### CADASTRE – CORNERSTONE OF A FUNCTIONING NATIONAL ECONOMY

PCC Conference, June 6, 2019
Bucharest
Pekka Halme
Director of Strategic Development



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### **FACTS ABOUT FINLAND**

- 5.5 M, population
- 2.8 M, real estate units
  - 20 000 cadastral surveys
  - 320 000 titles and mortgages
- 790 Bn €, value of real estates (est. 2012)
- 530 Bn €, value of mortgages in LR (2017)
- 2.6 M, buildings and dwellings
- 0.6 M, enterprises and corporations

#### THE SCENE

- Traditional 2D registration
- Separate agencies for individual base registers
  - Population Register Centre
    - people, buildings, apartments
  - Patent and Registration Office
    - companies, enterprises, legal persons
  - NLS
    - Cadastre and Land Register



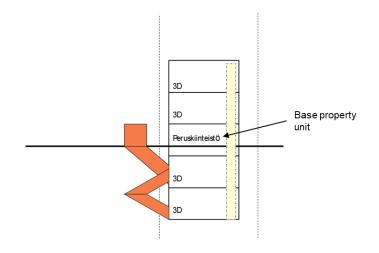
### CORNERSTONE

The Cadastre and Land Register have a solid history of trust in the society.

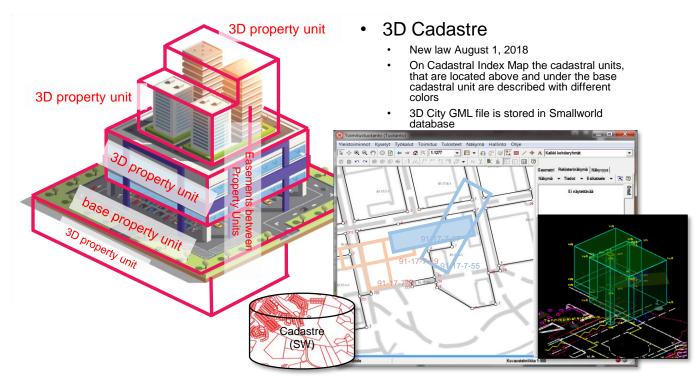


### 3D PROPERTY FORMATION

- First discussions 2004
- Formal proposal to the MAF 2005
- Ministry working group 2006-2007
- NLS projects 2011-2018
- New legislation Aug 1, 2018







# DIGITAL RESIDENTIAL PROPERTY INFORMATION SYSTEM

- LLHC (Limited Liability Housing Companies) the most common way of housing in urban areas
  - ~1,5 M apartments in ~100 000 LLHCs
  - Resemble limited liability company
- LLHCs are registered in the Trade Register
  - Trade Register information available country-wide
    - · Articles of association
- Information about apartments and owners is managed in LLHCs
- Share groups (1 to N shares) giving tenure to specific apartment are tradeable
- One printed share certificate per share group





#### MAIN GOALS OF NEW REGISTER

- Improve services on LLHC-related information
  - Availability
  - Credibility (consistency)
  - Timeliness
  - Coverage
- Enable digital services for
  - Trade
  - Collateral management
  - LLHC life cycle management
  - Management of LLHC information (e.g. maintenance)





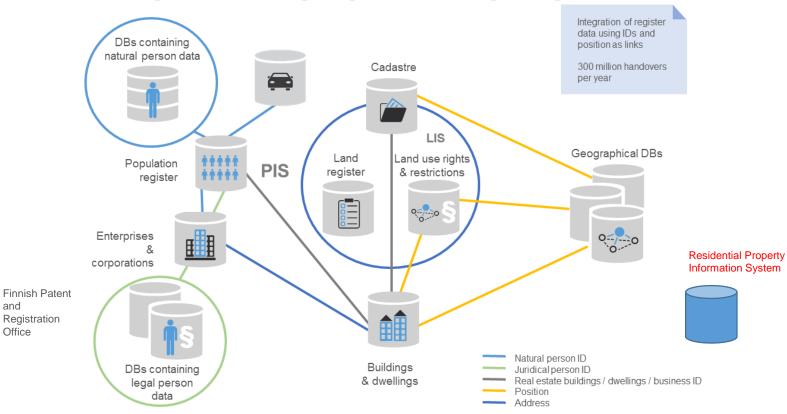
# 3D BUILDINGS IN TOPOGRAPHIC DATABASE

- Data collection for the NTDB is performed by several organizations
  - Bigger cities produce their own 3D-models
  - NLS produce 3D-models from rest of the country
    - Models will correspond to LoD2
- Schedule:
- 2019 Q4: Proof of Concept realizations of 2-4 different solutions for 3D-production
- 2020 Q1: Tender out the implementation
- 2020 Q2: Implementation ready
- 2020 Q3: Testing, documentation, training of staff
- 2020 Q4: 3D-production in NLS in progress
  - Based on point cloud data from 2020
  - 3D-buildings available nation-wide in 2026-27 (based on the schedule of the new laser scanning program

### **BASE REGISTER SYSTEM**

and

Office



### **MORE CORNERSTONES**

- 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
- Residential Property Information System

Drive land and buildings closer together enabling the C & LR to, in an increasing scale, support the economic activities in the country.

### SHOWING THE WAY



7.6.2019