

edilportale[®]

TOUR 2015

La Mostra Convegno in 20 tappe su
Architettura sostenibile, Efficienza
energetica, Comfort abitativo, Active
House, Costruzioni in legno, Antisismica,
Antincendio, Tecnologie costruttive.

IN COLLABORAZIONE CON

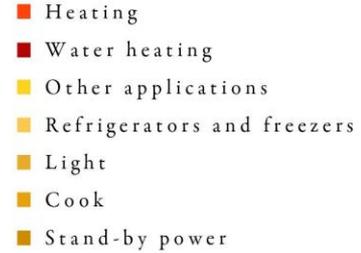
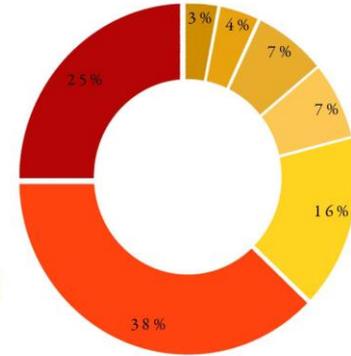
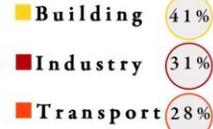
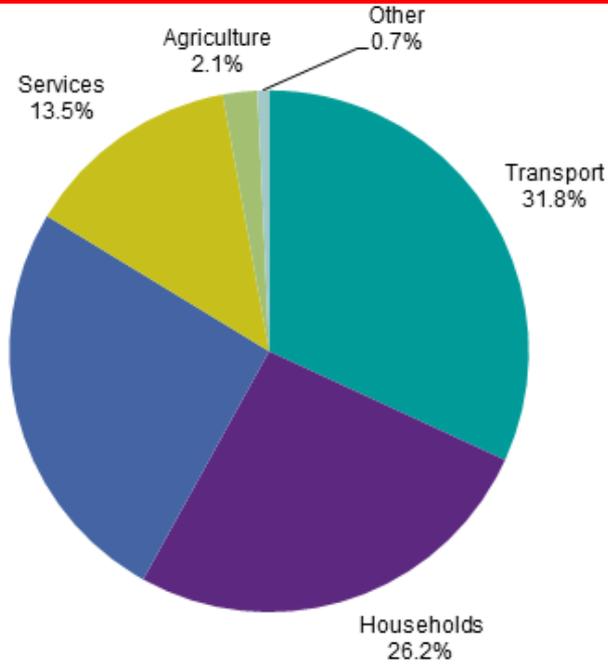


Reggio Calabria, 27 marzo 2015

Periferie e abusivismo edilizio: una risposta dal Solar Decathlon

Chiara Tonelli

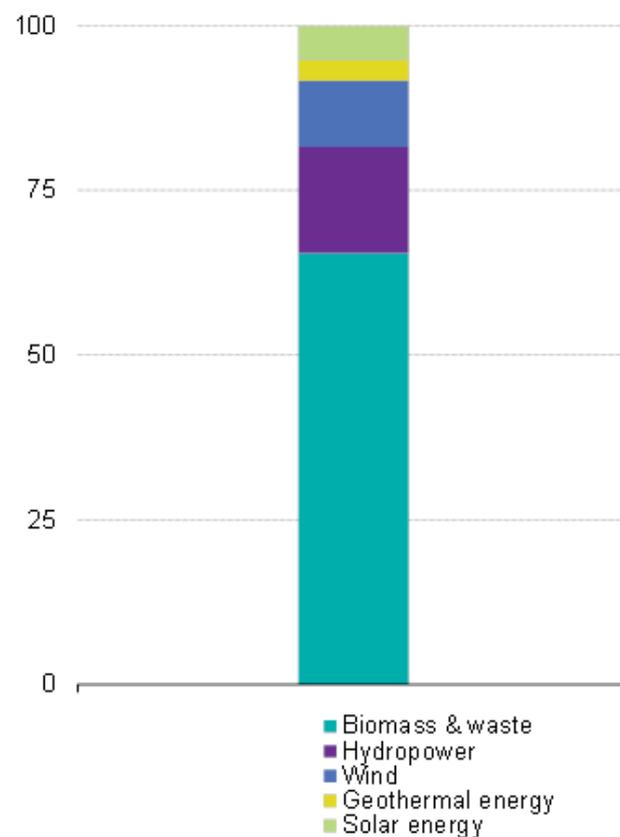
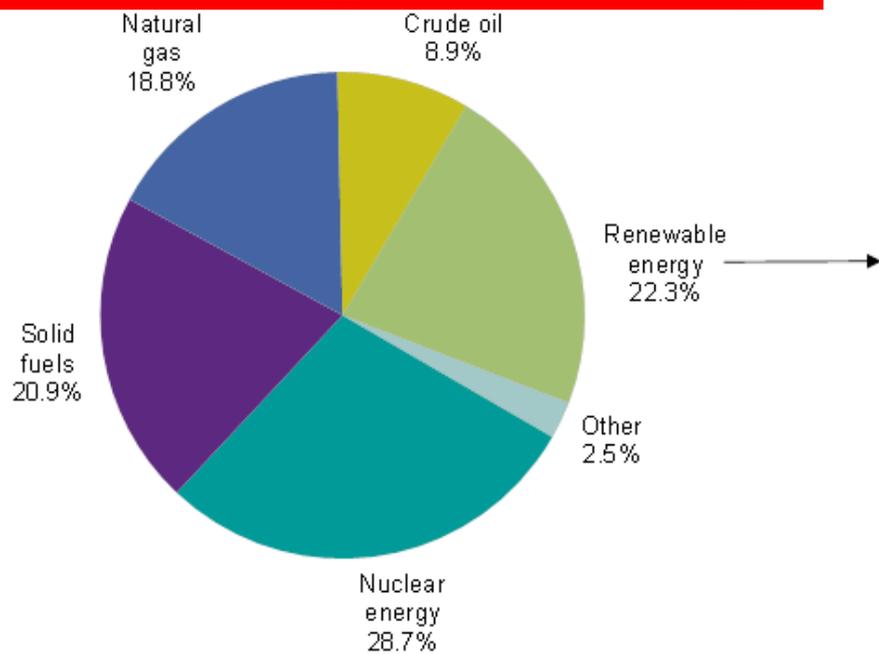
Energy Use in Europe

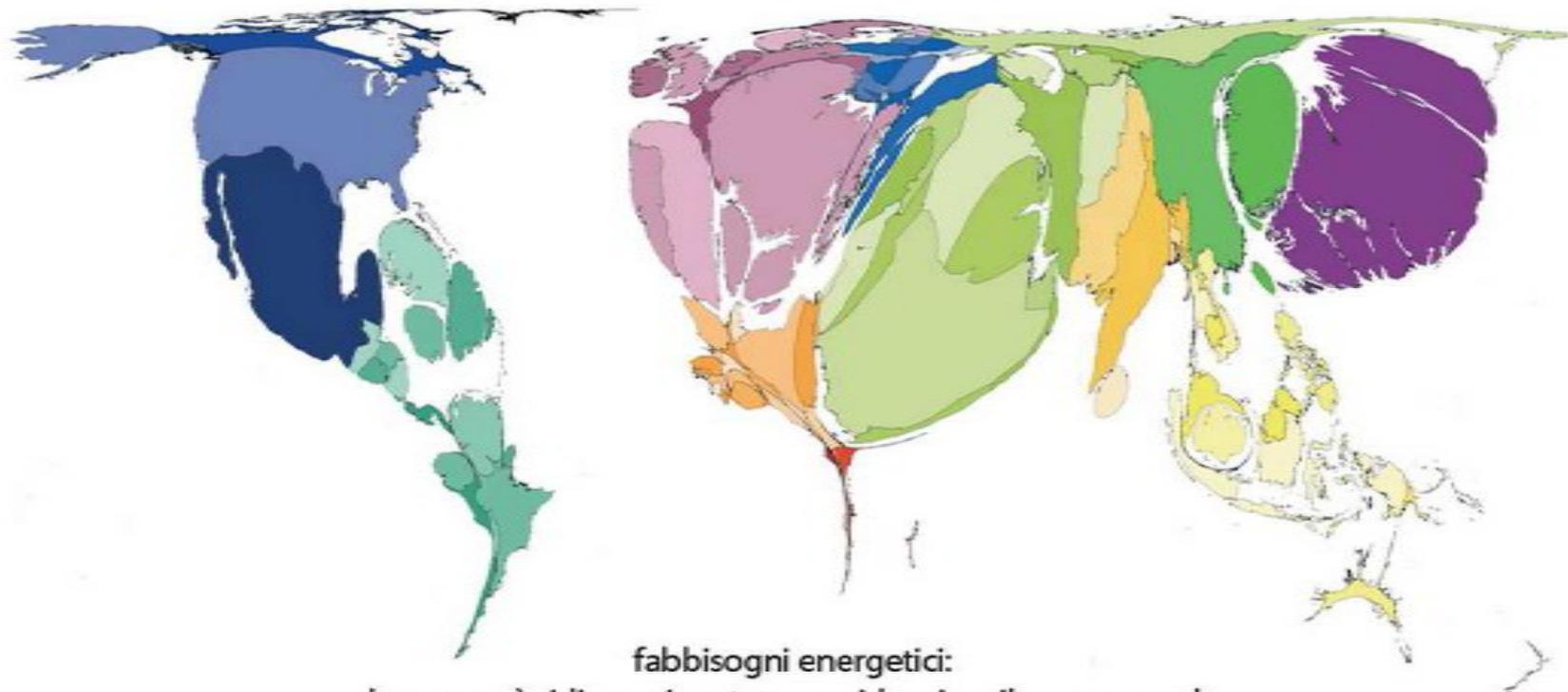


Percentage of energy consumption in Europe

Domestic consumption of energy with despotic conventional heating

Energy source in Europe





fabbisogni energetici:
la mappa è ridimensionata per evidenziare il consumo e la
dipendenza dal petrolio nel produrre energia elettrica

La competizione



Solar Decathlon

Irvine

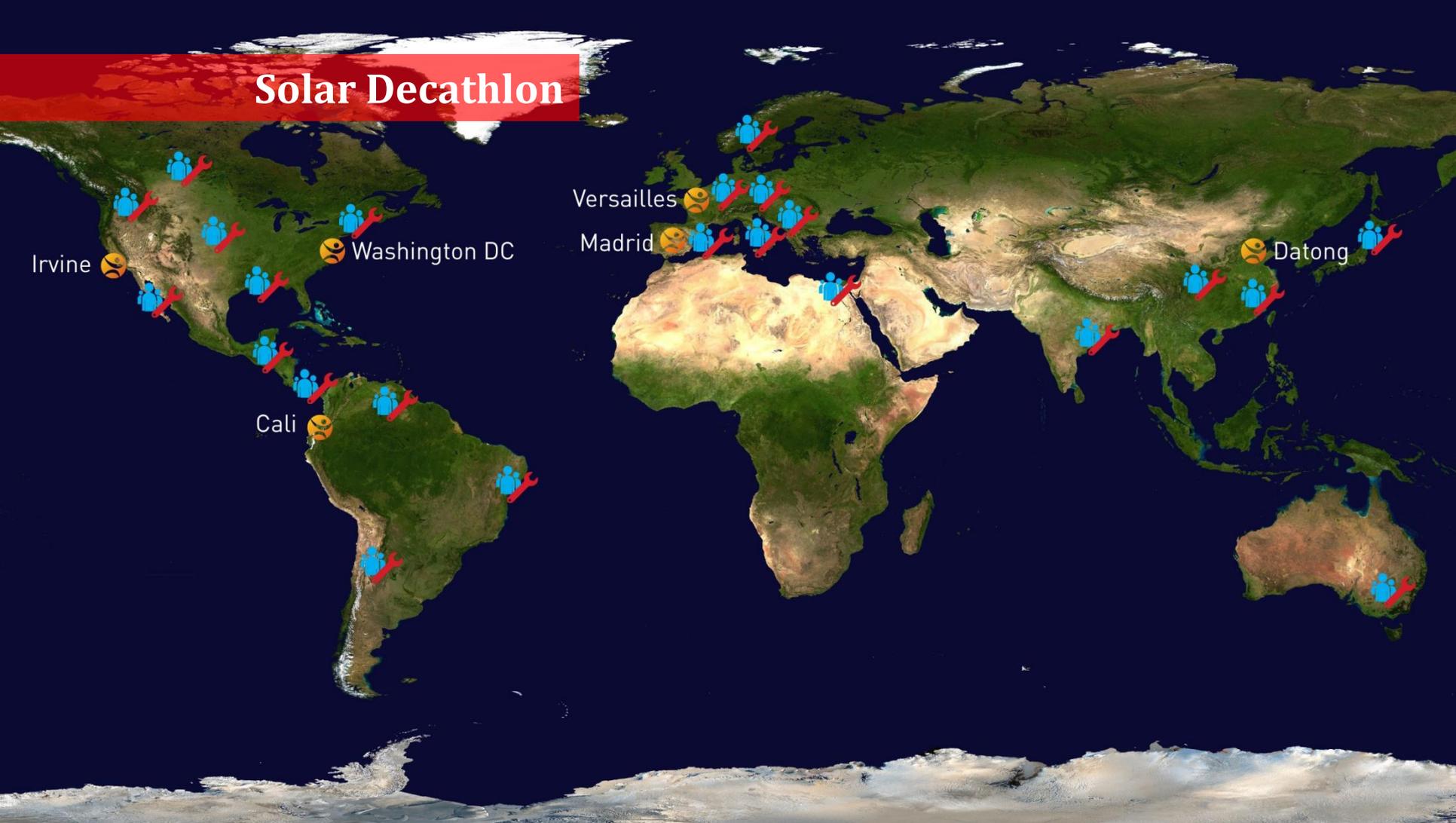
Washington DC

Cali

Versailles

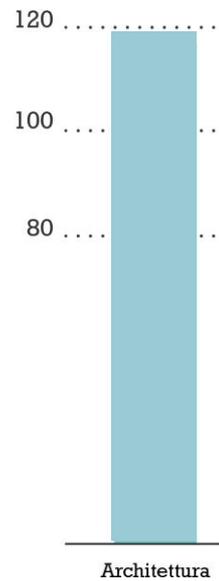
Madrid

Datong



Solar decathlon 2012







density



Michael Wolf - Honk Kong

mobility

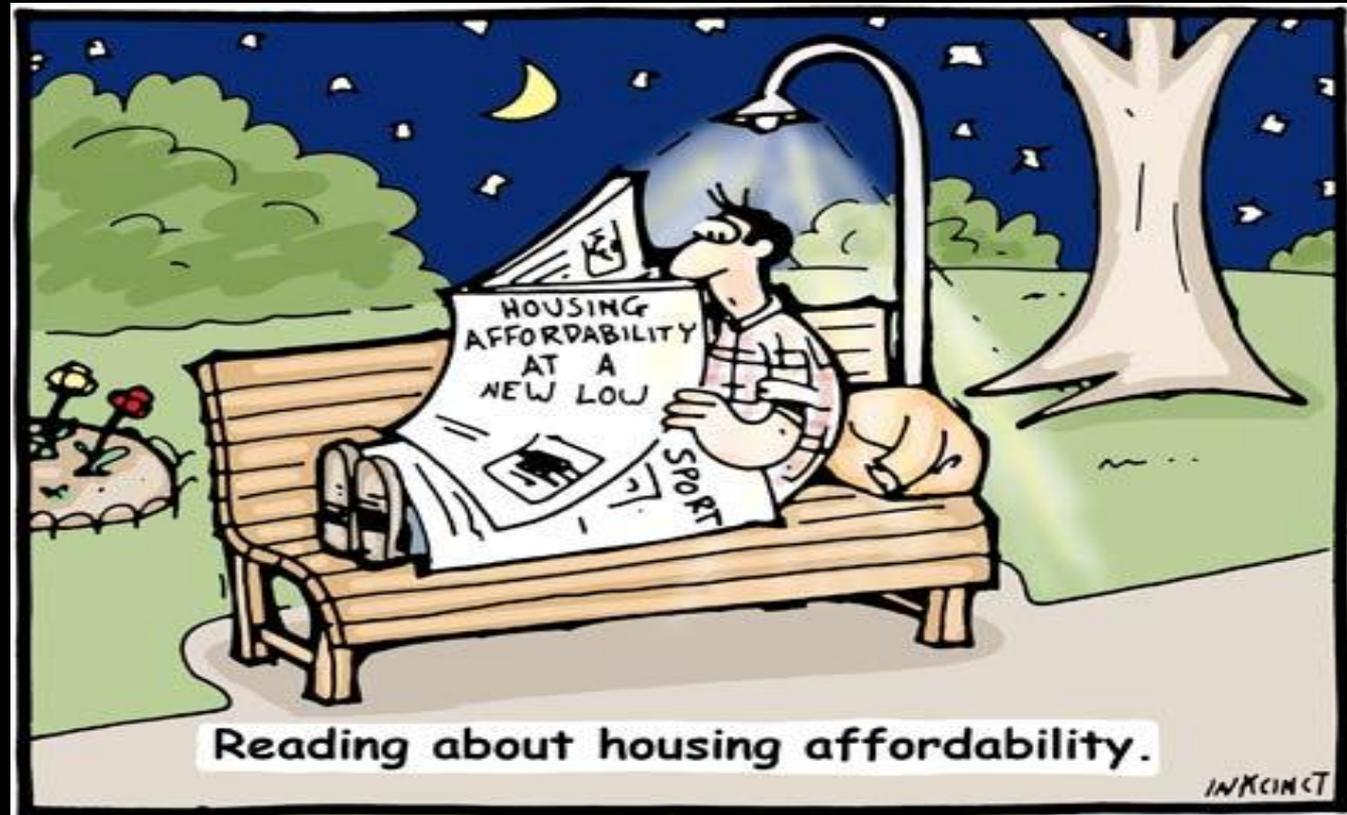


Picture
Alex MacLean

sobriety



affordability



ROME

The logo for 'ROME' is presented in a bold, white, sans-serif font. The letters 'R' and 'O' are solid white. The letter 'M' is partially obscured by a grey geometric shape that resembles a mountain peak. The letter 'E' is partially obscured by a green geometric shape that also resembles a mountain peak. The final 'E' is solid white and is partially obscured by a green geometric shape that resembles a mountain peak.

a home for Rome





OFFICIAL SELECTION
COMPETITION
FESTIVAL DE CANNES



colonna sonora originale

LA GRANDE BELLEZZA

UN FILM DI PAOLO SORRENTINO

Acquedotto Appio Claudio - Roma

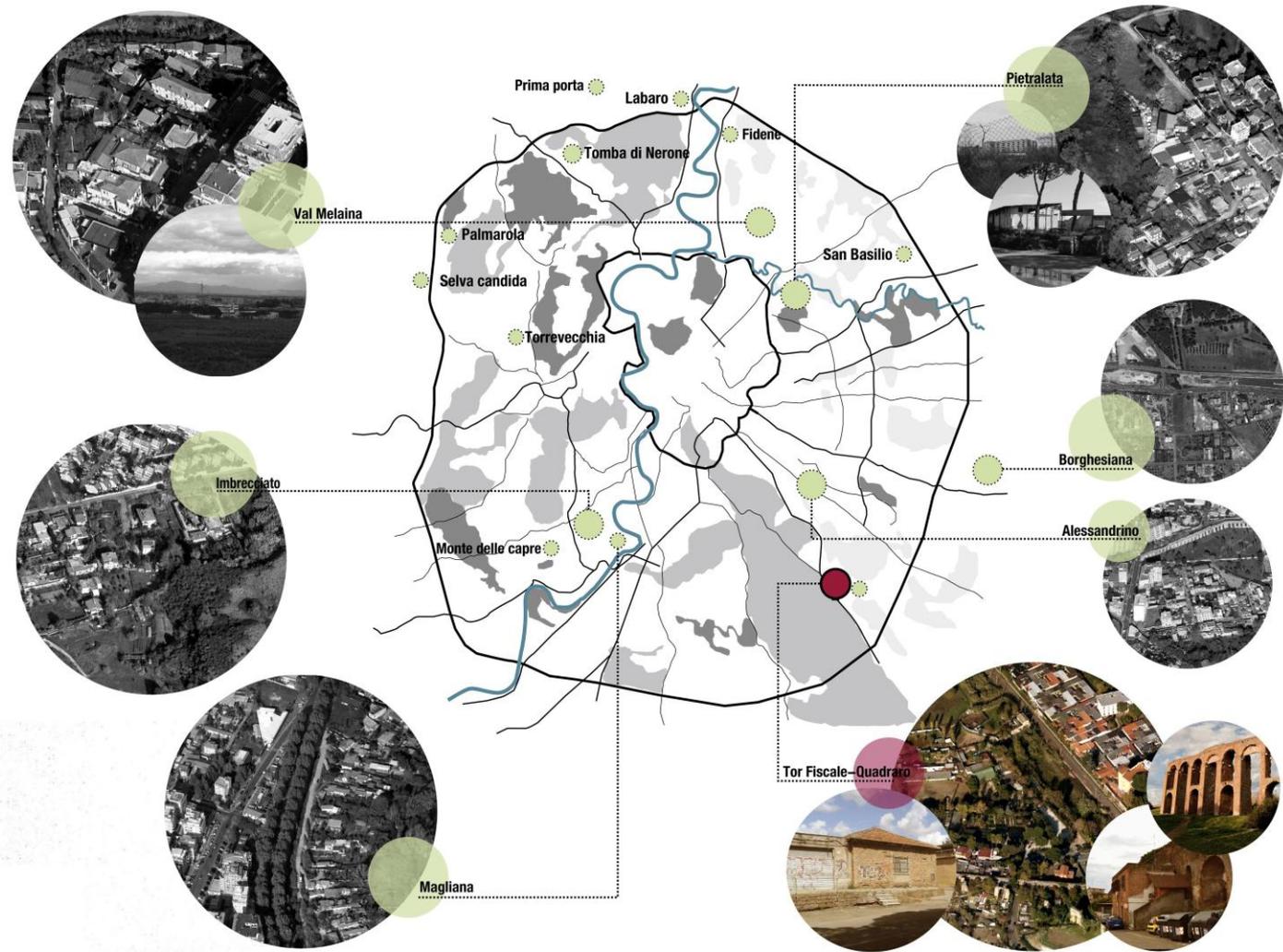


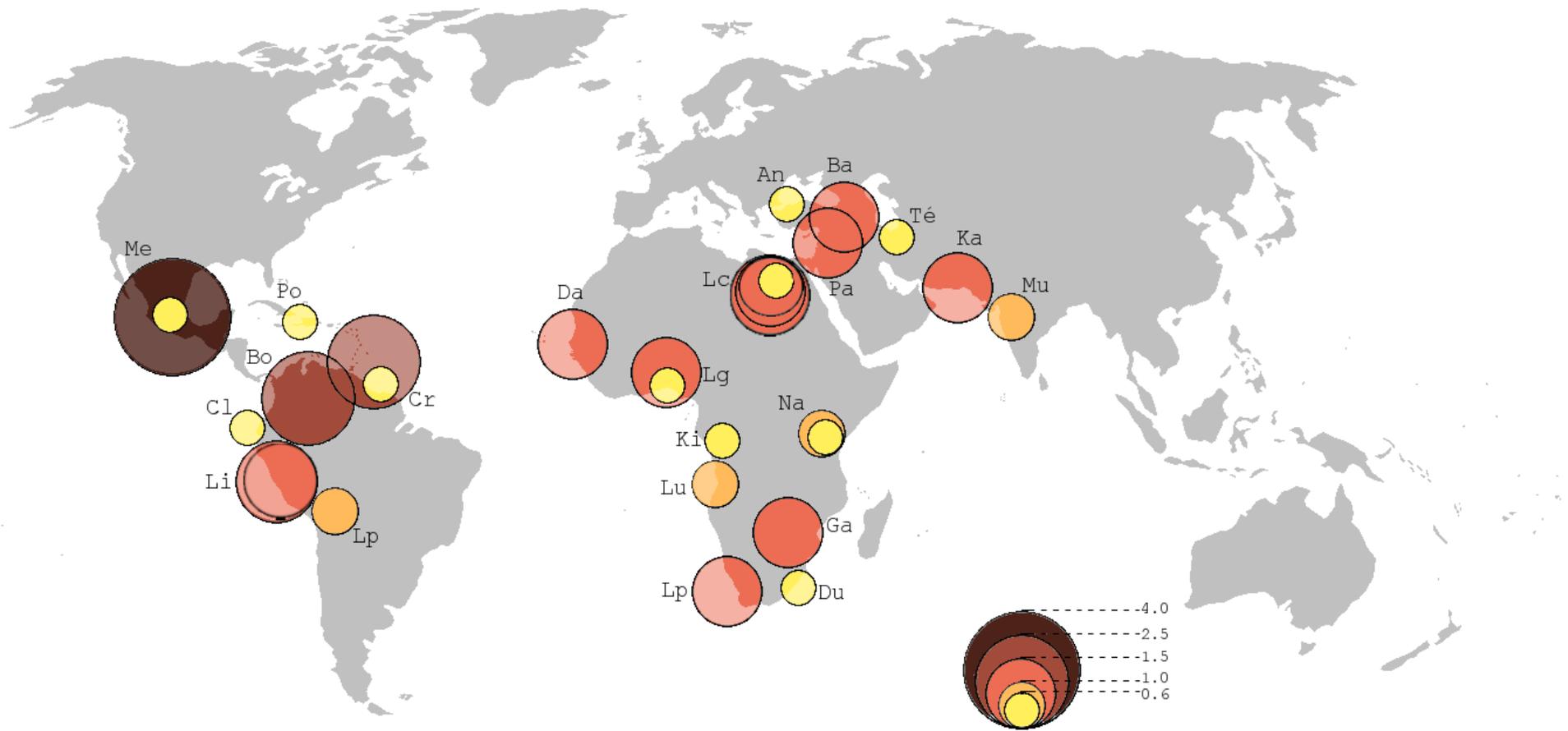
Acquedotto Felice - ROMA

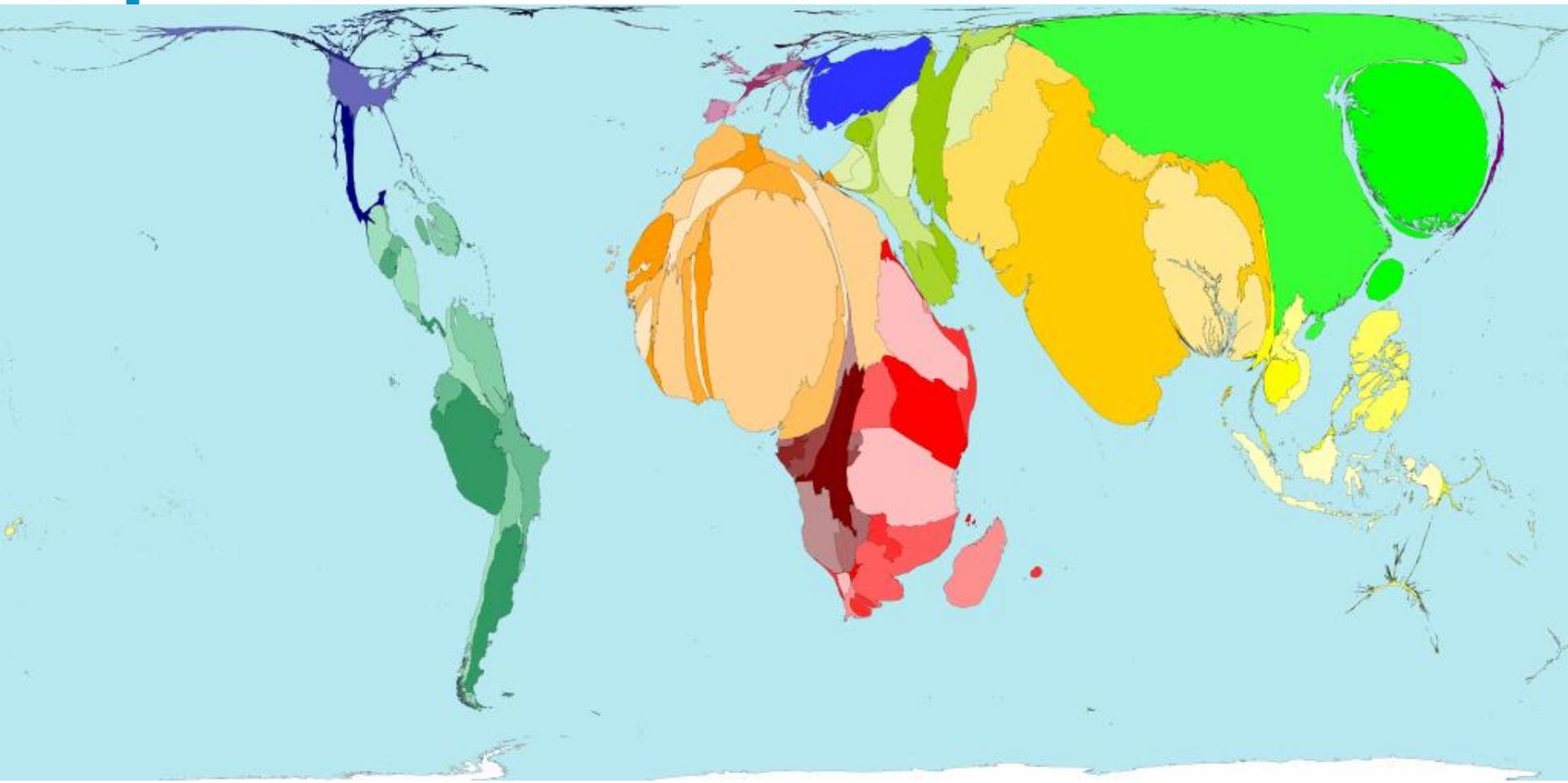


Acquedotto Felice - ROMA









Tor Fiscale: demolizioni







Riscoprire la Grande Bellezza



Social Housing







10 giorni per la costruzione



Il prototipo



RhOME for denCity

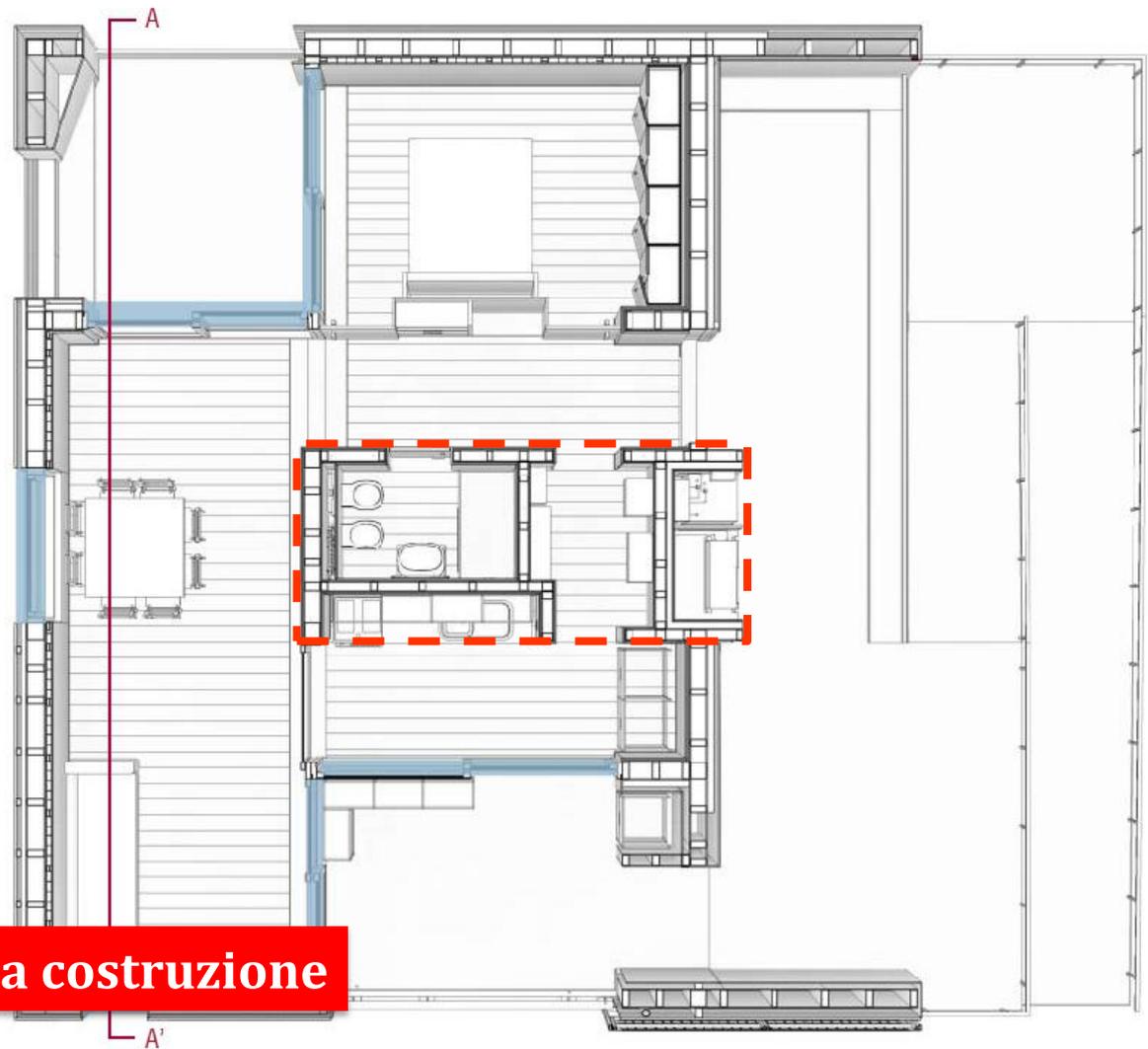


RhOME for denCity

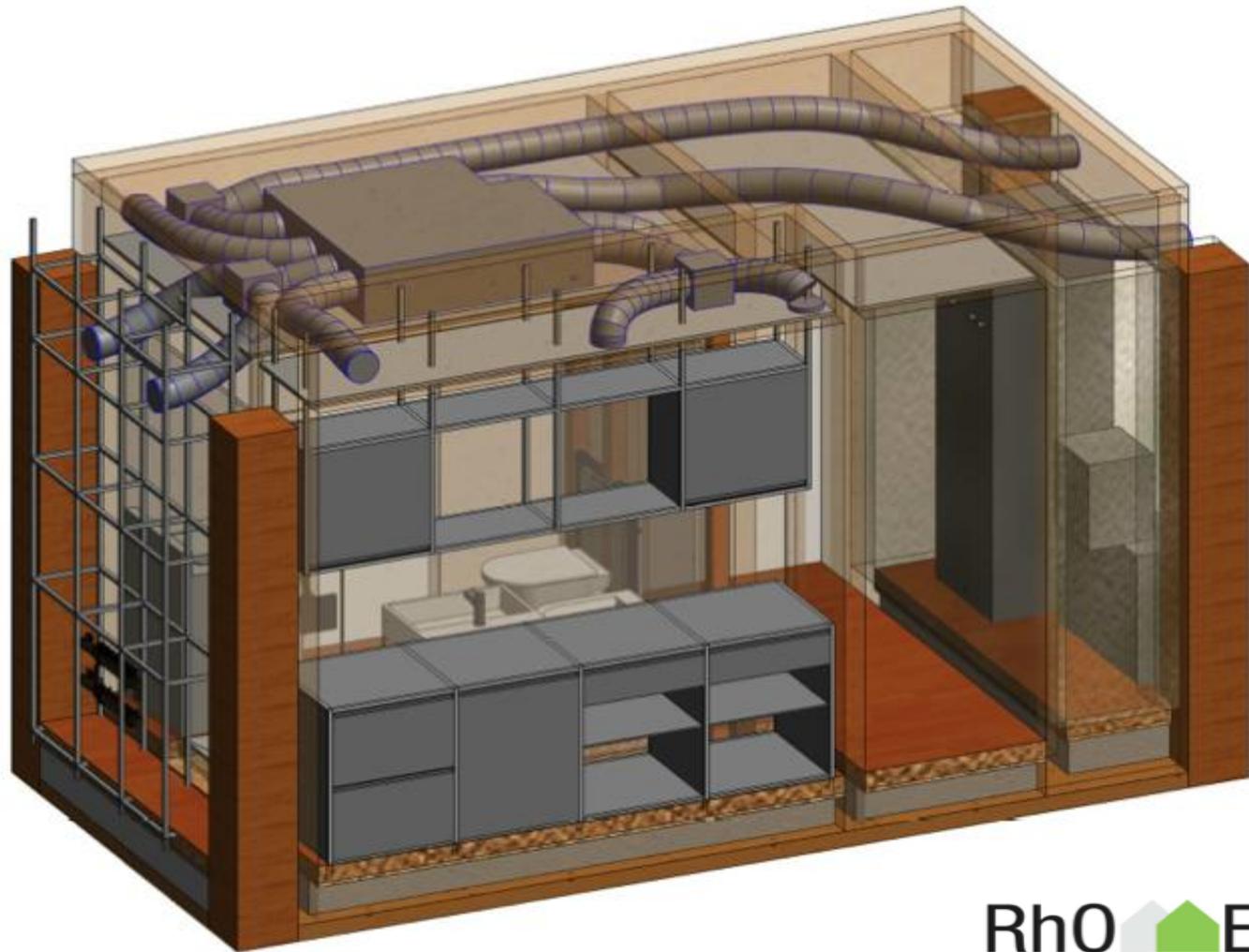


Le innovazioni di RhOME



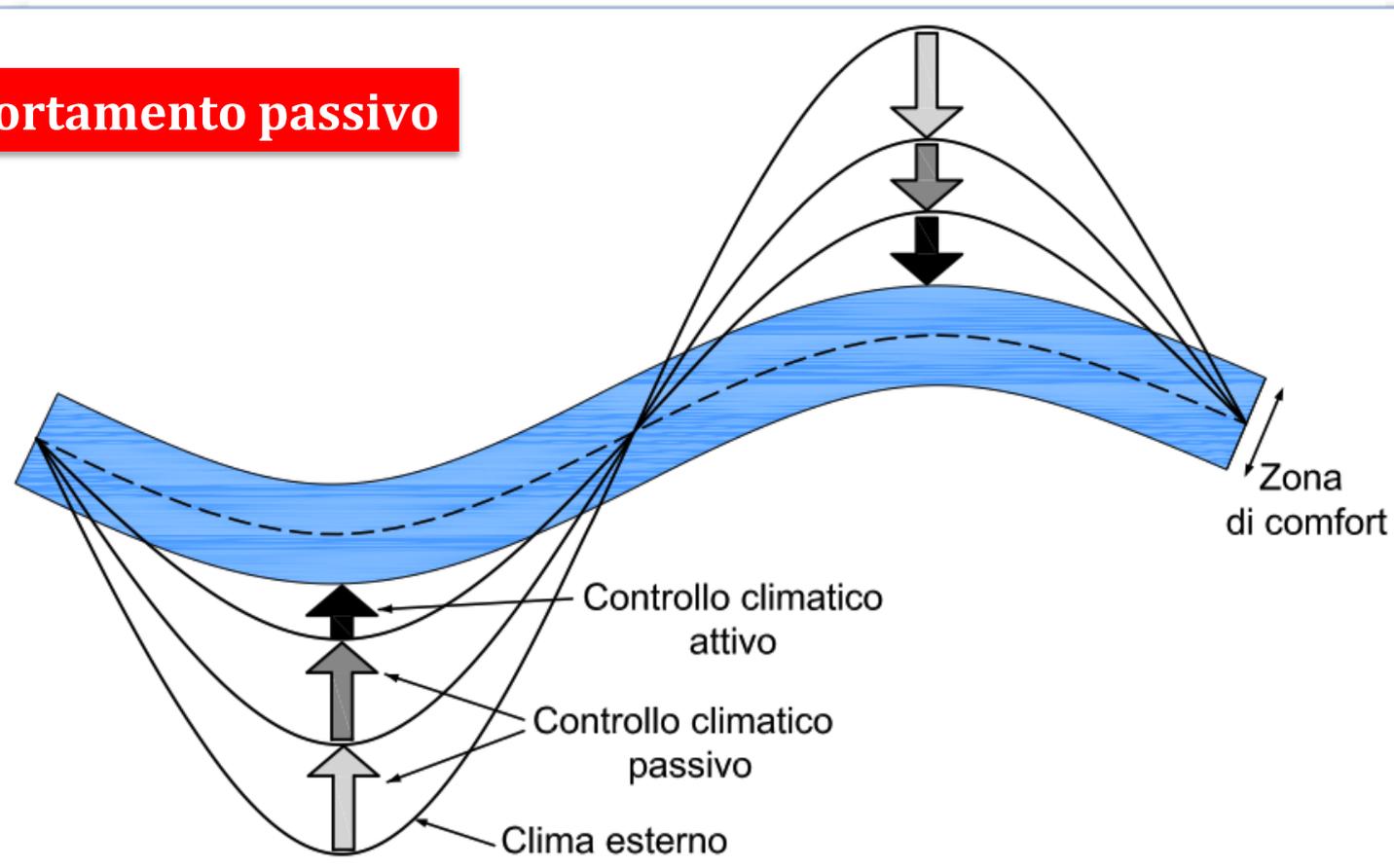


Accelerare la costruzione





Favorire il comportamento passivo





-1°C



CONSUMI x3







108

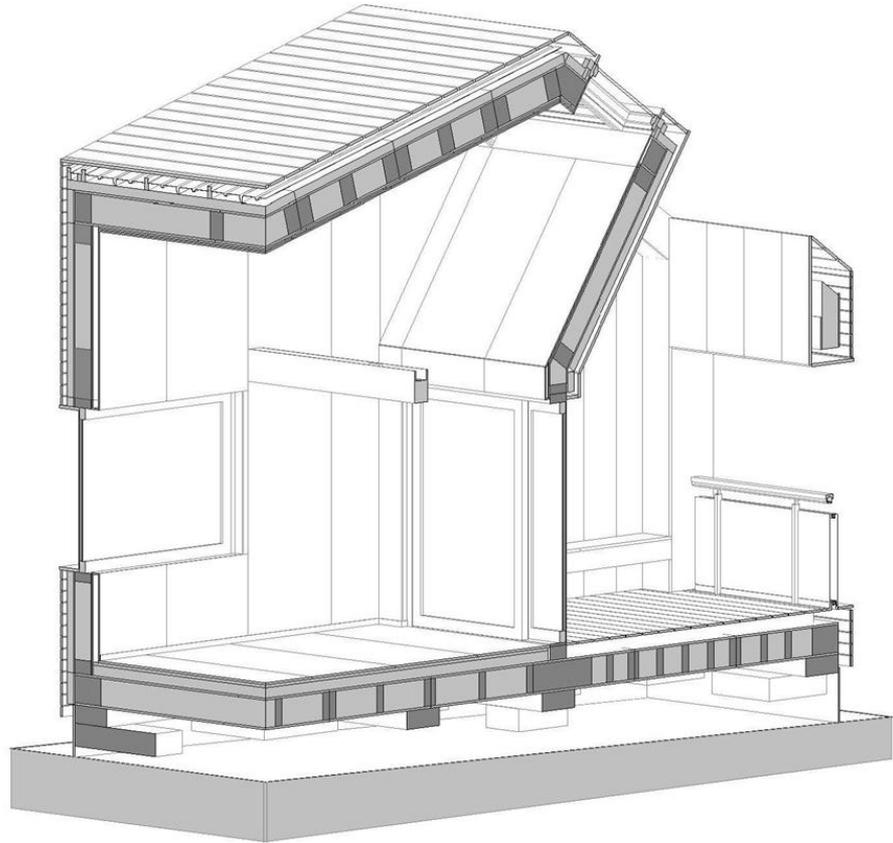
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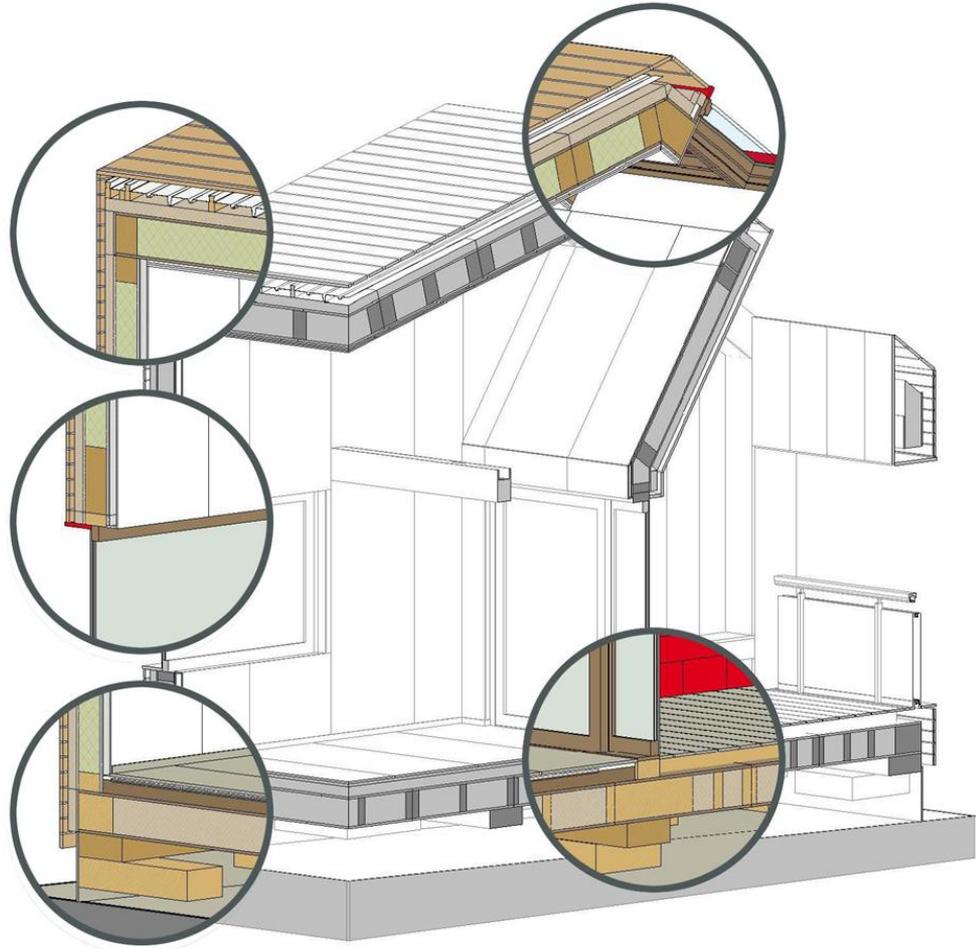
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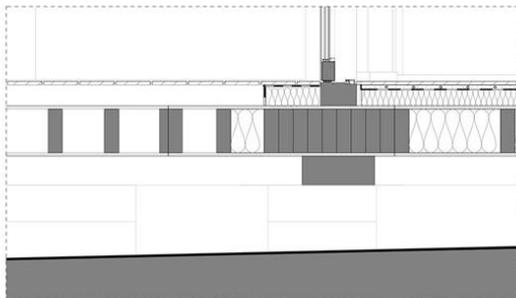
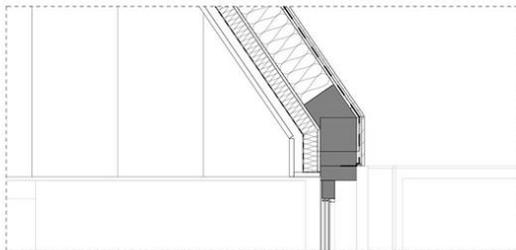
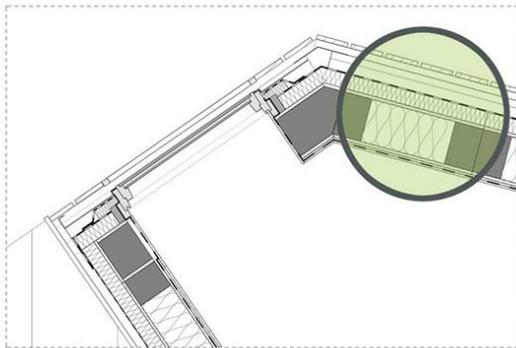
17

5T

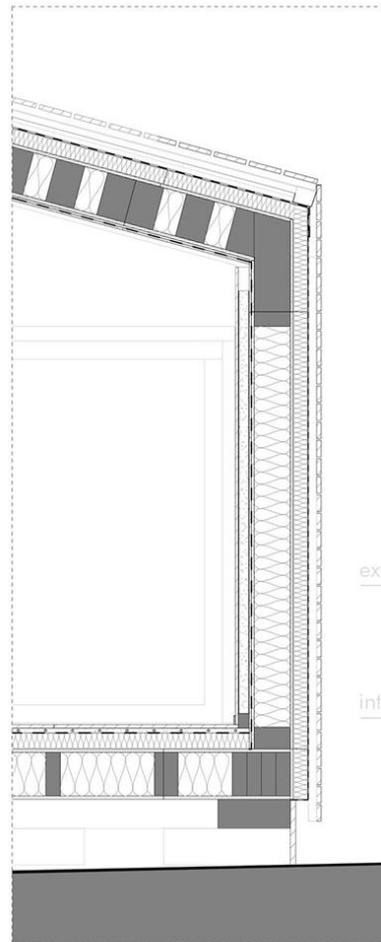




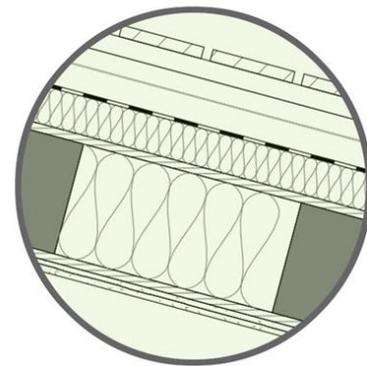




Vertical Section – S1

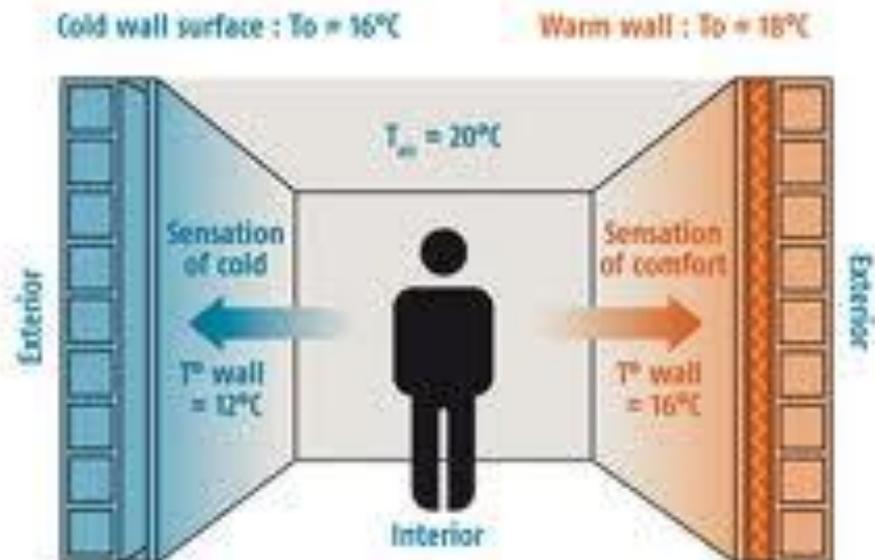


Vertical Section – S2

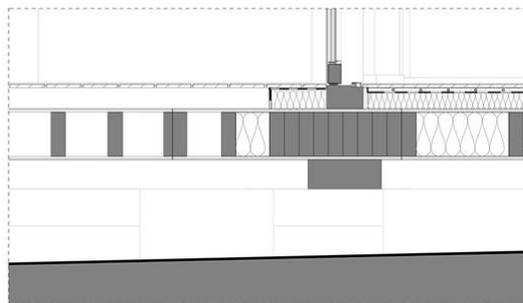
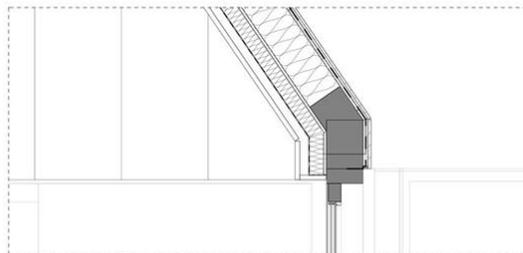
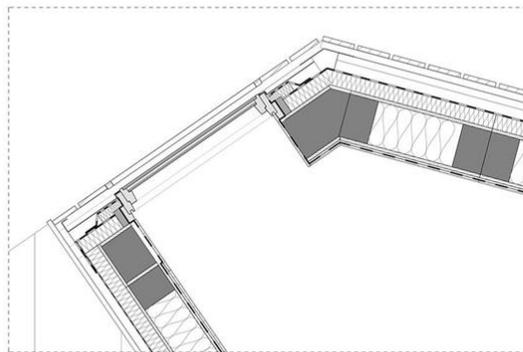


PlatformFrame roof - 56,22cm

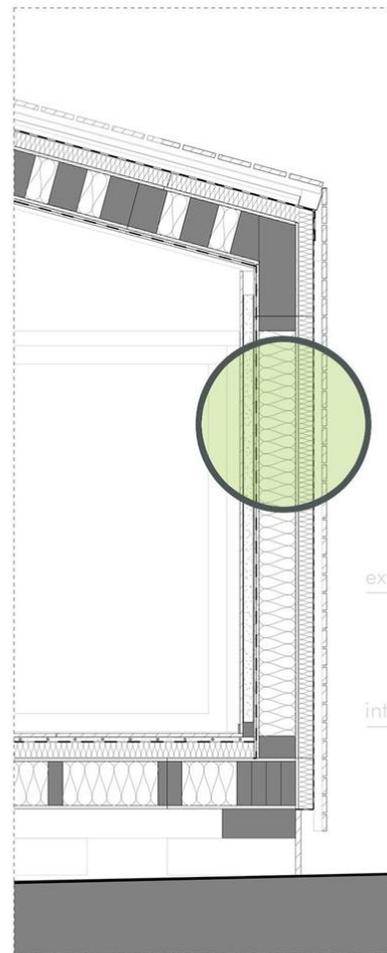
- 1 - Wood finishing (Larch) - 2,5 cm
- 2 - Ventilated air cavity + spruce timber - 4 cm
- 3 - Corrugated sheet + spruce timber - 10 cm
- ext 4 - Stamilol Pack 500 - 0,07 cm
- 5 - High density fiber wood - 8 cm
- 6 - Superpan Tech P5 - 1,8 cm
- 7 - Low density fiber wood + spruce timber - 24 cm
- int 8 - Superpan Tech P5 - 1,8 cm
- 9 - Fibergypsum - 1,5 cm
- 10 - Gypsum board - 1,25 cm
- 11 - Wood finishing (Spruce) - 1,3 cm



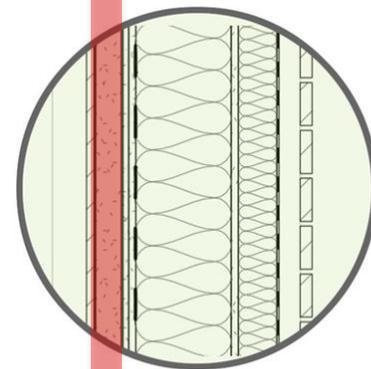
The thermal comfort temperature depends on air temperature and wall temperatures.



Vertical Section – S1



Vertical Section – S2



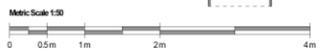
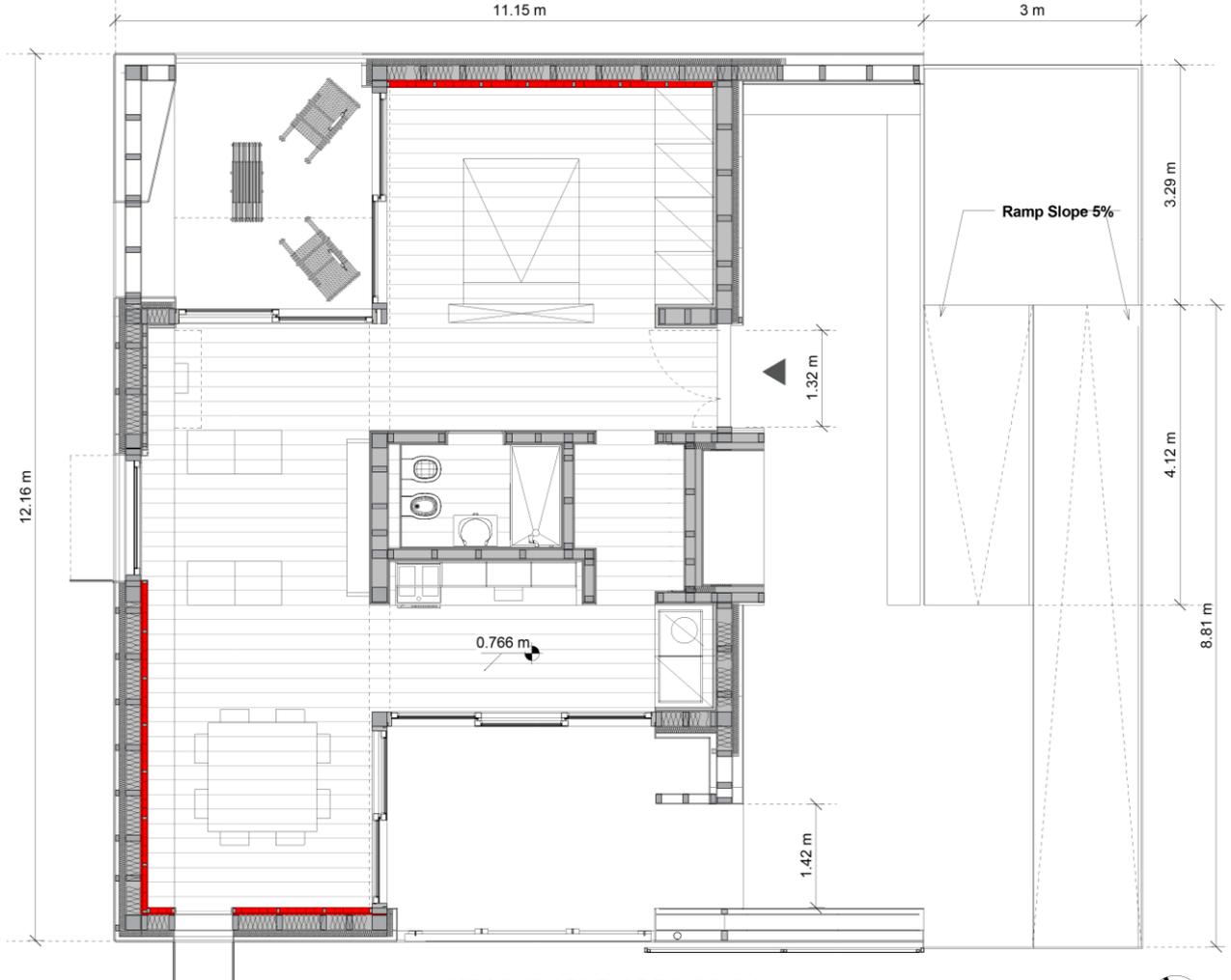
Mass PlatformFrame wall - 47,5cm

- 1 - Wood finishing (Larch) - 2,5 cm
- 2 - Ventilated air cavity + spruce timber - 5 cm
- 3 - Stamisol Color Red - 0,07 cm
- ext 4 - High density fiber wood - 8 cm

- 5 - Fibergypsum - 1,5 cm
- 6 - Low density fiber wood + spruce timber - 20 cm
- 7 - Breathable sheet - 0,075 cm
- int 8 - Fibergypsum - 1,5 cm

- 9 - Gypsum board - 1,25 cm
- 10 - Wet sand/alluminium profiles/spruce timber - 6 cm
- 11 - Wood finishing (Spruce) - 1,6 cm



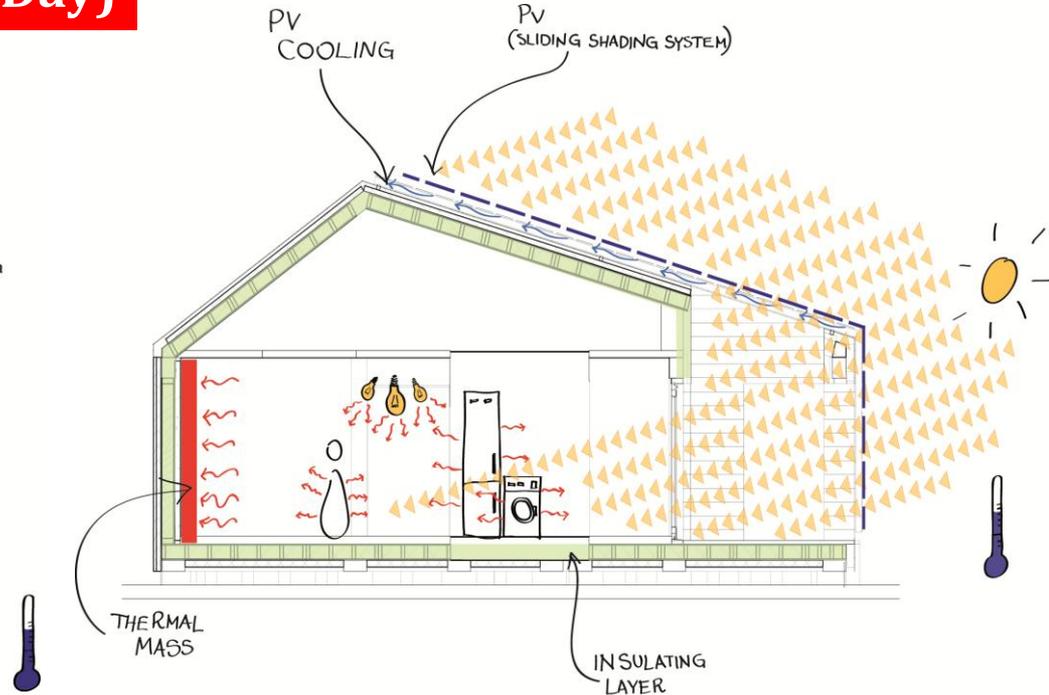
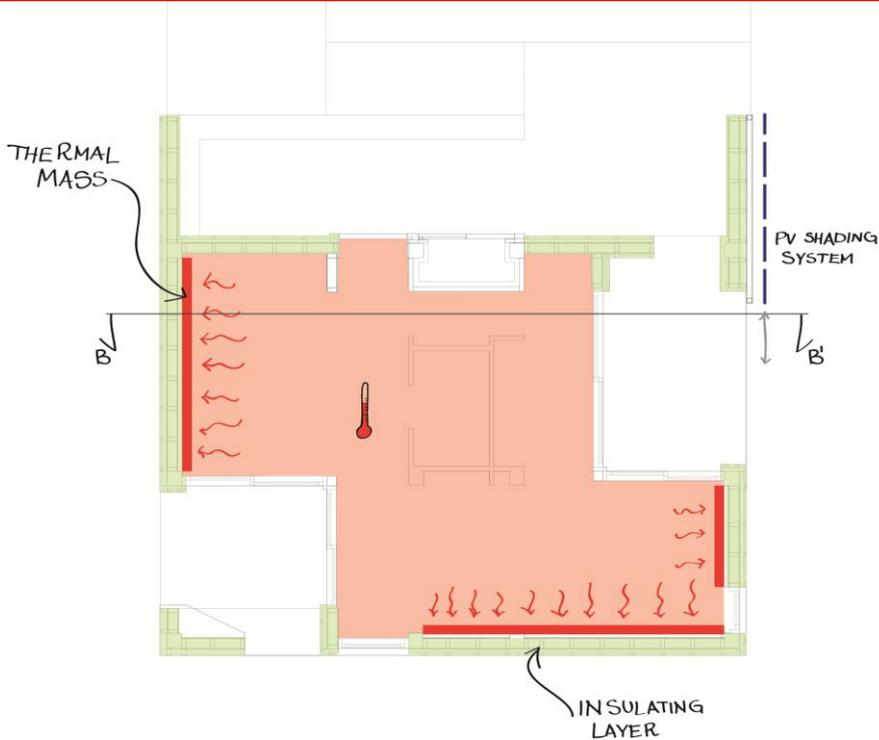


MEASURABLE AREA 62.04mq
interasse montanti 62.5cm

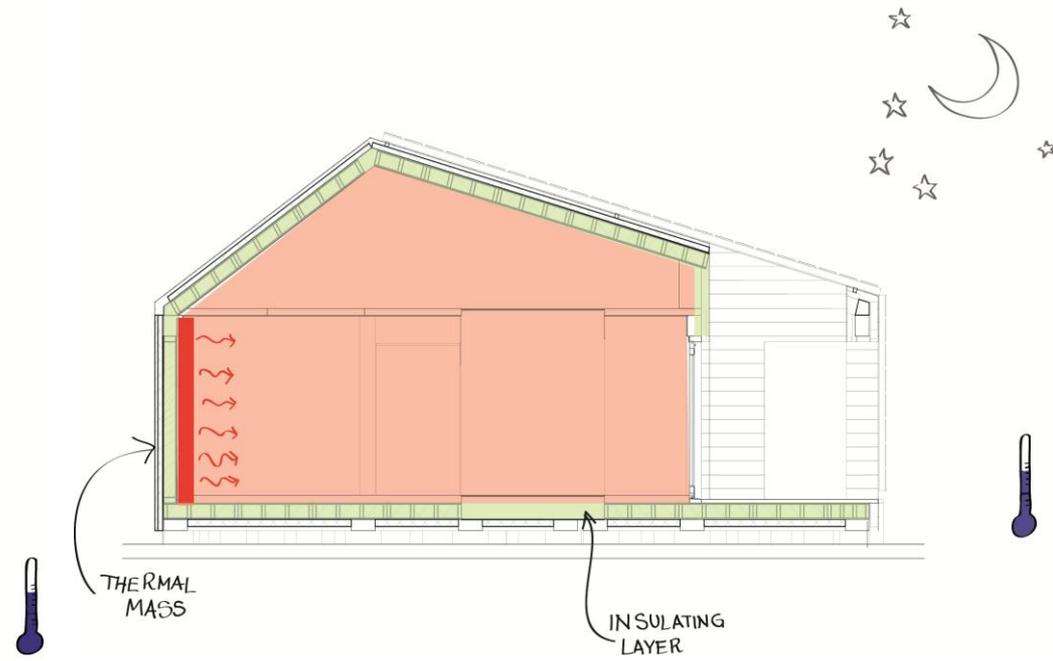
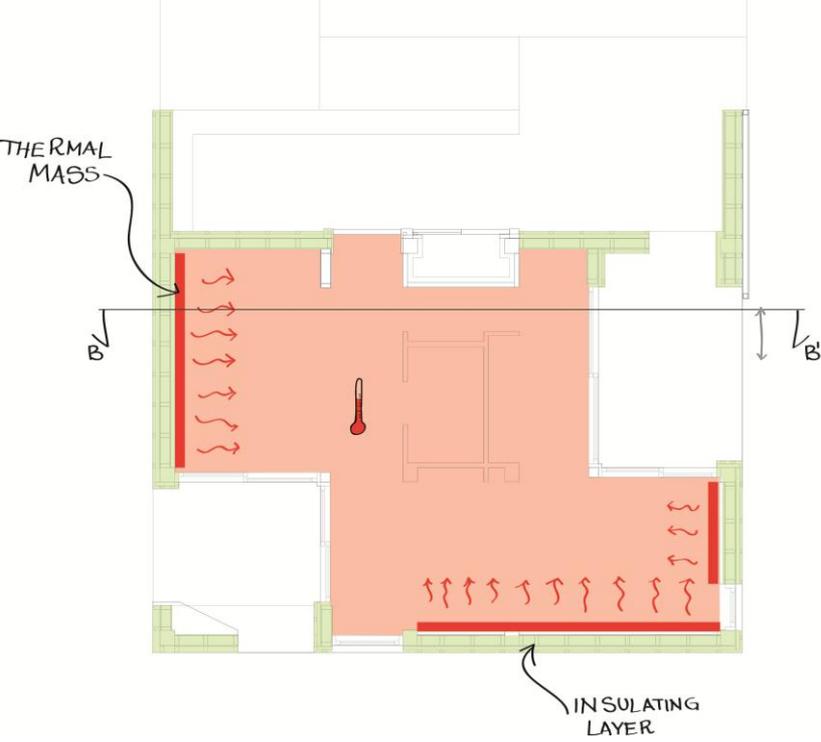
 Thermal mass wall



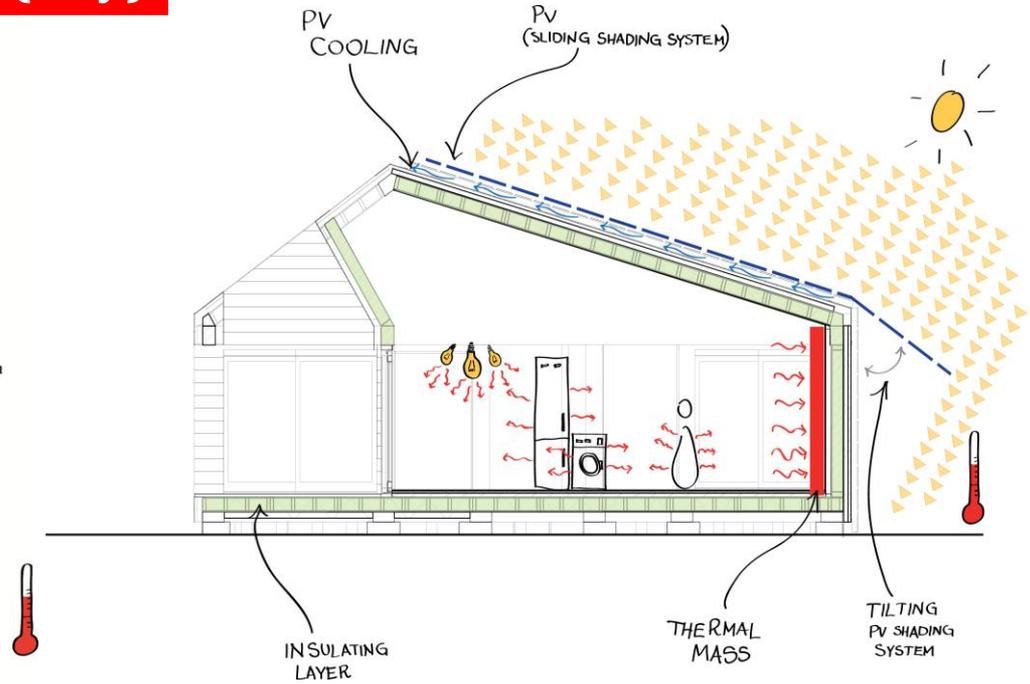
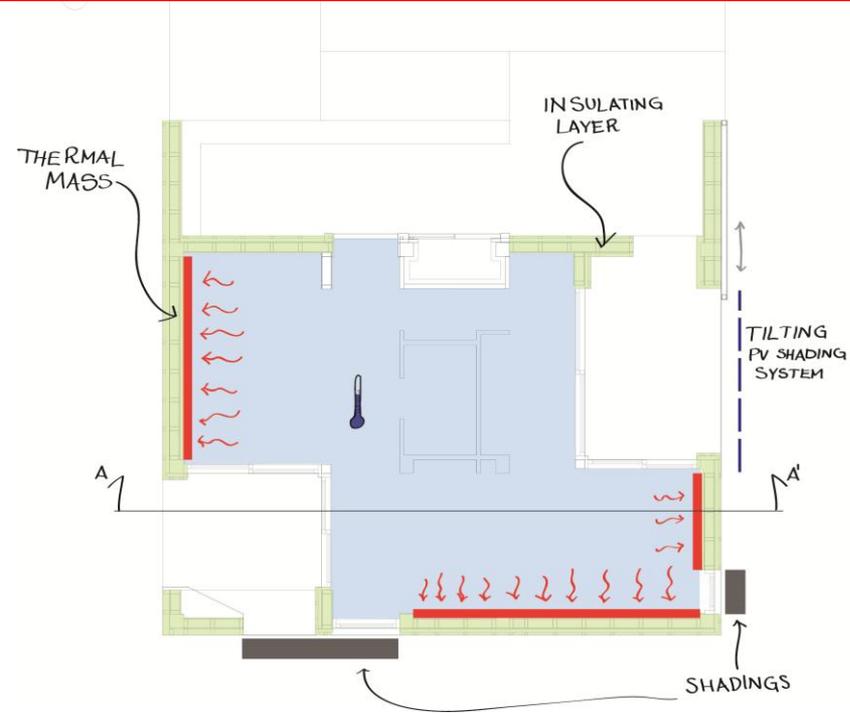
Winter behavior (Day)



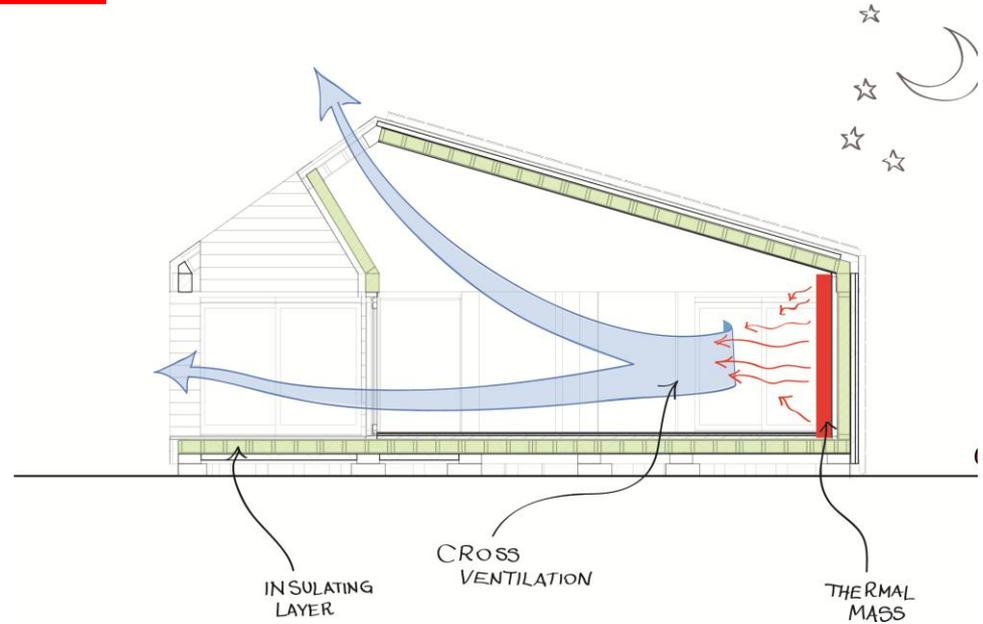
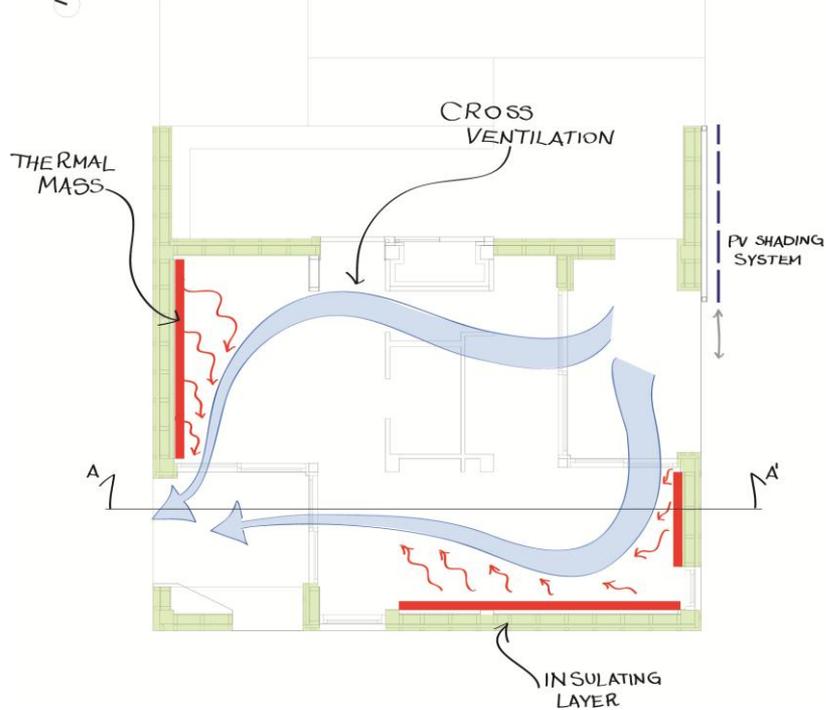
Winter behavior (Night)



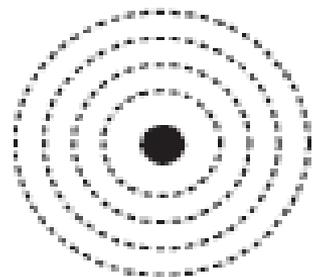
Summer behavior (Day)



Summer behavior (Night)



Sorgente



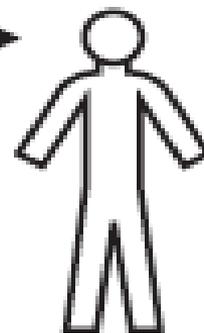
W_1



W_2



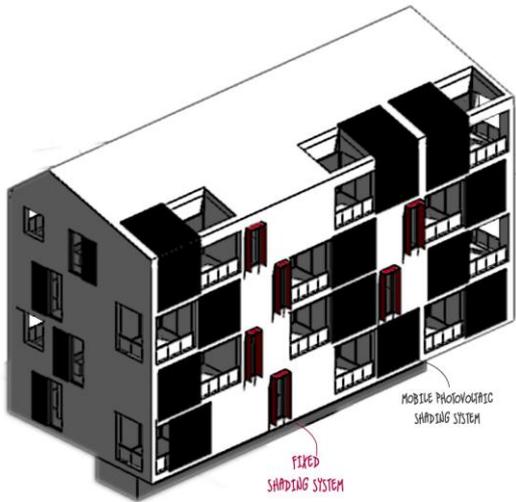
Ricettore



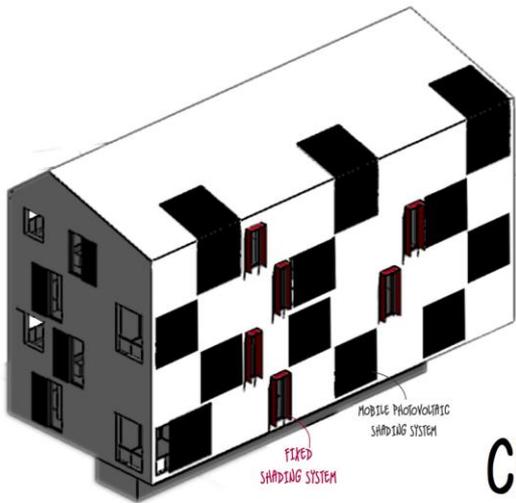


Integrare funzionalmente i sistemi di produzione di energia

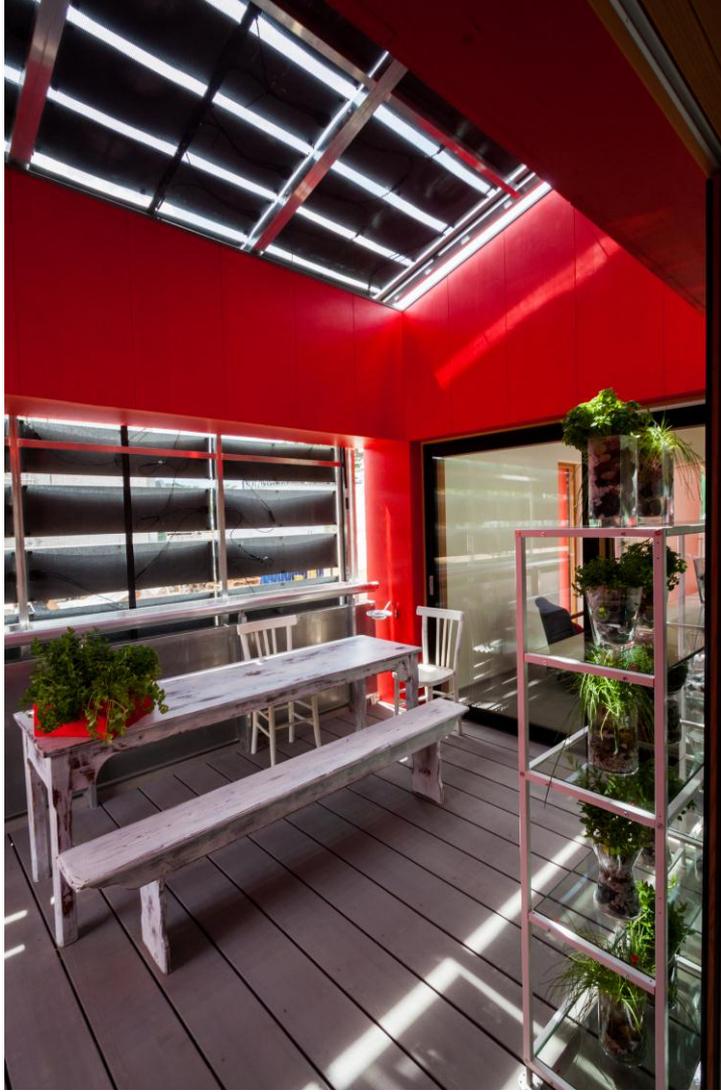




OPEN



CLOSED



98 pannelli:

98 SOLBIAN FLX SP50L

Dimensioni:

111 x 30 cm

sopessori:

2 mm

Efficienza del singolo pannello

51 W

inverter:

SCHNEIDER Connext RL5000E

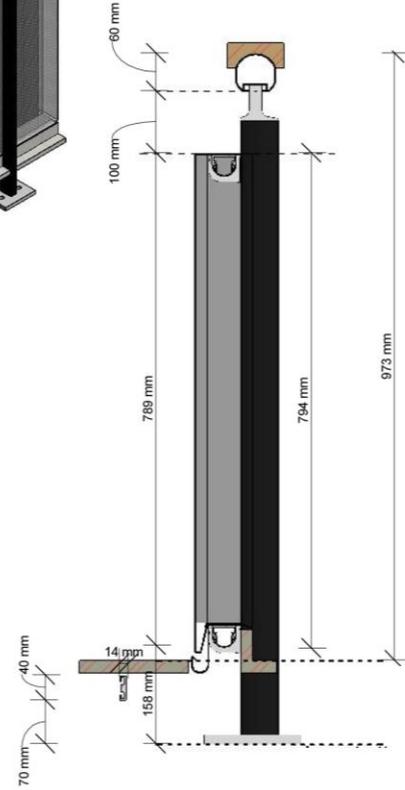
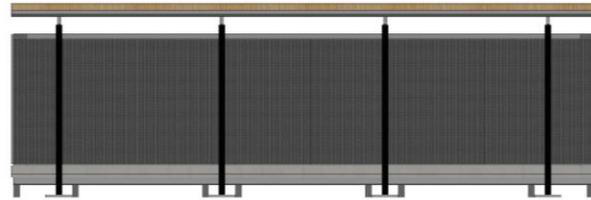
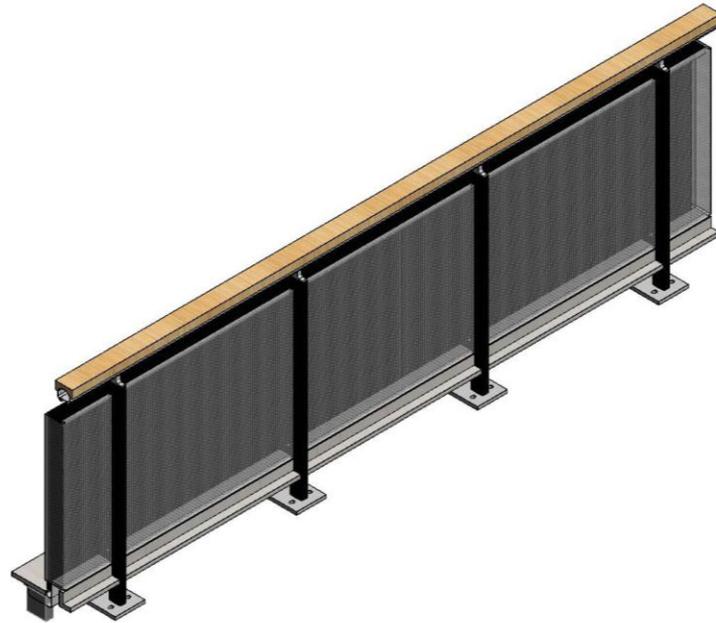
Efficienza dell'intero campo

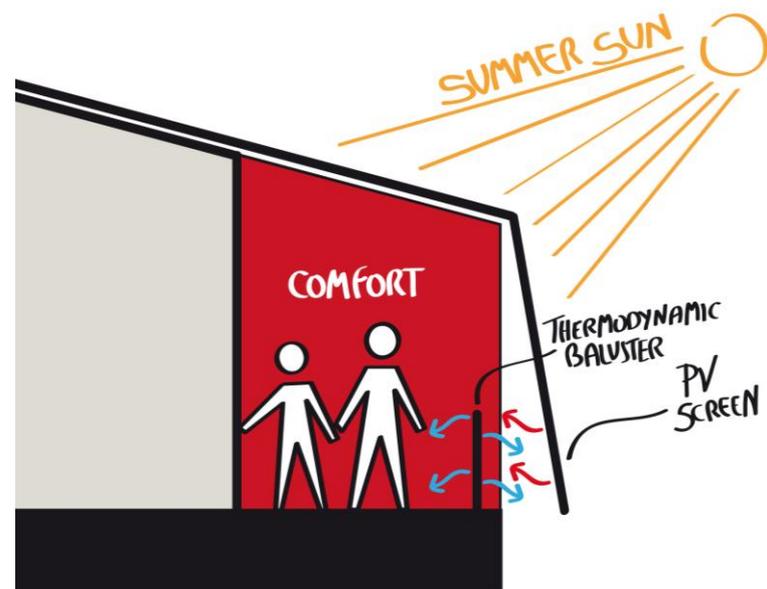
In posizione aperta

4107 kWh

In posizione chiusa

3755 kWh





I risultati





Grazie!

