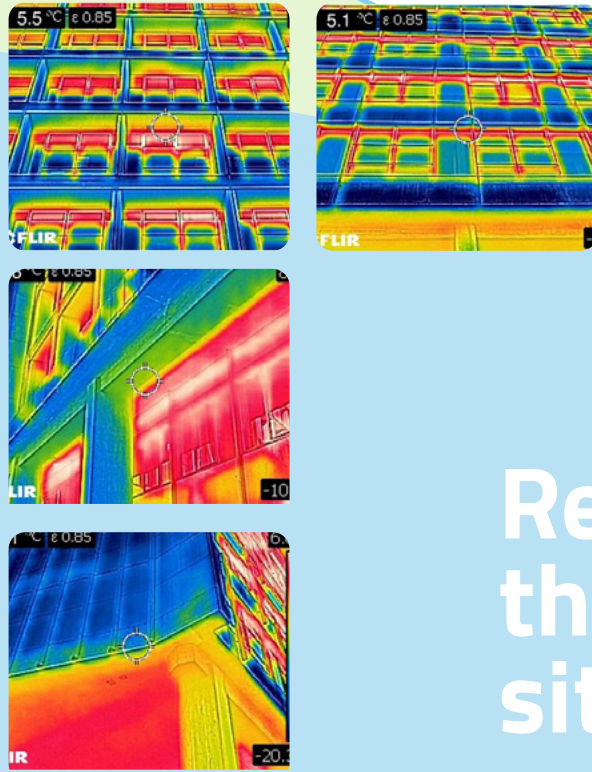
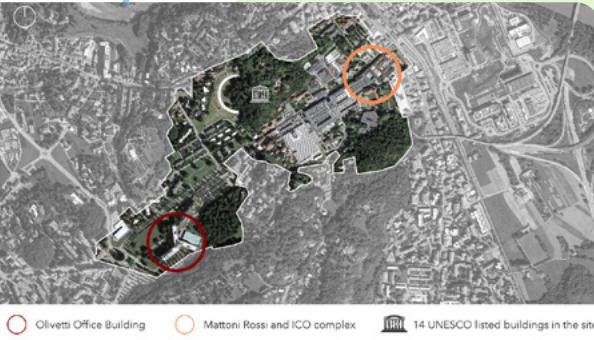


6



PRESERVED AND TRANSFORMED CULTURAL HERITAGE



Existing buildings in the EU are responsible for 40% of its energy consumption and approximately 36% of CO2 emissions. This project aims to develop a retrofitting strategy that takes into account both environmental and cultural sustainability. It will improve thermal performance while preserving the value, character and aesthetics of modern architecture. This method will be tested on three emblematic buildings of Ivrea UNESCO heritage site: the Mattoni Rossi factory, the ICO complex and Olivetti office building. The process will involve citizen participation and bring old industrial buildings back to life. The process will be carried out in five phases: architectural investigation to imagine coherent design solutions; technological analysis; thermal diagnosis; propositions and matrix comparison. Comparing variants will lead to the most suitable solution. The final purpose of this pilot research is to provide a practical tool that can be adapted for future refurbishment of other industrial sites, in varied geographical or cultural contexts.

Retrofitting the UNESCO site of Ivrea

ITALY IVREA

SUSTAINABLE

Thermal performance
Reduced "grey" energy

AESTHETICS

Architectural value
Maximal conservation

INCLUSION

Citizen participation
Accessibility

