property rights: 17%
  - Involved land registries: 24%
  - costs: ~300 million Euros
  - completed
Progress of the Hellenic Cadastre Project

B’ phase of cadastral surveys (2008)

- Urban & sub-urban areas in the greater Athens & Thessaloniki region
- Remaining capital cities
  - area: 5.9%
  - rights: ~18%
- Expected delivery period: 2013-2019
- Expected costs: ~250 million Euros

Progress of the Hellenic Cadastre Project

Buildings are not shown in the cadastral sheets

Remaining parts to be finished by 2020

- Parnitha mountain
  - costs: ~5.5 million Euros
- remaining settlements
  - costs: ~110 million Euros
- land distribution & land consolidation projects have taken place in the past
  - costs: ~185 million Euros
- remaining land
  - costs: ~572 million Euros
- specific areas where cadastral records pre-existed
  (Dodecanese islands, Kalithea-Palaio Phalero)
  - costs: ~5 million Euros

Improvement achieved:
The tender procedure is shortened and simplified based on:
- the qualifying documents of the tender participants, and
- the best price criterion
Progress of the Hellenic Cadastre Project
development of infrastructure

Development of the IT Data Center and of the Web Applications

- IT Data Center of high degree of availability
- Disaster Recovery Center
- Telecommunication networks
- Management Information System (MIS) of HEMCO
- Web applications
- Cost: ~10 million Euros

Establishment & improvement of the Geodetic Infrastructure: HEPOS

- Number of stations: 98
- Stations in the mainland & on Cyclades islands: 78
- Stations on Crete island: 9
- Independent stations (Eastern Aegean islands): 11

Network of HEPOS permanent GPS stations
Progress of the Hellenic Cadastre Project

development of infrastructure

Scanning & digitization of old land-consolidation & land distribution maps

- Existing in the files of the Ministry for Rural Development and Food
- Coverage area: ~36,000 Km² rural land
- costs: ~1.3 million Euros

Progress of the Hellenic Cadastre Project

development of infrastructure

2009:

Very Large Scale colored Orthophotomaps in the urban areas (VLSO)
- scale 1:1,000
- Area covered: ~6,000 Km²
- Pixel size: 20cm
- costs: ~3.2 million Euros

Large Scale colored Orthophotomaps in the rural areas (LSO)
- scale 1:5,000
- Area covered: ~132,000 Km²
- Pixel size: 50cm
- costs: ~6.3 million Euros

2014:
- New project the total country again
- Pixel size: 25 cm, scale 1:1250
- costs: 5.4 million Euros
Progress of the Hellenic Cadastre Project
development of infrastructure

Compilation of forest maps (1997)
Target: to define the forest polygons & to identify the state property
any forest land is claimed by the state unless there are continuous series of private registered original deeds dating from 1884
costs: ~155million Euros
ratified maps: only 1%
Frequent change of Legislation (1979, 2003, 2010)
forest polygon area size < 0.3ha
canopy density 15%
There is an “unknown” number of buildings & settlements within the forest polygons
TCG: ~48% of the registered private properties (A’ phase of the cadastre surveys) in the areas outside the city plans

Progress of the Hellenic Cadastre Project
development of infrastructure

Preliminary definition of shoreline and coastal zone

Preliminary definition of the shore line
(the coastal zone is state land; its width varies depending on the winter wave line & the local topography)

Scale ~1:1,000 for the delineation of coast line & the banks of “navigable” rivers & lakes on maps

Pixel size: 25 cm
Length of coastal zone & river bank zone: 16,000 Km
Coastal zone width that will be mapped: 300 m
Grid size for the DTM: 1m
costs: 3.4 million Euros
The lack of spatial infrastructure & the inflexible, centrally-driven, expensive zoning & planning led to informal development

- Unplanned settlements with both formal & informal constructions exist; a de facto affordable housing policy; safe constructions-not many slums
- ~1M constructions (1 out of 4) are without a building permit; ~72B Euros dead capital (before crisis);
- ~>1.5M constructions with small informalities (illegal extensions, change of use, etc)
- unknown number within the “protected lands”
- Legalization is possible only through an enforcement of a detailed city plan

Informal buildings are not improved, transferred, mortgaged and taxed: 3B Euros annual GDP loss

- Legislation for temporary formalization (for 30 years):
  - Law 3775/2009; Law 3843/2010;
  - Law 4014/2011; (370,000 declarations)
  - In 2013 Council of the State: Law 4014/2011 is unconstitutional
  - Law 4178/2013; (125,778 new declarations)
- (2009- Feb 2014): ~500,000 declarations; revenue~1.84B Euros
- Weaknesses of formalization:
  - Insecure: unproven as to its Constitutionality
  - Temporary: formalization max for 30 years
  - Expensive to the owners: fees are ~1/3 of the construction costs
  - Not inclusive: some large categories of residential real estate are still not included & not affordable to all
- Result: 3B Euros annual GDP loss
Archaeological sights are protected by Law but the regulations are complicated and not shown on maps. This affects investment.

Property Taxation is complicated & property taxes for the possession are calculated by a progressive system based on the total amount of properties of the owner

- Value added tax (VAT) 23% for newly built residences (Law 3472/2005)
- Transfer tax (borne by the purchaser) rate was set at 8% for properties up to 20,000 euro and 10% for the excess of this amount. Improvement: 3% since summer 2014
- Tax for the possession of real estate 1975-1980, 1982-1993, 1997-2007: tax on large immovable property. 2008: the flat fee on immovable property (ETAK) for a property zone tax value >100,000 euro, with a fee rate of 0.1%. 2009: ETAK + a special tax a tax scale 0%-0.9% of the total property value. 2010: Special tax + an annual tax on immovable property (FAP) tax scale 0%-2% of the total property value. 2011: Special tax + EETIDE (16Euros/m², increasing factor for the younger real estate) + FAP (tax scale for FAP 0%-2%), 2012, 2013: Special tax + EETIDE + FAP, 2014: EMFIA

- Property taxation system is changed every year
- Property taxes are calculated by a progressive system based on the total amount of properties of the owner
- Taxes are based on the zone tax value without taking into consideration the age of the construction or any other factor
- Zone tax values are not adjusted to the market values- especially during this period
- Undeclared informal constructions are not taxed
- Property taxes are unfair –they do not affect equally all real estate
The state of the Greek property market

The main characteristics of the current period (buyers’ market) are the following:

• The drop in prices is accelerating
• Rent prices decline
• Weak Market activity (uncertainty due to increased and unstable property taxation, foreclosures, decreased credit)
• Construction Investment and Employment are in free fall
• Construction Costs remain high despite the declining labor costs (the material costs have increased due to the increase of the gasoline price)
• Credit expansion remains negative and NPLs (30%)
• Constructors and consumers remain pessimistic
• registered deeds per year: 1,100,000 (before the crisis), now ~550,000 (of them ~350,000 inheritances & transactions to descendants)

Challenge : Hellenic Cadastre should be finished by 2020 recommendations

Remaining obstacles

For the cadastre:
• Key registers?
• Well equipped cadastral offices; good linkages with the involved professionals
• Creation of an open cadastre, information to the users?
• Stability within EKXA, less political influence?

For the legal reform:
• Volume of the remaining work: Forest maps, Coastal zone, Informal development legalization, property taxation, valuation, planning & construction permitting reform

• There is strong political will
• The responsible agency has excellent experience
• External technical assistance should be continued
THANK YOU