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LADM based Cyprus Land Information System model

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PhD (N.T.Univ. Athens)

WORKSHOP

LADM from Research to Implementation

– Land Administration Domain Modelling at a threshold

Delft, 6 July 2012

PRESENTATION CONTENT

- **The Cyprus Land Information System (CLIS)**
- **The Cyprus country profile based on LADM**
- **Development and pilot implementation**
- **Conclusions**

The Cyprus Land Information System



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Area: 9,250 Km²

Population: 862,000

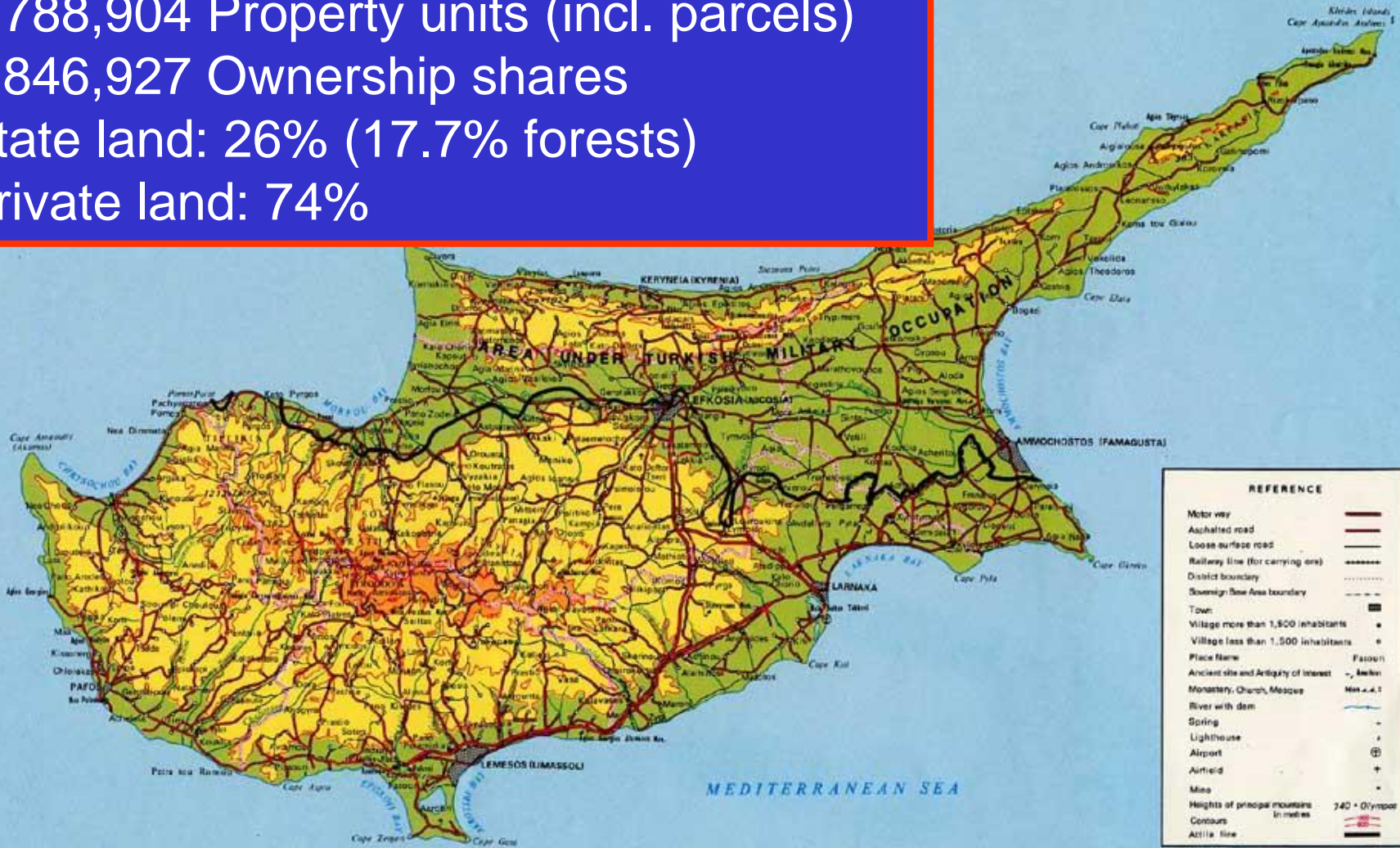
1,579,019 Parcels

1,788,904 Property units (incl. parcels)

2,846,927 Ownership shares

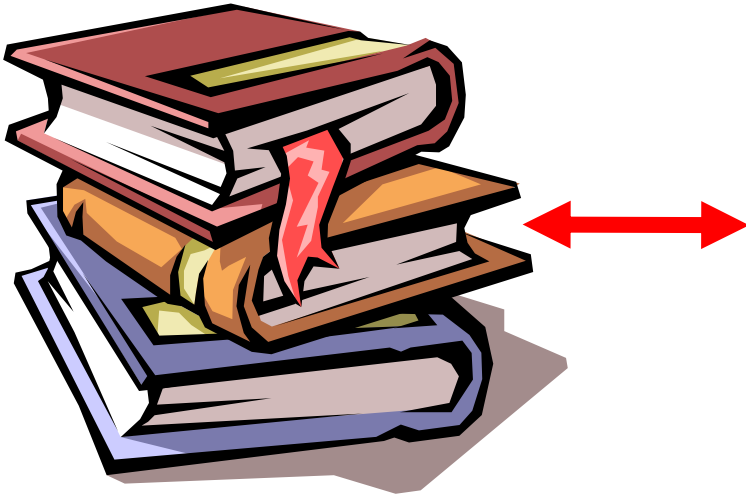
State land: 26% (17.7% forests)

Private land: 74%



Cyprus has a reliable cadastral system supporting the administration of land and other immovable property related activities.

The cadastral system is based on two components: The Registry and the Cadastral Plans



The system of land registration is that of title

The authority responsible for the operation of the cadastre is the Department of Lands & Surveys (DLS). It is the oldest Department of the public sector in Cyprus, starting its operation in 1858. Its initial responsibility was the registration of immovable property.

BLOCK THREE
 8. V. R. HOLDING/ΤΕΜΑΧΙΟΝ, 111
LAND REGISTRY OFFICE, CYPRUS
 ΚΤΗΜΑΤΟΛΟΓΙΚΟΝ ΓΡΑΦΕΙΟΝ, ΚΥΠΡΟΥ. 2504
CERTIFICATE OF REGISTRATION OF IMMOVABLE PROPERTY
 ΠΙΣΤΟΠΟΙΗΤΙΚΟΝ ΕΓΓΡΑΦΗΣ ΑΚΙΝΗΤΟΥ ΠΕΡΙΟΥΣΙΑΣ.

Particulars of Property: Ανεκίνητος Κτήσιμος :
 Sub-District Τροχαιογεννη Λεφκά. Γουσία
 Town or Village Νάβια & Χωρὸν Ραδουλοῦ Νεβροζί.
 Street & No. on Door Όδὸς 3 Ἀπὸλ. Ὁδοῦ
 Nature Νέον πεδὸν Δεξί-παπὶρ

Boundaries Σὺν τῷ Εὐλαγῷ Ἰστοῦ, ὕδατι κανάλι & Ἰσοπέδη ὁδοῦ.
 Ν. Β. Ὁδοῦ, Πύργοι Λεφκά.
 Περιορὸς Ν. Β. Ὁδοῦ, Ἰσοπέδη ὁδοῦ Ν. Β. Ὁδοῦ, Ἰσοπέδη ὁδοῦ Ν. Β. Ὁδοῦ.

Area or Quantity Μετρηθὲν ἢ Ἰσοπέδη, 200 δαμμοῦ. if more

Category Κτησιμὸς ἢ: Γουσία. Ἰσοπέδη
 Category of Ground Κτησιμὸς ἢ: Ἰσοπέδη. Ἰσοπέδη

Valoof Βαυτοῦ Donor Δοῦρῆς
 10. 114. 360 Yearly Tax Ἰσοπέδη Ἰσοπέδη
 Yearly equivalent of Taxes Ἰσοπέδη Ἰσοπέδη

Transferred to Μεταβιβάσθησιν Ἰσοπέδη Ἰσοπέδη Ἰσοπέδη
 Π. Β. Ὁδοῦ & Εὐλαγῷ Ἰστοῦ Νεβροζί, Ἰσοπέδη Ἰσοπέδη
 Share Ἰσοπέδη Ἰσοπέδη Ἰσοπέδη Ἰσοπέδη Ἰσοπέδη
 How and from whom acquired Πῶς & ἀπὸ τίνος ἀποκτήθησθαι Ἰσοπέδη Ἰσοπέδη
 Acquisition Ἰσοπέδη Ἰσοπέδη Ἰσοπέδη Ἰσοπέδη Ἰσοπέδη

Previous registration Προσφωτισθὲν Ἰσοπέδη Ἰσοπέδη 1750. 1100 230 (Ἰσοπέδη Ἰσοπέδη)
 Price of Sale Τύπος Πωλοῦσθαι 4500cf 116 Ἰσοπέδη Ἰσοπέδη
 Assessed value Ἰσοπέδη Ἰσοπέδη 4500cf 116 Ἰσοπέδη Ἰσοπέδη

Registered at Ἰσοπέδη Ἰσοπέδη Ἰσοπέδη
 The 21 day of January 1897 Date
 By Ἰσοπέδη Ἰσοπέδη Ἰσοπέδη

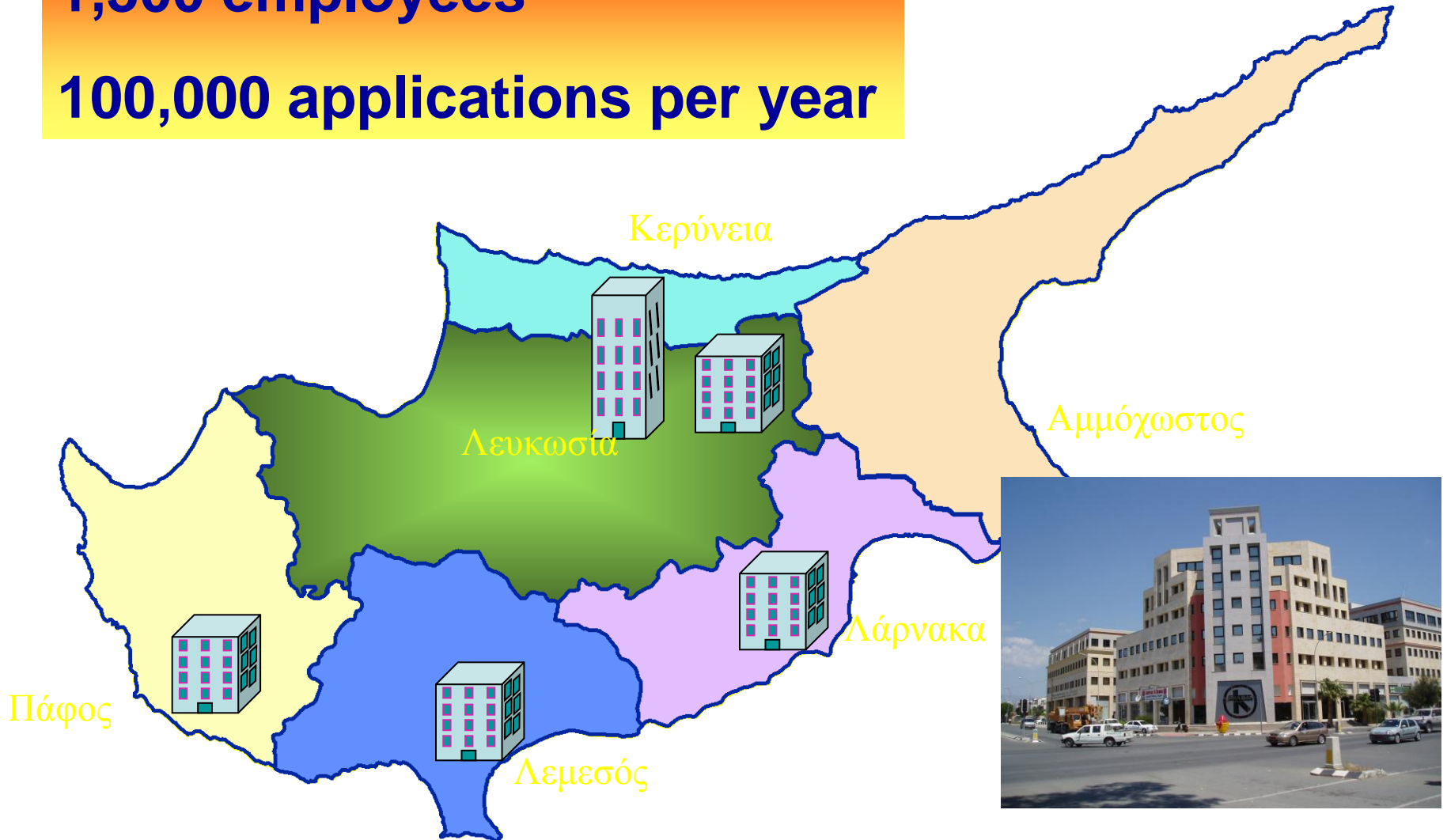


Throughout the years, DLS expanded its activities and services offered to the public, emerging into a dynamic organization supporting a multipurpose cadastre.

Department of Lands & Surveys

1,300 employees

100,000 applications per year



Department of Lands and Surveys Activities

Property registration

Property transfer by sale, gift, exchange

Easements, Leases

Valuation

Land demarcations/ Land divisions

Boundary disputes

Management of State Land

Mortgages

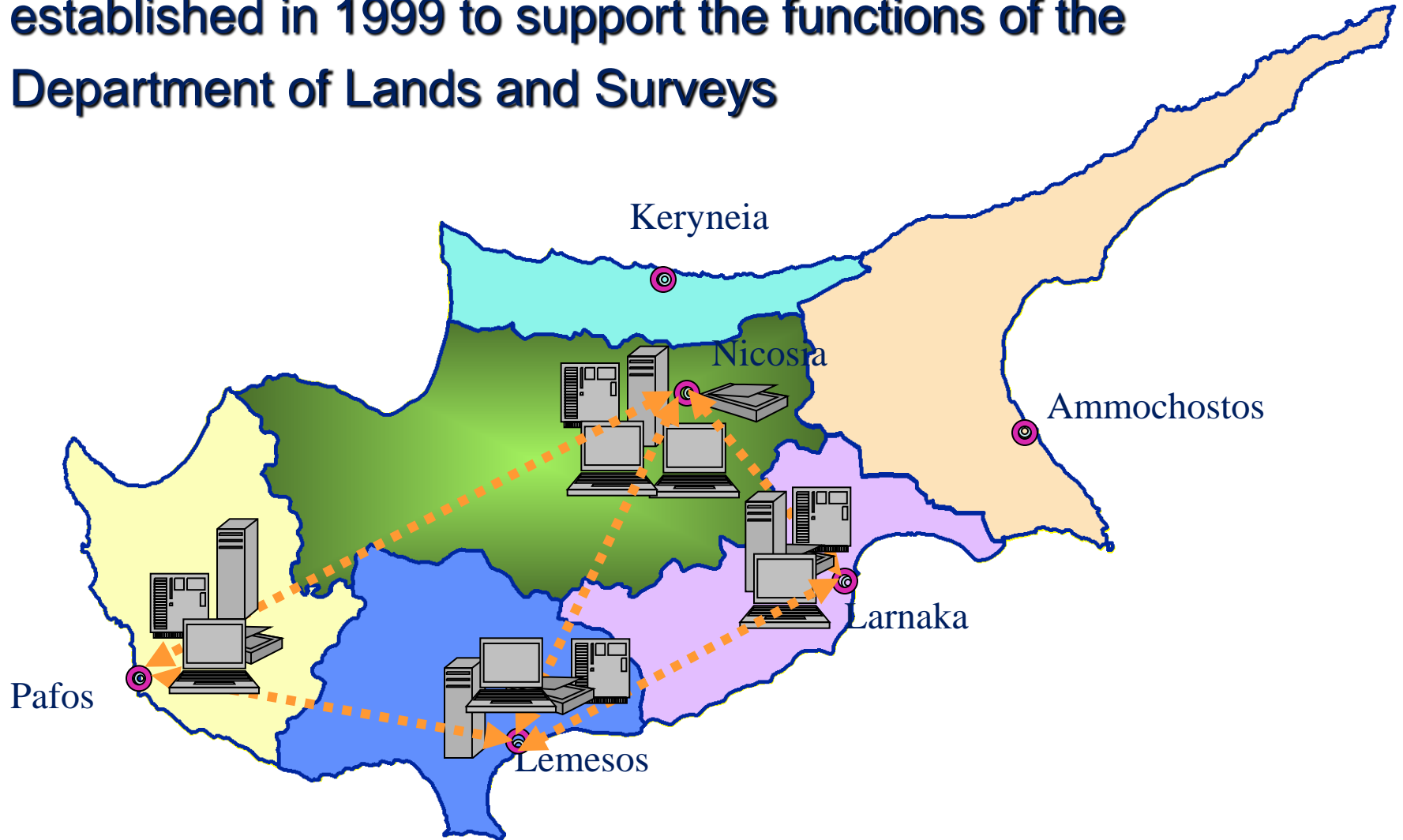
Acquisitions

Property searches

**Surveying
Photogrammetry
Hydrography
National Mapping Agent**

Cyprus Land Information System (CLIS)

The Cyprus Land Information System was established in 1999 to support the functions of the Department of Lands and Surveys



CLIS COMPONENTS

Land Information System

Geographical

Legal

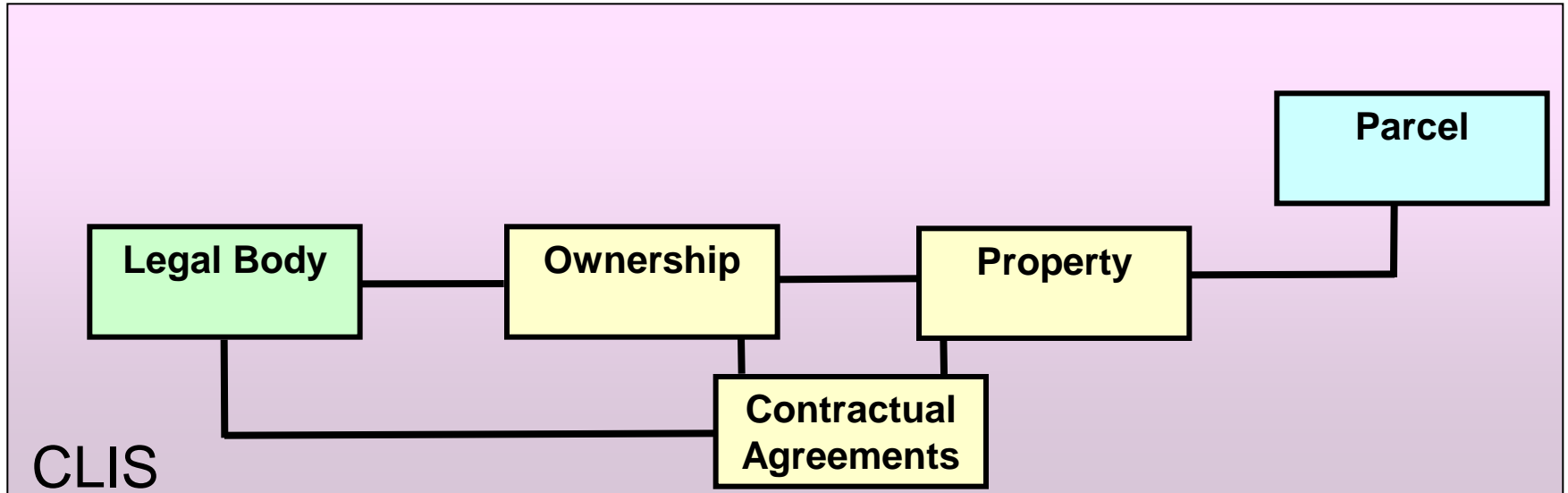
Fiscal

ArcInfo - ArcView

ORACLE

SOLARIS-UNIX

CLIS Data Model



The need to upgrade CLIS

It is broadly accepted that CLIS should be improved and upgraded, and a new data model should be introduced to facilitate the manipulation and provision of data to internal and external users/customers in a more effective way. The need to enhance the CLIS coincides with the introduction of the LADM.

The need to upgrade CLIS

The current CLIS

- **Unstructured data model.**
- **At the end of its life *cycle*.**
- **Not a suitable programming framework.**
- **Two generations behind on the technology curve.**
- **Difficult to migrate to new technologies.**
- **Problematic expansion of operations and limitations in supporting a National LA System.**

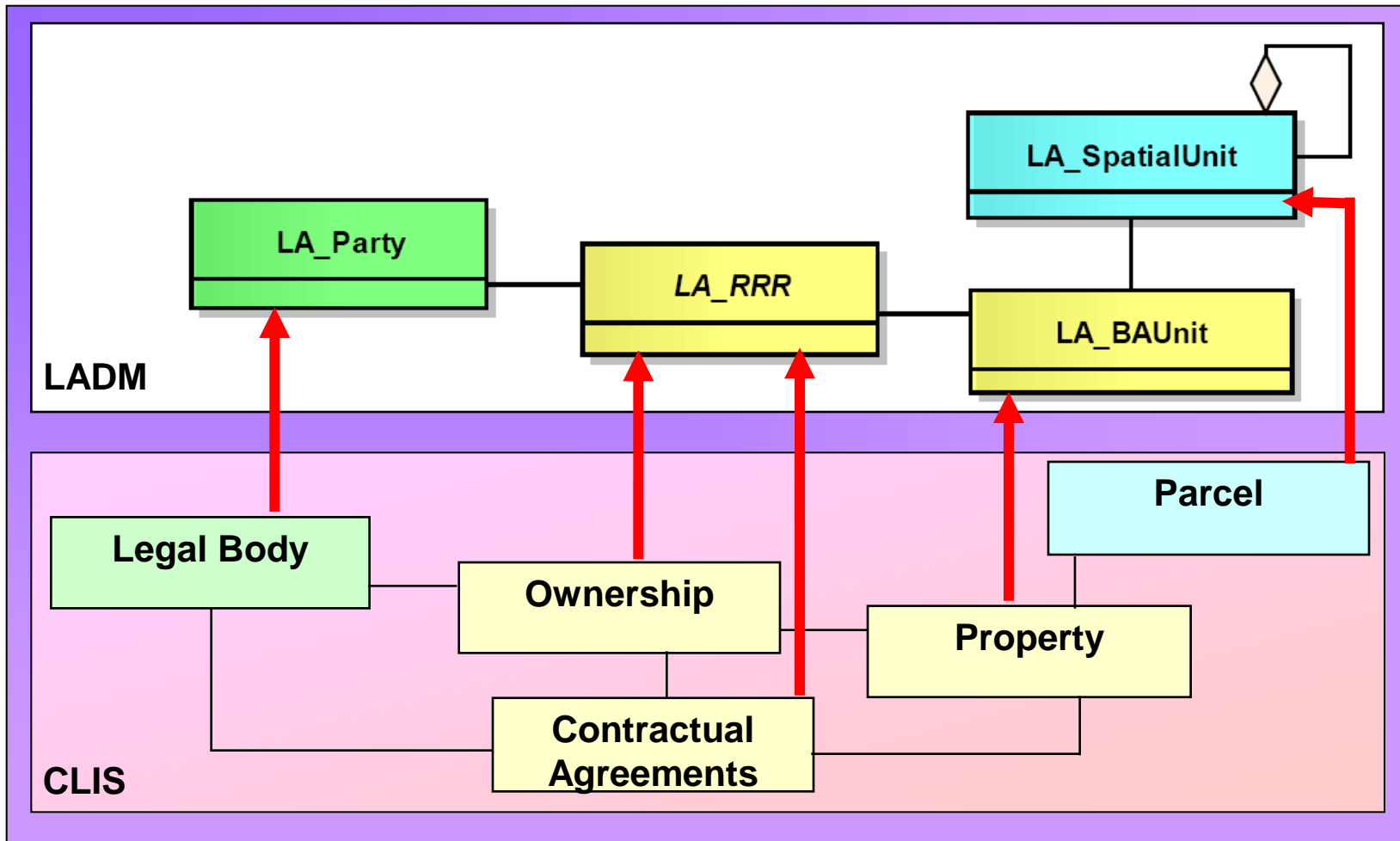
The Cyprus Country Profile

based on LADM

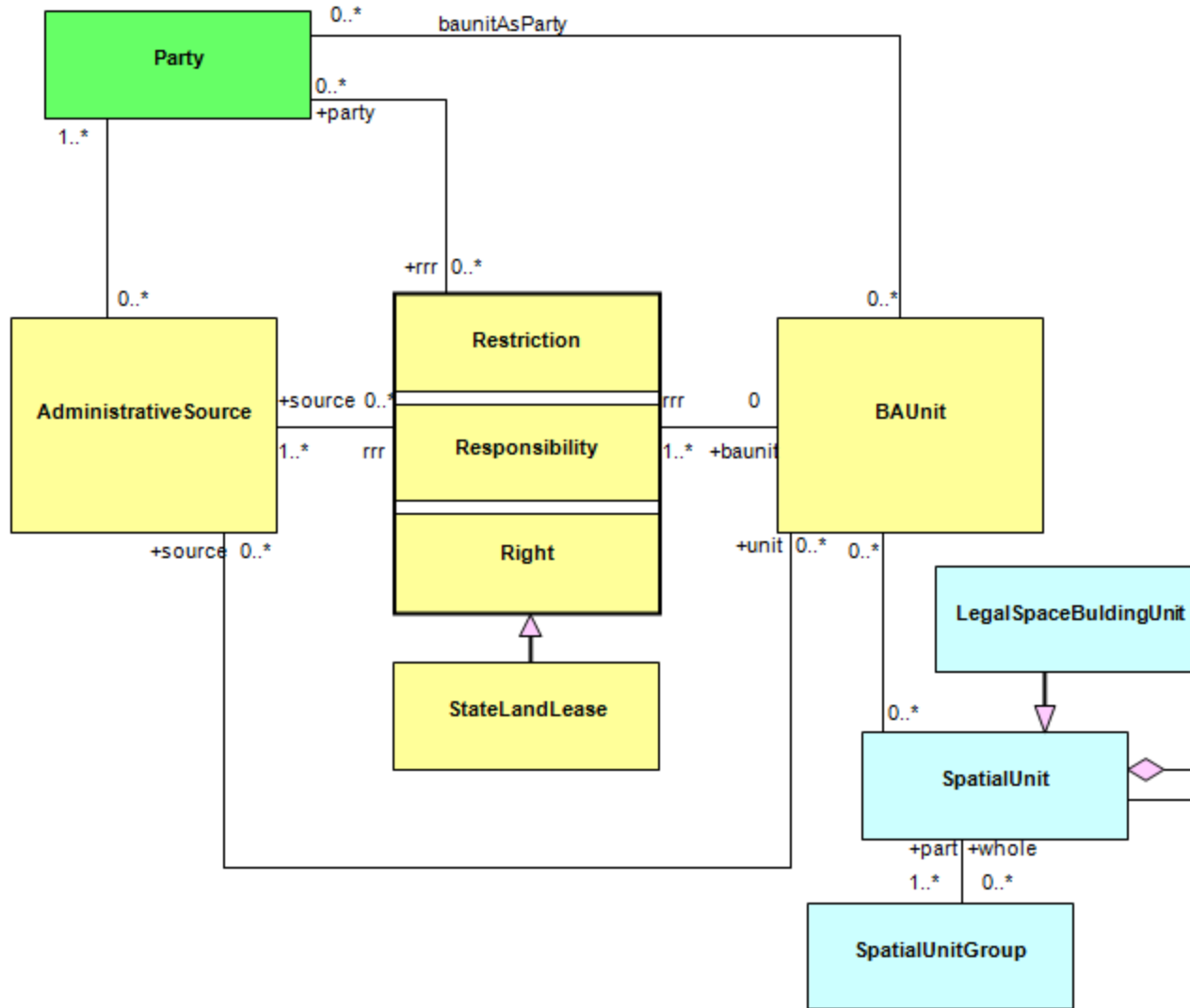


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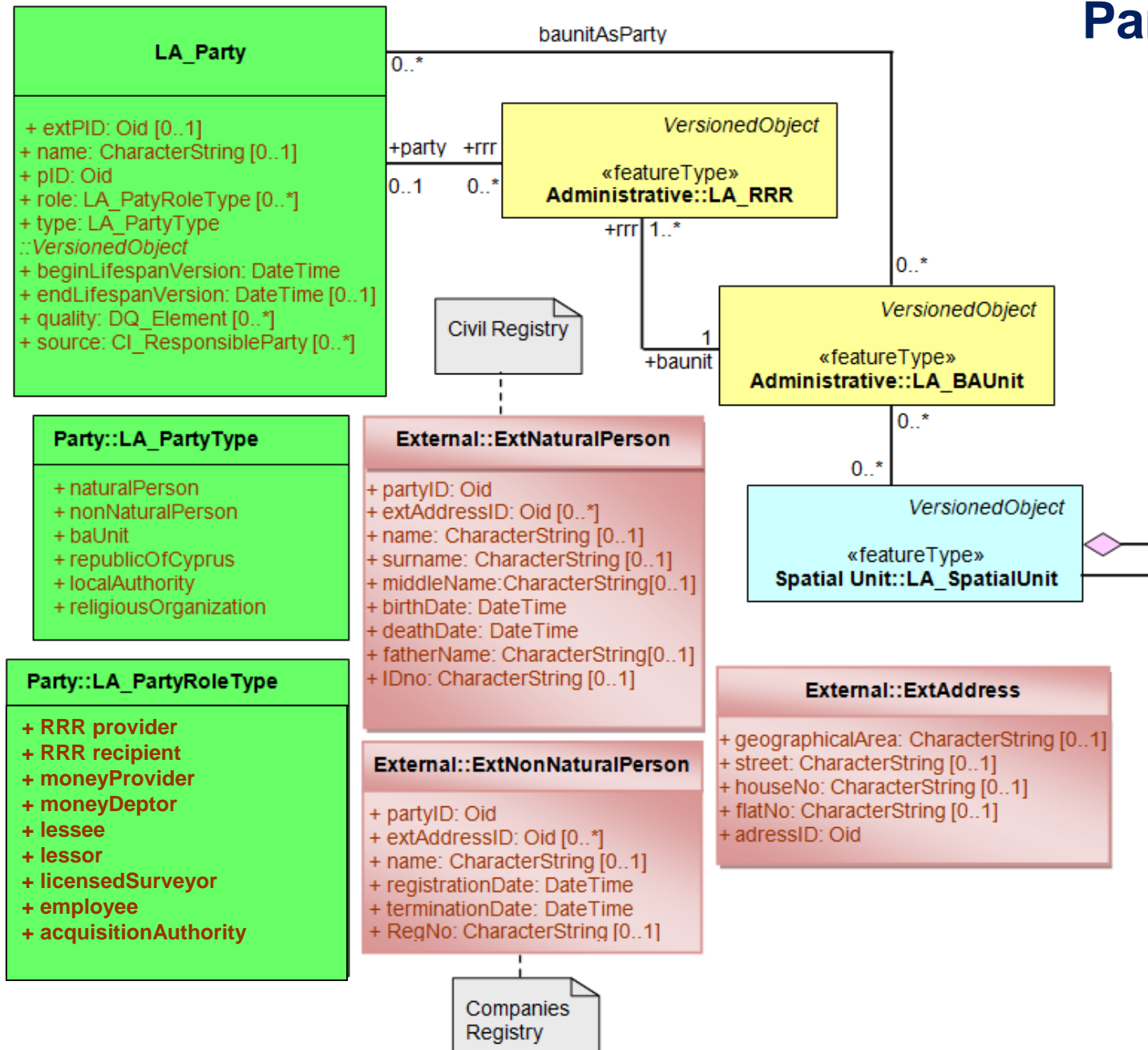
“Migration” of CLIS entities to LADM classes



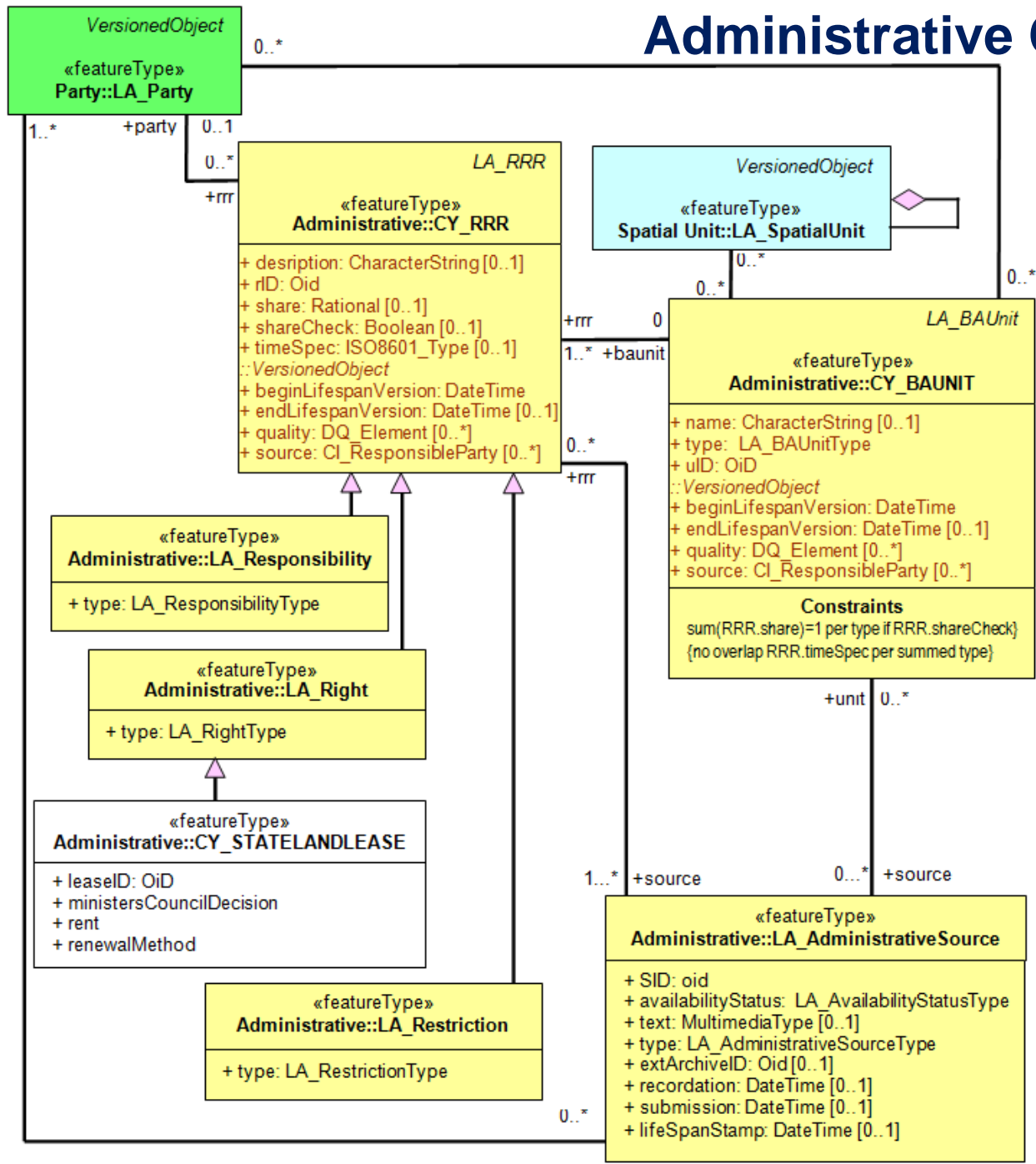
Basic classes of the proposed model



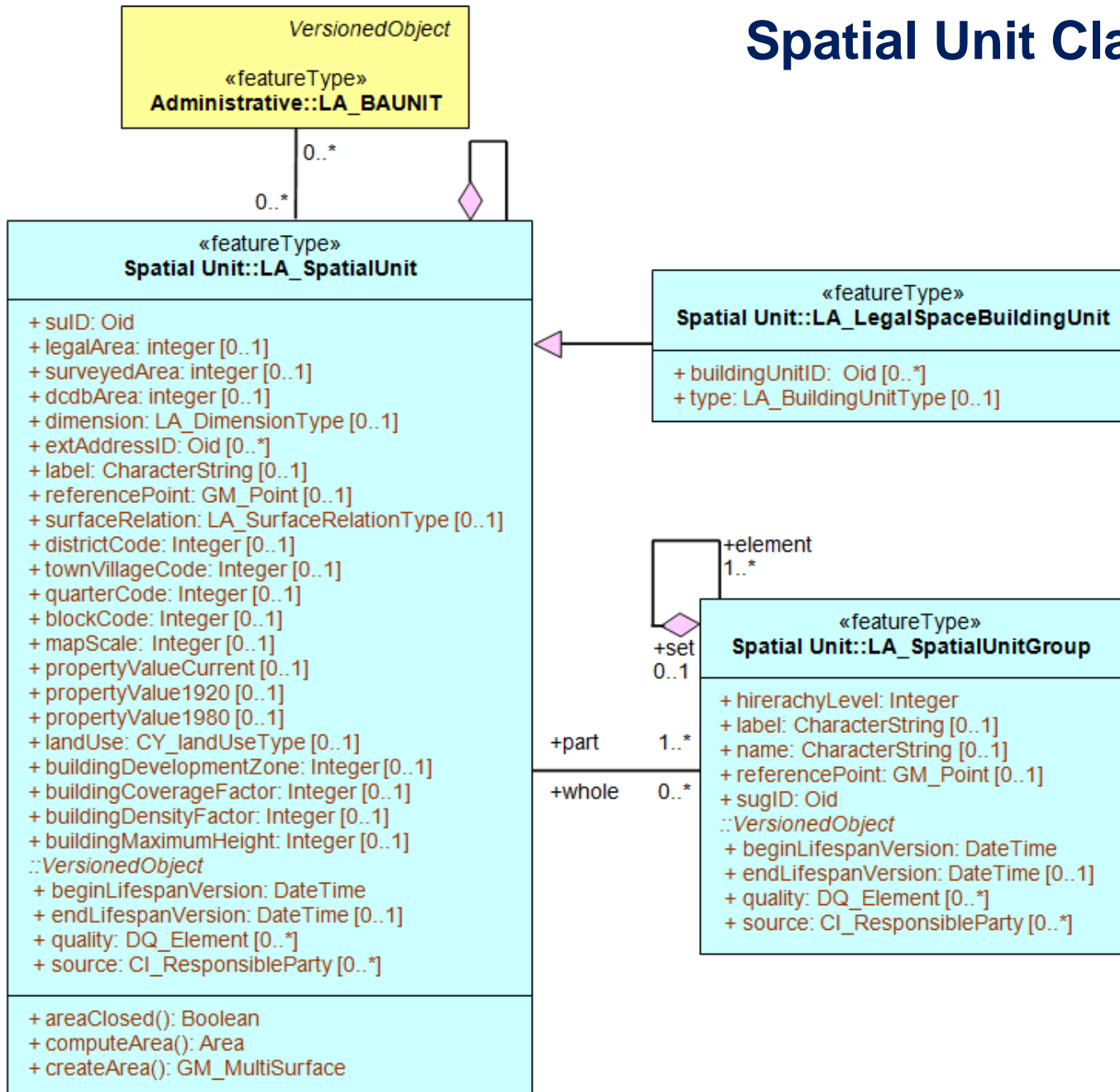
Party Class



Administrative Classes



Spatial Unit Classes



Rights vs Restrictions

Rights		Restrictions
1. Ownership		1. Transaction limitation
2. Usage (lease, management, custody, residence, usufruct)	→	2. Usage (lease, management, custody, residence, usufruct)
3. Passage/Channeling	→	3. Passage/Channeling
4. Mortgage	→	4. Mortgage

The model is designed in a way that the negative side (restriction) is derived from the positive side (right)

Rights/Restrictions/Responsibilities

<u>LA RIGHTTYPE</u>	<u>LA RESTRICTIONTYPE</u>	<u>LA RESPONSIBILITYTYPE</u>
1 OWNERSHIP	1 MORTGAGE	1 PROPERTY TAX DUE
2 DISPUTED OWNERSHIP	2 CONTRACT OF SALE	2 DLS FEES DUE
3 ILLEGAL POSSESSION	3 WRIT OF SALE	3 LEASE FEES DUE
4 ADVERSE POSSESSION	4 BANKRUPT	
5 PASSAGE	5 DISPUTED OWNERSHIP	
6 CHANNELING ACCESS	6 ILLEGAL POSSESSION	
7 STOREY ERECT	7 ADVERSE POSSESSION	
8 EXCLUSIVE USE	8 PASSAGE	
9 USUFRUCT	9 CHANNELING ACCESS	
10 RESIDENCE	10 STOREY ERECT	
11 USE	11 EXCLUSIVE USE	
12 CHANNEL ING (FOR PARTY)	12 USUFRUCT	
13 CUSTODY	13 RESIDENCE	
15 AGRICULTURAL LEASE	14 USE	
16 INDUSTRIAL LEASE	15 CHANNEL ING (FOR PARTY)	
17 FARM LEASE	16 CUSTODY	
18 TOURISM LEASE	17 AGRICULTURAL LEASE	
19 MINE LEASE	18 INDUSTRIAL LEASE	
20 FOREST LEASE	19 FARM LEASE	
21 SPORTS LEASE	20 TOURISM LEASE	
22 COMMUNAL LEASE	21 MINE LEASE	
23 UTILITY LEASE	22 FOREST LEASE	
24 SPECIAL LEASE	23 SPORTS LEASE	
25 MORTGAGE	24 COMMUNAL LEASE	
26 CONTRACT OF SALE	25 UTILITY LEASE	
27 REVENUE	26 SPECIAL LEASE	

CODE LIST

LA PARTYTYPE

- 1 NATURAL PERSON
- 2 NON-NATURAL PERSON
- 3 BA-UNIT
- 4 REPUBLIC OF CYPRUS
- 5 LOCAL AUTHORITY
- 6 RELIGIOUS ORGANIZATION

LA BAUNITTYPE

- 1 PARCEL
- 2 BUILDING UNIT
- 3 PARCEL AND BUILDING
- 3 OTHER CONSTRUCTION
- 4 LAKE
- 5 MARINE/SEA AREA
- 6 ROAD
- 7 RIVER
- 8 WELL
- 9 TUNEL
- 10 CHANNEL
- 11 OTHER

LA ADMINSOURCE TYPE

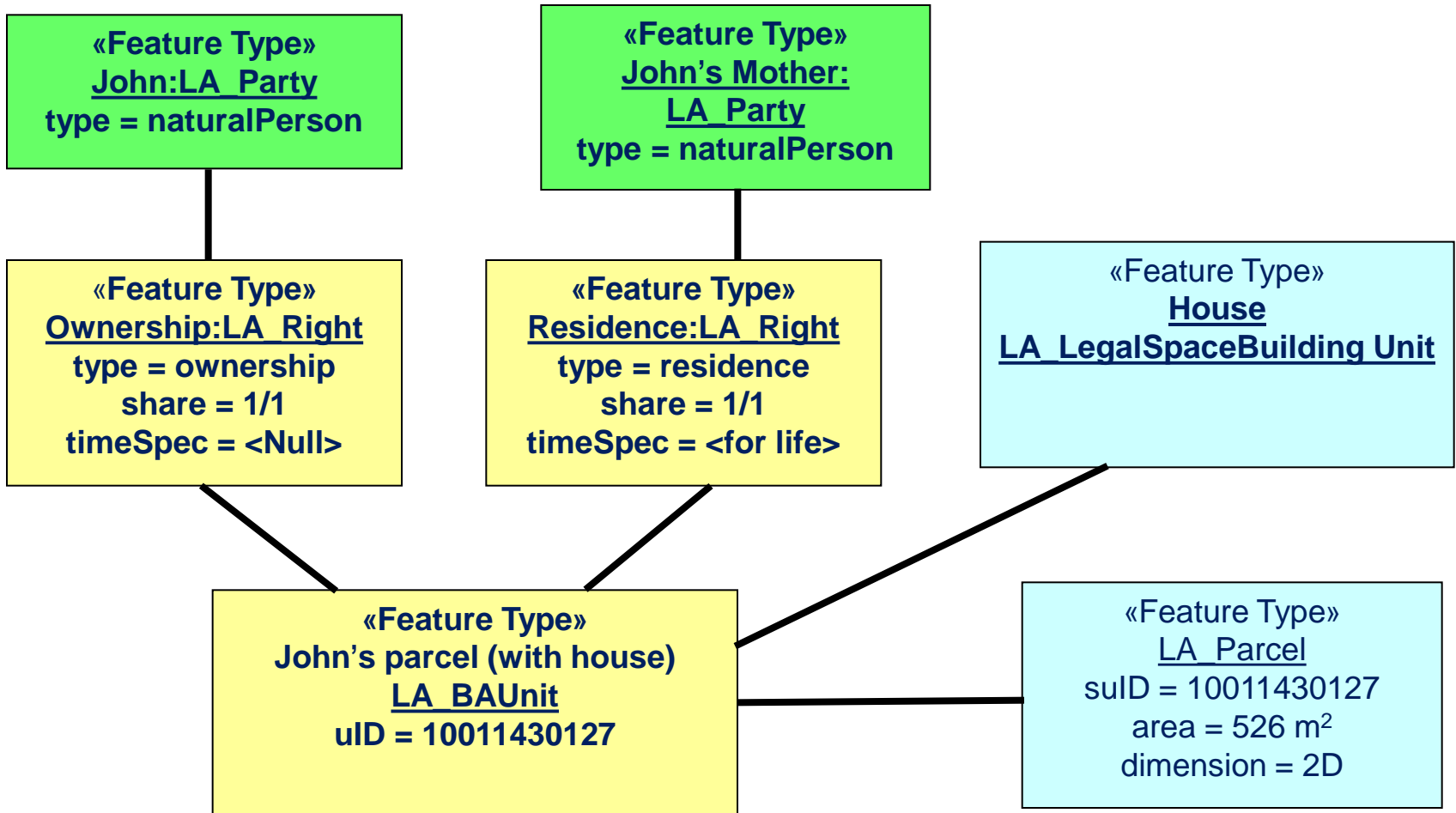
- 1 TITLE CERTIFICATE
- 2 TRANSACTION DOCUMENT
- 3 LEASE DOCUMENT
- 4 MORTGAGE DOCUMENT
- 5 CONTRACT OF SALE
- 6 RIGHT DOCUMENT
- 7 RESTRICTION DOCUMENT
- 8 RESPONSIBILITY DOCUMENT

LA AVAILABILITYSTATUS

- 1 ARCHIVED DOCUMENT
- 2 DESTROYED DOCUMENT
- 3 CONVERTED DOCUMENT
- 4 LOST DOCUMENT

Example of Instance Level Diagram

Residence Right

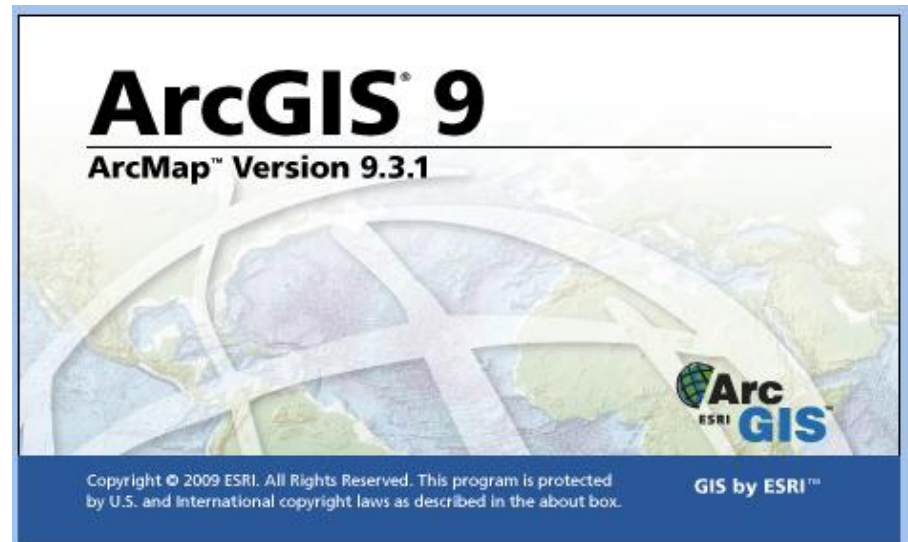
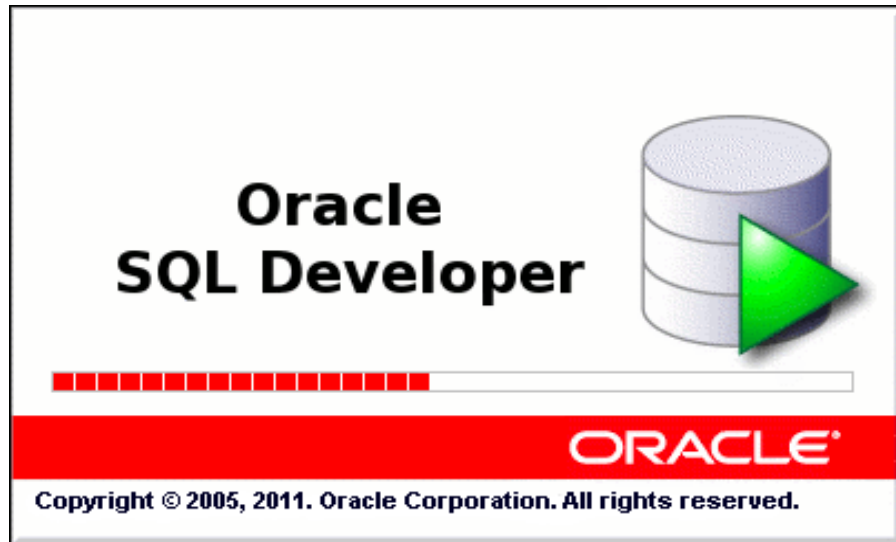


Development and pilot implementation

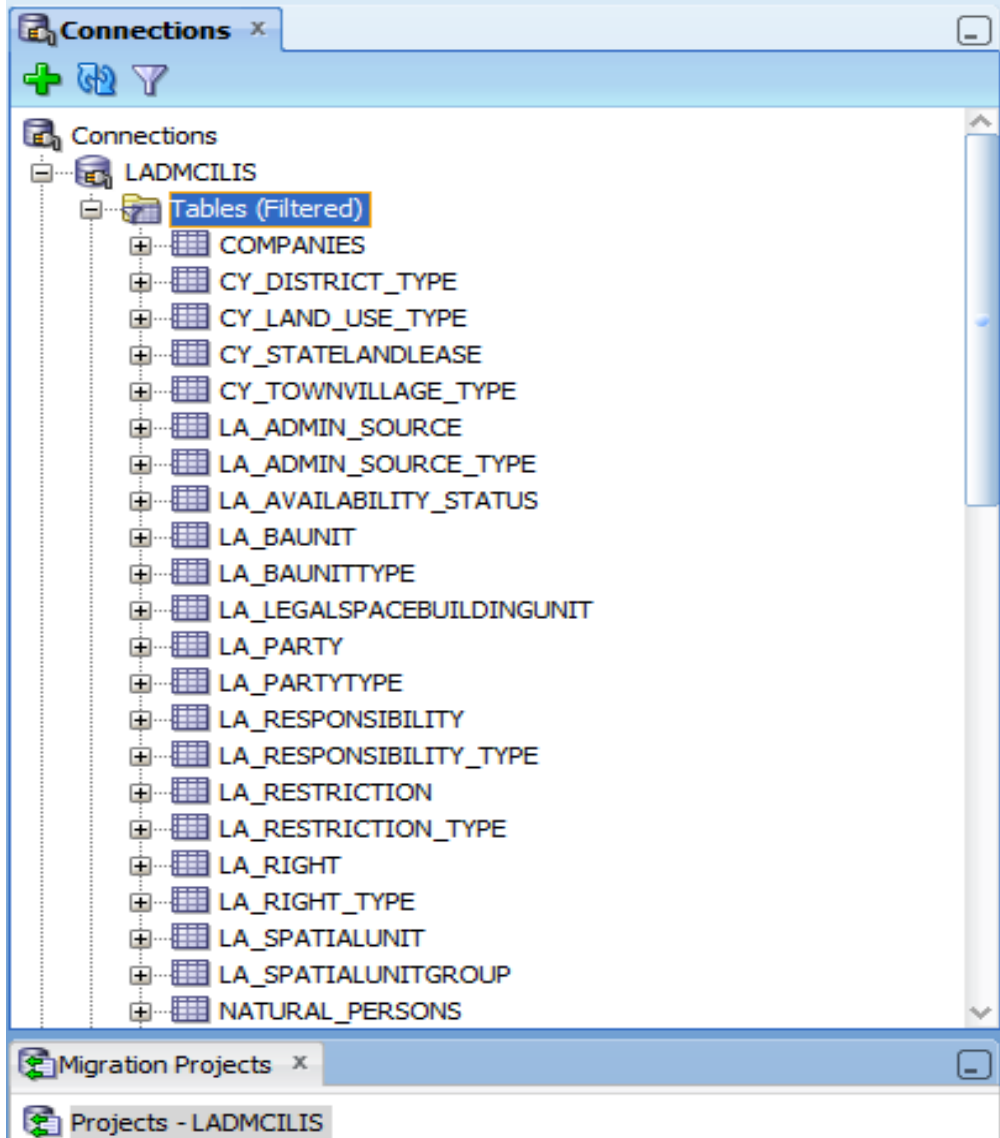


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Development of proposed model



Class creation



```
CREATE TABLE "ELIKKOS"."LA_PARTY"  
 ("PID" NUMBER NOT NULL ENABLE,  
  "EXTPID" VARCHAR2(40 BYTE), "NAME" VARCHAR2(50  
  BYTE), "ROLE" NUMBER,  
  "TYPE" NUMBER NOT NULL ENABLE,  
  "BEGINLIFESPANVERSION" TIMESTAMP (6) DEFAULT  
  sysdate NOT NULL ENABLE,  
  "ENDLIFESPANVERSION" TIMESTAMP (0), "SOURCE"  
  NUMBER,  
  CONSTRAINT "LA_PARTY_PK" PRIMARY KEY ("PID")  
  USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255  
  STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1  
  MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1  
  FREELIST GROUPS 1 BUFFER_POOL DEFAULT  
  FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT)  
  TABLESPACE "ELIKKOS" ENABLE,  
  CONSTRAINT "LA_PARTY_TYPE_DESCRIPTION"  
  FOREIGN KEY ("TYPE") REFERENCES  
  "ELIKKOS"."LA_PARTYTYPE" ("PARTY_CODE") ON DELETE  
  CASCADE ENABLE )  
  SEGMENT CREATION IMMEDIATE PCTFREE 10 PCTUSED  
  40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING  
  STORAGE (  
  INITIAL 65536 NEXT 1048576 MINEXTENTS 1  
  MAXEXTENTS 2147483645 PCTINCREASE 0 FREELISTS 1  
  FREELIST GROUPS 1 BUFFER_POOL DEFAULT  
  FLASH_CACHE DEFAULT CELL_FLASH_CACHE DEFAULT )  
  TABLESPACE "ELIKKOS" ;  
CREATE OR REPLACE TRIGGER "ELIKKOS"."PID_OID"  
before  
  INSERT ON "ELIKKOS"."LA_PARTY" FOR EACH row BEGIN  
  IF inserting THEN IF :NEW."PID" IS NULL THEN  
  SELECT PID_OID.nextval INTO :NEW."PID" FROM dual;  
  END IF; END IF; END;/  
ALTER TRIGGER "ELIKKOS"."PID_OID" ENABLE;
```

Data Input

Current System

Proposed system

LEGAL_BODY



LA_Party

PARCEL



LA_SpatilaUnit

PARCEL_MAP_REFERENCE



LA_SpatilaUnit

PROPERTY_VALUATION



LA_SpatilaUnit

PROPERTY_IDENT



LA_BAUnit

OWNERSHIP



LA_Right

V_ALL_AGREEMENTS



LA_Right or LA_Restriction

Scanned documents loaded in LA_AdministrativeSource class

The screenshot shows a software interface with a data table and an 'Edit Value' dialog box. The data table has columns for 'AVAIL...', 'ADMINISTRATIVE_SOURCE_TYPE', and 'SID'. The 'Edit Value' dialog box is open, showing 'Information' and 'Saved Data' sections. The 'Open' dialog box is also visible, showing a file named 'lease_agreement.pdf'.

AVAIL...	ADMINISTRATIVE_SOURCE_TYPE	SID
1	1	2
2	1	1

ΕΛΛΗΘΘΗ
28 ΦΕΒ. 2011
ΓΡΑΦΕΙΟ ΚΥΒΕΡΝΗΤΟΡΓΑΝΤΙΣΤΡΟΦΗΣ
ΣΕΜΠΡΟΣΑ ΣΤΡΑΒΕΛΙΑ

ΚΥΠΡΙΑΚΗ ΔΗΜΟΚΡΑΤΙΑ
ΥΠΟΥΡΓΕΙΟ ΕΣΩΤΕΡΙΚΩΝ

Αρ. Φακ.: 6.3.2.1.39/2
Αρ. Τηλ.: 22.609.465
Αρ. Φαξ: 22.609.465
Διοικ. οδός φακ.: Κ.Χ.Τ. 6.3.12.662
ΑΔΧ121/1995

23 Φεβρουαρίου 2011

Διευθυντή Τμήματος
Κτηματολογίου και Χαρτομετρίας, ✓

Σύμβαση Μίσθωσης Κρατικής γης μεταξύ της Κυπριακής Δημοκρατίας και του Σωκράτη Ανδρέα Αδάμου στην κοινότητα Σωτήρας Αμμοχώστου

Έκτα οδηγίες γ' αναφοράς στο πιο πάνω θέμα και να σας επιστρέψω ένα από τα δύο προτάσεις της Συμφωνίας, υπογραμμισμένο από το Γενικό Διευθυντή του Υπουργείου Εσωτερικών, Δρ. Λάζαρο Σ. Σαββίτη, με την παράκληση να στείλετε ταύτα στον ενδιαφερόμενο.

- Επίσης σας αποστέλλονται δύο αντίγραφα της Συμφωνίας, για τα αρχεία του Τμήματός σας.
- Αντίγραφο της Συμφωνίας αποστέλλεται επίσης για ενημέρωση του Γενικού Λογιστή, Γενικού Ελεγκτή και Επάρχου Αμμοχώστου.
- Παρακαλώ όπως διευθετήσετε για την επίκληση του μισθωτή, καθώς και για την έκδοση των υπεύθυνων όρων της Σύμβασης Μίσθωσης.

Αρ. Φακ. Υπ. Εσ. 6.3.2.1.39/2.
Αρ. Φακ. Κ.Χ.Τ. 6.3.12.662 – ΑΔΧ 121/1995
Απόφαση Υπουργικού Συμβουλίου αρ. (Α/Α3/2010/Α/35)
Ημερομηνίας 2 Νοεμβρίου, 2010

ΣΥΜΒΑΣΗ ΜΙΣΘΩΣΗΣ

ΣΥΜΒΑΣΗ ΜΙΣΘΩΣΗΣ που έγινε στις 18... Φεβρουαρίου, 20...
ΜΕΤΑΞΥ του κ. ... [Name]... [Name]... Γενικού Διευθυντή Υπουργείου Εσωτερικών, εκ μέρους της Κυβέρνησης της Κυπριακής Δημοκρατίας (που στο εξής θα αναφέρεται ως ο «Ιδιοκτήτης», όρος που θα περιλαμβάνει και τους διαδόχους του στη θέση καθώς και τους αντιπροσώπους του, εκτός αν από το κείμενο προκύπτει διαφορετική έννοια) αφ' ενός,

ΚΑΙ του Σωκράτη Ανδρέα Αδάμου από τη κοινότητα Σωτήρας (που στο εξής θα αναφέρεται ως ο «Μισθωτής», όρος που θα περιλαμβάνει τους κληρονόμους, εκτελεστές διαθήκης, διαχειριστές και νόμιμους εκδοχείς αυτού, εκτός αν από το κείμενο προκύπτει διαφορετική έννοια), αφ' ετέρου.

- Με τη Σύμβαση αυτή ο Ιδιοκτήτης εκμισθώνει και ο Μισθωτής δέχεται από την μίσθωση του ΟΛΟΚΛΗΡΟ το τεμάχιο γης, (που στο εξής θα αναφέρεται ως το «κτίμα»), το οποίο βρίσκεται στη κοινότητα Σωτήρας της Επαρχίας Αμμοχώστου και αποτελεί μέρος της κρατικής γης με αριθμό τεμαχίου 158 του Κτηματικού Σχεδίου 2-283-376, τμήμα 07, συνολικής έκτασης ενός (1)

Data management/presentation and testing of results

```
SELECT LA_BAUNIT.U_ID,  
       CY_DISTRICT_TYPE.DISTRICT,  
       CY_TOWNVILLAGE_TYPE.TOWNVILLAGE,  
       LA_BAUNITTYPE.UNIT_DESCRIPTION,  
       LA_SPATIALUNIT.LEGAL_AREA,  
       LA_SPATIALUNIT.BUILDINGCOVERAGEFACTOR,  
       LA_SPATIALUNIT.BUILDINGDENSITYFACTOR,  
       LA_SPATIALUNIT.BUILDINGMAXIMUMHEIGHT,  
       LA_SPATIALUNIT.LABEL,  
       LA_SPATIALUNIT.MAP_SCALE,  
       LA_SPATIALUNIT.DISTRICTCODE,  
       LA_SPATIALUNIT.TOWNVILLAGECODE,  
       LA_SPATIALUNIT.QUARTERCODE,  
       LA_SPATIALUNIT.BLOCKCODE,  
       LA_SPATIALUNIT.PLAN,  
       LA_SPATIALUNIT.PROPERTY_VALUE,  
       CY_LAND_USE_TYPE.LAND_USE_DESCR,  
       LA_PARTY.NAME,  
       LA_RIGHT_TYPE.RIGHT_DESCRIPTION,  
       NULL RESTRICTION_DESCRIPTION,  
       LA_RIGHT.RIGHT_SHARE  
FROM LA_PARTY,  
     LA_RIGHT_TYPE,  
     LA_RIGHT,  
     "LA_RIGHT" CATEGORY,  
     LA_BAUNIT,  
     LA_BAUNITTYPE,  
     LA_SPATIALUNIT,  
     CY_DISTRICT_TYPE,  
     CY_TOWNVILLAGE_TYPE,  
     CY_LAND_USE_TYPE  
WHERE LA_RIGHT.PID = LA_PARTY.PID  
AND LA_RIGHT.RIGHT_TYPE = LA_RIGHT_TYPE.RIGHT_TYPE  
AND LA_RIGHT.U_ID = LA_BAUNIT.U_ID AND  
LA_BAUNIT.U_TYPE = LA_BAUNITTYPE.UNIT_TYPE  
AND LA_BAUNIT.U_ID = LA_SPATIALUNIT.U_ID  
AND LA_SPATIALUNIT.DISTRICTCODE = CY_DISTRICT_TYPE.DISTRICT_CODE  
AND LA_SPATIALUNIT.TOWNVILLAGECODE = CY_TOWNVILLAGE_TYPE.TOWNVILLAGE_CODE  
AND LA_SPATIALUNIT.LAND_USE = CY_LAND_USE_TYPE.LAND_USE_ID  
AND LA_BAUNIT.U_ID = 29952
```

```
UNION  
SELECT LA_BAUNIT.U_ID,  
       CY_DISTRICT_TYPE.DISTRICT,  
       CY_TOWNVILLAGE_TYPE.TOWNVILLAGE,  
       LA_BAUNITTYPE.UNIT_DESCRIPTION,  
       LA_SPATIALUNIT.LEGAL_AREA,  
       LA_SPATIALUNIT.BUILDINGCOVERAGEFACTOR,  
       LA_SPATIALUNIT.BUILDINGDENSITYFACTOR,  
       LA_SPATIALUNIT.BUILDINGMAXIMUMHEIGHT,  
       LA_SPATIALUNIT.LABEL,  
       LA_SPATIALUNIT.MAP_SCALE,  
       LA_SPATIALUNIT.DISTRICTCODE,  
       LA_SPATIALUNIT.TOWNVILLAGECODE,  
       LA_SPATIALUNIT.QUARTERCODE,  
       LA_SPATIALUNIT.BLOCKCODE,  
       LA_SPATIALUNIT.PLAN,  
       LA_SPATIALUNIT.PROPERTY_VALUE,  
       CY_LAND_USE_TYPE.LAND_USE_DESCR,  
       LA_PARTY.NAME,  
       NULL RIGHT_DESCRIPTION,  
       LA_RESTRICTION_TYPE.RESTR_DESCRIPTION,  
       LA_RESTRICTION.RESTR_SHARE  
FROM LA_PARTY,  
     LA_RESTRICTION_TYPE,  
     LA_RESTRICTION,  
     "LA_RESTRICTION" CATEGORY,  
     LA_BAUNIT,  
     LA_BAUNITTYPE,  
     LA_SPATIALUNIT,  
     CY_DISTRICT_TYPE,  
     CY_TOWNVILLAGE_TYPE,  
     CY_LAND_USE_TYPE  
WHERE LA_RESTRICTION.PID = LA_PARTY.PID (+)  
AND LA_RESTRICTION.RESTR_TYPE = LA_RESTRICTION_TYPE.RESTR_TYPE  
AND LA_RESTRICTION.U_ID = LA_BAUNIT.U_ID AND  
LA_BAUNIT.U_TYPE = LA_BAUNITTYPE.UNIT_TYPE  
AND LA_BAUNIT.U_ID = LA_SPATIALUNIT.U_ID  
AND LA_SPATIALUNIT.DISTRICTCODE = CY_DISTRICT_TYPE.DISTRICT_CODE  
AND LA_SPATIALUNIT.TOWNVILLAGECODE = CY_TOWNVILLAGE_TYPE.TOWNVILLAGE_CODE  
AND LA_SPATIALUNIT.LAND_USE = CY_LAND_USE_TYPE.LAND_USE_ID  
AND LA_BAUNIT.U_ID = 29952
```

IMMOVABLE PROPERTY CERTIFICATE of RIGHTS/RESTRICTIONS

District: Famagusta

Registration ID: 29952

Town/Village: Agia Napa (3100)

Quarter: 0

Area: 678 sq. m.

Block: 4

Sheet/plan: 2-290-373

Parcel No: 134

Property kind: Parcel with building

Scale: 1:2000

Planning Zone: Residential

Coverage factor: 0.50

Building factor: 0.90

Maximum Height: 8.30

Value: €167000

RIGHTS

a/a	RIGHT	SHARE	PARTY/UNIT	ID
1	Ownership	1/2	George Zacharia Demosthenous	547189
2	Ownership	1/2	Androula George Demosthenous	689191
3	Residence	1	Maria Zacharia Demosthenous	45689

RESTRICTIONS

a/a	RESTRICTION	SHARE	PARTY/UNIT	ID
1	Mortgage		Bank of Cyprus	c789
2	Passage		29981	29981

Date: May 30, 2012

RIGHTS/RESTRICTIONS CERTIFICATE OF A PARTY

Name: Nikos

Surname: Georgiou

Middle Name: Andreas

ID Number: 456789

RIGHTS

a/a	RIGHT	SHARE	UNIT	PROPERTY KIND	TOWN/ VILLAGE
1	Ownership	1/2	78934	PARCEL	Sotira
2	Ownership	1/2	89789	PARCEL WITH BUILDING	Paralimni
3	Ownership	1	18789	PARCEL WITH BUILDING	Sotira
4	Ownership	1	767	PARCEL	Paralimni
5	Agricultural Lease	1	34456	PARCEL	Sotira

RESTRICTIONS

a/a	RESTRICTION	UNIT	PROPERTY KIND	TOWN/ VILLAGE
1	Usufruct	767	Parcel	Paralimni
2	Transaction Prohibition			

Date: May 30, 2012

Conclusions



WORKSHOP
LADM from Research to Implementation
– Land Administration Domain Modelling at a threshold
Delft, 6 July 2012

Advantages of proposed model

- Rigid structure and efficient administration of all RRRs in CLIS.
- Clarification of the concept of **IMMOVABLE PROPERTY** and inclusion of sea/marine areas.
- The **ADMINISTRATIVE SOURCE** class solves the problem of handling paper documents.
- The **STATE** is defined as one of the other parties with RRRs associated with it.
- The model supports **INTEROPERABILITY** and the implementation of an e-Cadastre and an e-PAS (Property Administration System)

It is estimated that the development of the new CLIS will cost up to € 45.000.000

January 2012

DEPARTMENT OF LANDS AND SURVEYS

EXECUTIVE SUMMARY

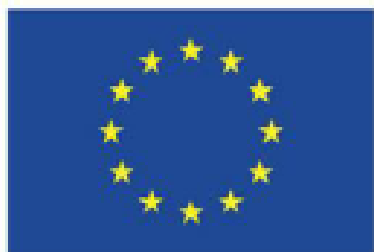
of the tender documents

for the Preparation of a Strategic Plan for the Department of Lands and Surveys and Three Tender Document Sets for the Development of a new Land Information System, the Development of an Infrastructure for Spatial and Other Data in Cyprus and the Implementation of a Pilot Program

Contract Budget:

Six hundred ninety one thousand three hundred four euro (€691.304)

without V.A.T.



EUROPEAN UNION



The project is co-financed 85% by the European Regional Development Fund and 15% by national resources

The tender document specifies that:

5.3.6.2 ISO “LAND ADMINISTRATION DOMAIN MODEL”

The development of the new CLIS should be based on the Land Administration Domain Model (LADM). LADM is under development within the Technical Committee 211 (TC211) of the International Organization for Standardization and identified as ISO 19152...

Conclusion

The adoption of LADM is a great opportunity for the Cyprus Department of Lands and Surveys to introduce an ISO standard model, improving and expanding the services provided by CLIS and the broader Property Administration System to the Cyprus community.

Conclusion

The new functionality includes: better structuring of the rights, responsibilities and restrictions (and related source documents), better fitting in the information infrastructure both national (e.g. registration, valuation, taxation) international (e.g. INSPIRE cadastral parcels), and future capabilities for representing 3D spatial units (e.g. legal spaces related to apartment or utility infrastructure).

THANK YOU FOR YOUR ATTENTION

