The computerised land re-allotment process in Turkey and the Netherlands in multi-purpose land consolidation projects

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Louisa J. M. Jansen (Netherlands), Mustafa Karatas, Gürsel Küse (Turkey), Christiaan Lemmen and Rik Wouters (Netherlands)

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Introduction

- Co-operation Government-to-Government (G2G): Technical Assistance with respect to computer-application and GIS-databases in relation to land re-allotment

- 8 million hectares to be consolidated in the coming years
- Modernisation of the cadastre

The Land Consolidation Process

- Legal Framework (NL 1, TR 3)
- Legal Task Cadastre (NL Y, TR No)
- Baseline data:
  - Map, Registers: (NL digital, Turkey Not)
  - GNSS
  - Orthophotos
  - Soil maps
  - Inventory of farmers' preferences
- Location of farms
The Land Consolidation Process

- Private companies
- Based on farmers’ preferences
- Land-use rights
- Allocation
- Double survey of boundaries

Functional Requirements

One LIS and Database per project

- Land Administration is very complex: Persons-Group-Persons-Rights-Parcels-NewParcels
- Data sharing
- Land Consolidation is also cadastral renovation
- Different co-ordinate systems – means different areas and values in different environments for the same object
Data model

Data: use rights or ownership rights?
Technical Requirements

- Hardware + Hardware experts
- Platform + System managers
- Software + Software experts
- Network + Network managers
- Database + Database managers
- Application Software + System developers

- Remote, on site, outsourced, ...

Conclusions

Cadastral Renovation included

- Check on completeness: people may not lose rights
- Multi-disciplinary and multi-institutional approach
Participation in international fora

• In order to promote its policy Kadaster also takes part in international forums, e.g., UNECE/WPLA (United Nations Economic Council for Europe / Working Party on Land Administration), Global Land Tool Network from the UN Habitat, FAO and FIG (International Federation of Surveyors).

• We are also responsible for OICRF, the International Office of Cadastre and Land Records. This centre is a permanent institution of the FIG. The library comprises more than 8000 digital documents about all aspects of land administration. Every day students, PhD candidates and professionals download documents.

More information:  
http://www.kadaster.nl/international-english/default.html

Thank you for your attention