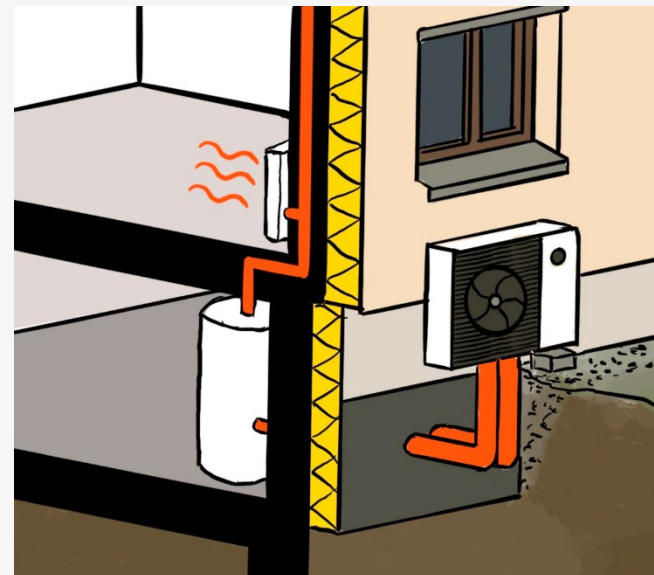
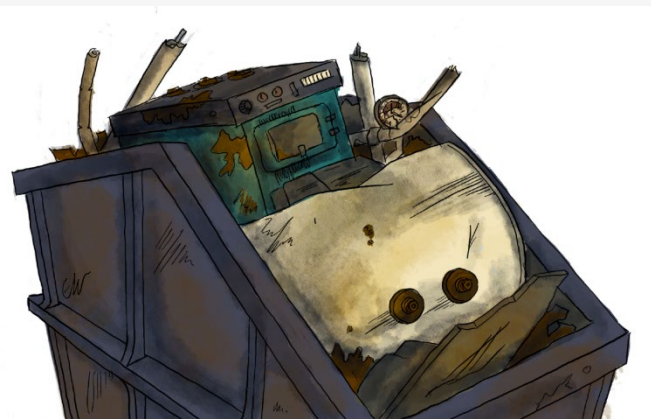


KnowHowHP: UPSKILLING FOR BOOSTING HEAT PUMP INSTALLATION IN REFURBISHMENTS

16th BUILDUP Skills European exchange meeting
Poster session 2 April 15:15-15:30

Tobias Hatt, Energy Institute Vorarlberg



Co-funded by
the European Union

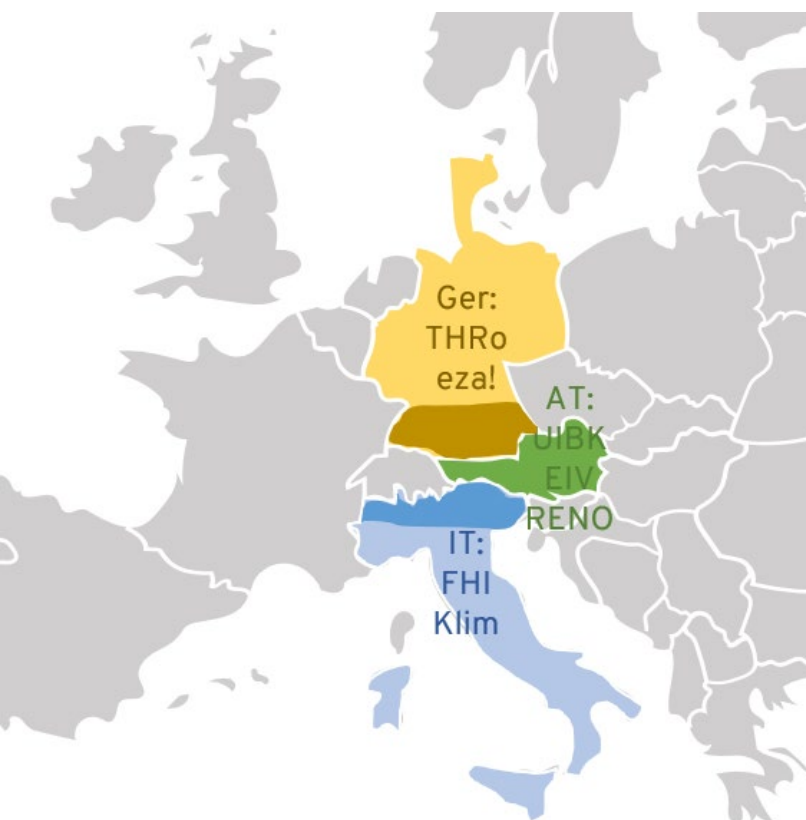
PROJECT TEAM



KNOWLEDGE:



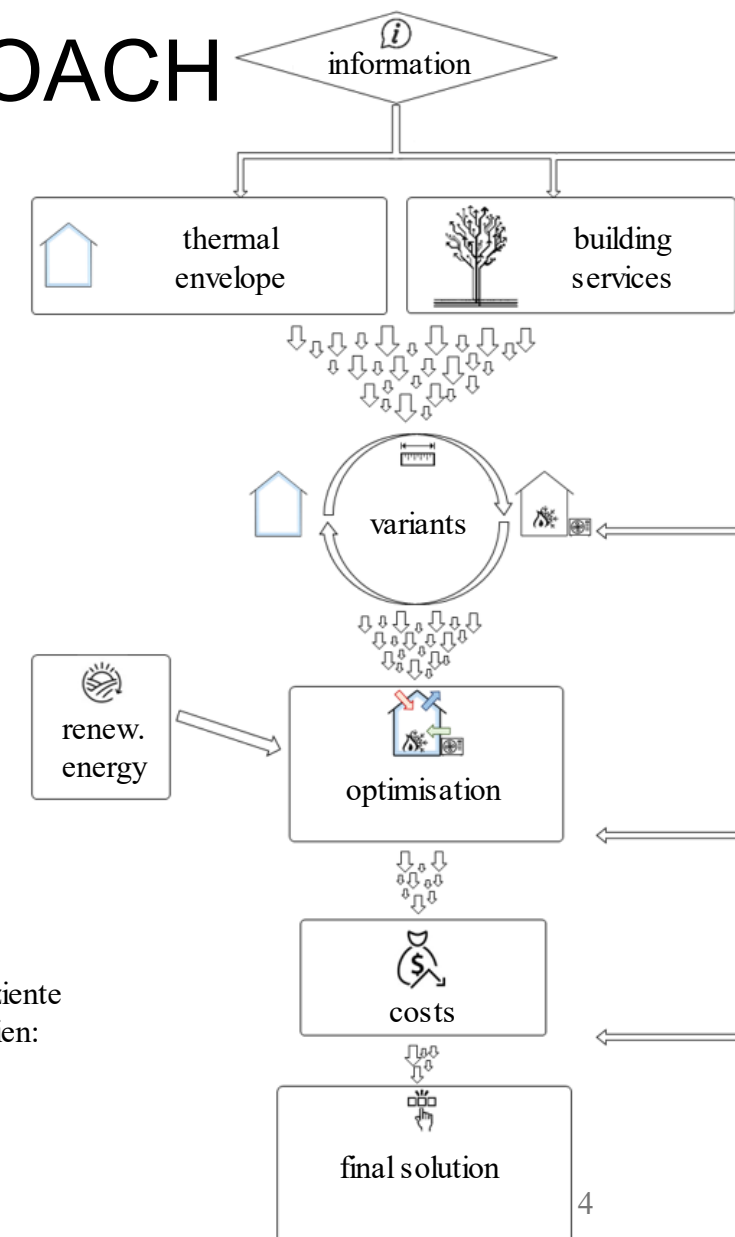
UPSKILLING:





INTEGRATED REFURBISHMENT APPROACH

- think in **different** ways **not** just in one solution
- **tool based decision making** based on
 - CO₂-emissions
 - lifecycle costs
 - investment costs



M. Hommelberg, W. Nussmüller, C. Urschler, F. Ochs, G. Dermentzis, M. Magni, V. Engstler, u. a. „Neue Impulse für die hocheffiziente energetische Sanierung von Geschosswohnbauten und Quartieren; RENEWnow“. Berichte aus Energie- und Umweltforschung. Wien: Bundesministerium für Klimaschutz, Umwelt, Energie Mobilität, Innovation und Technologie (BMK), 2023.
<https://nachhaltigwirtschaften.at/de/sdz/projekte/renew-now.php>.

UPSKILL 3 DIFFERENT GROUPS

- Improve workflow between decision making, planning and installation
- **Upskilling** 3 groups
 - Energy consultants
 - Planers
 - Installers



THE MAIN EXPECTED RESULTS

- **project scope:** refurbishment of multi-family buildings with hp
- development of **integrated refurbishment approach**
- **upskilling** of installers, planners and energy consultants
 - **improved** quality and integration in building refurbishments
 - **more** heat pumps installed
- increased **awareness** among building owners
 - **more** renovations of existing buildings
 - **increased** energy efficiency and renewable generation

MAIN PROJECT SPECIFIC KPIs

Project Performance Indicator	During project	5 years after end of project	
		Low	High
Topic-specific impact indicators			
Number of training schemes and actions developed, upgraded and replicated to support re-skilling or upskilling of professionals, based on high-quality gap analyses	17	17	32
Number of professionals trained	845	3380	5070
Number of trainers trained	44	176	264
Indicators specific to the proposed activities			
Number of apartment building developers and owners sensitized and mobilized	495	700	900
Increased acceptance of HP within the population and among professionals (number of people reached)	500	2000	3000
Number of manufacturer training courses integrated or fed with training documents	10	15	25

TOPICS ON WHICH THE PROJECT IS SEEKING COLLABORATION WITH OTHERS

- Heat pump systems for existing apartment buildings: technical solutions
- Thermal refurbishment in combination with the integration of heat pumps vs. the replacement of the old boiler
- Upskilling installers: How can we bring them into courses and which is the best method to introduce new content

