

\* Since the late 1960s, Trento has pursued policies protecting the environment and reducing pollution.

\* Consistently rated in the Top Ten Italian cities for quality of life by Italian economic and financial newspaper Il Sole 24 Ore

\* GDP is increasing at a 20% faster rate than national average (per capita)

\* The provenance values a knowledge based economy, spending 300 Euro/person compared to the national average of 40 Euro/person

\* Trento boasts a low unemployment rate: 3.1% compared to national average of 6.8% (2006)

\* Education is a high priority, with 92.2% of high school age youth attending school

The goal of the alliance is to advance research in sustainable connected homes, including subtopics of renewable energy systems, sustainable architecture, social sustainability, and connected information systems to optimize home behavior and people's lives. The way we inhabit our house, our rituals of inhabitation, will be influenced by this to become more sustainable in our social and human activities.

The MIT Mobile Experience Lab is implementing a dual strategy of technological advancements as well as a social and cultural study of how a sustainable house works in Trento, Italy.

The project will conclude with building a full-scale prototype of a sustainable home with new technologies, materials, and applications.

In partnership with Fondazione Bruno Kessler and other regional research organizations, the MIT Mobile Experience Lab will review the envelope of a sustainable house as a mediator between the inside and outside as well as an apparatus that works with:

- solar panels and thermal mass
- wind turbines
- dynamic windows
- energy in water storage
- biomass

Superimposed with an energy-network system that allows symmetrical energy sharing and offsets, the aggregation of these homes into an urban village allows for better energy distribution.

concept home interior

