Egyptian National Cadastre Information System

(Challenges & Lessons learned)

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Establishment of Title registration



Updating of Title Registration



BaseLine Study

Results from Village 1



 Only one fourth of the land units, parcels, found in the reality, were also found, with correct ownership information, in ESA's and REPD's registers.

Baseline Study

Results from Village 1

Comparison between the Reality and the Formal System (in REPD and ESA).



100% equals 1770 parcels (as perceived by the people in the Reality)

Baseline Study

Results from Village 1

Comparison between the Cadastral Certificates and the Reality



100% equals 1107 Cadastral Certificates (i.e. legally registered parcels)

Baseline Study

Results from Village 1



- Number of Cadastral Certificates is 1107. (100% = 1107)
- RETD's Mukalafa is matching with only 514 of them. So in 593 parcels, the legal registration information was NOT updated into Mukalafa.

Registered parcels compared to reality









- Objective Study
- Demand Study
- System Study
- System Construction
- System Implementation

Objectives Study

Problem Analysis

Relative ratio of transaction type



voluntary transfere
registration of verdicts
Court Claims

Objectives Study

Problem Analysis

Problems	Reasons	Measures	Benefits
Ineffective cadastral information system	Complicated procedures and little use of IT.	IT environment and more efficient procedures.	Effectiveness of cadastral work.
	No clear and up-dated instructions.	Produce clear instructions.	
Different methods for establishing the cadastre and handling updating	Separate development projects with foreign support, lack of coordination by ESA.	Develop one unified system, taking the previous experiences into account.	One unified system is less costly to maintain than many different ones.
Important documents sometimes get lost or are duplicated, resulting in unclear information.	Insufficient facilities and rules for archiving original documents.	Introduce digital environment with sufficient security measures.	More efficient work in ESA and better working environment.
Monitoring of cadastral matters is difficult within ESA	Information is redundant and distributed in different offices	Digital environment.	More efficient work.
		restructuring.	of ESA.



Problem Analysis

Land Expropriation for public utilities

12	13	14	15	

Objectives Study

Problem Analysis temporal Parcels



Objectives Study highlights

ESA & REPD took some strategic decisions before continuation with the next development phase ...

The Demand Study



•It shows that System Development is:



& Should be defined by both parties and the consultant company



Conversion of Maps, Forms and Titles



Establishment of Database







Project Sites



محافظة البحيرة الاقليمية<u>ً</u> محافظات تابعة: - المنوفية

محافظة الجيزة الاقليمية محافظات تابعة: - القليوبية - الفيوم

محافظة المنيا الاقليمية محافظات تابعة: - بني سويف



Cadaster System allover Egypt

> محافظة دمياط الاقليمية محافظات تابعة: - بورسعيد - الدقهلية

محافظة كفر الشيخ الاقليمية محافظات تابعة: - الغربية

محافظة الشرقية الاقليمية حافظات تابعة: - الاسماعيلية - السويس

محافظة أسيوط الاقليمية محافظات تابعة: - سوهاج - قا - أسوان

Regional IT Centers in 7 Governorates A training program for the staff operating the new ITsystem has been developed and tested in one governorate.

DEVELOED SITES (94 sites)



National Cadaster Project Outputs (APPLICATION OF TRANSACTION)





Used Technology



:IP Phone لتسبهيل الاتصال بين المراكز الرئيسية والإقليمية والمكاتب التابعة لها





Number of visits before and after applying the Cadaster System



Visits of the citizen	م	
Submission of the request	1	
Documenting the deed		
Receiving the Title		

Extracting inf. About property



We must know the full extent of problems before designing a project to bring solutions

Poor existing systems should not be computerized until after major improvements

New systems must be well understood by all, and enforced, or the old systems will prevail

Land administration involving more than one ministry does not work well in developing countries

Any organization should only store and update its own information

Developing IT-systems under stress does not create robust solutions

Geodetic aspects are important for mapping projects - to know and improve accuracy

Recommendation 1 for LA Projects

Solve the problem with non-registration in rural areas, or Title Registration information will be increasingly irrelevant Recommendation 2 for LA Projects

Ensure that development components are timed properly

Common Timing Problems in LA Projects

- Premature data capture
- Equipment bought too early
- New laws too late

Recommendation 3 for LA Projects

Model the "perfect system" first – then check against existing system Recommendation 4 for LA Projects

Look seriously at the legal framework - law changes take long time to implement.

Thank You!

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