

# **YOUTH EMPLOYMENT AND THE DIGITALISATION OF THE ENERGY**

## **RENOVATION SECTOR**

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### **The Impact of Digitalization in Energy Renovation SMEs**

### **Boosting Youth Employment in Italy**

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## PROJECT MANAGING

## TECHNICAL SUPPORT



WORKING SITE IN  
OCCUPIED BUILDING

FINDING MONEY FOR  
RENOVATION

INTEGRATE ENERGY  
MEASURES IN  
RENOVATION

BUROCRACY FOR  
INCENTIVES

REDUCE COSTS, BY  
INCREASING THE  
PRODUCTIVITY IN THE  
WORKING SITES

CLASHES BETWEEN ENERGY  
REGULATION AND OTHER  
RULES;



## PROJECT MANAGING OF RENOVATION:

- TIME, - COSTS, + PRODUCTIVITY

- Introduce innovative technologies in the working sites
- Deep knowledge of the existing building
- Detailed planning of working phases
- Control of all phases of the project: since the design to the realisation
- Digitalisation of information – from the tender phase to the commissioning



OVERTURN THE RATE BETWEEN BLUE  
COLLAR AND WHITE COLLAR WORKERS

# A SUCCESS STORY - TEICOS



	Teicos	National Average
Number of employees	44	2,6
Percentage of «white collars»	63%	21%
of which graduated	89%	20%
women	50%	11%
< 30 years old	32%	16%

- 15% of turn over invested in innovation
- On site training for young project manager
- BIM implemented from 2016
- No profit active collaboration with NGO, university, research center, umbrella associations
- Networking with other SMEs

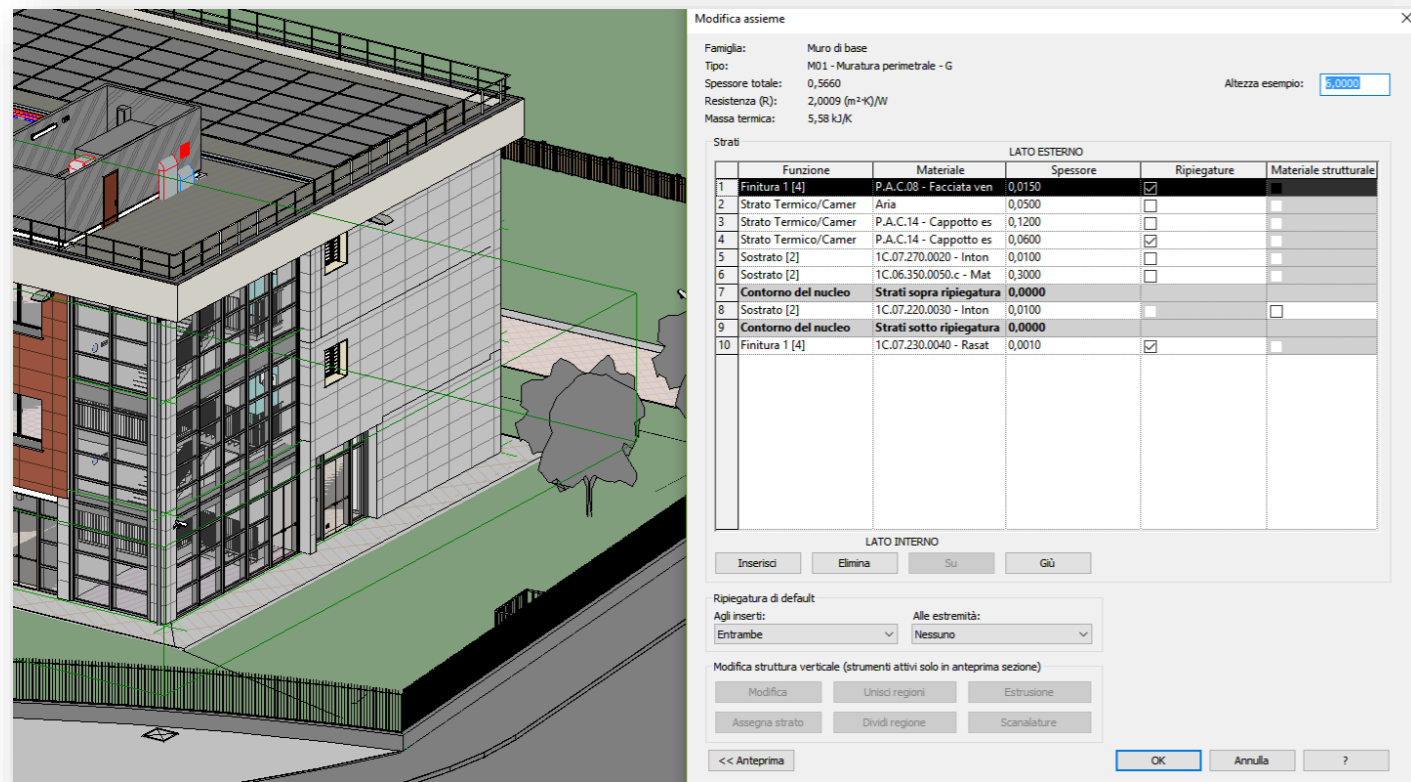


2012-2017: turn over increased 350%  
2017: Energy renovation 90% turn over



## NZEB RETROFIT SCHOOL IN MILAN

First retrofit public work in BIM in work execution. 5,000 m<sup>2</sup>



## BI SMART PROJECT

R&D project financed by Lombardy Region – Smart living call;

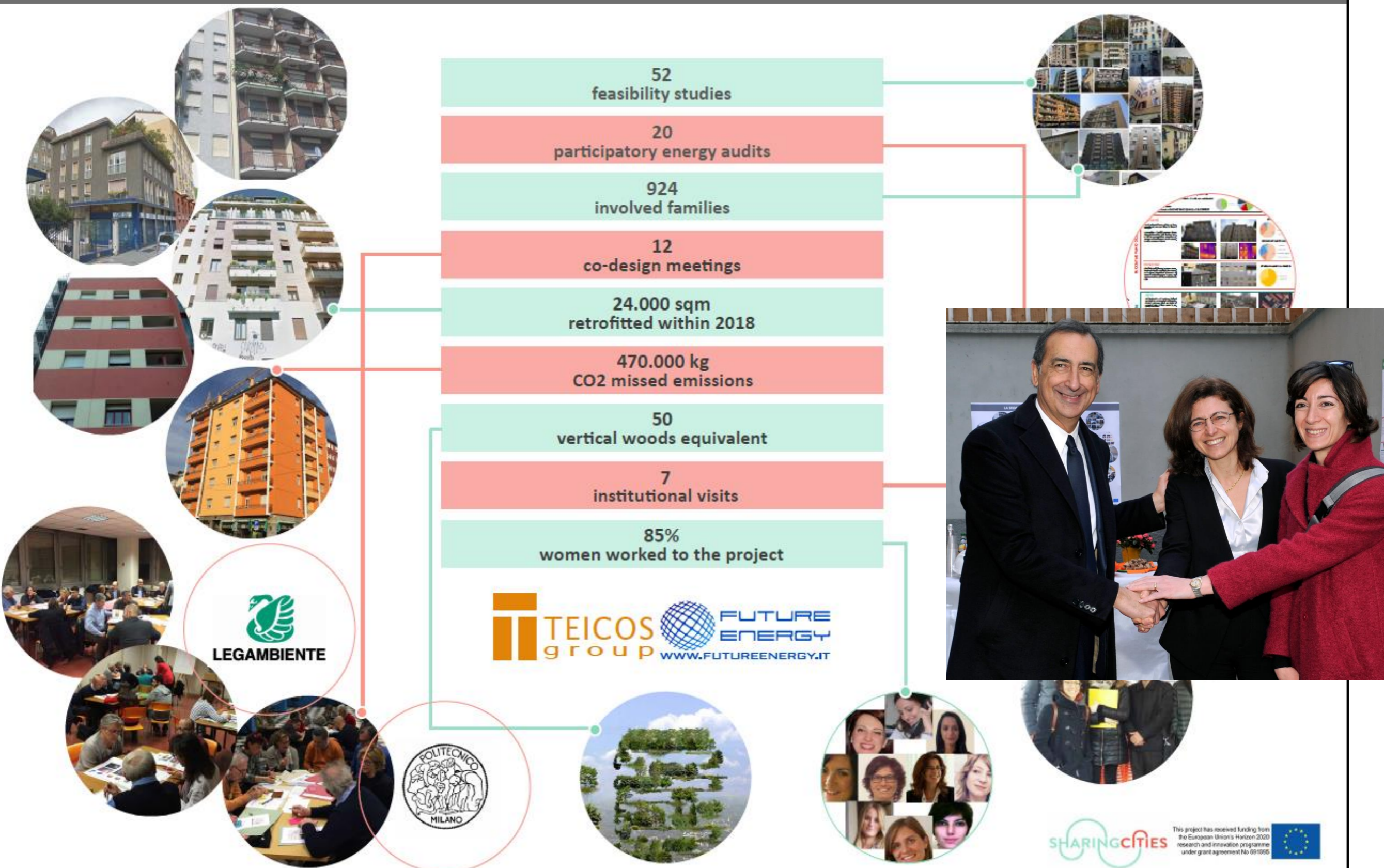
Toolkit of BIM implementation for collaborative work between SMEs on the working sites;

3 SMEs + Politecnico Milan





## THE CHALLENGE OF SHARING CITIES PRIVATE BUILDINGS' IN NUMBERS



**Thank you for your attention!**

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