The refurbishment actions in the European CONCERTO initiative: first impact analysis, barriers and recommendations

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Refurbishment measures planned and implemented in CONCERTO

Facts and figures on CONCERTO
- 45 CONCERTO communities
- 18 member states
- ca. 500,000 people affected directly or indirectly
- ca. 222,000,000 € eligible costs
- ca. 1,500,000 m² of new eco-buildings and renovated buildings
- 100% of energy use covered by RES on average in CONCERTO

Renovation
- 65% of all planned refurbishment activities: residential sector
- approximately 190,000 m² of buildings have already been refurbished (half of all renovation measures planned initially)
  - Overview on renovation measures planned initially and actually implemented given in the poster
  - Overview on distribution of U-values among CONCERTO projects
Ambitions in terms of U-values reached after renovation are quite similar for Central and Northern European communities.

The effort in insulating external walls has been higher in the Central European communities than in the Northern communities.

First experience shows that there was no particular difficulty to reach the insulation targets in terms of U-values of external walls (as single measure).
Observations and conclusions

- In few cases, **connection to district heating could not be implemented** because of too high costs in replacing old individual systems.

- The expected number of **individual homes renovated can not be reached** in many communities (substitution to apartment buildings).

- **Comprehensive refurbishment operations** targeting high quality standards are still rather rare as many barriers (such as financial aspects or opposition from the inhabitants) are faced.

- Comfort ventilation systems are still **rarely implemented** and in particular there is no supply and exhaust ventilation system with heat recovery in the assessed projects.

- First monitoring data is already available but is still insufficient to support a costs/benefits analysis based on the actual savings due to renovation measures.