Building an Egyptian Nationwide Title Cadastre System

June, 2008

Agenda

• Rural Cadastre Project Overview
  – Project Objectives
  – Project Phases
• Cadastre Service Re-Engineering
• Rural Cadastre System Overview
Project Background

- **Involved Agencies:**
  - Technical Advisor and Coordinator
    *Ministry of Communication and Information Technology*
  - **Beneficiary:**
    *Egyptian Survey Authority*
    *Minister of Justice*

- **Project Start:** June 2005

- **Project Budget:** 21.5 Million $ USD
Project Objectives

• Secure lands ownership
• Activate properties investment market
• Centralized control for cadastre information
• Integrate Cadastre/Registry services
• Cadastre data accessibility for properties management entities
• Service improvement and workflow optimization
• Provide Cadastre data for national strategic projects
• Develop and monitor strategic statistical KPI’s
• Building reliable and extendible registration system

Project Phases

The National Project for Automating Rural Registration is divided into 3 phases with the following objectives:

✓ Phase I: Building Cadastre Data Infrastructure

✓ Phase II: Registration Service Improvement

✓ Phase III: Roll out to all rural provinces
Phase I

Project Scope – Phase I

Scope: Data Conversion & Constructing Database for Agriculture Lands

- Converting all available analog maps and AutoCAD files to digital format: 138,327 Map sheet, scale 1:1000, 1:2500
- Converting all ownership information to digital format, around 6 Million
- Linking between the two databases
Project Scope – Phase I

- Linking properties with related docs

- Deed
- Request
- Correspondences
- others

Central GeoDatabase
Repository

Legacy Database
Conversion Procedures
Verification Procedures

www.esrinea.com
Phase II

Project Scope – Phase II

**Scope: Title Based Cadastre Automation**

- Re-Engineer the registration process to improve the service
- Develop an automated workflow system for land registration
- Building an integrated extendable system using SoA technologies
- Apply the “One Stop Shop” concept
- Provide the registration services via internet
Cadastre Service Re-Engineering

BPR – Study the current service:

Define processes for each operation

Define workflow for each process

Define information requirements

External from the client

Internal from the system

Define role based authorization depending on the job legal requirements

Define needed spatial layers
Service Re-Engineering Objectives:

- Follow the operational aspect of the service
- Eliminate bottlenecks within the service flow
- Standardize the service inputs and outputs
- Improve the working environment for better service
- Unify internal and external communication channels
- Apply the global cadastre standard
- Build the required infrastructure (IT, Operation, Construction...)
- Build the required capacities
Re-Engineered Service – Comprehensive Workflow:

Employing Service Oriented Architecture for integration

Rural Cadastre System Overview
Solution Requirements – Distributed System

Solution Requirements – Geodatabase Replication
Transaction Attachments Archiving

Transaction Dues Handling
Transaction Routing

Survey Scheduling
Survey Data Upload

Survey Data Editing
Survey Data Validation

CIF Issuance
Transaction Data Validation

Transaction Status Notification
Transaction Contract Registration

Land Title Production
Land Title Issuance

Project Launching
Thank You