Cadastre And Mapping Agency Turned Into Maintainer Of Society’s Basic Infrastructure

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CONTENTS

• Beginning
• Re-organisation and merger
• From Government policy to development projects
• National policy report on spatial data
• Customers want better data
NEW TECHNOLOGY

• At the turn of millennium growing understanding of the power of digitalisation
• Decision to take a leap forward
• Beginning of a still ongoing process towards exploitation of digital systems and processes
• Smallworld → JAKO cadastre and topographic data
2010 LAND REGISTER

• After a long debate a political decision
• Transfer of Land Registry activities from local courts to the NLS was a big change
  • Institutionally – setting up a new process
  • Culturally – over 200 new staff
  • Technologically – replacement of outdated IT system
2014 NEW ORGANISATION

- From regional units to nation-wide process-based organisation
- Seeking higher level of productivity and efficiency
- Utilising technology to advance nation-wide processes and workflows
  - Easier to move work than people → shorter throughput times, more uniform outcome
2015 NEW ACTIVITIES

- Parallel with the 2014 reorganisation planning of the next phase
- Merger with two other organisations, the FGI and ICT services of the MAF
- Again cultural and organisational adaptation and new strategy
- One more step out of the traditional role
  - ICT service provider to other agencies within the ministry administrative sector
  - Spatial data research institute
- Growing footprint in the society
2017 RESIDENTIAL PROPERTY INFORMATION SYSTEM (RPIS) TO THE NLS

- Spearhead program of the previous government
- Political discussion about Residential Property Information System materialises into a development project in the NLS in 2017
2017 RESIDENTIAL PROPERTY INFORMATION SYSTEM (RPIS) TO THE NLS

- Goal of the RPIS
  - Improve accessibility to, timeliness and coverage of LLHC (Limited Liability Housing Company) related information on apartments and their owners
  - Enable digitalisation of trade, management, and information services on LLHCs and apartments
- Stakeholders: banks, real estate brokers, LLHCs, service providers, government agencies
• A 12-year process reached its goal
• Cooperation with a number of players (NLS, MAF, MoE, MoJ, municipalities, (Aalto) university)
• Development of ICT system
• Enabling legislation August 1, 2018
• Big change from “land only” system to buildings or parts thereof registered in the cadastre as real estate
2018 NATIONAL SPATIAL DATA POLICY REPORT

• Approved by the Parliament in November 2018
• First of its kind
• Comprised 7 tasks to create the safest and most innovative spatial data ecosystem in Finland
  • Secure high quality address information
  • Make accurate positioning available to everybody
  • Build a common spatial data platform for security authorities
  • Develop a common spatial data ecosystem
  • Intensify cooperation with a new body
  • Increase know-how and knowledge about spatial data
  • Renew legislation to ensure development

NLS plays a significant role in its implementation
2019 ADDRESS REGISTER DEVELOPMENT STARTED

• Spatial Data Policy Report
  • The national coherence, good quality and accessibility of address data are a key starting point for internal security, efficient logistics and, in the future, for such goals as an operating environment for autonomous vehicles.
  • Specifications for the projected new cooperation body (Geoforum) are being prepared

• Part of the planned Geospatial Platform
  • Addresses, satellite images, land use, national topographic data, INSPIRE
The Residential Property Information System reaches full usage 2023

New (2019-) housing companies registered digitally

Existing housing companies transfer share lists from spring 2019 until end of 2022

Individual paper share certificates converted into electronic when transferred if not done separately

Latest possible date for conversion 2032
TOWARDS LAND POLICY RESEARCH

• Encouraged by FIG Cadastre 2014 and 2034 initiatives NLS set up its own process towards the future cadastre leading to a research study Katasteri 2035 in Aalto University
  • Provides theoretical basis and insight for later decision making
• Realisation that there is a great need for research on real estate or land policy in fields like
  • Land ownership
  • Registration of land i.e. Cadastre
  • Land use
  • Land taxation

Plan to establish a research activity in the NLS
EXPECTATION FOR BETTER LAND AND BUILDING RELATED DATA

Lessons learned

• Data content of the Cadastre need to be improved over time
  • Data produced according to earlier specifications do not necessarily satisfy the customer needs of today
  • NLS carried out an extensive data improvement program over the decades
• This issue you have to discuss with your partners in the networks and ecosystems you are active in
WHEN YOUR ROLE CHANGES

- Evolving legislation, roles, processes, and data systems
- Digital real estate conveyancing
- 3D-real estate units, below ground and in buildings
- 3D-buildings in topographic database
THANK YOU