

University of Life Sciences, Ås

University of Ljubljana Faculty of Civil and Geodetic Engineering

**The institutional framework of land consolidation – comparative analysis between Slovenia and Norway**

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norway grants iceland liechtenstein norway

*Anka LISEC, UL FGG, Slovenia*  
*Hans SEVATDAL, UMB, Norway*  
*Øystein Jakob BJERVA, UMB, Norway*  
*Miran FERLAN, UL FGG, Slovenia*

REPUBLIKA SLOVENIJA  
SLUŽBA VLADE REPUBLIKE SLOVENIJE ZA  
RAZVOJ IN EVROPSKE ZADEVE

CMEFIUS  
Center RS za mobilnost  
in evropske projekte  
izobraževanja in  
usposabljanja

E-address:  
[anka.lisec@fgg.uni-lj.si](mailto:anka.lisec@fgg.uni-lj.si)  
[hans.sevatdal@umb.no](mailto:hans.sevatdal@umb.no)  
[oystein.bjerva@umb.no](mailto:oystein.bjerva@umb.no)  
[mran.ferlan@fgg.uni-lj.si](mailto:mran.ferlan@fgg.uni-lj.si)

FIG Working week 2012, Rome, May 6-10, 2012

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## Slovenia and Norway

	Slovenia (SI)	Norway (NO)
<b>Total area</b>	<b>20,273 km<sup>2</sup></b>	<b>323,787 km<sup>2</sup>*</b>
<b><i>Agricultural land</i></b>	<b>27.8%</b>	<b>3.2%</b>
<b><i>Forest</i></b>	<b>66.0%</b>	<b>38.2%</b>
<b><i>Barren land</i></b>	<b>0.7%</b>	<b>44.4%</b>
<b><i>Other land</i></b>	<b>5.5%</b>	<b>14.2%</b>
Other data:		
<b><i>Population (January 1, 2012)</i></b>	<b>2,052,496</b>	<b>4,985,500</b>
<b><i>Population density</i></b>	<b>99 inhab./km<sup>2</sup></b>	<b>15 inhab./km<sup>2</sup></b>
<b><i>Arable land per capita</i></b>	<b>0.08 ha</b>	<b>0.18 ha</b>

**NATIONAL FOOD SECURITY**

\*without Svalbard and Jan Mayen

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## Slovenia – farms and settlement patterns

- prevailing small private farms
- dispersed settlement patterns, large number of small settlements
- fragmentation of farms' land

Data Source: Ministry of Agriculture and Environment  
Mapped by A. Lisec

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## Norway – farms and settlement patterns

- prevailing single private farms
- heterogeneity of settlement patterns
- traditional farms with infields and outfields

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## Farms and land use in Slovenia and Norway

<p><b>Slovenia (SI)</b></p> <p><u>High relief diversity</u></p> <p><u>Favourable climate</u> Mediterranean, Pannonian and Alpine</p> <p style="text-align: center;"><u>Average farm size</u></p> <p><b>6.3 ha</b> of arable land 22 agricultural land plots per farm</p> <p style="text-align: center;"><u>Average arable land plot size</u></p> <p><b>0.3 ha</b></p>	<p><b>Norway (NO)</b></p> <p><u>High relief diversity</u></p> <p><u>Unfavourable climate</u> Important influence: Golf Stream</p> <p style="text-align: center;"><u>Average farm size</u></p> <p><b>16 ha</b> of arable land Traditional <b>single farms</b></p> <p style="text-align: center;"><u>Average arable land plot size</u></p> <p><b>1.5 ha</b></p>
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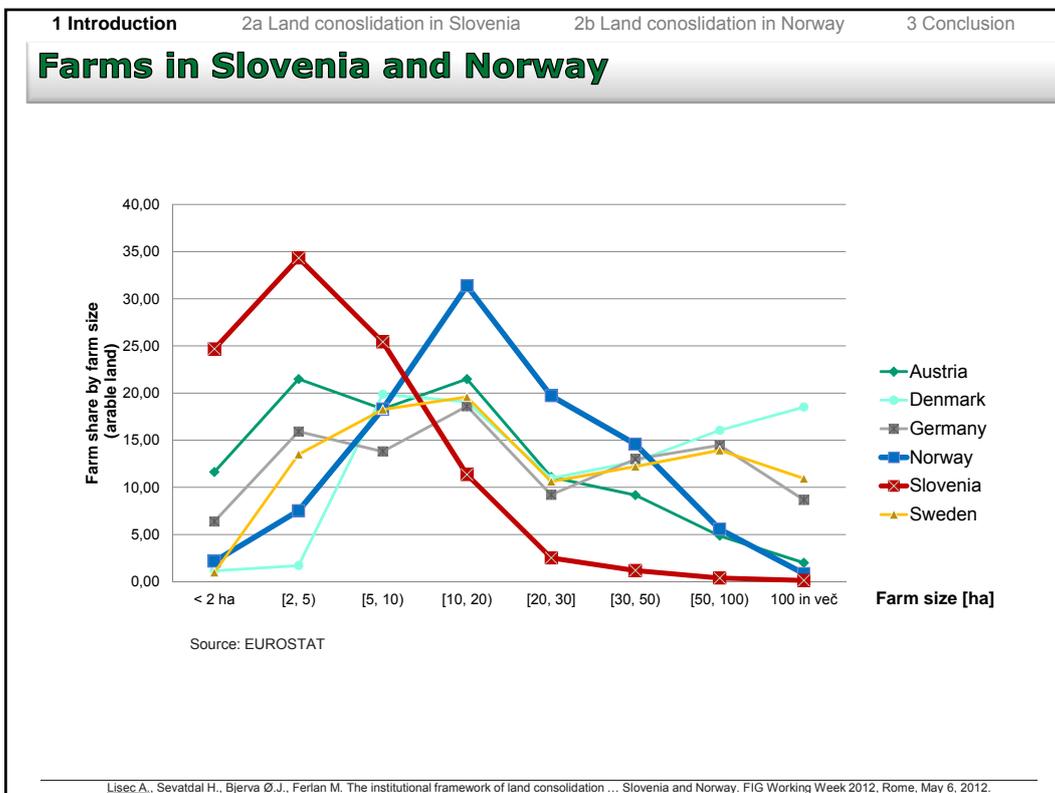


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UNFAVOURABLE CONDITIONS FOR THE AGRICULTURE

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## Land consolidation actors (SI)

**Actors:**

- **Public authority with the LC commission**  
*Responsible for the administrative procedure*
- **Private surveying company**  
*Implementation*
- **Municipality**
- **Land owners**  
*Active participation – individually and by land owners' representatives*
- **Ministry for agriculture**  
*Decisions at the second level*

*SMA and Land Registry at the final stage – registration of new situation*



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## Land consolidation actors (NO)

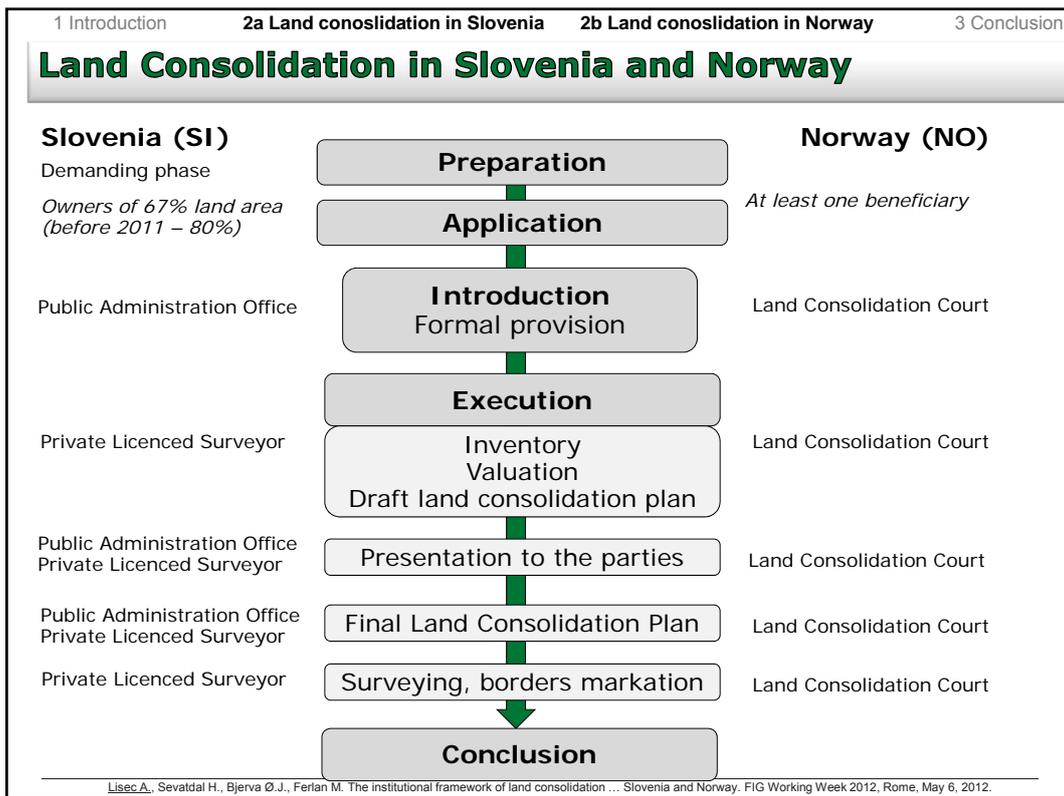
**Actors:**

- **Land Consolidation Court**  
*Responsible for the administrative procedure  
Planning and Implementation*
- **Land owners**  
*Active participation*

*Registration of new situation at the final stage in the Land Cadastre and Land Registry*



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## LC study cases - Krog and Prigorica

	<b>KROG (2008-2010)</b>		<b>PRIGORICA (2001-2008)</b>	
Area	402 ha		400 ha	
	Before LC	After LC	Before LC	After LC
Number of land plots	1132	541	4600	1160
Average plot size	3551 m <sup>2</sup>	8147 m <sup>2</sup>	867 m <sup>2</sup>	3444 m <sup>2</sup>
Average number of land plots per land owner	2,4	1,2	7	1,9
Roads	73.795 m <sup>2</sup>	79.794 m <sup>2</sup>	12.350 m <sup>2</sup>	62.116 m <sup>2</sup>

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**Krog**



<i>Preparation:</i>	2007
<i>Introduction:</i>	2008
<i>Execution:</i>	2008-2010
<i>Appelas</i>	/
<i>Conclusion</i>	2010



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**PRIGORICA**



<i>Preparation:</i>	2000
<i>Introduction:</i>	2001
<i>Execution:</i>	2002-2004
<i>Appels</i>	2004-2008
<i>End</i>	2008



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<b>Daler</b>			
		<p><i>Introduction:</i> 2001</p> <p><i>Execution:</i> 2001-2004</p> <p><i>Conclusion:</i> 2004</p>	
			
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<b>Conclusions</b>			
<p><b>Advantages of the Norwegian system:</b></p> <ul style="list-style-type: none"> <li>- Successful LC projects in the past (<b>less problems</b> with the land <b>fragmentation</b> of the farms)</li> <li>- <b>Traditional institutional framework</b> for LC in Norway, <b>capacity building</b></li> <li>- <b>Competences</b> of the Land Consolidation Courts (less actors)</li> </ul>			
			
<p><b>(1) Land consolidation – highway construction, (2) Land fragmentation in Slovenia</b> (Surce: Liseć et al., 2011)</p>			
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## THANK YOU FOR YOUR ATTENTION!

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