



NLS
NATIONAL
LAND SURVEY
OF FINLAND

Cadastral Has Many Functions

Joint PCC and EG CLR KEN Conference

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Introduction

- Cadastre
 - 100 % digital
 - 100 % territorial coverage
 - approximately 2,3 M parcels
- Land Register
 - 100 % digital
- Limited Liability Housing Company Register
 - lists of shares of all companies uploaded free this year

Security of Ownership and Tenure

Ownership guaranteed in the Land Register

Restrictions in the Cadastre

- Servitudes
- Public roads, private roads
- High voltage power lines, gas pipes
- City plans
 - if a unit is situated inside a plan area



Infrastructures above Ground

- Roads, railroads, high-voltage power lines, gas pipelines etc. are handled in legal surveys carried out by NLS
- Registered as cadastral units – either as property or use right unit
- Low-voltage power lines mostly based on agreements



Finding Land Use Plans - Project VOOKA

Part of development of a new national data system for built-up areas

- Nation-wide index map on valid land-use plans (vector) with links to actual maps and documentation (raster).
- Renew management, handling and utilisation of data of built-up areas.
 - national data model, interoperability
- 2022 a pilot and by end of 2028 all data uploaded
- Coordinated by Finnish Environment Institute and funded by MoE.
 - municipalities, Association of Finnish Municipalities,
 - MoE, **NLS** and Centres for Economic Development, Transport and the Environment

Security in the Field of Military Defence

- Especially topographic data but also cadastral data
- Legislation on expropriation and pre-emption of foreign ownership on land around objects of military or other security since 2020
 - Laki kiinteän omaisuuden ja erityisten oikeuksien lunastuksesta kansallisen turvallisuuden varmistamiseksi
 - Laki valtion etuosto-oikeudesta eräillä alueilla



Security in the Field of Civil Defence

- Coordination exists between the agencies producing geospatial data
 - however, there is room for improvement
 - like the exact boundary between water and land
- Laser scanning along the waterways to mitigate flood risk
- Wildfires another big risk



Information security and need of openness

- GDPR and other security issues play a significant role
- A lot of effort has been put to handle that
- It has implications toward balancing between openness and security
- In the news the other day
 - municipalities should not publish map information on the web, but even bigger risk are cyber threats



Summary

- Security of ownership and tenure guaranteed
- Security in civil and military defence under control
- Information security and need of openness are in a battle



Advancing together

