

edilportale[®] TOUR 2016

in collaborazione con



Genova, 26 maggio 2016

Ricerche per la sostenibilità in architettura

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RESEARCH GROUP

[People](#) | [Research topics](#) | [Facilities](#) | [Contacts](#) | [News](#)

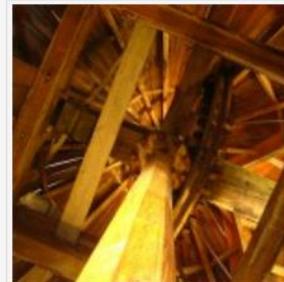
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ECOSYSTEMICS

Research group of the Department of Architectural Science – Polytechnic school of the University of Genoa



Design and energy retrofitting



Sustainable materials



Sustainable planning and
environment assessment



Vegetation in architecture and in
urban areas

Andrea Giachetta



Adriano Magliocco



Fausto Novi



Rossana Raiteri



Katia Perini



Chiara Piccardo



Maria Canepa



Research topics

Design and energy retrofitting

Professors and researchers member of the research group have been working on several projects regarding the integration of innovative technologies for building energy saving, production and management of local energy, monitoring of innovative solutions for building retrofitting.

Sustainable materials

The group works on research projects and carries out teaching activity and scientific dissemination related to low environmental impact materials and technology for sustainable architecture and in particular wood in the building sector.

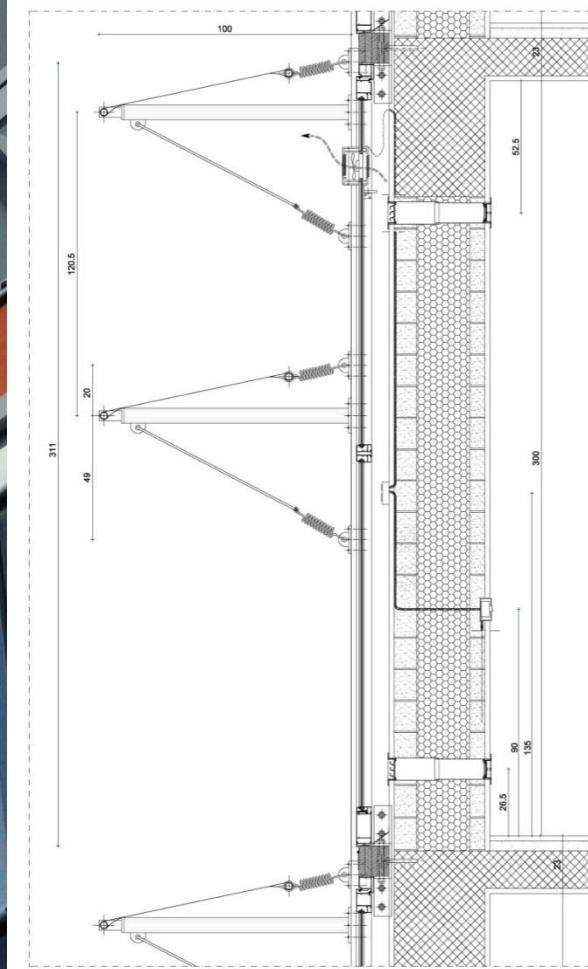
Sustainable planning and environmental assessment

The research group carries out research, teaching and scientific dissemination activities working on the integration of innovative technologies at multiple scales as well as on environmental assessments.

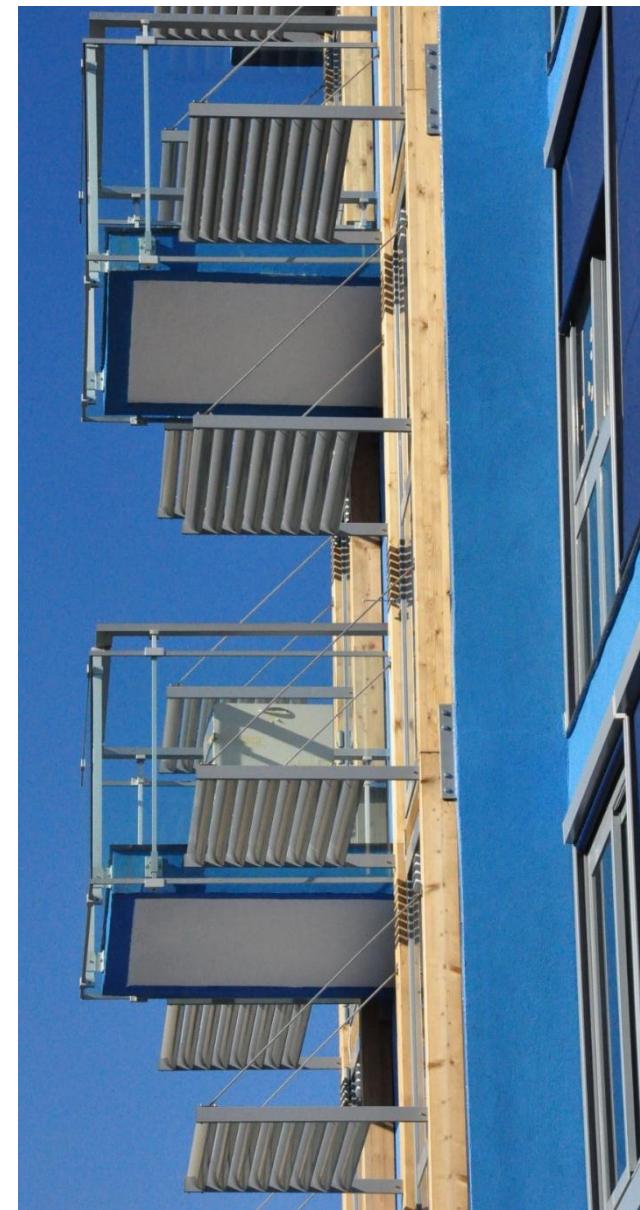
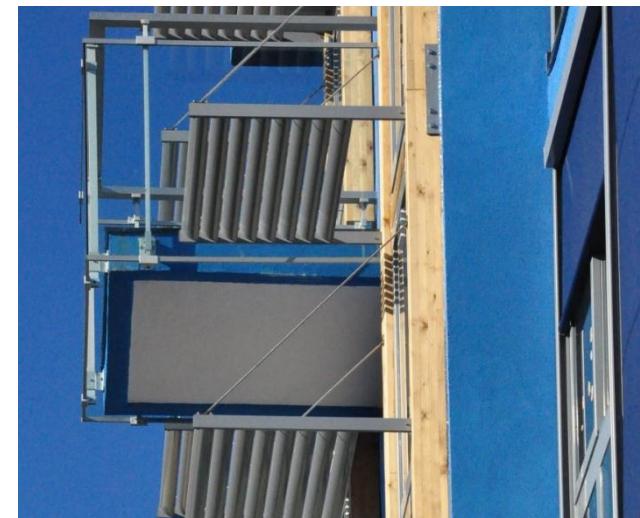
Vegetation in architecture and in urban areas

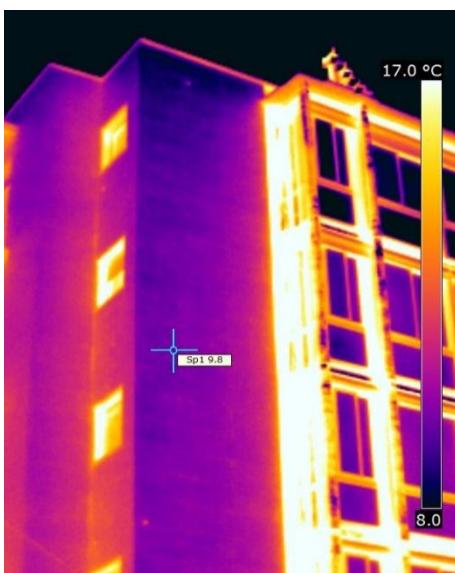
The research, teaching and dissemination activity of the group deal also with the integration of vegetation in architecture, with green façades and roofs, and in urban environment to improve ecological and environmental conditions.

Monitoraggio di sistemi solari passivi applicati al costruito (responsabili: Giachetta, Piccardo per ARTE Savona)

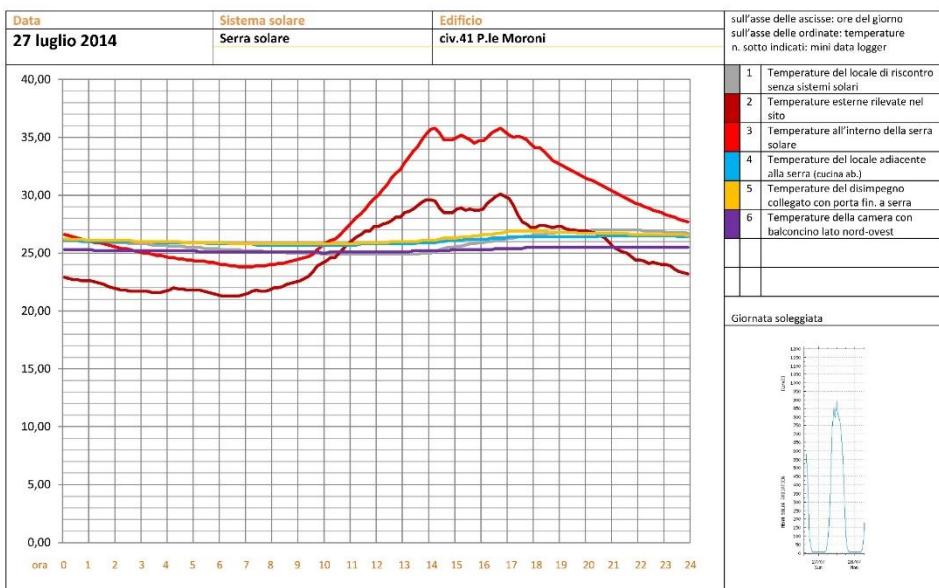
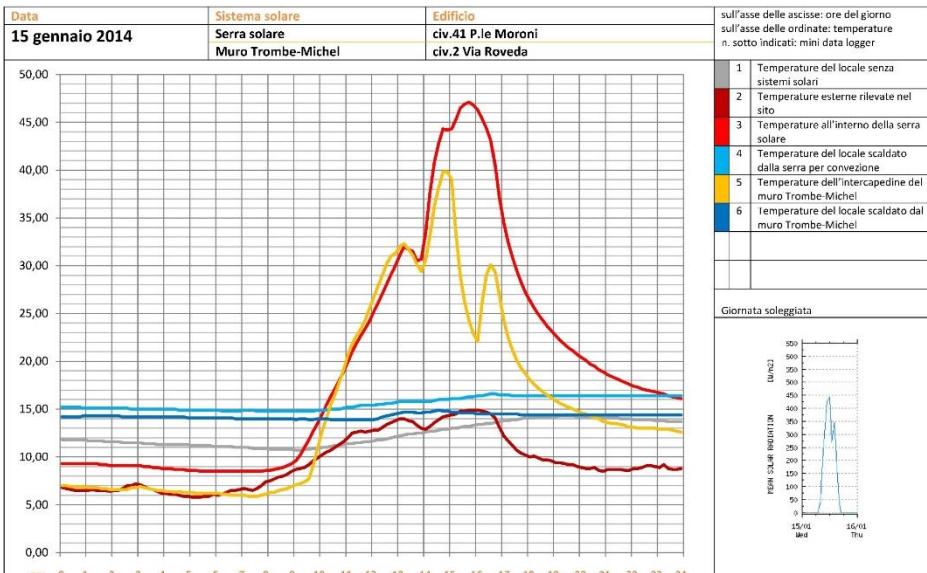


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Elaborazioni termografiche: arch. Laura Bronzin



Università degli studi di Genova GENOARCHITETTURA Dipartimento di Scienze per l'Architettura

LA THUILE VILLA NICHE

GRAFICO DI MONITORAGGIO

RISULTATO SIMULAZIONE IN ECOTECT

Progettista: Arch. Eddy Cretaz Tesisti: PALADINO Nicoletta, TRUFFELLI Chiara, VENTURINO Gio Batta

REVIT

ECOTECT

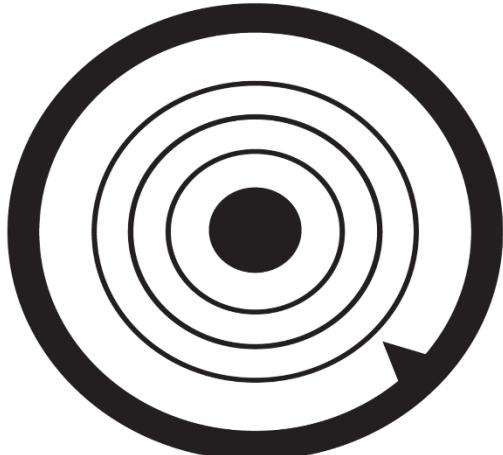
Un contatto con i ricercatori dell'IUT dell'Università francese

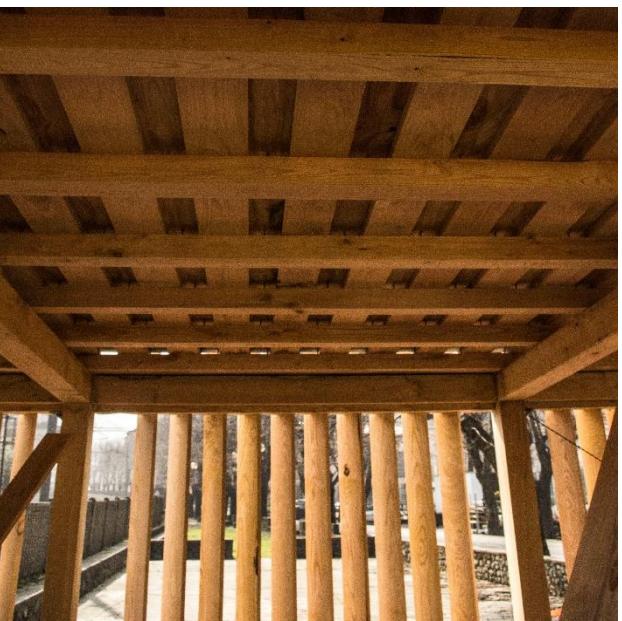


La filiera del legno in architettura: corso Tecnologo del legno (responsabili: Magliocco, Piccardo con Ciofs Liguria, Dott. Paolo Derchi e altri)

TECNOLOGO DEL LEGNO

Progetto B.E.S.T. Bosco, Energia e Sviluppo per il Territorio | Piani di Sviluppo Settoriale (PSS) | Programma Operativo Ob. "Competitività regionale e occupazione" | Fondo Sociale Europeo – Regione Liguria 2007-2013





**Un contatto con le associazioni interpro
e l'università francesi**



Il laboratorio didattico RICICLAB

(responsabili: Raiteri, Novi, Giachetta con il Municipio 7 Ponente e altri)









Allestimento mostra per Ateneo – Festival della Scienza «1512-2012 Cinquecento anni di insegnamento medico a Genova» (responsabile: Novi, con Cassinelli, Perini, Piccardo, Oddino, Robbiano Antropologi: Guerci, Consigliere, Micucci)

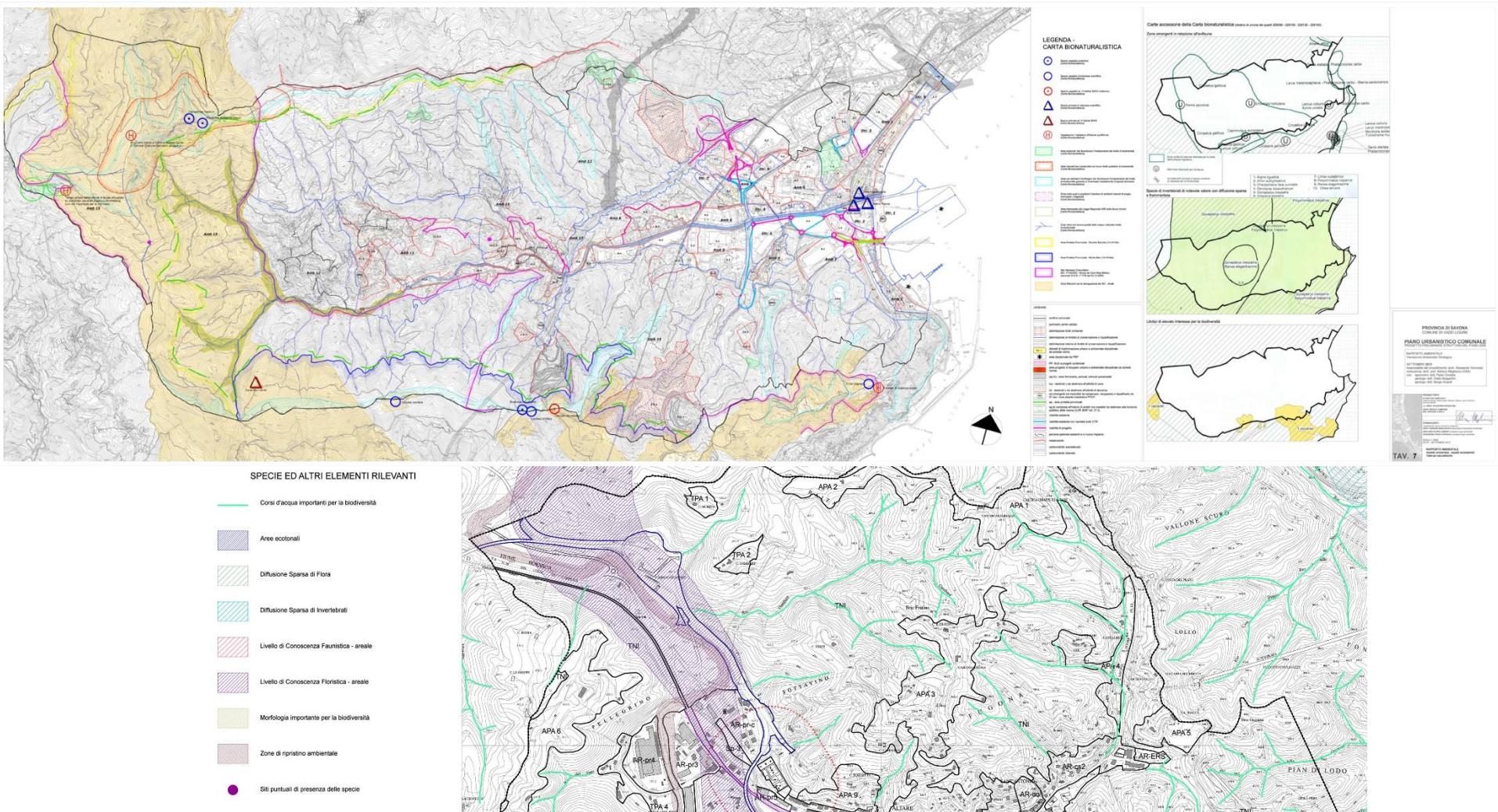






Consulenza per la VAS di Piani Urbanistici

(responsabili: Magliocco con Piccardo, Canepa per Comuni/Provincia SV)



**La facciata Verde della sede INPS di Genova Sestri
(responsabili: Magliocco, Perini con Poliflor, RSE-GSE, TU Delft e altri)**



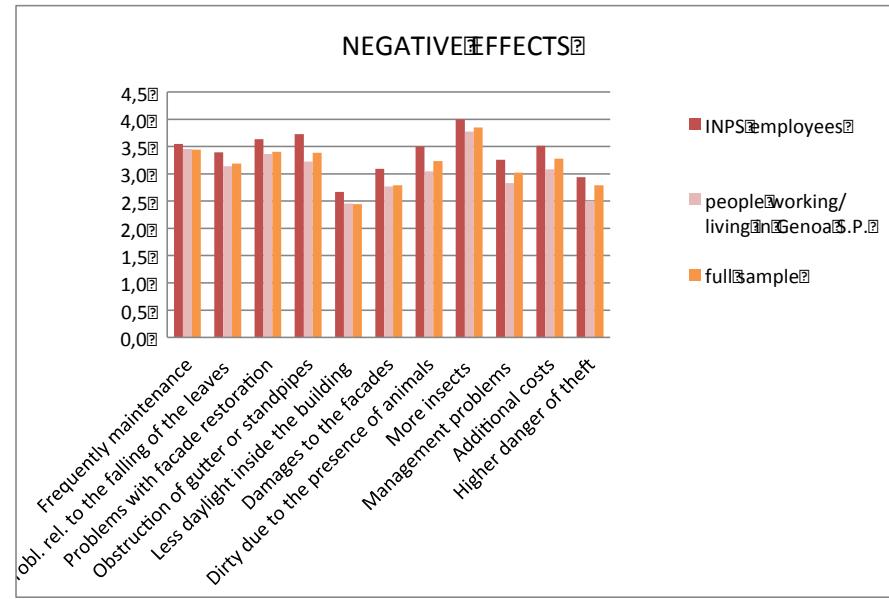
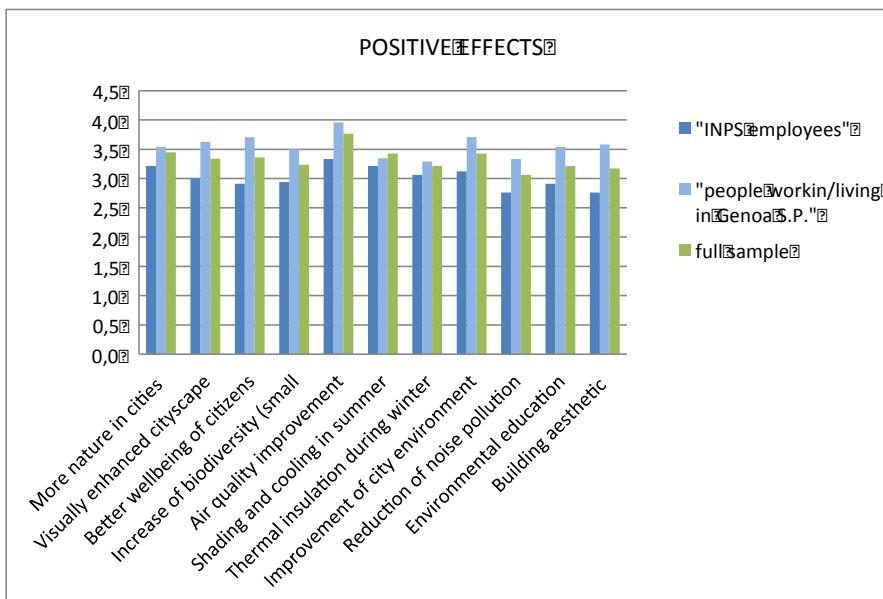


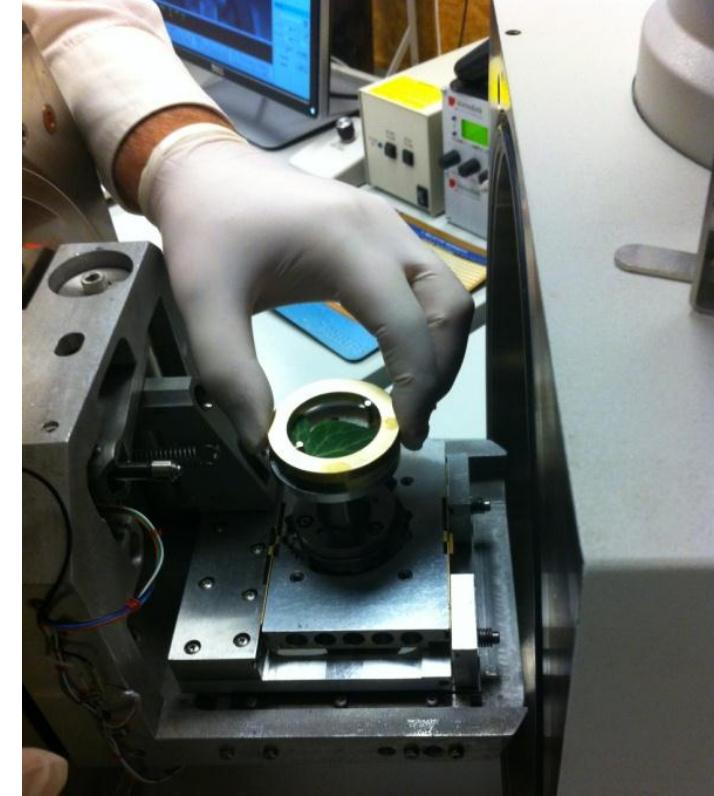


Phase 1: quantitative analysis 3 months before the installation of the INPS green facade

July 2014

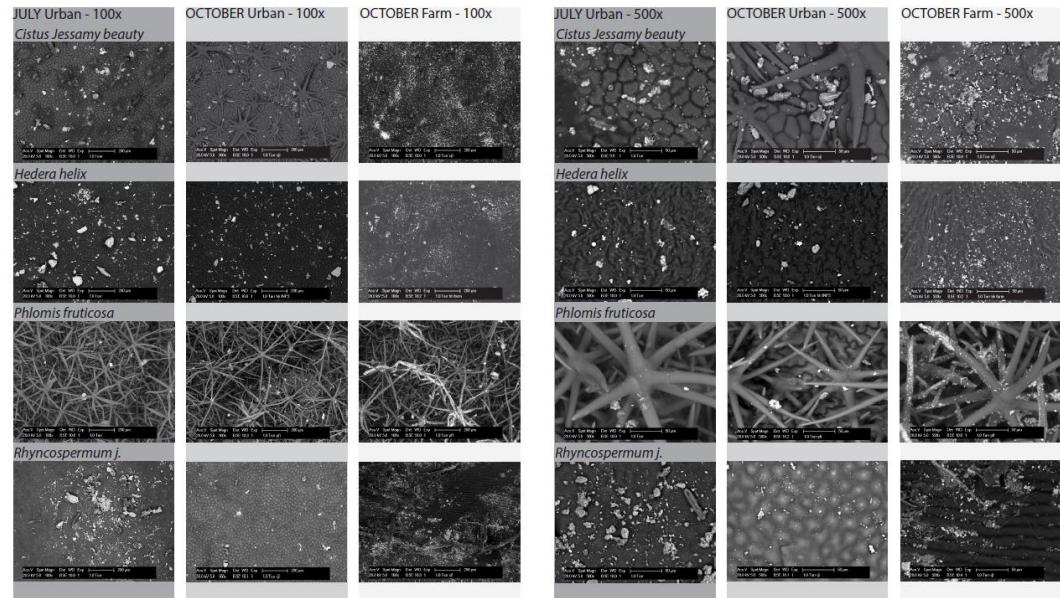
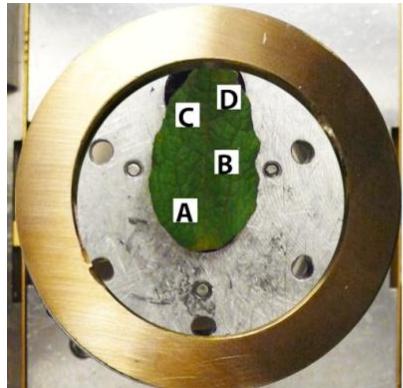
59 people interviewed





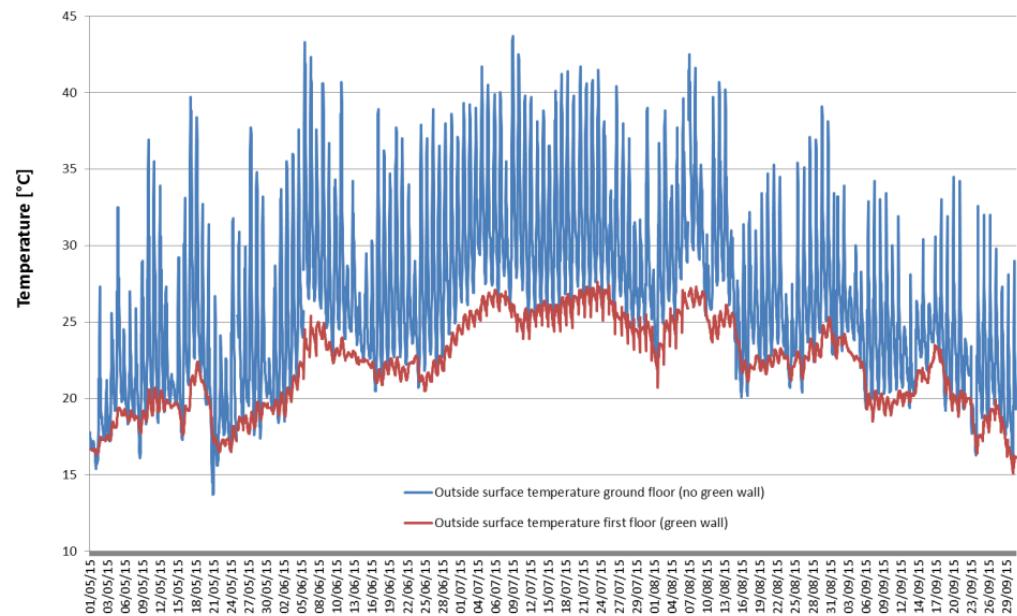
Quantification of air quality improvement

PM collecting capacities – UNIGE-DSA with TUDelft

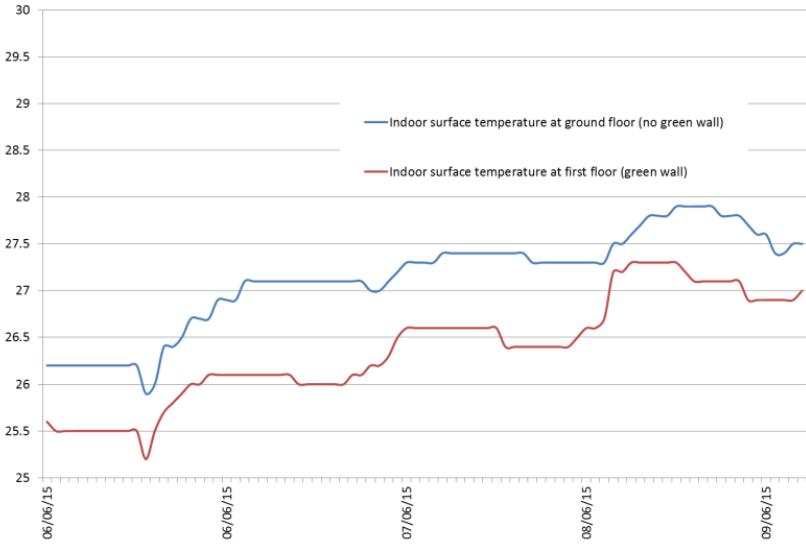


Energy performances improvement of the building envelope_ In collaboration with Ricerca sul Sistema Energetico (RSE) S.p.A. (Research on energy system)

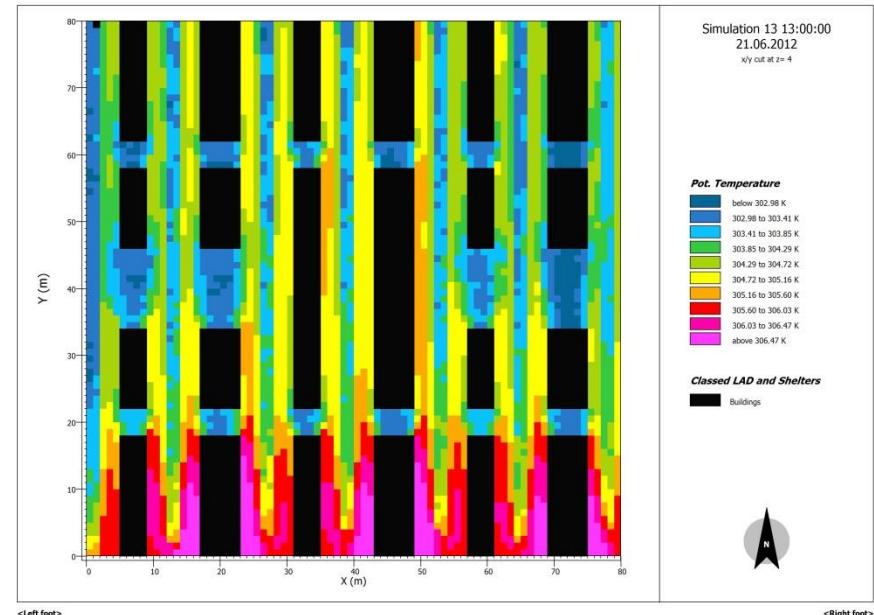
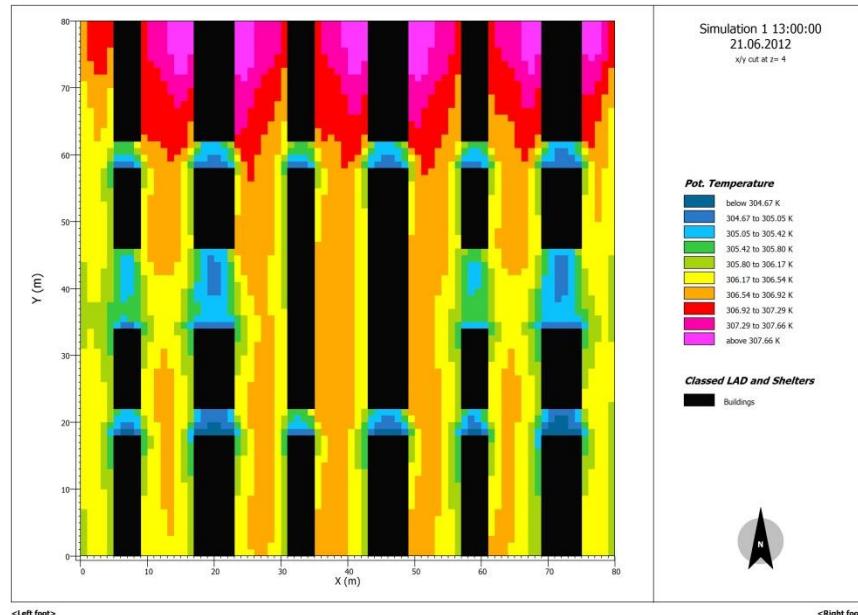
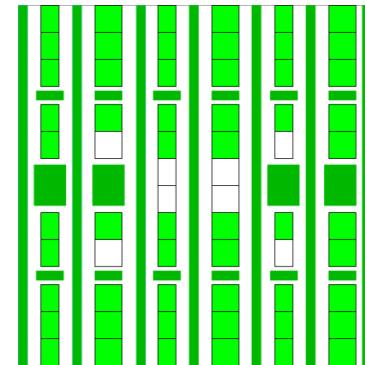
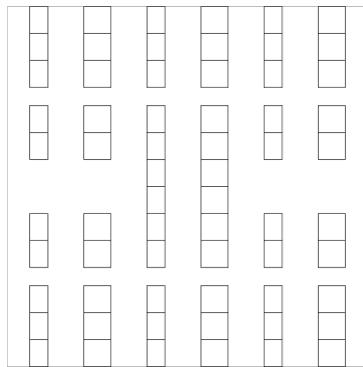
Monitoring the cooling potential of green facades



Comparison between external surface temperatures in presence and in absence of the vertical greening system



Comparison between indoor surface temperatures in presence and in absence of the vertical greening system



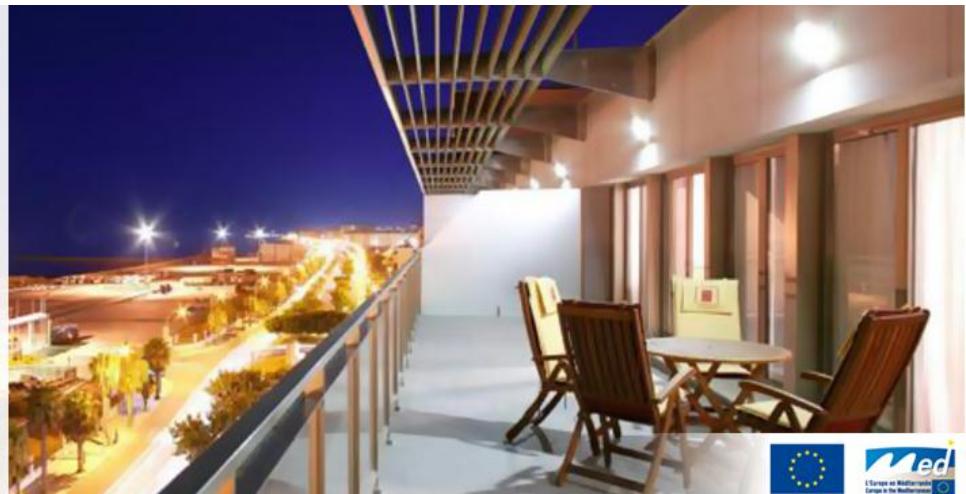
VEGETATION ON THE GROUND: ENVI-MET SIMULATIONS

I progetti di ricerca europei e transfrontalieri



SCORE Sustainable Construction in Rural and Fragile Areas for Energy efficiency

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- Case Studies
- Matrix
- Events
- Regulations
- Newsletter & Report
- Press
- Research Results



Il progetto Me.R – Mediterraneo in Rete, Marittimo It-Fr

(responsabili: Giachetta con Piccardo, con CMA Corse du Sud, Associazione Industriali Nord Sardegna, Lucose, Team)



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RESEARCH GROUP

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andrea.giachetta@arch.unige.it