A transparent assessment of retrofit potential in Italy based on open data

Pozzi M., Fattori F., Dénarié A., Macchi S., Cirillo V. F., Motta M. Energy Department Politecnico di Milano





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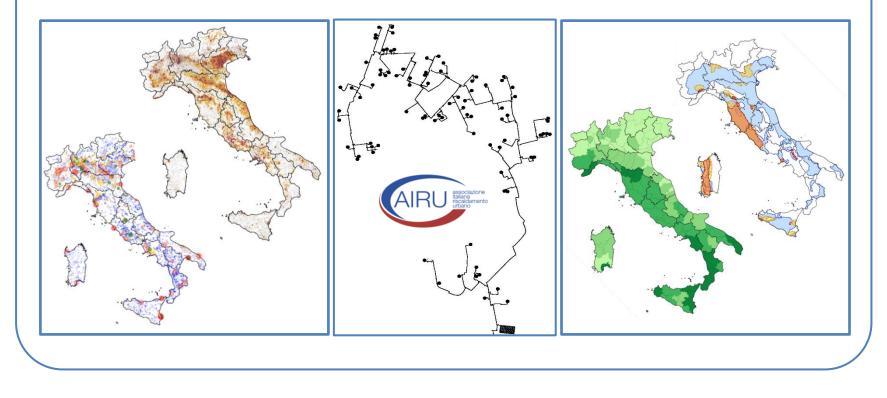
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Orsted

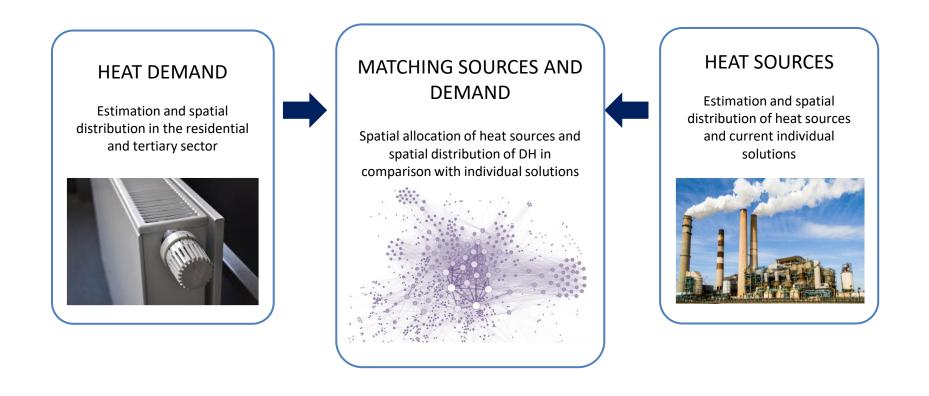
Framework

Assessing the potential diffusion of renewable based district heating in Italy through energy mapping



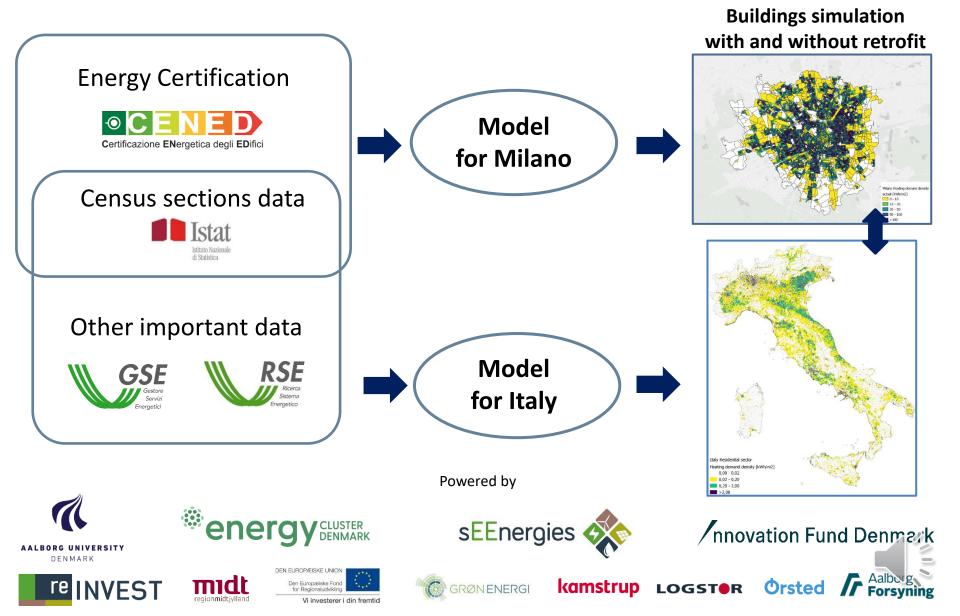


Structure of the project

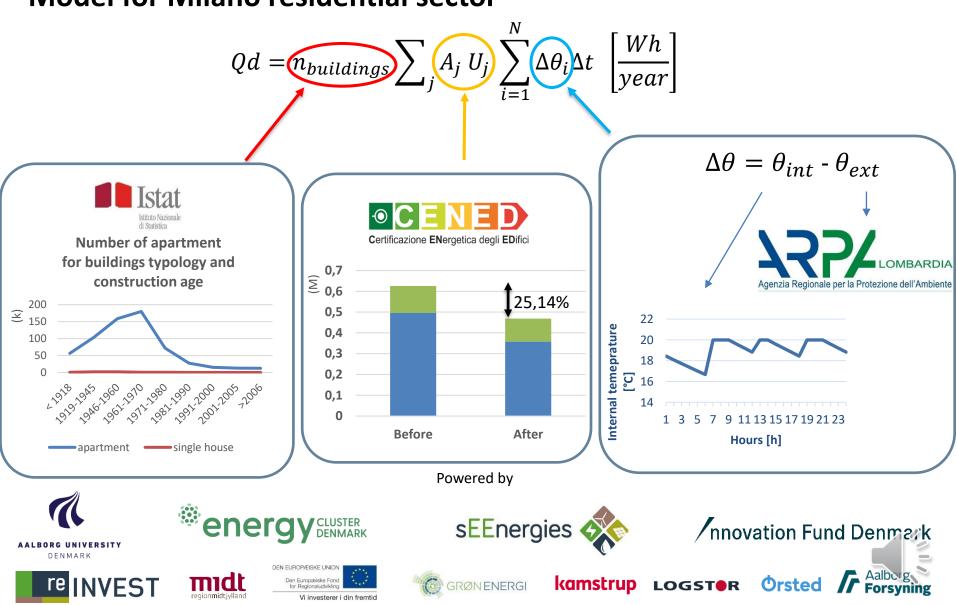




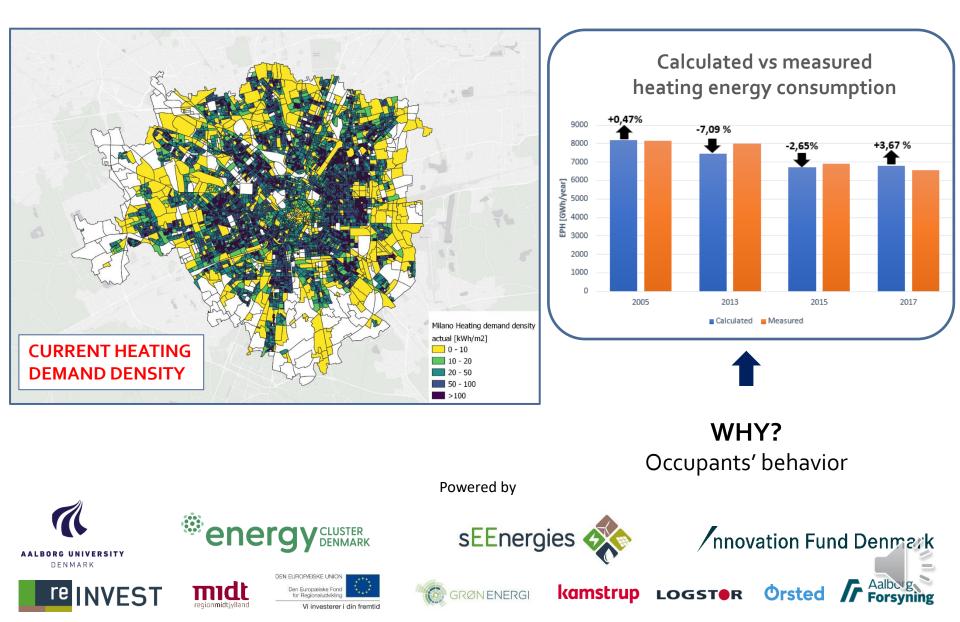
Structure of heating spatial distribution work



First method Model for Milano residential sector

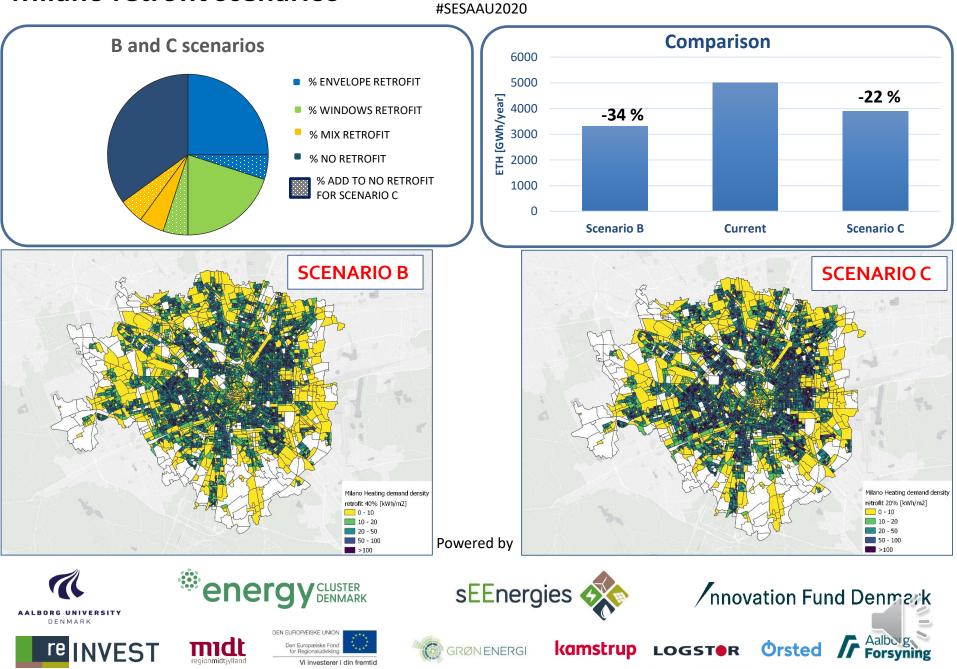


Validation and results

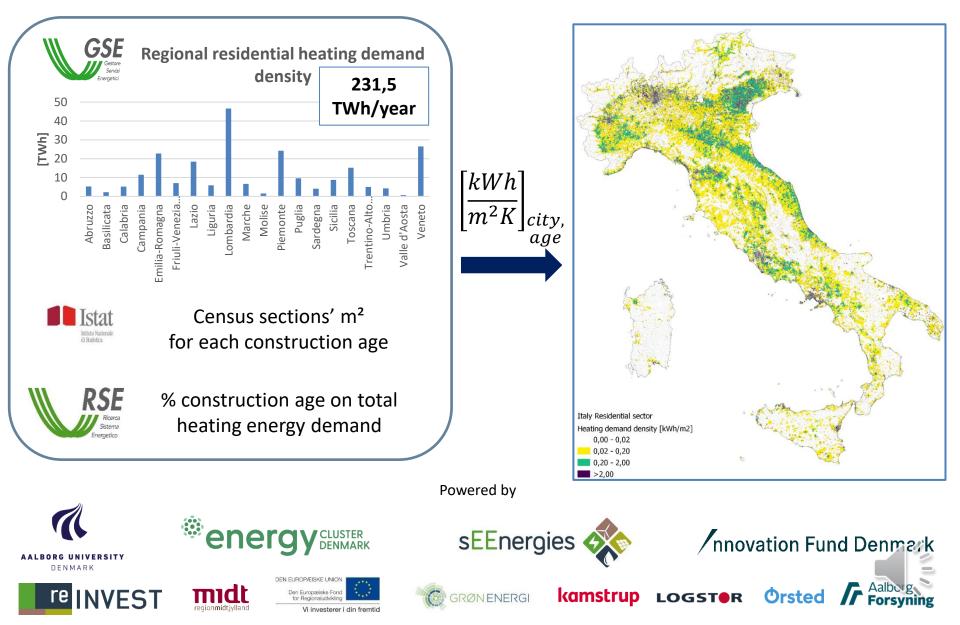


Milano retrofit scenarios

6th International Conference on Smart Energy Systems 6-7 October 2020

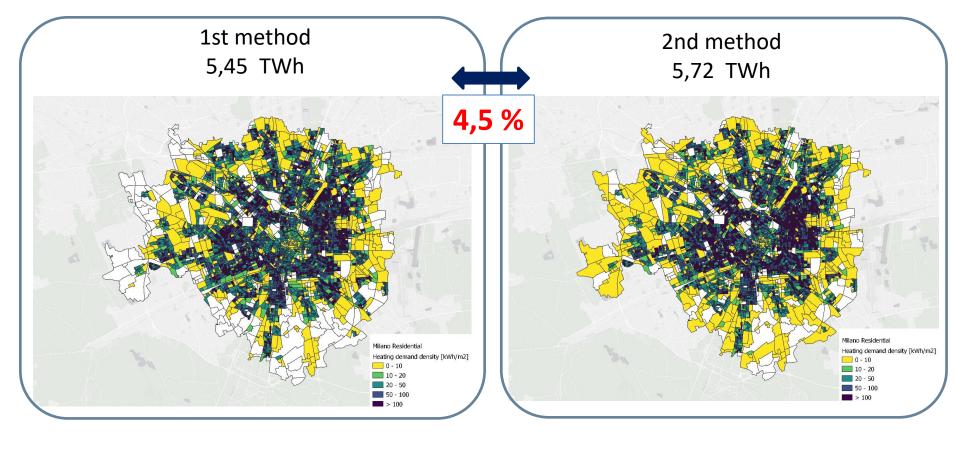


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Comparison between the two methods

for residential buildings heating demand in Milano

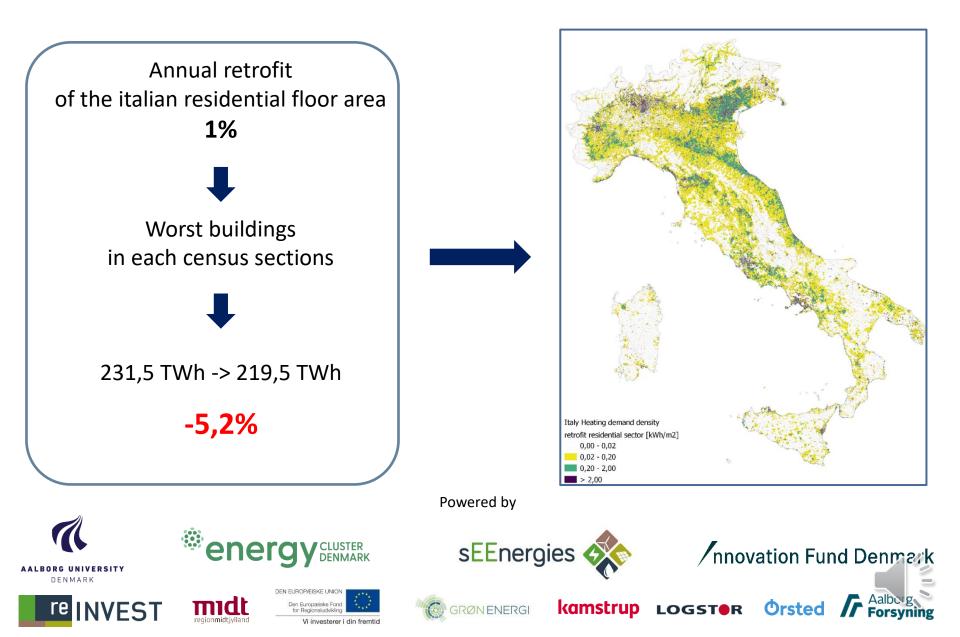


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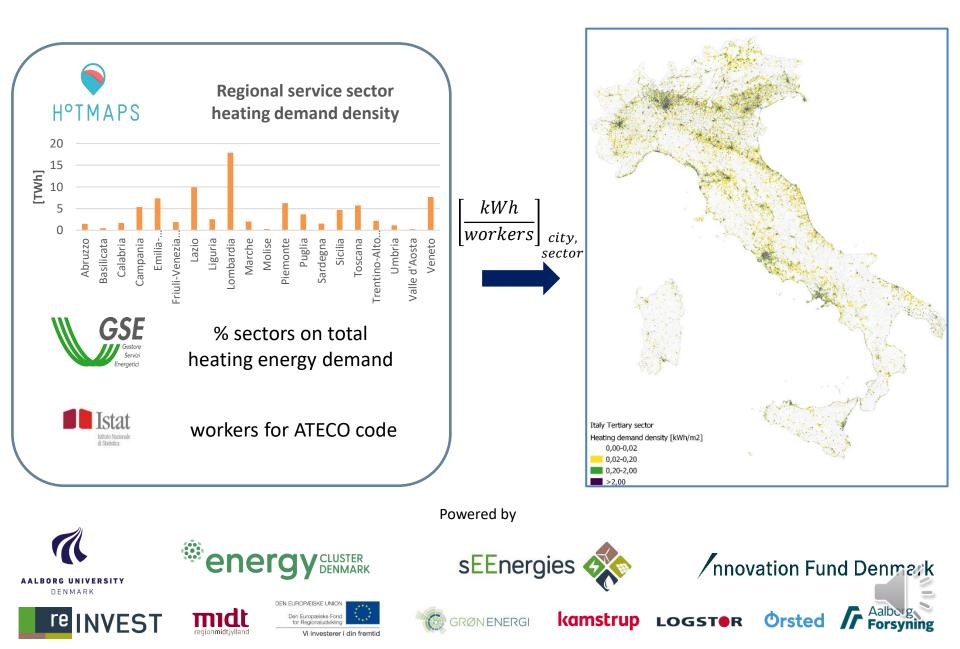


Italy retrofit scenario

6th International Conference on Smart Energy Systems 6-7 October 2020 #SESAAU2020



Model for Italy service sector



Conclusions



Open data







- Automated model for Italy

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- Spatial distribution
- High level of detail
- Retrofit simulation

Haly Residential sector Heating demand density [kWh/m2] 0.00 - 0.02 0.20 - 2.00 - 2.20 0

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Thank you for your attention



Pozzi Marianna Energy Dept. Politecnico di Milano marianna.pozzi@polimi.it

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