

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



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Our Purpose

 Creating scientific evidence to support long-term decision making

 To empower the transition to a lowcarbon energy system



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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)





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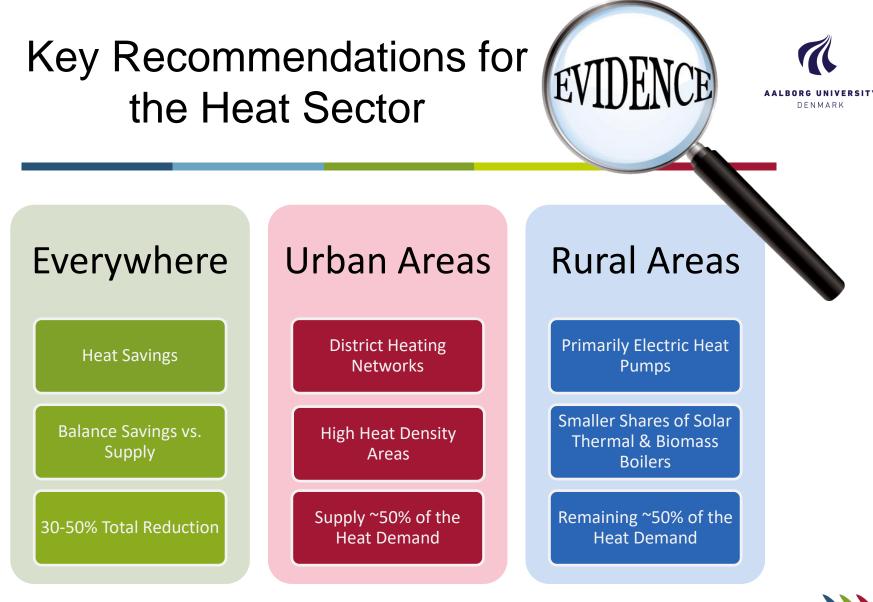
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Identification of strategies to cost-effectively decarbonise the heating and cooling sectors



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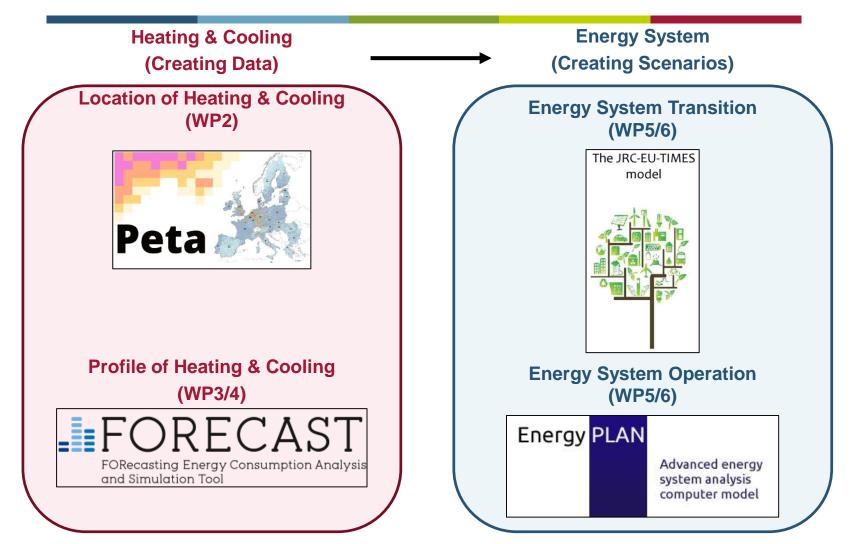




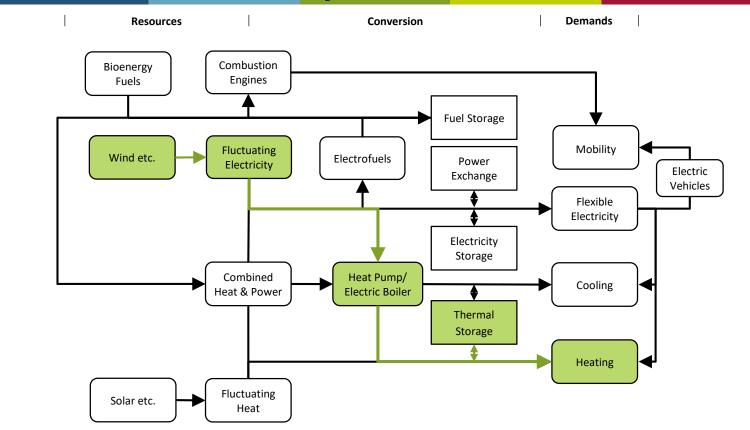
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Combining the Strengths of Different Energy Models



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





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Development of Peta

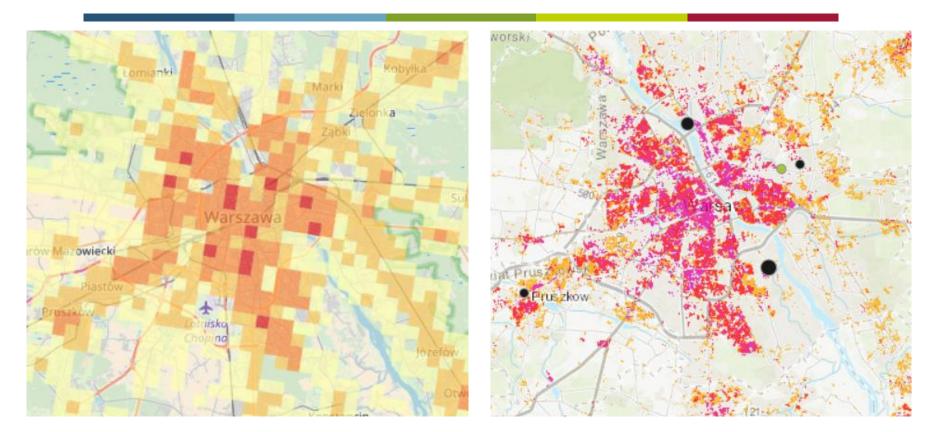
- Screening tool for planning
- Free and online available
- Where are:
 - Heating and cooling demands?
 - Renewables potentials?
 - Excess heat?



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Peta4.2: Increased level of detail





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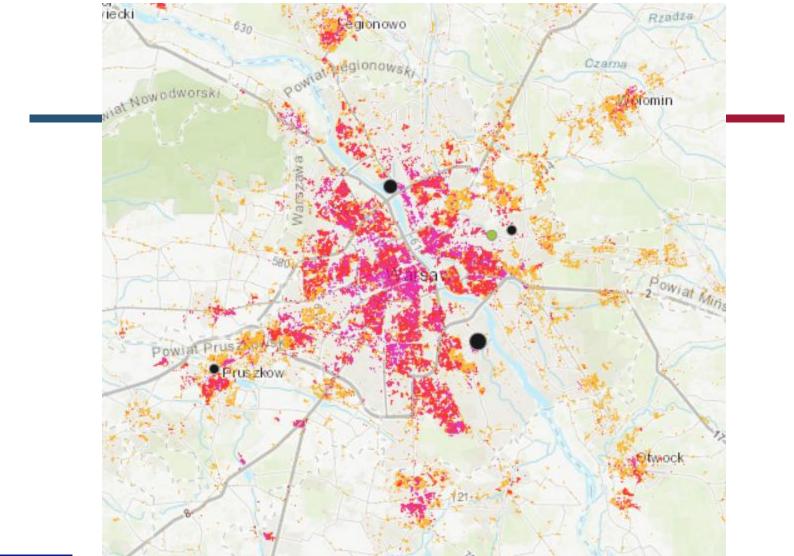
Demonstration of Peta4.2

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



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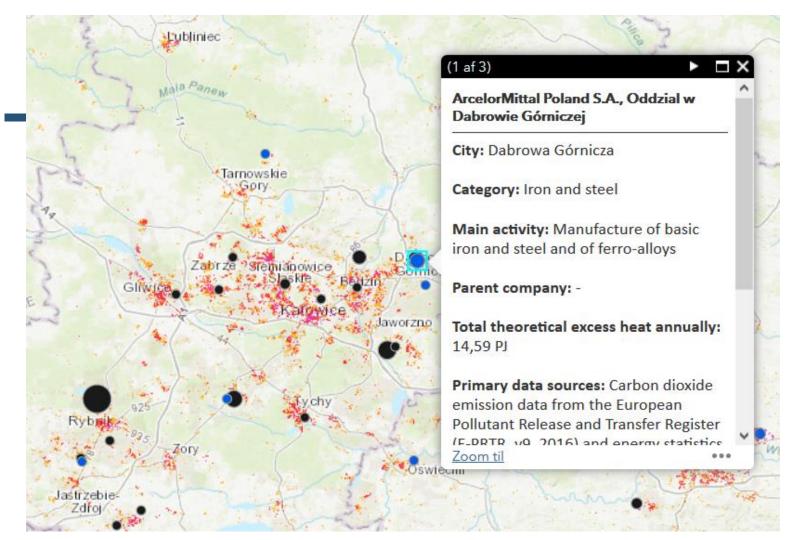






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THANK YOU FOR THE ATTENTION

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DENMARK

