

# Accelerating the Heating and Cooling Transition



Joint Call 2021  
Kick-off meeting of granted projects

Project presentation pitch

17 November 2021



# Geothermal –based Optimized Energy Systems: **GOES**

*Platform based design for energy systems*

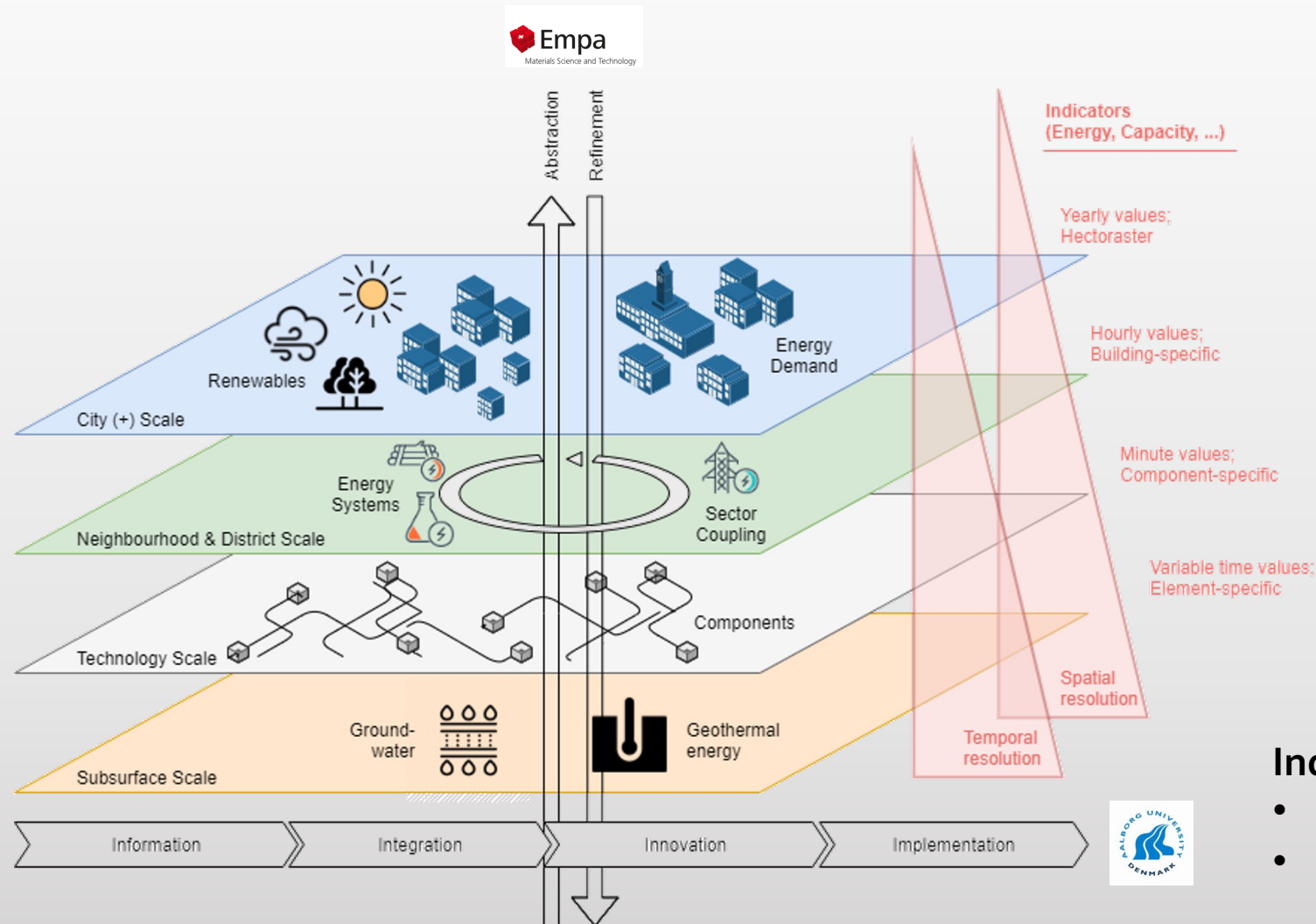
**Dr. Robin Mutschler,**

Scientist at the Urban Energy Systems Laboratory at Empa - the Swiss Federal Laboratories for  
Materials Science and Technology

[Robin.mutschler@empa.ch](mailto:Robin.mutschler@empa.ch)

<https://www.empa.ch/web/s313>

# Project partners and concept



## Problem

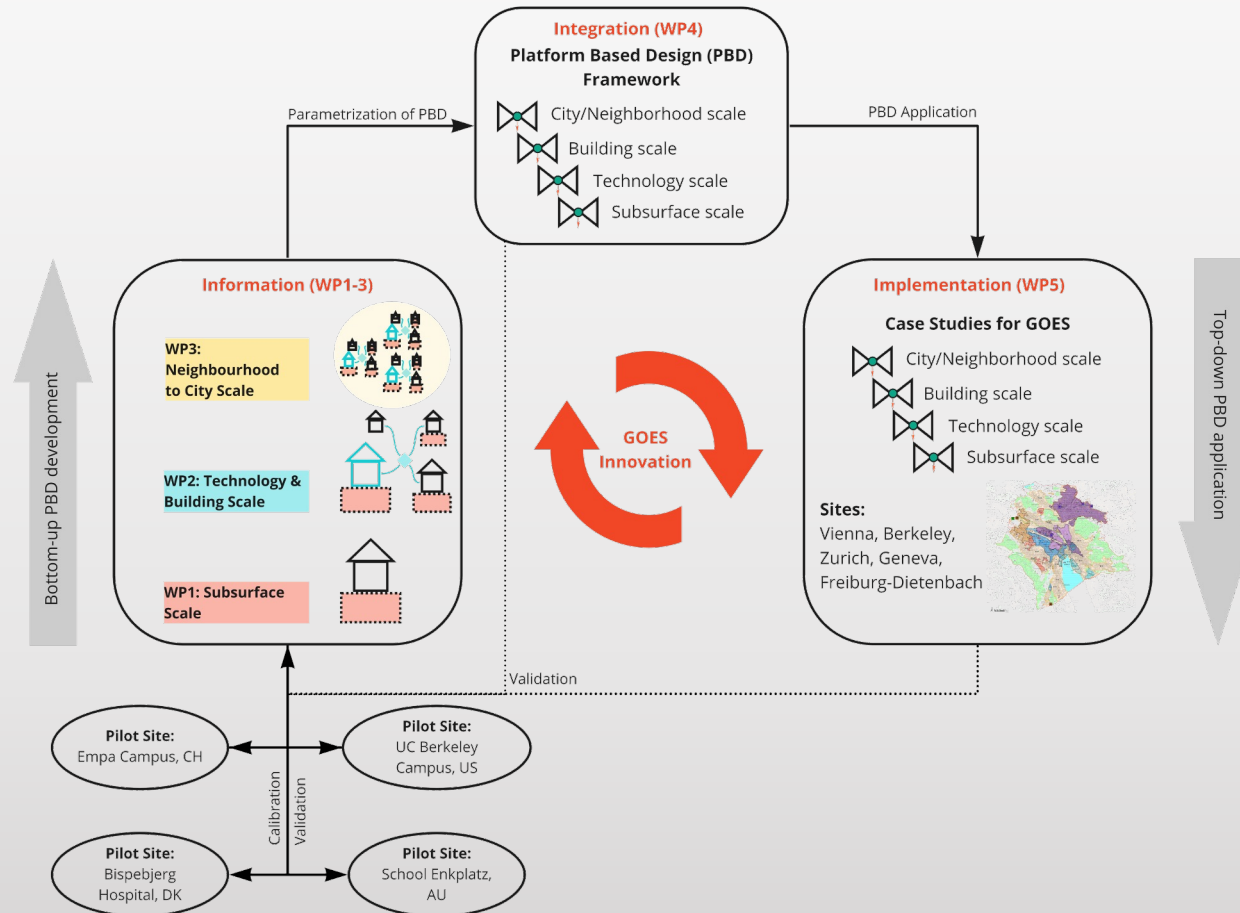
- One-of-a kind solutions are not scalable nor transferrable
- Standardized communication interfaces between the scales are required

## Industry partners

- Urban Symphony
- Energy machines



# Challenges and solutions



## Approach:

- Apply the Platform Based Design (PBD) approach to energy systems

## Challenges to be solved:

- Definition of interfaces based on the PBD approach.
- Implementation and validation at pilot sites
- Transferrable interfaces and methods