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  - Technologically – replacement of outdated IT system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
2018 3D REAL PROPERTIES

• 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
2022 RPIS OPERATIONAL

- 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