

# Land Consolidation

as

## A tool for environmental issues



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## ■ Overview ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

- ? Term - Land Consolidation
- ? LC in the Czech Republic
- ? Barriers and possibilities
- ? Experience abroad
- ? Conclusions

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## ■ Term LC ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Land Consolidation (LC) is a process of new arrangement of parcels and ownership in a defined territory.

Combination of 2 interests

- Landowners' interest (location, shape, soil quality, ownership fragmentation...)
- Public Interest (agricultural, environmental, social-economic conditions...)

Relation between these two forms of interest specifies each LC process and plays the main role in successful steering of all activities.

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## ■ Czech LC ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

- New approach after 1989, main goal - restitution
- Development from simple to comprehensive LC (1995)

Land Consolidation is **spatial and functional organization** of agricultural plots and a tool for creating conditions for **rational farming** for the land owners. And also LC is a tool for improvement of environmental conditions, for **environmental protection** and for increase of **ecological stability** in the landscape. *Land Consolidation Act, No. 139/2002 Coll.*

- Central Land Consolidation Office (Prague)
- Land Consolidation Offices ( 78 district authorities, 1107 employees)

Results:

- ✓ New arrangement of plots and ownership rights
- ✓ New digital cadastral map
- ✓ Poly-functional skeleton of the landscape (common measures)

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## ■ Study question ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

- How effective is the LC in the Czech Republic ?
- How could LC be an effective tool for environmental issues?

Land Consolidation is **spatial and functional organization** of agricultural **plots** and a tool for creating conditions for **rational farming** for the land owners.

→ Statistic research (data collected and available)

And also LC is a tool for **improvement of environmental conditions** for **environmental protection** and for **increase of ecological stability** in the landscape.

→ No investigation ... key task

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## ■ Statistic data ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Facts about LC in the Czech Republic:

- Cadastral area is a **working unit** for LC → **13.000** areas
- Finished LC in 17 years since 1989 → **468** areas

→ 4% finished → 200 years for the rest (63 areas/year)

**Is this the future of LC in the CR?**

Which are our needs, possibilities and new ways?

Other statistic data:

- Number of plots before LC: 450.000 plots- after: 221.500 plots
- Number of titles deeds before: LC 70.000- after: 69.000 titles deeds
- Average area of plots before LC: 0.43 ha - after: 0.88 ha
- AVERAGE DURATION: 5,5 years

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## ■ Investigation ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

- Barriers
- Lack of interest (private, public)
  - Lack of financial support
  - Conflict of interest
- Reasons
- Unknowingness
  - Weak politic will

Consequences and enemy for the environmental LC

- Slow down the process
- Restrictions, Stop development
- Devalue the effort, Low public profit

Solutions

- Give information and promote the importance based on a investigation
- Show concrete cases
- Search for **experience abroad**

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## ■ LC abroad ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Different conditions

- Historical background, agricultural and social-economic state, and cultural tradition

Danish experience

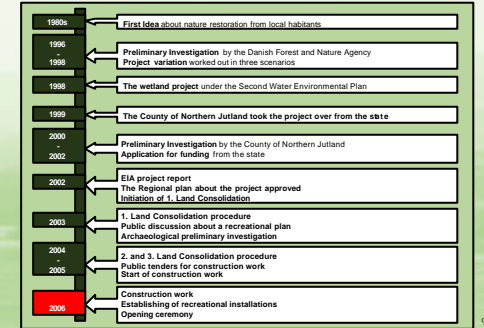
- 1980's development to environmental LC
- Concrete project has been implemented (Vilsted Lake, Drastrup Project, Skjern River, ...)

Differences

- Institutional framework
- Data network, cooperation
- Foundation
- **Implementation**

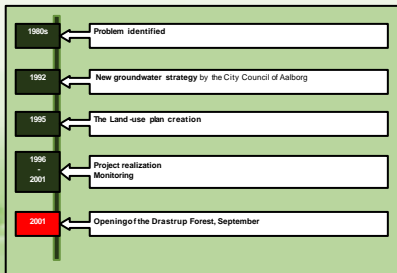
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## ■ Vilsted Lake ■ ■ ■ ■ ■ ■ ■ ■ ■ ■



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## ■ Drastrup Project ■ ■ ■ ■ ■ ■ ■ ■ ■ ■



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## ■ Environmental LC ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

- Implementation tool for environmental issues
- Today, LC has narrow application and use (see barriers)
- More flexible and useful for landscape planning tools
- Profit for the professional fulfilment of surveyors beside the traditional LC

### Landscape planning tools

- Land-use planning
- Land Consolidation (LC)
- Forest management
- System of Ecological Stability
- Conservation area planning
- Recultivation
- Revitalisation
- Rural development
- Renew, foundation of biotope
- Landscaping, soft landscaping
- Economic farm unit plan

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## ■ Conclusions ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Investigation in progress

- collecting data about environmental projects implemented in consequence of finished LC projects
- evaluate benefit and efficiency for public interest
- work out case study with similar tasks in CZ and DK
- how to eliminate the selection according to priorities

RESULTS

- Investigation for the Central Land Consolidation Office:
- Facts about the current state
- Concrete cases and comparison with LC abroad
- A guidance about new possibilities and ways

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Thank you for your attention!

