Basic requirements for a successful Land Consolidation

From Land Fragmentation to Land Consolidation

Mats BACKMAN, Sweden
Fragmentation in the county of Dalarna – consequences for society

- Fragmented area approx. 500,000 hectares
- Extra costs per year for land register, cadastre and taxation 1.7 Million USD
- Extra costs per year for municipalities, National Road Adm., National Railway Adm., telecommunication companies and electric power suppliers 1.7 Million USD
- Perpetual capitalized extra costs for society 112 Million USD
Fragmentation versus Land Consolidation
Land Consolidation – benefits from the viewpoint of society

- Highly decreased costs for authorities
- Highly decreased costs for National Road administration, National Rail administration, telecom enterprises and electric power suppliers etc.
- Higher quality in cadastre and cadastral index maps
- Increased activities and employment in forestry
- Increased tax revenues

Subsidies are a very profitable investment for society!
Land Fragmentation – consequences for landowners

- Small parcels and fragmented structure cause high costs for management, silviculture and logging
- Small narrow parcels cause high costs for the cleaning of boundaries and risk for conflicts
- Insufficient access to roads
- Complex ownership situation
Mrs Arkeberg´s situation before Land Consolidation

- Area 35 hectares
- Distributed in 9 villages
- Ownership in 71 real properties (separate designations)
- Shares in 189 joint properties
- Properties and joint properties distributed in 532 parcels
- 100 % ownership in only one property unit (her building site)
Mrs Arkeberg’s situation after Land Consolidation

- Area 61 hectares (36 hectares her own property and 25 hectares in 2 joint properties)
- Her property allocated in 1 village
- 100% ownership in 1 real property
- Shares in 2 joint properties for hunting and common use
- Parcels (2 her own and 24 in joint properties)
Benefits of Land Consolidation from the viewpoint of a landowner

- Low costs for management, silviculture and logging are accomplished by large and well-consolidated parcels

- 80 – 95 % reduction of the number of property units, parcels and length of boundaries

- Direct benefits are approximately four times larger than the costs of the procedure

- Increased timber production

- Good access to roads

- Clear and well-cleaned boundaries

- Improved ownership situation
Costs for Land Consolidation - influencing factors

- Very skilled cadastral staff is necessary especially in mediation and negotiation
- Degree of fragmentation
- Number of real properties/parcels
- Number of landowners and their attitude
- Size of the consolidation area
- The length of all boundaries which have to be surveyed
Main costs for a Land Consolidation project

- Investigation of the composition and size of every owner’s holding
- Individual talks at meetings where the landowners can express their wishes and interests, so called “days of wishes”
- Valuation of all properties
- Elaboration of the re-allotment design
- Mediation and negotiation
- Surveying of the new boundaries
- Decision making
Non-Measurable advantages of Land Consolidation

- Improved rural conditions
- Increased market values for consolidated properties
- Improved ownership conditions
- Improved infrastructure e.g. road network
- Accurate property registers and cadastral index maps
- Increased employment, activities and tax revenues
- Improved supervision of the management of farms
A positive public opinion is decisive for a successful Land Reform

- A compulsory Land Reform is superior to a voluntary Land Reform in highly fragmented areas
- Benefits can only be realized by a successful Land Reform
- Frequency of appeals to court in Sweden among 10 500 participating landowners in Sweden during 1975 -2009
  - 33 landowners appealed but only 7 appeals were approved by court or less than 0,1 %
Is Land Consolidation a profitable investment or not?

Land Consolidation is a very profitable investment for both society and land-owners

Thanks for your attention!