Institutional and Information Model of Hungarian Land Consolidation

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State analysis after privatisation and compensation processes

Land reform, 1991-1992

-Distribured land : 90,4 million AK, 5,8 million hectares

- Consequence:
  - The big fields became several small parcels
  - On small parcels it is not suitable to produce marketable produce

(AK- Gold Crown: land valuation unit)

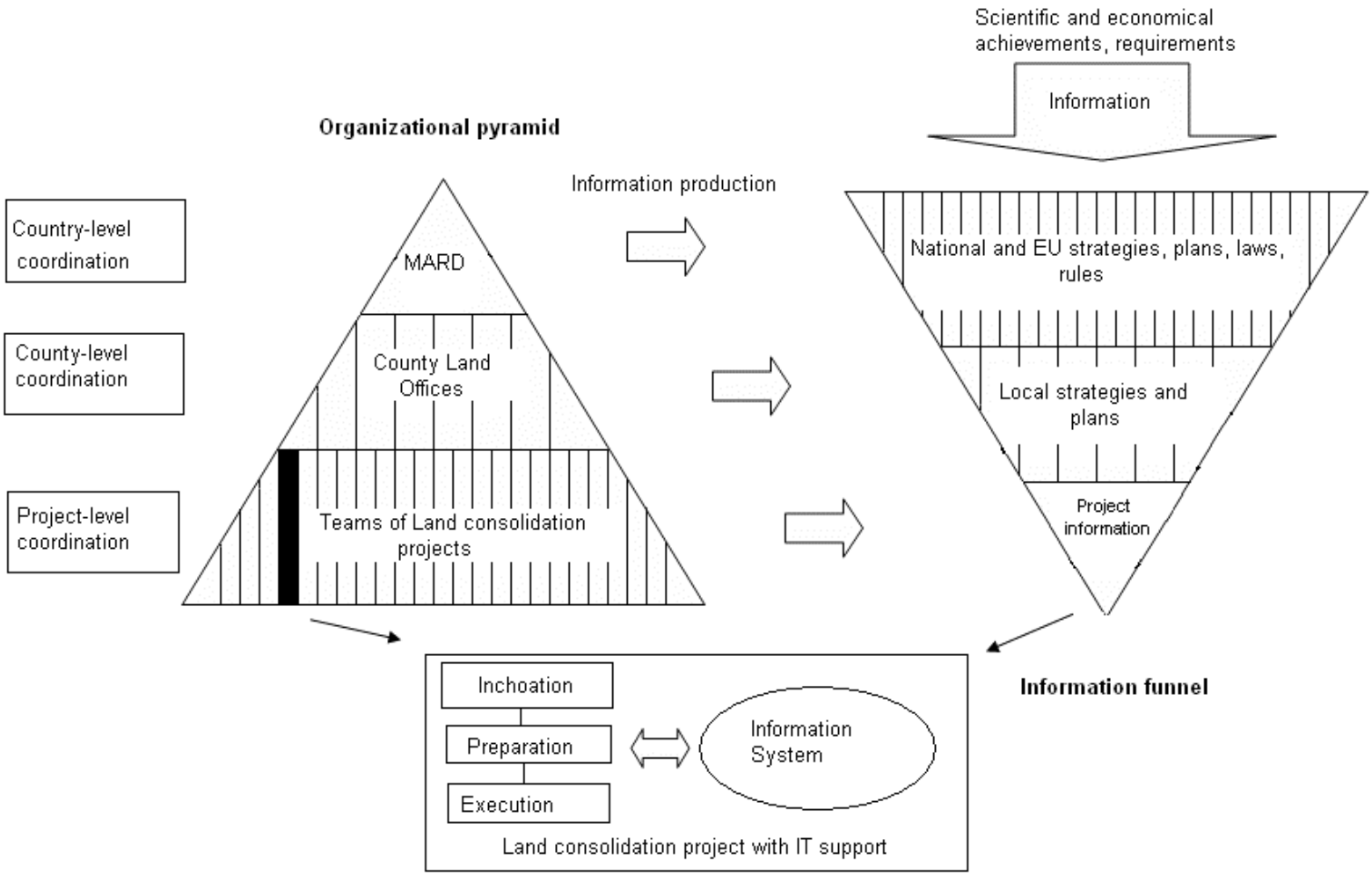
Projects for Hungarian Land Consolidation

- TALC – Technical Assistance for Land Consolidation in Hungary
  - Results: proposal for a land consolidation process model, a policy of land consolidation,
- Hungarian Land Consolidation Strategy
- BIME (Analysis of the Information Model of Land Consolidation), aim:
  - A model for supporting decision making procedure of land consolidation,
  - Integrating heterogenous data sources,
  - GIS support

Land Consolidation as a complex system

- System approach
- Organizational structure
- Information model

Information model

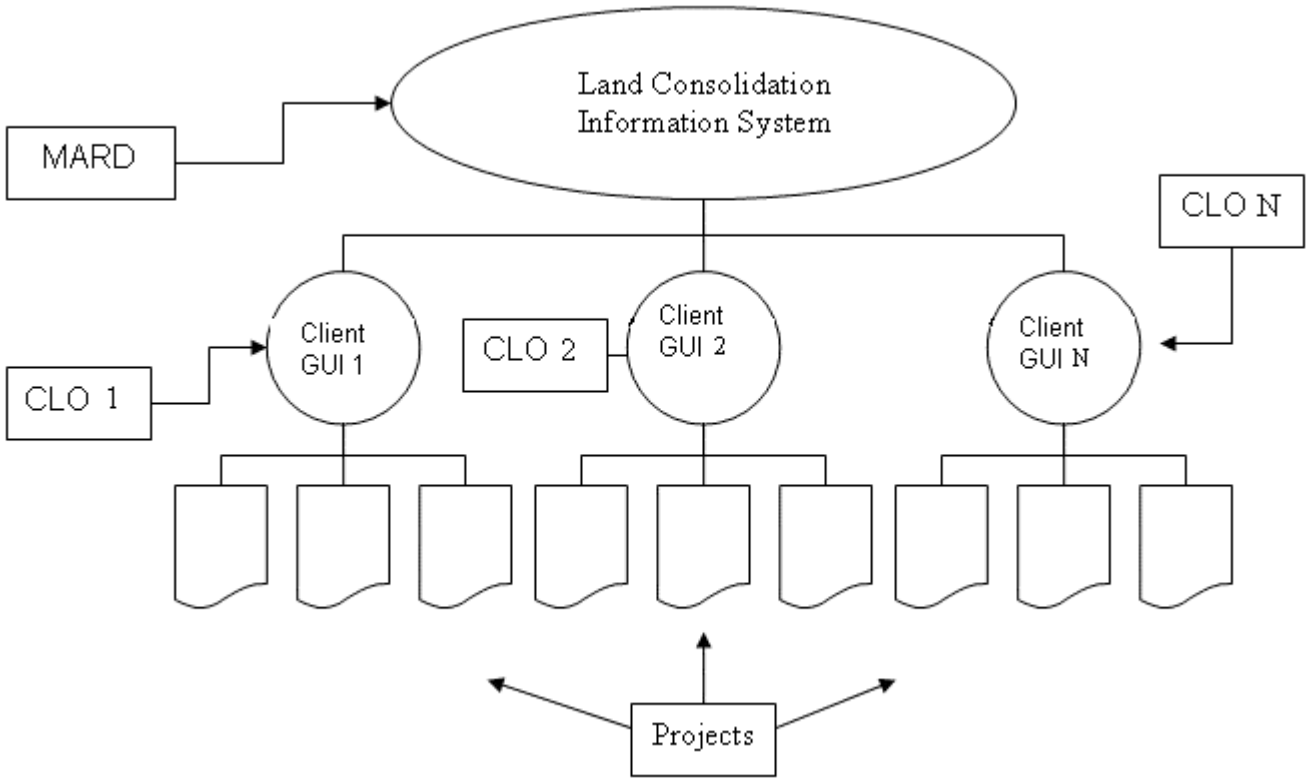


LCIS

Land Consolidation Information System

- Topology concept
- Initial use case model of projects

Topology concept



Use cases of project

- At present an initial use case model is created based on the National Land Consolidation Strategy.
- Actors: Coordinator, Farmer, Land Consolidation Committee.
- Coordinator starts the project and tracks it. Farmer is the interested person. Land Consolidation Committee prepares and executes the land consolidation project.
- There are 3 main phases of land consolidation: inchoation, preparation, execution. Therefore 3 sub diagrams were created within the main use case diagram.

Main diagram

Chart Name: Land Consolidation
Chart Type: UML Use Case Diagram