



DIGITAL TRANSFORMATION FOR RESPONSIBLE LAND ADMINISTRATION

FIG Commission 7 & 2 Annual Meeting 2023

2-4 October 2023, Deventer

Knowledge sharing about cadastral and land administration systems in the Nordic countries

Leiv Bjarte Mjøs & Kristin Land, Western Norway University of Applied Sciences

Organized by



Gold sponsor:



Silver sponsor:



Bronze sponsors:





Digital Transformation for Responsible Land Administration

FIG Commission 7 & 2 Annual Meeting 2023

2-4 October 2023, Deventer

Western Norway University of Applied Sciences (HVL)

- City of Bergen and four more locations
- 10,000+ students at campus Bergen
- Faculty of Engineering and Science, Dept. of Civil Engineering
- Unique multi-disciplinary education
 - Land surveyors
 - Physical planners
 - Judges in special courts



Organized by

kadaster



UNIVERSITY
OF TWENTE.



Gold sponsor:



Silver sponsor:



Bronze sponsors:





Programmes related to land administration

Bachelor degree **Land Administration & Land Surveying**

- land surveying methods
- property boundaries and maps
- legislation, institutions, public registers
- GIS
- spatial planning

Master degree **Land Management** (specializations: *Planning* or *Property*)

- property development
- land consolidation
- land acquisition
- valuation
- boundary dispute resolution



Organized by

kadaster



UNIVERSITY
OF TWENTE.



Gold sponsor:



Silver sponsor:



Bronze sponsors:





Digital Transformation for Responsible Land Administration
FIG Commission 7 & 2 Annual Meeting 2023
 2-4 October 2023, Deventer

Nordic seminar on Land Administration (Nov. 2022)



Organized by



Gold sponsor:



Silver sponsor:



Bronze sponsors:





Digital Transformation for Responsible Land Administration

FIG Commission 7 & 2 Annual Meeting 2023

2-4 October 2023, Deventer

Aim of the seminar

- Eye-opener to the surrounding world – widening the perspectives
 - Increased interest in international issues
 - Better understanding of differences across borders
 - Deeper reflection on current development trends in Norway and the region

Organized by

kadaster



UNIVERSITY
OF TWENTE.



Gold sponsor:



Silver sponsor:



Bronze sponsors:

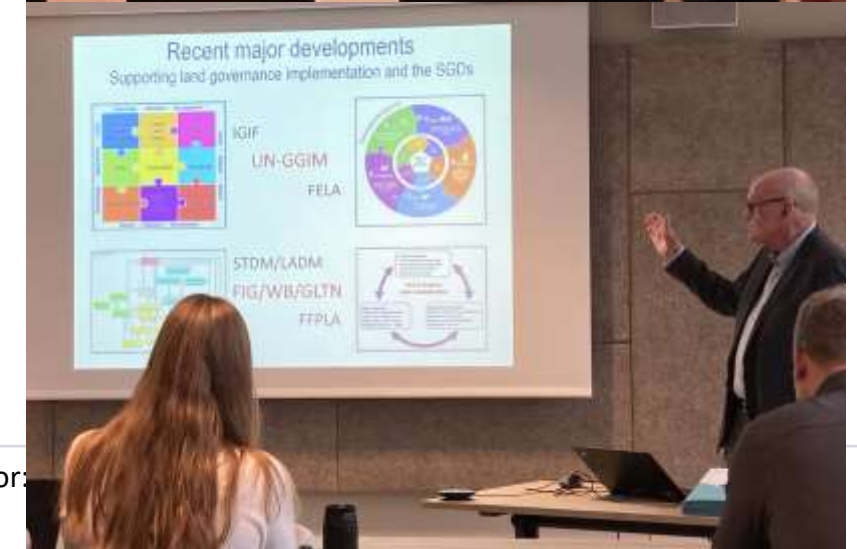




Cadastral systems:

Denmark, Iceland, Sweden and Norway

... and some global concepts and initiatives



Organized by



Gold sponsor:



Silver sponsor:





The Nordics: “same same, but different”



Organized by

kadaster



UNIVERSITY
OF TWENTE.



Gold sponsor:



Silver sponsor:





Digital Transformation for Responsible Land Administration

FIG Commission 7 & 2 Annual Meeting 2023

2-4 October 2023, Deventer

Key elements that differ

- Organisational structure of cadastral work
- Surveyors' capacity and authority
- Data capturing methods and boundary accuracy
- Cadastral coverage
- Functions of the cadastre

Organized by

kadaster



UNIVERSITY
OF TWENTE.



Gold sponsor:



Silver sponsor:



Bronze sponsors:





Example: current development in Iceland

Source: Tryggvi Mar Ingvarsson's presentation at the Nordic seminar in Bergen, Nov. 2022

Estimation of land boundaries and areal for administrative use

- Scope: Approximately 6000 farms / 45.000 sqkm
- Estimated time: 3x employees for 3x years (2-3 hours per farm)
- Sources to be used for interpretation:
 - Orthophotos and DEM
 - Place name database and place name descriptions
 - Boundary descriptions
 - Survey documents found in the land registry or in municipality archives
 - Vegetational/agricultural maps
 - Communication with landowners and by using local knowledge
- Accuracy: within 10-15 meters.

HMS

Organized by

Kadaster



UNIVERSITY
OF TWENTE.



Gold sponsor:



Silver sponsor:



Bronze sponsors:





Digital Transformation for Responsible Land Administration

FIG Commission 7 & 2 Annual Meeting 2023

2-4 October 2023, Deventer

In conclusion

- Still large differences despite modernisation initiatives
- What works well in one country is not necessarily fit for another
- Today's students are key players in tomorrow's development

Organized by

Kadaster



UNIVERSITY
OF TWENTE.



Gold sponsor:



Silver sponsor:



Bronze sponsors:





Digital Transformation for Responsible Land Administration

FIG Commission 7 & 2 Annual Meeting 2023

2-4 October 2023, Deventer



Thank you for your attention

Organized by

Kadaster



UNIVERSITY
OF TWENTE.



sponsors: