INSTITUTT FOR BYGGFAG

DEPARTMENT OF CIVIL ENGINEERING

LEIV BJARTE MJØS

Associate professor dr. philos

Cadastral development and need for reforms (in Norway)

Coimbra, Portugal, 26.10.2016



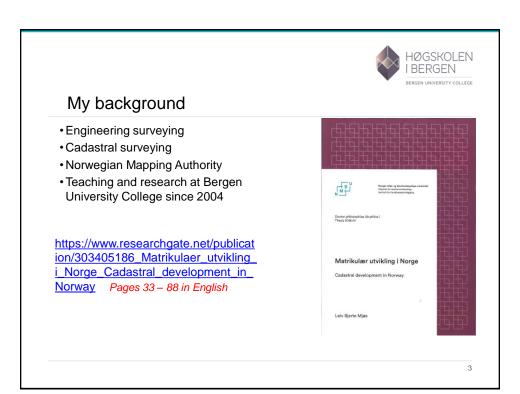


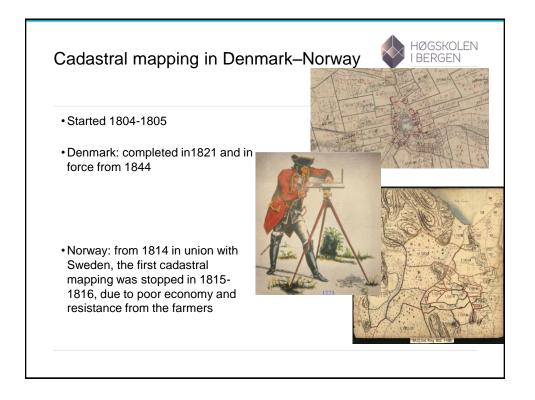
Contents

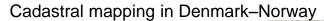
- Background cadastral development in Norway in short
- The present system characteristics and needs for reforms











- Started 1804-1805
- Denmark: completed in1821 and in force from 1844
- Norway: from 1814 in union with Sweden, the first cadastral mapping was stopped in 1815-1816, due to poor economy and resistance from the farmers



HØGSKOLEN I BERGEN

Development up to 1980 (1)

- In rural areas land subdivisions were to be carried out by laymen up to 1980
- Land consolidation courts established in 1859
- Cadastral surveying and mapping developed in cities and towns









Development up to 1980 (2)

- Coordination of the tax cadastre and land register from 1848
 - > Based on the identification numbers of the tax cadastre
- After WW2 increased focus on land use planning and control, and the lack of large scale maps in rural areas becomes apparent

/



Development up to 1980 (3)

- Cadastral mapping from 1960
- Photogrammetricm
- Poor quality control
 - Initially only properties larger than 0,5 ha are to be mapped
- No approval of the registered boundaries from the land owners
- 32.000 maps produced, mostly in 1:5.000

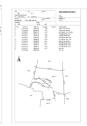


Cadastral reform in 1980

- Triggered by the need to update the new economic maps
- Nationwide surveying and cadastral mapping is introduced
- Municipal surveying (monopoly)
- New multipurpose cadastre (the GAB system), but no nationwide cadastral map
- No strengthening of education nor research
- · No authorization of surveyors







HØGSKOLEN I BERGEN

9

Attempts for renewal after 1980

- Digital cadastral maps from mid 1980s
- Quality problems becomes apparent from early 1990s
- Cadastral law renewal from mid 1990s
 - > Proposal for national cadastral map
 - > Proposal for privatization of cadastral surveying
- National cadastral map implemented from 2010
- Introduction of private authorized surveyors rejected





Characteristics of the present system

- Poor quality in the cadastral map (and in the cadastre in general)
- No education requirements nor authorization of persons undertaking cadastral surveying
- High number of boundary disputes





11



Proposed measures for improvement (my thesis)

- Stronger focus on the functionality of the cadastral system
- Clarify responsibilities of the land information system
- Strengthen education and establish a profession of cadastral surveying experts
- Strengthen quality control and improve the boundary determination system





"Lessons learnt"

- A cadastral system is conserving
- The Norwegian cadastral system is built on pragmatic strategic choices rather than research and in-depth knowledge
- · Changing «the route» is difficult
- A well functioning central body for governance is needed
- Research is important for modernization
- Is "the system" willing to change?



