

# NATIONAL ROUNDTABLE ON ENERGY EFFICIENCY FINANCE IN FINLAND

Association of Finnish Local and Regional Authorities (AFLRA), 29th of September, 2020

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### The Association's core tasks

The Association of Finnish Local and Regional Authorities is the voice of all Finnish cities and municipalities, providing



The Association oversees the interests of its members — the Finnish cities and municipalities.

### Development

Co-development is used to address challenges faced by the local government sector.

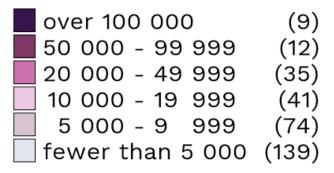
### Expert services

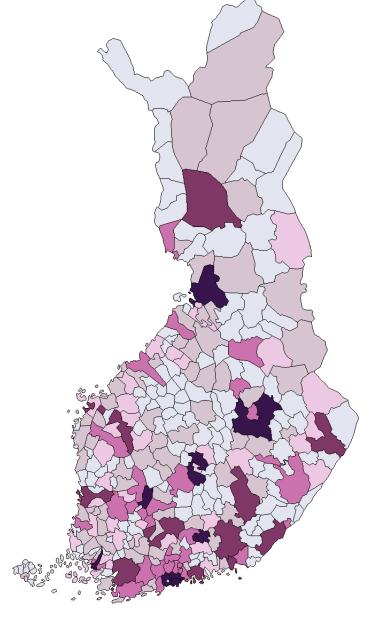
The strength of our expert services lies in a profound understanding of the sector's special issues.



## Municipalities in Finland

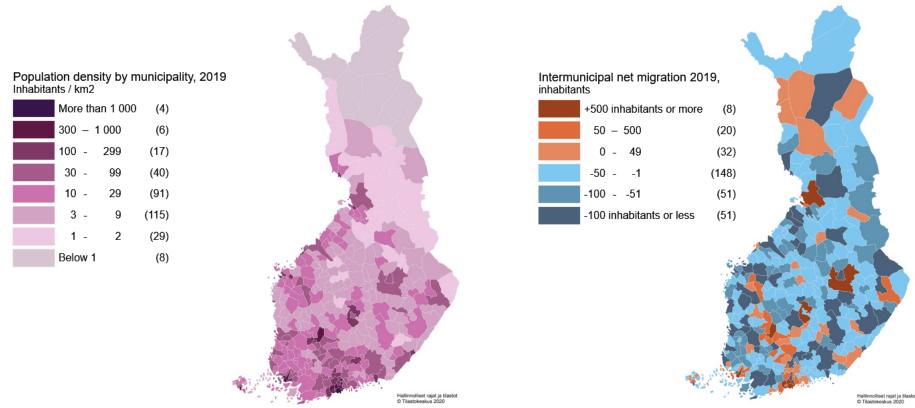
- 310 municipalities in 2020 (incl. 16 on the Åland Islands)
  - 2/3 have less than 10,000 inhabitants
- 5.5 million inhabitants
- 338 000 km²





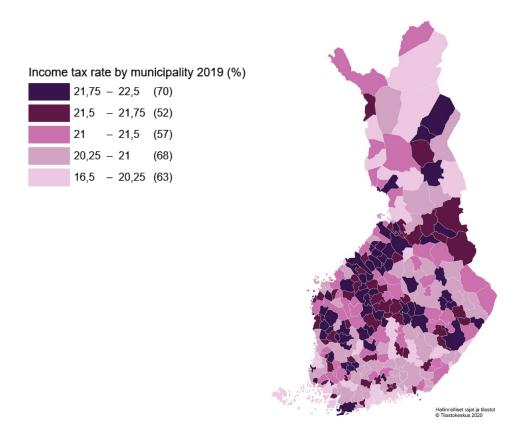


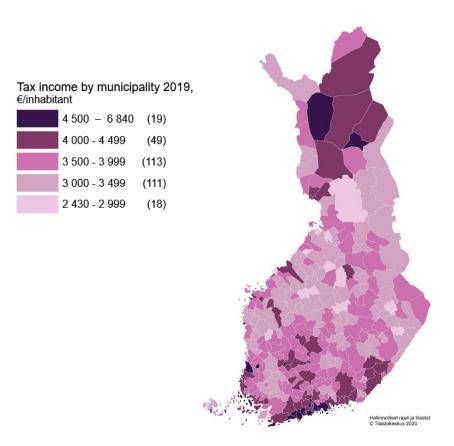
## 80 per cent of municipalities had negative net migration in 2019





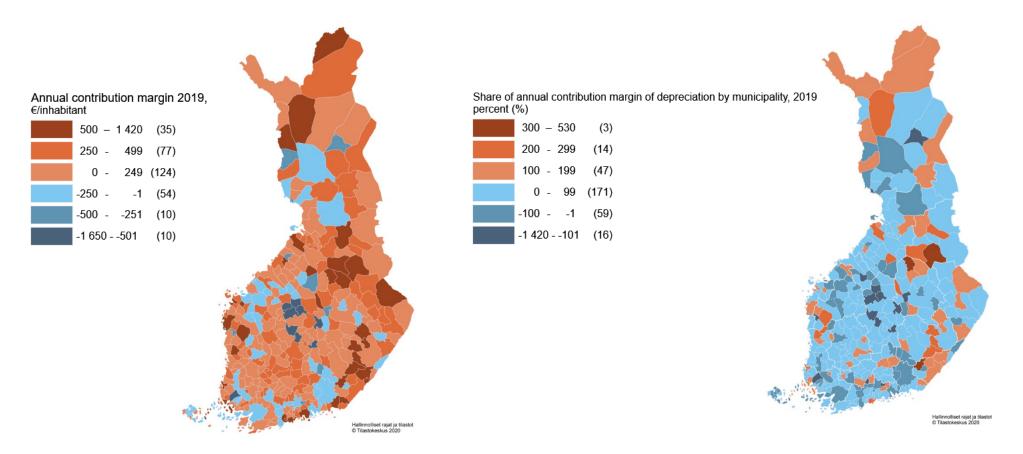
## High income tax rate and low tax income is a difficult combination in remote areas





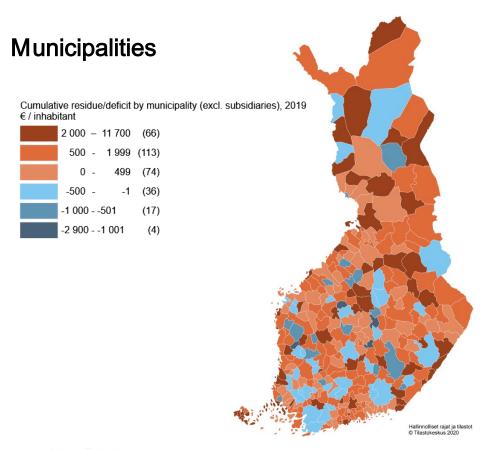


## Annual contribution margin is usually positive but still too low (2019)



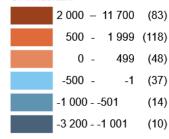


## Cumulative deficit is an alarming and increasing municipal phenomenon



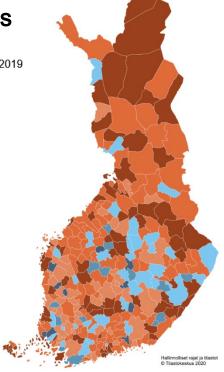
#### Municipal enterprise groups

Cumulative residue/deficit by municipality (incl. subsidiaries), 2019 € / inhabitant



#### Municipal subsidiaries :

- Real estate companies
- Energy companies
- Part of waterworks

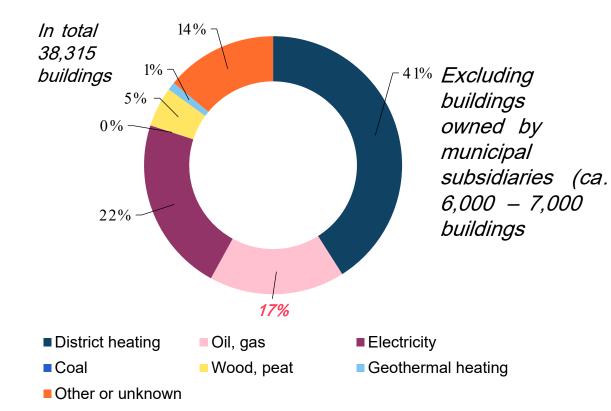


### More than 38,000 municipal buildings

## 10,000 residential and 28,000 non-residential buildings

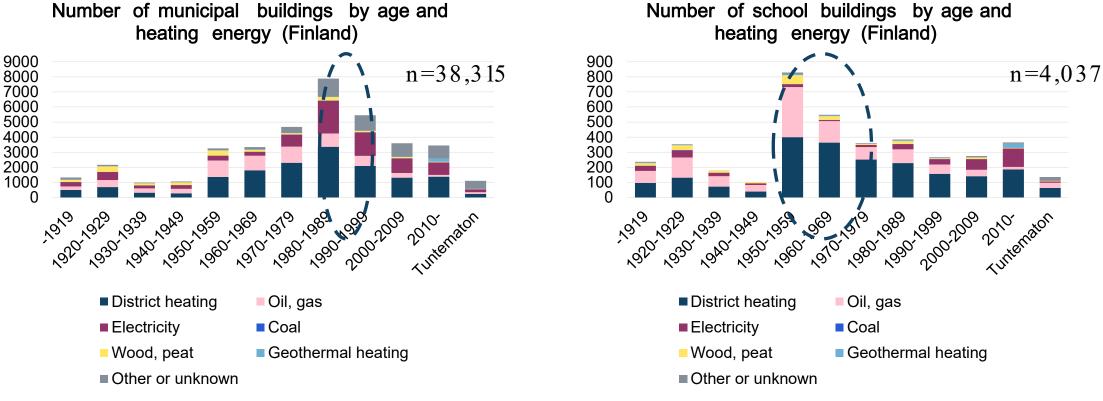
- Residential: single houses, row houses, block of flats
- Non-residential: daycare centers schools, hospitals, storages, water supply plants, power plants etc.
- District heating is the main source of energy, then electricity and oil

#### Municipal building stock by heating system





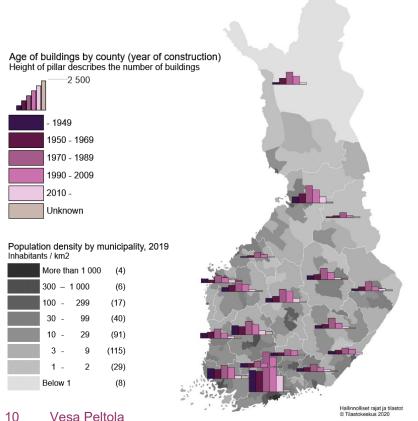
## The peak of all municipal construction in 1980's (schools: in 1950's and 1960's)



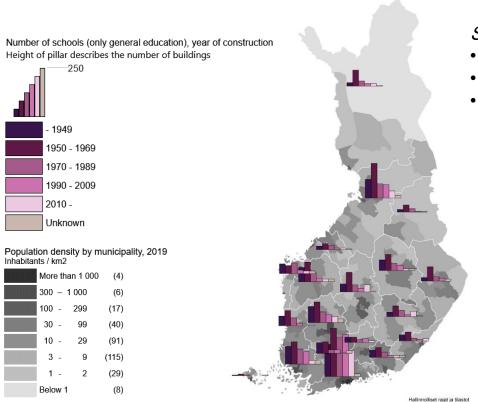


### In Finland 2/3 of the municipal buildings have been constructed before year 1990

Age of all municipal buildings



Age of school buildings



#### School buildings:

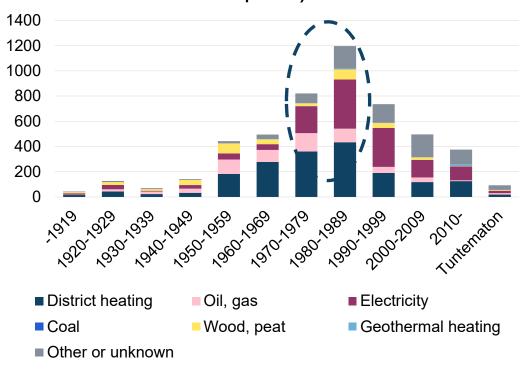
- elementary schools
- junior high schools
- high schools

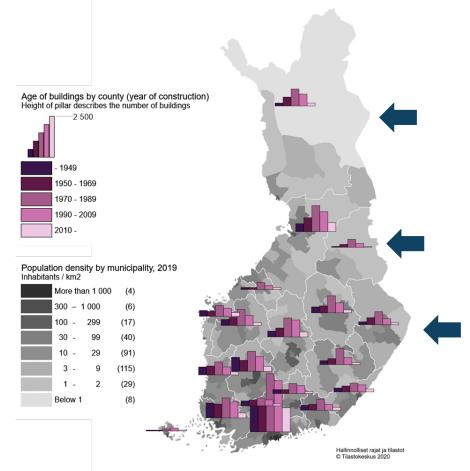
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### Building stock in three remote counties

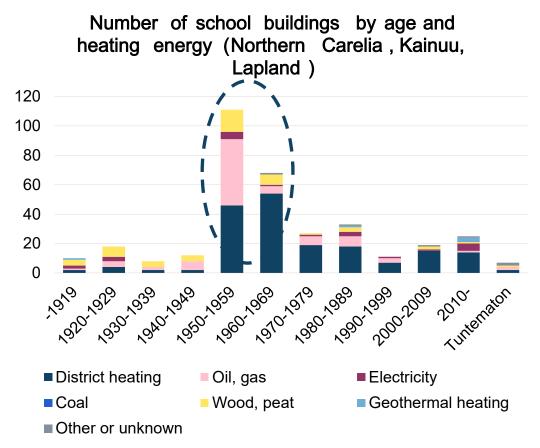
Number of municipal buildings by age and heating energy (Northern Carelia, Kainuu, Lapland)

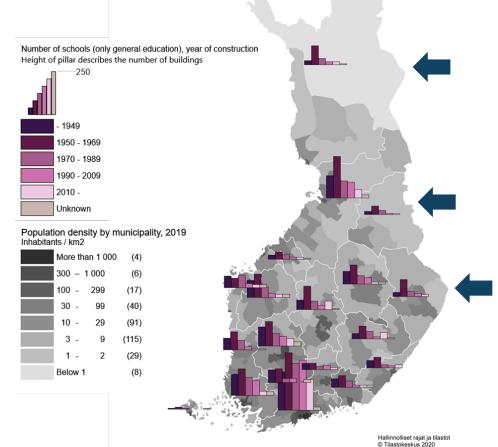






### Number of schools in three remote counties





NOTE! Part of oil heating has been replaced with other modes of heating

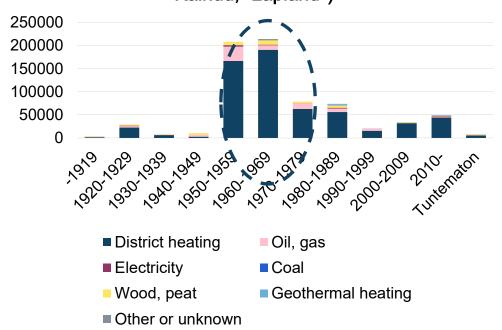
#### Schools:

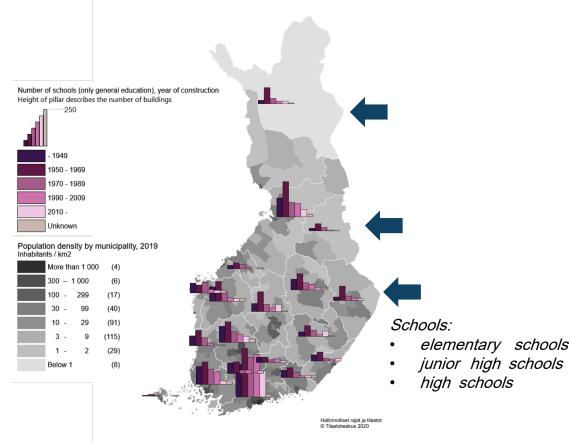
- elementary schools
- junior high schools
- high schools



Gross floor area of school buildings in three remote counties

Gross floor area of school buildings by age and heating energy (Northern Carelia, Kainuu, Lapland)







## Aspects of improving energy efficiency in municipal buildings of remote areas

- 1. Economic situation of municipalities has deteriorated during last years
  - COVID- 19 is an additional burden
- In remote areas, the value of premises is decreasing and the buildings are old
   Future of buildings often unclear (a change of use / hiring / selling / demolishing ,...)
- 3. Management problems hinder energy efficiency investments (lack of resources and know how, complicate processes of energy investment aid, competing investment projects)
- 4. Availability of loans for investments is not a significant problem in municipal sector in Finland a municipality cannot go bankrupt ...
- 5. The economic limits for investments come from key figures of financial statements of a municipal enterprise group
  - To avoid increasing cumulative deficit, annual contribution margin should cover depreciations in the long run

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"In remote areas economic resources, know-how and unclear future prospects set limits to municipal energy investments."



## Thank you!

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