

Heat Roadmap Europe: From scientific findings to Pan-European Thermal Atlas (Peta4) maps

Rasmus Lund, Aalborg University

Heat Roadmap Poland, January 25, 2018, Warsaw



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.







Agenda

- Introducing the project
- Development of Peta
- Demonstration of Peta4.2



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.



Our Purpose

 Creating scientific evidence to support long-term decision making

 To empower the transition to a lowcarbon energy system



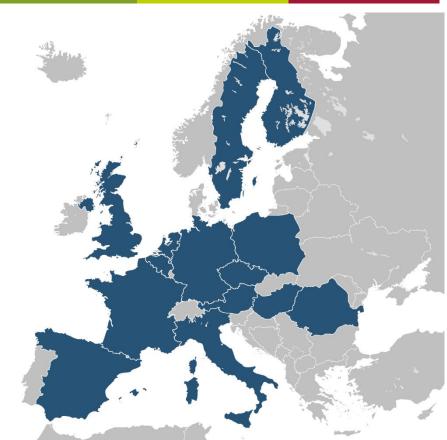
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.



HRE4 Countries: 14 Largest EU Countries by Heat Demand = 90% of EU Heat

1-1-10

- Belgium (BE)
- Czech Republic (CZ)
- Germany (DE)
- Spain (ES)
- France (FR)
- Italy (IT)
- Hungary (HU)
- Netherlands (NL)
- Austria (AT)
- Poland (PL)
- Romania (RO)
- Finland (FI)
- Sweden (SE)
- United Kingdom (UK)





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.



HRE4 Countries: 14 Largest EU Countries by Heat Demand = 90% of EU Heat

1-1-10

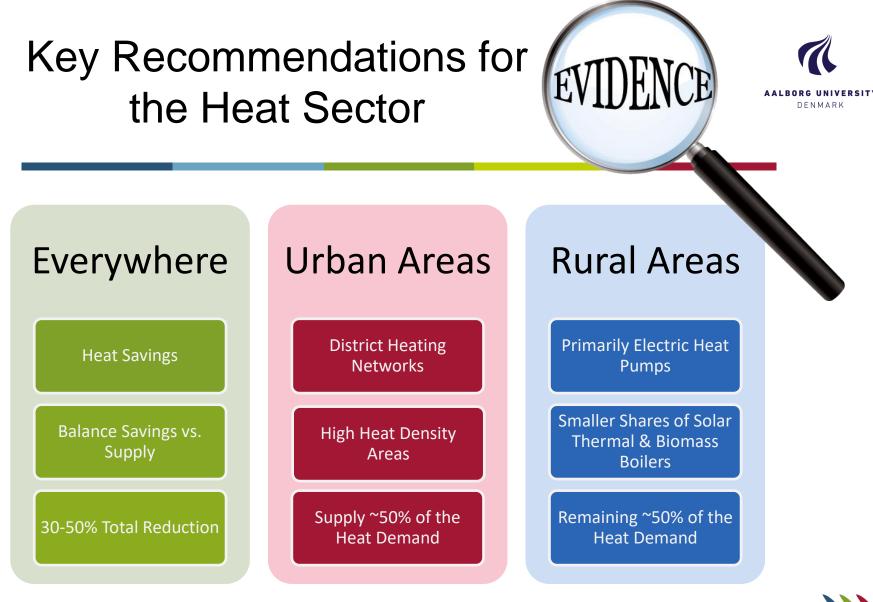
- Belgium (BE)
- Czech Republic (CZ)
- Germany (DE)
- Spain (ES)
- France (FR)
- Italy (IT)
- Hungary (HU)
- Netherlands (NL)
- Austria (AT)
- Poland (PL)
- Romania (RO)
- Finland (FI)
- Sweden (SE)
- United Kingdom (UK)

Identification of strategies to cost-effectively decarbonise the heating and cooling sectors



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.



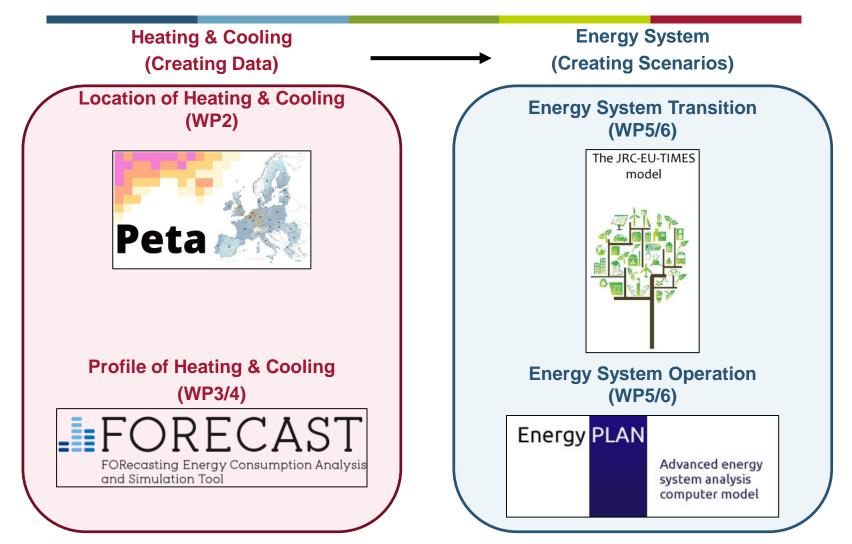




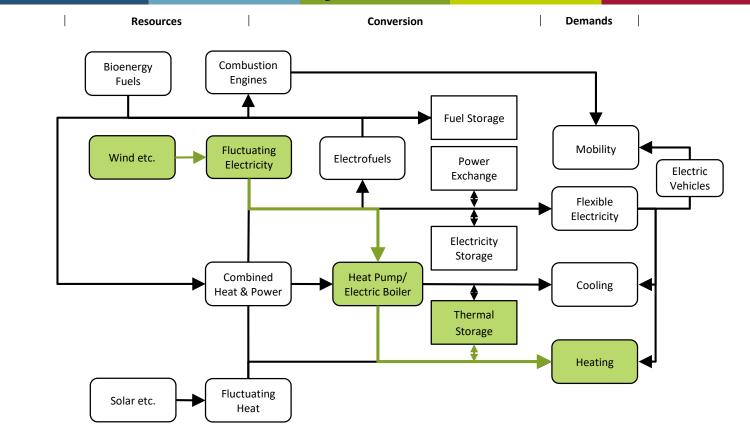
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.



Combining the Strengths of Different Energy Models



Energy systems perspective: Savings in fuel and costs of the total system





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.



Development of Peta

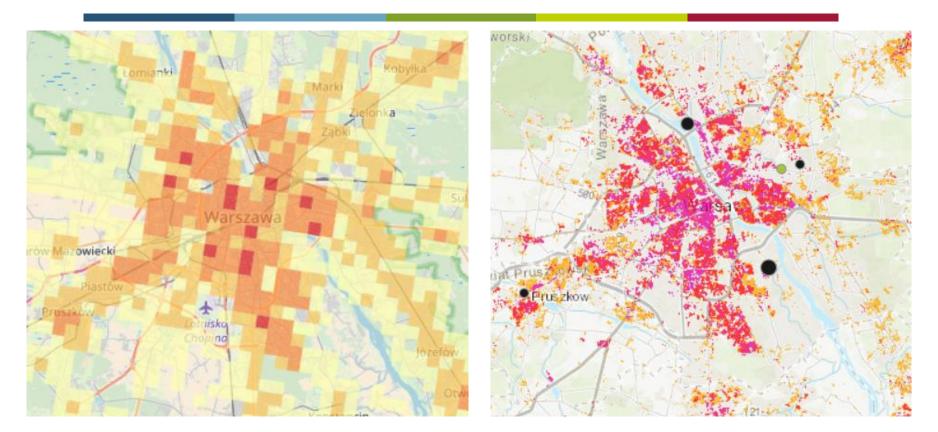
- Screening tool for planning
- Free and online available
- Where are:
 - Heating and cooling demands?
 - Renewables potentials?
 - Excess heat?



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.



Peta4.2: Increased level of detail





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.



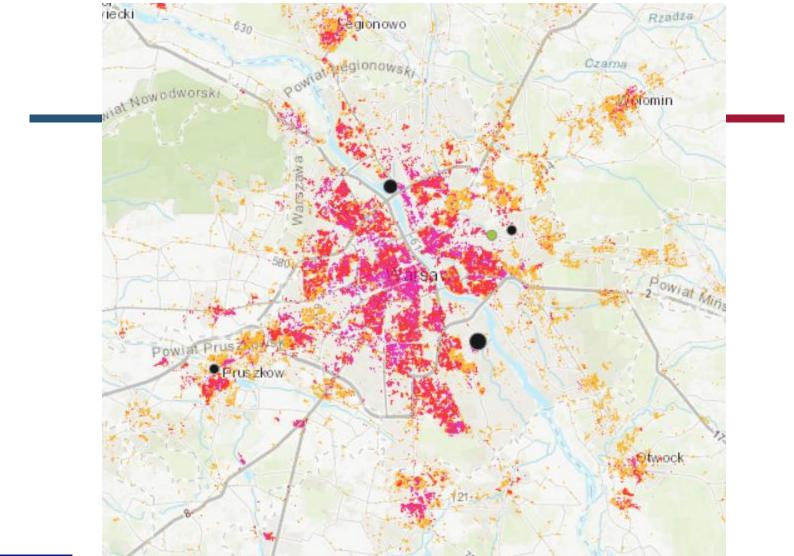
Demonstration of Peta4.2

http://www.heatroadmap.eu/peta.php



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.

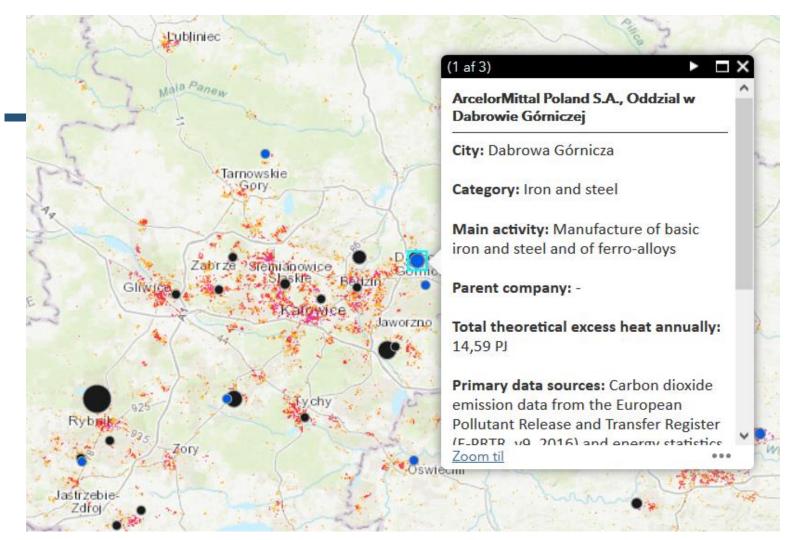






This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.







This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.





THANK YOU FOR THE ATTENTION

Contact:

Rasmus Lund Department of Planning Aalborg University, Denmark rlund@plan.aau.dk





This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 695989.



DENMARK

