



PhD Arch. Francesco SIMONI

+39 338 1320573

phdarch@francescosimoni.eu



**CURRICULUM VITAE**  
**SCIENTIFIC AND PROFESSIONAL PORTFOLIO - PROJECTS**  
**Francesco SIMONI**

**PhD Arch. Francesco SIMONI**

Address:

137/a, Via Penna Alta  
52028 Terranuova Bracciolini - Arezzo  
Italy

Tel.: 055 9705235

Mobile: 338 1320573

E-mail: [phdarch@francescosimoni.eu](mailto:phdarch@francescosimoni.eu)

Date of birth: 21st Jan. 1973

Nationality: Italian - EU



I **graduated cum laude** from the Faculty of Architecture of the University of Florence with a thesis on an **Auditorium - City of Music** to be placed in a **Science park for the Environment**.

During my years at University I did various jobs and collaborated with **Studio PARIGI**.

I took part in the **Erasmus** exchange program and attended the **École Nationale Supérieure d'Architecture de Montpellier**, where I sat some exams and prepared for others which I took in Florence.

I have travelled extensively throughout Europe and other continents and I have lived in Florence, Montpellier and Lima.

I can speak, read and write in **English**, which I studied during and after university in Florence and London.

I can speak, read and write fluently in **French** and **Spanish**.

After finishing university I passed the state exam which allowed me to **officially practise as an Architect** and I am currently a member of the National Association of Italian Architects.

I also began to collaborate with the **Centro Interuniversitario di Ricerca ABITA** - Architettura Bioecologica e Innovazione Tecnologica per l'Ambiente - ABITA Inter-university Research Centre for Bio-ecological Architecture and Technological Innovation for the Environment - with **MSA Architects Studio** - Marco SALA Associates - and with the Faculty of Architecture of the University of Florence, where I carried out research and professional activities and was an **assistant at the Environmental Planning Course**.

I then took part in the research on the project **Abitare Mediterraneo** - Mediterranean Living, promoted by the Region of Tuscany and the Department of Technology of Architecture and Design "Pierluigi Spadolini" of the University of Florence.

I got my Research Doctorate - **PhD in Technology of Architecture and Design** at the "Spadolini" department.

My Doctoral thesis was on the **costs of constructing residential buildings** - Social housing in the field of Management Engineering. The result of the thesis was an instrument and procedure for the control and optimization of building costs.

During my doctorate studies, I was also a **Tutor for the ABITA II Level European Master's Course** and was part of the editor's staff of the publication "Bollettino della Ricerca in Tecnologia dell'Architettura e Design" - **Technology of Architecture and Design Research Journal**.

After my Doctorate I collaborated with the **ABITA Perú Asociación Civil** and **Abitar Green Business**. Both these institutions are based in the South American country. In Perú I edited a **Protocol for Energy and Environmental Certification**, for Peruvian institutions, and I held a training course for local experts and professors at the Universidad Ricardo Palma. I was also an economics-financial consultant for the project **Torre Verde Lima**, new headquarters of the "Caja Metropolitana" bank of the Municipality of the capital Lima.

My publications include: 54 articles for the Architect's Almanac, edited by the **Renzo Piano Foundation**, and a full paper, selected according to the double blind review procedure, published in the "Atti della Conferenza annuale Osdotta"- Osservatorio Nazionale dei Dottorati di Ricercari in Tecnologia dell' Architettura - **Osdotta Annual Conference Acts** - National Observatory of Research Doctorates in Technology of Architecture.

The **fields** in which I have developed most experience and expertise are Bio-climatic Architecture, Sustainable Planning and Social Housing, Technologies for the Eco-compatible use of natural resources, innovative components and systems from the point of view of Management Engineering - economic control with the aim of typological and technological innovation of process and product in the building.

In this book I present my professional and formative experiences.

## Presentation



|                                |                                                                                                                                                                                                                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CURRICULUM VITAE</b>        | 01. Professional experience<br>02. Training<br>03. Languages   other skills   experiences   interests                                                                                                                                                                                |
| <b>FIELDS</b>                  | 01. Research   Teaching   Professional   Projects<br>02. Conferences   Congresses   Seminars   Workshops                                                                                                                                                                             |
| <b>QUALIFICATIONS</b>          | 01. Research Doctorate - PhD<br>02. Degree 110/110 Cum Laude<br>03. Professional Qualification<br>04. Methodology of Technological Research<br>05. English Higher Intermediate                                                                                                       |
| <b>PUBLICATIONS</b>            | 01. Renzo PIANO   Architect's Almanac<br>02. OSDOTTA Conference Acts 2012                                                                                                                                                                                                            |
| <b>THESIS</b>                  | 01. Research Doctorate - PhD<br>02. Degree                                                                                                                                                                                                                                           |
| <b>RESEARCH ACTIVITIES</b>     | 01. Abitare Mediterraneo - Mediterranean Living<br>02. Eco-Science-park for Florence<br>03. Technology of Architecture and Design Journal<br>04. Abitare i Cambiamenti - Living Changes<br>05. Rattaches<br>06. Ville et Territoire<br>07. Heritage: knowing, conserving, recovering |
| <b>PROFESSIONAL ACTIVITIES</b> | 01. Certification Protocol for Perú<br>02. Torre Verde Lima<br>03. Social Housing<br>04. ABITA Master's Course<br>05. Brunelleschi   Humanistic Library of the University of Florence                                                                                                |



PORTFOLIO PROJECTS.....

## general INDEX 1/2

88 CURRICULUM VITAE

FIELDS

QUALIFICATIONS

PUBLICATIONS

THESIS

RESEARCH

PROFESSIONAL

PROJECTS

## PORTFOLIO PROJECTS

### URBAN

- 01. En el Centro del Mundo - At the Centre of the World
- 02. Sustainable Transports

### RESIDENTIAL

- 03. Abitare "all'italiana" - Living the Italian way
- 04. 3 sites, 3 buildings/1 project, 1 place
- 05. Buen Retiro
- 06. Mediterranean Social Housing
- 07. El escondido de Huampaní
- 08. In the Equatorial forest
- 09. Residential/Urban
- 10. The site/the project

### EDUCATION

- 11. Company nursery school
- 12. Retrofit for school buildings

### RESEARCH - INDUSTRY

- 13. Test Cell: from Thermodynamics to the dynamic project
- 14. Sustainable Start-up
- 15. Business Incubators

### CULTURE

- 16. Auditorium-City of Music: project
- 17. Auditorium-City of Music: studies
- 18. St. Dominic and St. Francis Monastery
- 19. Links for scientific dissemination

### COMMERCIAL

- 20. Eco-mall
- 21. Eco-resort in the Amazon

### MULTIFUNCTIONAL

- 22. Polimoda Campus
- 23. Waterfront



**Professional Experience REFERENCES: Addresses | Telephone numbers | Emails | web**

MSA - Marco SALA Associates - Architecture Practice

Via Pippo Spano 15, 50129 Florence, Italy | Tel: +39 055 5048394 | [info@msassociati.it](mailto:info@msassociati.it) | [msaassociati.it](http://msaassociati.it)

ABITAR Green Business

Grimaldo del Solar 318, Miraflores 17, Lima, Perú | Director: PhD Arch. Fernando RECALDE LEON, Via Pippo Spano 15, 50129 Florence, Italy

Tel: +39 055 5048394 | [fernando.recaldeleon@unifi.it](mailto:fernando.recaldeleon@unifi.it), [feridea@hotmail.com](mailto:feridea@hotmail.com)

ABITA PERÚ Asociación Civil

Sargento Lores 110, Malecon Tarapaca, Iquitos, Perú | President: PhD Arch. Fernando RECALDE LEON, Via Pippo Spano 15, 50129 Florence, Italy

Tel: +39 055 5048394 | [fernando.recaldeleon@unifi.it](mailto:fernando.recaldeleon@unifi.it), [feridea@hotmail.com](mailto:feridea@hotmail.com)

APSA - Doctorate School in Architecture, Planning and History of Art - University of Florence

Department of Architecture - DIDA, Via san Niccolò 89/a - 95, 50125, Florence, Italy | Tel: +39 055 2755300 | [dida.unifi.it](mailto:dida.unifi.it)

Scientific Supervisor of the TAeD Research Journal: Prof. Francesca TOSI, Via Sandro Pertini 93, 50041 Calenzano, Florence, Italy | Tel: +39 055 2757079

[francesca.tosi@unifi.it](mailto:francesca.tosi@unifi.it)

OSDOTTA - National Observatory of Research Doctorates in Technology of Architecture

Via S. Niccolò 89/a - 95, 50125 Florence, Italy | [osdotta.unifi.it](http://osdotta.unifi.it)

2012 Annual Conference held at the School of Architecture and Design "Eduardo Vittoria" - University of Camerino, Annunziata Monastery, Viale della

Rimembranza, 63100 Ascoli Piceno, Italy | Tel: +39 0737 4042/00-74 | [d7.unicam.it/sad/osdotta](http://d7.unicam.it/sad/osdotta)

2012 Edition Secretariat: Valeria BIANCHINI, Patrizia SANTORI, Monica VASTA | Tel: +39 0737 404266 | [segretaria.osdotta@unicam.it](mailto:segretaria.osdotta@unicam.it)

RENZO PIANO FOUNDATION

Via Rubens 30/a, 16158 Genoa, Italy | Tel: + 39 010 691378 | [contact@fondazionerenzopiano.org](mailto:contact@fondazionerenzopiano.org) | [fondazionerenzopiano.org](http://fondazionerenzopiano.org)

Architect's Almanac: PROCTOR S.r.l., Via Giovanni Livraghi 1, 40121 Bologna, Italy | Tel: +39 051 19983211 | [info@proctoredizioni.it](mailto:info@proctoredizioni.it) | [almanaccodellarchiteto.it](http://almanaccodellarchiteto.it)

FACULTY OF ARCHITECTURE - University of Florence

School of Architecture

Via della Mattonaia 14, 50121 Florence, Italy | Tel: +39 055 2755/410 - 300 | [scuola@architettura.unifi.it](mailto:scuola@architettura.unifi.it) | [architettura.unifi.it](http://architettura.unifi.it)

Environmental Planning Course Supervisor: Prof. Marco SALA, Via San Niccolò 89/a - 95, 50125 Florence, Italy | Tel: +39 055 2755324 | [marco.sala@unifi.it](mailto:marco.sala@unifi.it)

REGION OF TUSCANY - EU funds for Regional Development

[regione.toscana.it/creo](http://regione.toscana.it/creo), [regione.toscana.it/-/abitare-mediterraneo](http://regione.toscana.it/-/abitare-mediterraneo)

TAeD - Department of Technology of Architecture and Design "Pier Luigi Spadolini" - University of Florence

Via San Niccolò 89/a - 95, 50125 Florence, Italy | Tel: +39 055 2755300 | [dida.unifi.it](mailto:dida.unifi.it)

ABITARE MEDITERRANEO - MEDITERRANEAN LIVING

Tel: +39 055 2055561 | [abitaremediterraneo@taed.unifi.it](mailto:abitaremediterraneo@taed.unifi.it) | [abitaremediterraneo.eu](http://abitaremediterraneo.eu)

ABITA Inter-university Research Centre and ABITA MASTER'S COURSE - Bio-ecological Architecture and Technological Innovation for the Environment

Via San Niccolò 89/a - 95, 50125 Florence, Italy | Tel: +39 055 27553/22-28-32-34 | [centro@abita.unifi.it](mailto:centro@abita.unifi.it) | [centroabita.unifi.it](http://centroabita.unifi.it)

STUDIO PARIGI - Architecture Practice

Via Ettore Crafa 9, 50133 Florence, Italy | [info@andreaparigi.it](mailto:info@andreaparigi.it) | [andreaparigi.it](http://andreaparigi.it)

|                                |                                                                                                                                                                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| July 2013 - PRESENT            | <b>MSA - Marco SALA Associates - Architecture Practice</b><br>for AREZZO CASA s.p.a.<br>RESIDENTIAL PROJECTS                                                                                                                                       |
| May 2013 - July 2013           | <b>ABITAR Green Business</b><br>for CAJA METROPOLITANA - Municipalidad Metropolitana de Lima<br>TORRE VERDE LIMA - New Headquarters of the Metropolitan Bank of the Municipality of Lima                                                           |
| May 2010 - February 2013       | <b>APSA - Doctorate School in Architecture, Planning and History of Art - University of Florence</b><br>TAeD RESEARCH JOURNAL - Technology of Architecture and Design                                                                              |
| September 2012                 | <b>OSDOTTA - National Observatory of Research Doctorates in Technology of Architecture</b><br>FULL PAPER FOR PUBLICATION IN THE 2012 ANNUAL CONFERENCE ACTS                                                                                        |
| October 2010 - July 2012       | <b>RENZO PIANO FOUNDATION</b><br>THE ARCHITECT'S ALMANAC - Building Architecture<br>54 ARTICLES                                                                                                                                                    |
| January 2009 - July 2012       | <b>FACULTY OF ARCHITECTURE - University of Florence</b><br>ASSISTANT FOR THE "ENVIRONMENTAL PLANNING" COURSE                                                                                                                                       |
| September 2009 - December 2011 | <b>REGION OF TUSCANY - EU funds for Regional Development</b><br><b>TAeD- Department of Technology of Architecture and Design 'Pier Luigi Spadolini' - University of Florence</b><br>Research Project "ABITARE MEDITERRANEO" - MEDITERRANEAN LIVING |
| October 2010 - July 2011       | <b>ABITA MASTER'S COURSE - Bio-ecological Architecture and Technological Innovation for the Environment</b><br>TUTOR FOR THE II LEVEL EUROPEAN MASTER'S COURSE                                                                                     |
| October 2008 - December 2009   | <b>ABITA - Inter-university Centre for Bio-Ecological Architecture and Technological Innovation for the Environment</b><br>SCIENCE PARKS FOR THE ENVIRONMENT - AN ECO-PARK FOR FLORENCE                                                            |
| October 2008 - December 2009   | <b>MSA - Marco SALA Associates - Architecture Practice</b><br>for AREZZO CASA s.p.a.<br>SOCIAL HOUSING                                                                                                                                             |
| January 2005 - November 2005   | <b>STUDIO PARIGI - Architecture Practice</b><br>UNIVERSITY OF FLORENCE HUMANISTIC LIBRARY - Contest - Director: Arch. Andrea PARIGI                                                                                                                |

## Professional Experience

#### Training REFERENCES: Addresses | Telephone numbers | Emails | web

APSA - Doctorate School in Architecture, Planning and History of Art - University of Florence | DIDA - Department of Architecture, Via della Mattonaia 14, 50121 Florence, Italy | [dida.unifi.it](mailto:dida.unifi.it) | Research Doctorate in Technology of Architecture and Design | [osdotta.unifi.it](mailto:osdotta.unifi.it)  
Doctorate Coordinator: Prof. Antonio LAURIA, Via S. Niccolò 89/a - 95, 50125 Florence, Italy | Tel: +39 055 2755320 | [antonio.lauria@unifi.it](mailto:antonio.lauria@unifi.it)  
Doctorate Administration: Ms Lucia GALANTINI, Via della Mattonaia 14, 50121 Florence, Italy | Tel: +39 055 2755434 | [lucia.galantini@unifi.it](mailto:lucia.galantini@unifi.it)  
Dean: Prof. Andrea CANTINI, Via Bolognese 52, 50139 Florence, Italy | Tel: +39 055 2756030 | [andrea.cantini@unifi.it](mailto:andrea.cantini@unifi.it)  
Qualification released by: Research and International Relations Office, Piazza S. Marco 4, 50121 Florence, Italy | Tel: +39 055 2757443 | [ri@adm.unifi.it](mailto:ri@adm.unifi.it)

BEHNISCH Architekten - Planning Sustainability Workshop promoted by AND with the Municipality of Scandicci - Florence, Italy  
AND MAGAZINE- DNA Cultural Association, Via degli Artisti 18r, 50132 Florence, Italy | Tel: +39 055 582401 | [info@progettosapere.eu](mailto:info@progettosapere.eu)  
MUNICIPALITY OF SCANDICCI, Piazzale della Resistenza 1, 50018 Scandicci - Florence, Italy | Tel: +39 055 7591 | [urp@comune.scandicci.fi.it](mailto:urp@comune.scandicci.fi.it)  
[comune.scandicci.fi.it](http://comune.scandicci.fi.it)

KAPLAN INTERNATIONAL COLLEGE - London, Leicester Square  
3 - 5 Charing Cross Road, London, WC2H 0HA, United Kingdom | Tel: +44 20 7045 5000 | [kaplaninternational.com](http://kaplaninternational.com)

POLITECNICO DI TORINO - Turin Institute of Technology - Doctorate in Technological Innovation for the Built Environment  
Doctorate School, Corso Duca degli Abruzzi 24, 10129 Turin, Italy | Tel: +39 011 0906095 | [scudo@polito.it](mailto:scudo@polito.it) | [dottorato.polito.it](mailto:dottorato.polito.it)  
Manager for Methodology of Technological Research Course - March 2010: Prof. Mario GROSSO, Tel: +39 011 0904376 | [mario.grosso@polito.it](mailto:mario.grosso@polito.it)

NATIONAL ASSOCIATION OF ITALIAN ARCHITECTS  
National Council of Italian Architects, Via Santa Maria dell'Anima 10, 00186 Rome, Italy | [awn.it](http://awn.it)  
National Association of Architects - Arezzo, Via Vittorio Veneto 5, 52100 Arezzo, Italy | Tel: +39 0575 350022 | [architettiarezzo@archiworld.it](mailto:architettiarezzo@archiworld.it) | [architettiarezzo.it](http://architettiarezzo.it)

LONDON SCHOOL  
Viale dei Mille 98, 50131 Florence, Italy | Tel: +39 055 5/70029 - 85860 | [londonschool.fi.it](http://londonschool.fi.it)

FACULTY OF ARCHITECTURE - University of Florence  
School of Architecture, Via della Mattonaia 14, 50121 Florence, Italy | Tel: +39 055 2755/410-300 | [scuola@architettura.unifi.it](mailto:scuola@architettura.unifi.it) | [architettura.unifi.it](http://architettura.unifi.it)  
Central office, Via Gino Capponi 9, 50121 Florence, Italy | [archit@adm.unifi.it](mailto:archit@adm.unifi.it)

EUROPEAN UNION - ERASMUS Socrates Programme  
International Relations Office, Piazza San Marco 4, 50121 Florence, Italy | Tel: +39 055 2757443 | [ri@adm.unifi.it](mailto:ri@adm.unifi.it)  
Educational service, Piazza Ugo di Toscana 5, Edificio D15 - piano terra, stanza 0.03, 50127 Florence, Italy | Tel: +39 055 2759/65-66-91  
[socrates-novoli@adm.unifi.it](mailto:socrates-novoli@adm.unifi.it), [socrates-cs@adm.unifi.it](mailto:socrates-cs@adm.unifi.it)

ENSAM - École Nationale Supérieure d'Architecture de Montpellier  
179 Rue de l'Esperou, 34093 Montpellier cedex 5, France | Tel: +33(0)467918989 | [montpellier.archi.fr](http://montpellier.archi.fr)

LANGUAGE CENTRE - University of Florence  
Via degli Alfani 58, 50121 Florence, Italy | Tel: +39 0552756910 | [cla@cla.unifi.it](mailto:cla@cla.unifi.it) | [cla.unifi.it](http://cla.unifi.it)

LICEO BENEDETTO VARCHI - High School of Humanistic Studies  
Viale Matteotti 50, 52025 Montevarchi - Arezzo, Italy | Tel: +39 055 9102774 | [liceovarchi.it](http://liceovarchi.it)

VILLE DE ROANNE - Loire, France  
Place de l'Hôtel de Ville, 42300 Roanne, France | Tel: +33(0) 477232000 | [roanne.fr](http://roanne.fr)

MUNICIPALITY OF MONTEVARCHI - Arezzo, Italy  
Piazza Varchi 5, 52025 Montevarchi - Arezzo, Italy | Tel: +39 055 9108/1-246 | [comune.montevarchi.ar.it](http://comune.montevarchi.ar.it)

|                              |                                                                                                                                                                                                                                                               |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| January 2010 - May 2013      | <b>APSA - Doctorate School in Architecture, Planning and History of Art - University of Florence</b><br><b>PhD IN TECHNOLOGY OF ARCHITECTURE AND DESIGN</b><br>Curriculum: ENERGY AND ENVIRONMENT   Thesis: MANAGEMENT ENGINEERING                            |
| November 2010                | <b>BEHNISCH Architekten</b><br><b>PLANNING SUSTAINABILITY Workshop   Director: Martin HAAS, BEHNISCH Architekten</b>                                                                                                                                          |
| August 2010                  | <b>KAPLAN INTERNATIONAL COLLEGE - London, Leicester Square</b><br><b>HIGHER INTERMEDIATE LANGUAGE CERTIFICATE</b>                                                                                                                                             |
| March 2010                   | <b>POLITECNICO DI TORINO - Turin Institute of Technology - PhD in Technological Innovation for the Built Environment</b><br><b>3rd LEVEL COURSE: METHODOLOGY OF TECHNOLOGICAL RESEARCH</b>                                                                    |
| January 2009                 | <b>NATIONAL ASSOCIATION OF ITALIAN ARCHITECTS</b><br><b>ADMISSION TO THE NATIONAL ASSOCIATION OF ITALIAN ARCHITECTS - PROFESSIONAL QUALIFICATION</b>                                                                                                          |
| December 2008 - January 2009 | <b>LONDON SCHOOL - Authorized by Ministry of Education n. 7912</b><br><b>ENGLISH LANGUAGE B2 CERTIFICATE</b>                                                                                                                                                  |
| November 1992 - July 2008    | <b>FACULTY OF ARCHITECTURE - University of Florence</b><br><b>DEGREE IN ARCHITECTURE 110/110 Cum Laude</b>                                                                                                                                                    |
| October 1999 - July 2000     | <b>EUROPEAN UNION - ERASMUS Socrates Programme   ENSAM - École Nationale Supérieure d'Architecture Montpellier</b><br><b>EXAMS: Acoustics   Naval Architecture   Light Engineering   Architectural Project   Thermodynamics   Urban: Cities and Territory</b> |
| April 2000                   | <b>ENSAM - École Nationale Supérieure d'Architecture Montpellier</b><br><b>NEW YORK ON SITE: Modern and Contemporary Architecture   Director: Michel BARRÉS, ENSAM</b>                                                                                        |
| January 2000                 | <b>ENSAM- École Nationale Supérieure d'Architecture Montpellier</b><br><b>PARIS ON SITE: Grand Louvre, Stade de France   Director: Michel MACARY</b>                                                                                                          |
| November 1997 - May 1999     | <b>LANGUAGE CENTRE - University of Florence</b><br><b>INTERMEDIATE ENGLISH LANGUAGE CERTIFICATE</b>                                                                                                                                                           |
| September 1987 - July 1992   | <b>LICEO BENEDETTO VARCHI - High School of Humanistic Studies</b><br><b>HIGH SCHOOL DIPLOMA</b>                                                                                                                                                               |
| January 1989 - July 1991     | <b>VILLE DE ROANNE - Loire - France   MUNICIPALITY OF MONTEVARCHI - Arezzo - Italy</b><br><b>FRENCH LANGUAGE</b>                                                                                                                                              |

## Training

**Language knowledge REFERENCES: Addresses | Telephone numbers | Emails | web**

**ENGLISH**

KAPLAN INTERNATIONAL COLLEGE - London, Leicester Square  
3 - 5 Charing Cross Road, London WC2H 0HA, United Kingdom | Tel: +44 (0) 20 7045 5000 | kaplaninternational.com

LONDON SCHOOL  
Viale dei Mille 95, 50131 Florence, Italy | Tel. +39 055 5/70029-85860 | londonschool.fi.it

LANGUAGE CENTRE - University of Florence  
Via degli Alfani 58, 50121 Florence, Italy | Tel: +39 055 2756910 | cla@cla.unifi.it | cla.unifi.it

**FRENCH**

EUROPEAN UNION - ERASMUS Socrates Programme  
International Relations Office, Piazza San Marco 4, 50121 Florence, Italy | Tel: +39 055 2757443 | ri@adm.unifi.it  
Educational services, Piazza Ugo di Toscana 5, Edificio D15 - piano terra, stanza 0.03 - 50127 Florence, Italy | Tel: +39 055 27597/65-66-91  
socrates-novoli@adm.unifi.it, socrates-cs@adm.unifi.it

ENSAM - École Nationale Supérieure d'Architecture de Montpellier  
179 Rue de l'Esperou, 34093 Montpellier cedex 5, France | Tel: +33(0)467 918989 | montpellier.archi.fr

VILLE DE ROANNE - Loire, France  
Place de l'Hôtel de Ville, 42300 Roanne, France | Tel: +33(0)477 232000 | roanne.fr

MUNICIPALITY OF MONTEVARCHI - Arezzo, Italy  
Piazza Varchi 5, 52025 Montevarchi - Arezzo, Italy | Tel: +39 055 9108/1-246 | comune.montevarchi.ar.it

**SPANISH**

ABITAR Green Business  
Grimaldo del Solar 318, Miraflores 17, Lima, Perú | Director: PhD Arch. Fernando RECALDO LEON, Via Pippo Spano 15, 50129 Florence, Italy  
Tel: +39 055 5048394 | fernando.recaldeleon@unifi.it, feridea@hotmail.com

ABITA PERÚ Asociación Civil  
Sargento Lores 110, Malecon Tarapaca, Iquitos, Perú | President: PhD Arch. Fernando RECALDE LEON, Via Pippo Spano 15, 50129 Florence, Italy  
Tel. +39 055 5048394 | fernando.recaldeleon@unifi.it, feridea@hotmail.com

**High School Teaching REFERENCES: Addresses | Telephone numbers | Emails | web**

LICEO VITTORIA COLONNA - High School of Educational Studies  
Via Porta Buia 6, 50100 Arezzo, Italy | Tel: +39 0575 20218 | ARPM03000B@istruzione.it | vittoriacolonna.com

ISTITUTO BUONARROTI-FOSSOMBRONI - High School of Economics  
Piazza della Badia 2, 50100 Arezzo, Italy | Tel: +39 0575 37318 | protocollo@buonarroti-fossombroni.gov.it, aris013007@istruzione.it | buonarroti-fossombroni.it

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MOTHER TONGUE     | <b>ITALIAN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| OTHER LANGUAGES   | <b>ENGLISH</b><br>reading: GOOD   writing: GOOD   speaking: GOOD<br><br><b>FRENCH</b><br>reading: EXCELLENT   writing: EXCELLENT   speaking: EXCELLENT<br><br><b>SPANISH</b><br>reading: EXCELLENT   writing: EXCELLENT   speaking: EXCELLENT                                                                                                                                                                                                                                                                                                                                                      |
| I.T.              | <b>Autocad 2D - 3D   Photoshop   Office: Word - Excel - Power Point</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ORGANIZATIONS     | <b>Volunteer Work and Social Commitment</b><br>OXFAM Volunteer<br>Founder and volunteer for other cultural associations<br>Member of the National Assembly of a political party                                                                                                                                                                                                                                                                                                                                                                                                                    |
| DRIVING LICENCE   | <b>Full clean driving licence</b><br>A - motorbike 125 cc, B - car                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OTHER EXPERIENCES | <b>Main residences</b><br>Lived in Florence (Italy), Montpellier (France), Lima (Perú)<br><b>Visited</b><br>Most Italian cities   Visited the following on <b>several occasions</b> : Arles, Avignon, Barcelona, Basel, Carcassonne, Freiburg im Breisgau, Innsbruck, London, Lyon, Madrid, Marseille, Munich, New York, Nimes, Paris, Salzburg, Vienna   I have <b>also visited</b> : Antwerp, Athena, Berlin, Bordeaux, Bruges, Brussels, Cusco, Dijon, Dresden, Istanbul, Karlsruhe, Krakow, Ljubljana, Lucerne, Prague, Pula, Segovia, Speyer, Strasbourg, Valencia, Warsaw, Zaragoza, Zurich. |
| OTHER INTERESTS   | <b>Music</b><br>Polyphonic Ensemble of the University of Florence.....<br><b>Literature</b><br>Philosophy, History, Literature.....<br><br><b>Art, Mathematics.....</b><br>High School Art History Teacher   High School Math Teacher<br><br><b>Cinema</b><br>Italian Neo Realism, Nouvelle Vague, Charles Chaplin, Federico Fellini, Luchino Visconti, Bernardo Bertolucci.....                                                                                                                                                                                                                   |

**Languages | other skills | experiences | interests**

## **FIELDS**

01. Research | Teaching | Professional | Projects  
02. Conferences | Congresses | Seminars | Workshops

**FIELDS index**





## BIOCLIMATIC ARCHITECTURE

Thermo-physics of the building and indicators of comfort and performance  
Passivhaus and low consumption buildings  
Opaque and transparent, massive and light, industrialized envelope  
Photovoltaic and Solar Thermal: architectural integration, solar trackers, systems and components, types and uses  
Biomass and Geothermal: systems and components, types and uses  
Wind turbines and mini-turbines: systems and components, types and uses  
Passive cooling and natural ventilation  
Solar radiation check: screening, strategies and shading systems  
Natural light and project: methods and techniques  
Traditional technologies to comfort control

## SUSTAINABLE CITIES

Protocols and indicators of environmental sustainability  
Governance and project planning and urban retrofit  
Strategic planning  
Complex programmes of planning and urban transformation  
Participated planning of urban re-qualification  
Smart Cities: distributed planning and management of energy  
Transports: instruments for control and planning  
Sustainable industrial areas  
Territorial Planning models and experiences and sustainable urban development  
Sustainability and cities of the Mediterranean  
Experiences of sustainable urban planning in Latin America

## NATURAL RESOURCES

Environmental planning and comfort of urban spaces  
LCA, life cycle, eco compatible materials, components and systems  
Water: planning, control and management - phytodepuration bio-technology  
Green Roofs, Green Walls and camouflage architecture  
Waste: urban systems, procedures and plants for the recovery and use of secondary raw materials  
Treatment of urban waters: systems for the water supply and waste disposal

## ENGINEERING MANAGEMENT

Building Process: subjects and roles, economic implications  
Project Management: programme management models  
Estimate of costs and diffusion of components and innovative systems for construction  
Types of cost, LCA, LCC and Global Cost  
Economic Evaluation and cost control procedures  
Structure of the project and methods dedicated to cost evaluation  
Instruments for the evaluation of estimated costs and accounting  
Bill of Quantities: applicative principles and specific features

**Research | Teaching | Professional | Projects**





I regularly take part in conferences, congresses and seminars on the fields in which I have developed my specific skills.

I also take part as a speaker, sending Abstracts, presenting Papers, or as a member of a team in planning workshops.



## Conferences | Congresses | Seminars | Workshops

## QUALIFICATIONS

01. Research Doctorate - PhD
02. Degree 110/110 Cum Laude
03. Professional Qualification
04. Methodology of Technological Research
05. English Higher Intermediate

QUALIFICATIONS index



**PhD REFERENCES: Addresses | Telephone numbers | Emails | web**

APSA - Doctorate School in Architecture, Planning and History of Art - University of Florence

DIDA - Department of Architecture  
Via della Mattonaia 14, 50121 Florence, Italy  
dida.unifi.it

Research Doctorate in Technology of Architecture and Design  
osdotta.unifi.it

Doctorate Coordinator: Prof. Antonio LAURÍA  
Via S. Niccolò 89/a - 95, 50125 Florence, Italy  
Tel: +39 055 2755320  
antonio.lauria@unifi.it

Doctorate Administration: Ms Lucia GALANTINI  
Via della Mattonaia 14, 50121 Florence, Italy  
Tel: + 39 055 2755434  
lucia.galantini@unifi.it

Dean: Prof. Andrea CANTINI  
Via Bolognese 52, 50139 Florence, Italy  
Tel: +39 055 2756030  
andrea.cantini@unifi.it

Qualification released by: Research and International Relations Office  
Piazza S. Marco 4, 50121 Florence, Italy  
Tel: +39 055 2757443  
ri@adm.unifi.it



UNIVERSITY OF FLORENCE  
DEPARTMENT OF TECHNOLOGY  
OF ARCHITECTURE AND DESIGN  
"PIERLUIGI SPADOLINI"



Research Doctorate in Technology  
of Architecture and Design

**CICLE XXV**

**Period:**

Jan. 010 - May 013

**Scientific - Disciplinary Areas**

**Area 08**

Architecture Civil Eng.

**ICAR 12**

Technology of Architecture

**ICAR 22**

Economic Evaluation



*Università degli Studi di Firenze*

IL RETTORE  
PROF. ALBERTO TESI  
VISTA LA RELAZIONE DELLA  
COMMISSIONE GIUDICATRICE  
CONFERISCE IL

**DOTTORATO DI RICERCA IN  
TECNOLOGIA DELL'ARCHITETTURA E DESIGN**

CONSEGUITO NELL'ANNO 2013

A  
**FRANCESCO SIMONI**

NATO A FIGLINE VALDARNO (FI) IL 21 GENNAIO 1973

IL RETTORE

FIRENZE, 6 GIUGNO 2013



## Main topics of the Research Doctorate

Technological Research  
Implications of research on the building industry  
Technological Research and Architectural Planning  
Engineering Management  
Technology as a resource for the project  
Building process  
Project and Construction Management  
Needs-Performance Theory  
Innovative Materials and components  
Bio climatic aspects in Architecture planning  
The planning of the building-plant system  
Indoor Global Environmental Comfort  
Processes and methods of industrial production  
Design for All  
LC thinking and technological innovation

## PROFESSORS

Prof. Roberto BOLOGNA  
Prof. Cosimo Carlo BUCCOLIERI  
Prof.ssa Cristina CARLETTI  
Prof. Gianfranco CELLAI  
Prof. Romano DEL NORD  
Prof.ssa Maria Antonietta ESPOSITO  
Prof. Paolo FELLI  
Prof. Marco JODICE  
Prof. Antonio LAURÍA  
Prof. Vincenzo Alessandro LEGNANTE  
Prof. Massimo RUFFILLI  
Prof. Marco SALA  
Prof. Fabio SCIURPI  
Prof. Simone SECCHI  
Prof. Carlo TERPOLILLI  
Prof.ssa Maria Chiara TORRICELLI  
Prof.ssa Francesca TOSI

## Research Doctorate - PhD

**Degree REFERENCES: Addresses | Telephone numbers | Emails | web**

FACULTY OF ARCHITECTURE - University of Florence

School of Architecture  
Via della Mattonaia 14, 50121 Florence, Italy  
Tel: +39 055 2755/410-300  
[scuola@architettura.unifi.it](mailto:scuola@architettura.unifi.it)  
[architettura.unifi.it](http://architettura.unifi.it)

Central office  
Via Gino Capponi 9, 50121 Florence, Italy  
[architet@adm.unifi.it](mailto:architet@adm.unifi.it)



UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE

**Degree type**  
5 year degree course  
30 exams + English exam

**Exam top grades**  
30 out of 30

**GRADE AVERAGE**  
28.4 out of 30

**Top final mark**  
110/110

**OBTAINED FINAL MARK**  
110/110 Cum Laude



## Main topics of the Degree in Architecture

Architectural Planning  
Distributive types and characters  
Mathematics  
Construction Science  
Environmental Technical Physics  
Hygrothermal Comfort  
Acoustics  
Natural and artificial Lighting  
Technical plants  
Structure Planning  
Technology of Architecture  
Bio-climatic Architecture  
Industrial Design  
Environmental Sustainability  
Economic Evaluation of Projects  
History of Greek Architecture  
History of Roman Architecture  
History of Romanesque Architecture  
History of Gothic Architecture  
Renaissance Architecture  
Baroque Architecture  
Industrial era Architecture  
The Avant Gard and the Modern Movement  
Contemporary Architecture  
Architectural Restoration  
Preservation Techniques  
Analysis of the territory  
Urban Planning  
Environmental Planning  
Sustainable Transports  
Macroeconomics  
Cost-Benefit ratio  
Industrial Production and Marketing  
Sociology  
Social Architecture  
Descriptive Geometry and Drawing

## Degree 110/110 Cum Laude

**Professional Qualification REFERENCES: Addresses | Telephone numbers | Emails | web**

NATIONAL ASSOCIATION OF ITALIAN ARCHITECTS

National Council of Italian Architects  
Via Santa Maria dell'Anima 10, 00186 Rome, Italy  
[awn.it](http://awn.it)

National Association of Architects - Arezzo  
Via Vittorio Veneto 5, 52100 Arezzo, Italy  
Tel: +39 0575 350022  
[architettiarezzo@archiworld.it](mailto:architettiarezzo@archiworld.it)  
[architettiarezzo.it](http://architettiarezzo.it)



EUROPEAN UNION



ITALIAN REPUBLIC

**STATE EXAM**  
2008 Second Session

**NATIONAL ASSOCIATION  
MEMBERSHIP**  
26th May 2009

**C N A**  
**P P C**

**CONSIGLIO NAZIONALE  
DEGLI ARCHITETTI  
PIANIFICATORI  
PAESAGGISTI  
E CONSERVATORI**



ordine degli  
architetti  
pianificatori  
paesaggisti  
e conservatori

della provincia di  
**a r e z z o**



## Professional Qualification

Qualified Architect  
Architectural Planning  
Urban and construction Law and Legislation  
Structural Planning  
Technology of Architecture  
History of Architecture  
Urban Planning  
Energy Certification  
Job safety  
Building site safety  
Social responsibility of the architect  
Knowledge and skills of the Professional Association

## Professional Qualification

**Methodology of Technological Research REFERENCES: Addresses | Telephone numbers | Emails | web**

POLITECNICO DI TORINO - Turin Institute of Technology - Doctorate in Technological Innovation for the Built Environment

Doctorate School  
Corso Duca degli Abruzzi 24, 10129 Turin, Italy  
Tel: +39 011 0906095  
[scudo@polito.it](mailto:scudo@polito.it)  
[dottorato.polito.it](http://dottorato.polito.it)

Manager for Methodology of Technological Research Course - March 2010: Prof. Mario GROSSO  
Tel: +39 011 0904376  
[mario.grosso@polito.it](mailto:mario.grosso@polito.it)



TURIN INSTITUTE OF TECHNOLOGY



DOCTORATE IN TECHNOLOGICAL  
INNOVATION FOR THE BUILT  
ENVIRONMENT

### LEVEL 3 COURSE

#### PROFESSORS

Prof. Mario GROSSO  
*Turin Institute of Technology*  
Prof.ssa Clara BERTOLINI  
*Turin Institute of Technology*  
Arch. Emilia GARDA  
*Turin Institute of Technology*

#### LECTURERS

Dott. Antonella CASTELLANI  
*Turin Institute of Technology*  
Prof. Marcello CINI  
*Sapienza University of Rome*  
Dott. Alan CRIVELLARO  
*University of Padoa*  
Dott. Laura FULCI  
*Turin Institute of Technology*  
Arch. Silvia INFUSINO  
*Turin Institute of Technology*  
Prof. P. Giovanni BARDELLI  
*Turin Institute of Technology*  
Prof. Timo LEPISTÖ  
*Tampere Univ. of Techn.*

Corso di III livello

## METODOLOGIA DELLA RICERCA TECNOLOGICA

Dottorato di ricerca ITAC - Innovazione Tecnologica per l'Ambiente Costruito

Torino 15 - 18 marzo 2010

DOCENTI:  
Prof. Mario Grosso  
(coordinatore)

Prof.ssa Clara Bertolini  
Arch. Emilia Garda

OFFERTA DIDATTICA:  
6 CFU

### ATTESTATO

Si attesta che il dottorando

**SIMONI FRANCESCO**

ha frequentato il Corso di III livello in

### Metodologia della Ricerca Tecnologica

superando con esito positivo la prova finale

Torino, 18 marzo 2010



POLITECNICO DI TORINO



SCUOLA DI DOTTORATO

Coordinatore del corso  
prof. Mario Grosso

### Main topics of the course

Epistemological foundations of scientific and technological research  
The 7th Framework Programme of the European Union  
International, national and regional levels of research

How to prepare a European research programme  
Future archives: how to support research information  
Research evaluation within the 7th Framework Programme

## Methodology of Technological Research

**English Higher Intermediate REFERENCES: Addresses | Telephone numbers | web**

KAPLAN INTERNATIONAL COLLEGE - London, Leicester Square  
3 - 5 Charing Cross Road, London, WC2H 0HA, United Kingdom  
Tel. +44 (0)20 7045 5000  
kaplaninternational.com



KAPLAN INTERNATIONAL COLLEGES  
LONDON - LEICESTER SQUARE

## ENGLISH LANGUAGE COURSE

**Course type:**  
Intensive English Course  
+ family stay

**Course duration:**  
2 weeks

# Certificate of Achievement

This is to certify that

## Francesco Simoni

Attended 37.5 out of 42 hours  
of An Intensive English Course at

### Kaplan International College Leicester Square

From 09/08/2010 to 20/08/2010  
and has reached the following level:

## Higher Intermediate

(see reverse for level description)

Director of Studies

20 August 2010

UK

Accredited by the  
  
BRITISH COUNCIL  
for the teaching  
of English

Ireland

Australia

Kaplan International  
Colleges are fully  
accredited by NEQA

New Zealand

Canada

USA

### Level description

The level shown on the front of this certificate is explained below.

|                                      |                                                                                                                                                               |                                                                                                                                                                  |                                                                                                                                                       |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PROFICIENCY</b><br>CEF C2         | <b>Listening/Speaking</b><br>Can understand and discuss or argue complex issues with near-native fluency.                                                     | <b>Reading</b><br>Can quickly and accurately understand a wide range of general and specialized authentic texts, determining unfamiliar vocabulary from context. | <b>Writing</b><br>Can write well-developed essays and texts, accurately using a broad range of vocabulary, sentence structure, and punctuation.       |
| <b>ADVANCED</b><br>CEF C1            | <b>Listening/Speaking</b><br>Can understand and discuss or argue familiar topics, as well as cope with less familiar ones, with moderate fluency.             | <b>Reading</b><br>Can understand a range of texts and genres, especially within one's area of experience; can understand unfamiliar vocabulary from context.     | <b>Writing</b><br>Can write well-developed essays and texts within one's area of experience, displaying a range of vocabulary and sentence structure. |
| <b>HIGHER INTERMEDIATE</b><br>CEF B2 | <b>Listening/Speaking</b><br>Can understand or discuss familiar and some specialized topics with limited fluency.                                             | <b>Reading</b><br>Can understand general information and specific details in a range of texts and genres, determining some unknown vocabulary from context.      | <b>Writing</b><br>Can write clear, detailed paragraphs and other texts on general knowledge topics.                                                   |
| <b>INTERMEDIATE</b><br>CEF B1        | <b>Listening/Speaking</b><br>Can understand and express information and opinions on familiar topics; can follow and engage in simple, everyday conversations. | <b>Reading</b><br>Can understand clear, simple texts and can understand relatively complex vocabulary from context.                                              | <b>Writing</b><br>Can write simple texts on familiar topics or predictable matters.                                                                   |
| <b>LOWER INTERMEDIATE</b><br>CEF A2  | <b>Listening/Speaking</b><br>Can understand and express simple opinions, instructions and needs in a familiar context.                                        | <b>Reading</b><br>Can understand clear, simple texts using basic vocabulary.                                                                                     | <b>Writing</b><br>Can write simple sentences and texts conveying personal information.                                                                |
| <b>ELEMENTARY</b><br>CEF A1          | <b>Listening/Speaking</b><br>Can understand simple instructions and can participate in basic, factual conversations on predictable topics.                    | <b>Reading</b><br>Can understand basic written information using limited vocabulary.                                                                             | <b>Writing</b><br>Can write simple sentences and phrases.                                                                                             |

## English Higher Intermediate



**PUBLICATIONS**

- 01. Renzo PIANO | Architect's Almanac
- 02. OSDOTTA Conference Acts 2012

**PUBLICATIONS index**





**Renzo PIANO Foundation REFERENCES - Architect's Almanac: Addresses | Telephone numbers | Emails | web**

RENZO PIANO FOUNDATION  
Via Rubens 30/a, 16158 Genoa, Italy  
Tel: +39 010 691378  
[contact@fondazionerenzopiano.org](mailto:contact@fondazionerenzopiano.org)  
[fondazionerenzopiano.org](http://fondazionerenzopiano.org)

Architect's Almanac: PROCTOR S.r.l.  
Via Giovanni Livraghi 1, 40121 Bologna, Italy  
Tel: +39 051 19983211  
[info@proctoredizioni.it](mailto:info@proctoredizioni.it)  
[almanaccodellarchitetto.it](http://almanaccodellarchitetto.it)



*L'Almanacco dell'Architetto - the Architect's Almanac - wants to take on the challenges of Contemporary Architecture linked to the grand themes of Sustainability, lightness and of the fragility of Earth.*

**54 articles signed**



**Renzo PIANO | Architect's Almanac**

## Signed paragraphs and articles

Skylights  
Skylights for civil use  
Skylights and openings for heat and smoke emissions  
Solar tunnels and light followers  
Bearing and non bearing vertical walls  
ICF  
ICF in wood fibre  
ICF in polystyrene (2)  
Blocks in concrete wood  
Raw earth building  
Pisé - Rammed earth  
Torchis and Bajereque building - wood and earth  
Adobe  
Non bearing vertical walls  
Multi layer walls  
Internally insulated walls  
Metal frame systems  
Wooden frame and panel systems  
Wooden frames and OSB panels  
Solid wood roofing (3)  
Laminated timber roofing (2)  
Laminated boards roofing (3)  
Wooden truss roofing (2)  
Bamboo roofing (3)  
Brick and reinforced concrete roofing (5)  
Steel roofing (4)  
Inclined roofing  
Stratigraphy and performance of roofing  
Outdoor roofing  
Stratigraphy of traditional roofing  
Ventilated roofing  
The morphology of roofing  
Prefabricated elements for industrial roofing  
Prestressed concrete prefabricated roofing  
Cambered roofing  
Steel prefabricated roofing  
Sheds for industrial roofing (2)

PUBLICATION YEAR 2012

**OSDOTTA REFERENCES: Addresses | Telephone numbers | Emails | web**

OSDOTTA - National Observatory of Research Doctorates in Technology of Architecture  
Via S. Niccolò 89/a - 95, 50125 Florence, Italy  
[osdotta.unifi.it](http://osdotta.unifi.it)

2012 Annual Conference held at the School of Architecture and Design "Eduardo Vittoria" - University of Camerino  
Annunziata Monastery, Viale della Rimembranza, 63100 Ascoli Piceno, Italy  
Tel: +39 0737 4042/00-74  
[d7.unicam.it/sad/osdotta](http://d7.unicam.it/sad/osdotta)

2012 Edition Secretariat: Valeria BIANCHINI, Patrizia SANTORI, Monica VASTA  
Tel: +39 0737 404266  
[segretaria.osdotta@unicam.it](mailto:segretaria.osdotta@unicam.it)



UNIVERSITÀ  
di CAMERINO



#### OSDOTTA

**National Observatory  
of Research Doctorates  
in Technology of Architecture**

Turin Institute of Technology  
Milan Institute of Technology  
University of Ferrara  
University of Florence  
University of Camerino  
Sapienza University of Rome  
University of Chieti-Pescara  
University of Naples Federico II  
Second University of Naples  
University of Reggio Calabria  
University of Palermo  
University of Le Marche  
University of Genoa

#### 8th Annual Conference Ascoli Piceno, September 012

On the built and buildable.  
Theories and experiments  
for research in the  
Technology of Architecture.  
The role of planning  
experimentation in the  
definition of the built  
environment.



## OSDOTTA Conference Acts 2012

### OSDOTTA Annual Conference

OSDOTTA is the network of departments of Italian Universities concerned with research in the field of the Technology of Architecture.

It carries out joint activities with national and international universities which meet at the annual conference to exchange ideas and research.

The Scientific Committee chooses the Papers of particular interest and importance which will be published in the Acts of the Annual Conference.

The **2012 Acts** collect reflections about the city as an experimental area, including the latest updates from the field of Technology of Architecture, broad ranging theoretical principles and a wide range of specialist applications.

#### Paper

**Gestione dei Processi  
Scelte possibili tra possibili scelte  
Technology and Architecture  
Choices and possibilities**

The topic of the paper is the role of the economic evaluation of the project in the field of technological experimentation. The contribution highlights the influence of costs on the project, the relevance of economic control in the penetration and diffusion of innovation in the construction sector and the opportunities offered by the current instruments of financial management in the building process.

In this context, the need for a new procedural instrument for evaluation is evident. This instrument should pinpoint the basic requirements necessary to meet the demands of sustainability in its differing interpretations.

**Selection: DOUBLE-BLIND NATIONAL REVIEW  
Publication: ANNUAL CONFERENCE ACTS**

PUBLICATION YEAR 2013

**THESIS**

01. Research Doctorate - PhD  
02. Degree

**THESIS index**



**PhD Thesis REFERENCES: Addresses | Telephone numbers | Emails | web**

APSA - Doctorate School in Architecture, Planning and History of Art - University of Florence

DIDA - Department of Architecture  
Via della Mattonaia 14, 50121 Florence, Italy  
dida.unifi.it

Research Doctorate in Technology of Architecture and Design  
osdotta.unifi.it

Doctorate Coordinator: Prof. Antonio LAURÍA  
Via S. Niccolò 89/a - 95, 50125 Florence, Italy  
Tel: +39 055 2755320  
antonio.lauria@unifi.it

Doctorate Administration: Ms Lucia GALANTINI  
Via della Mattonaia 14, 50121 Florence, Italy  
Tel: + 39 055 2755434  
lucia.galantini@unifi.it

Dean: Prof. Andrea CANTINI  
Via Bolognese 52, 50139 Florence, Italy  
Tel: +39 055 2756030  
andrea.cantini@unifi.it

Qualification released by: Research and International Relations Office  
Piazza S. Marco 4, 50121 Florence, Italy  
Tel: +39 055 2757443  
ri@adm.unifi.it



UNIVERSITY OF FLORENCE  
DEPARTMENT OF TECHNOLOGY  
OF ARCHITECTURE AND DESIGN  
"PIERLUIGI SPADOLINI"



Research Doctorate in Technology  
of Architecture and Design

#### Examining Commission:

Prof. Giuseppe LOSCO  
*University of Camerino*  
Prof. Roberto PAGANI  
*Turin Institute of Technology*  
Prof. Romano DEL NORD  
*University of Florence*

**Pages 372 - 15 illustrations**

#### EVALUATION MODEL

234 pages

**Publication: 2013**

#### Availability

Rome National Library  
Florence National Library



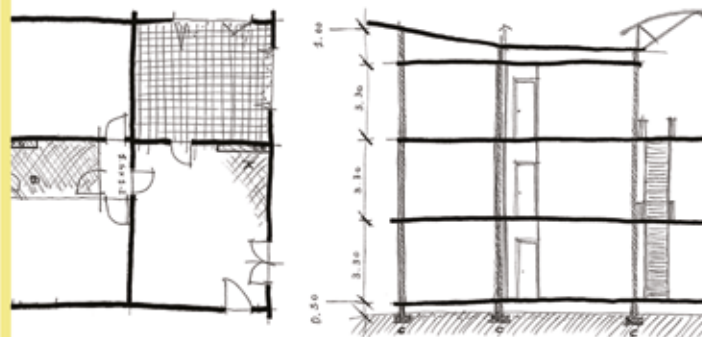
UNIVERSITÀ DEGLI STUDI DI FIRENZE  
DIPARTIMENTO DI TECNOLOGIE DELL'ARCHITETTURA E DESIGN "PIERLUIGI SPADOLINI"

Corso di Dottorato di Ricerca in Tecnologia dell'Architettura e Design



Francesco Simoni

**IL CONTROLLO DEI COSTI PER LA STIMA DI SCENARI TECNOLOGICI**  
Strumenti per la diffusione di innovazione nel settore edilizio  
attraverso la valutazione economica



Settore disciplinare prevalente: ICAR 12  
Tutor: Prof. Marco Sala  
Co-tutor: Prof. Marco Jodice  
Coordinatore: Prof. Antonio Lauria  
Ciclo XXV - 2010-2013

## PhD Thesis: summary of contents

The thesis deals with the RELATIONSHIP BETWEEN THE PROJECT AND ITS ECONOMIC CONTROL in the building construction industry.

The project must meet the requirements needed to optimize resources and satisfy the needs from which it originated. In this context, it is important to bear in mind the contributions from different subjects and the need to make progressive choices, which do not allow the exact calculation of the final cost of the work, during each phase of its conception. This must also include the costs of the project and organization and management expenses.

On the other hand, in order to minimize material resources, through constant technological innovation aimed at sustainability, the awareness of the underlying economic implications of the design is a determining factor for the definition of the project. This is confirmed by the principles at the basis of the instruments dedicated to the preventive evaluation (legislation, parametric value, Bill of Quantities, Price Analysis).

The research has been carried out bearing this double requirement in mind. The aim is to examine and verify the possible answers, considering the need to develop a new instrument for economic evaluation, to use alongside the existing ones. It is aimed at the designer, responsible for the analysis of the building solutions.

#### Product of research

The result of the investigation is a PROCEDURAL MODEL OF EVALUATION, which can be used for the development of a software able to facilitate the comparative study of alternative technological scenarios, thanks to a rapid analysis of every single building hypothesis.

The use of the instrument, of which a simulation has been illustrated, allows the identification of the most suitable building option in terms of relationship between time, cost, and quality.

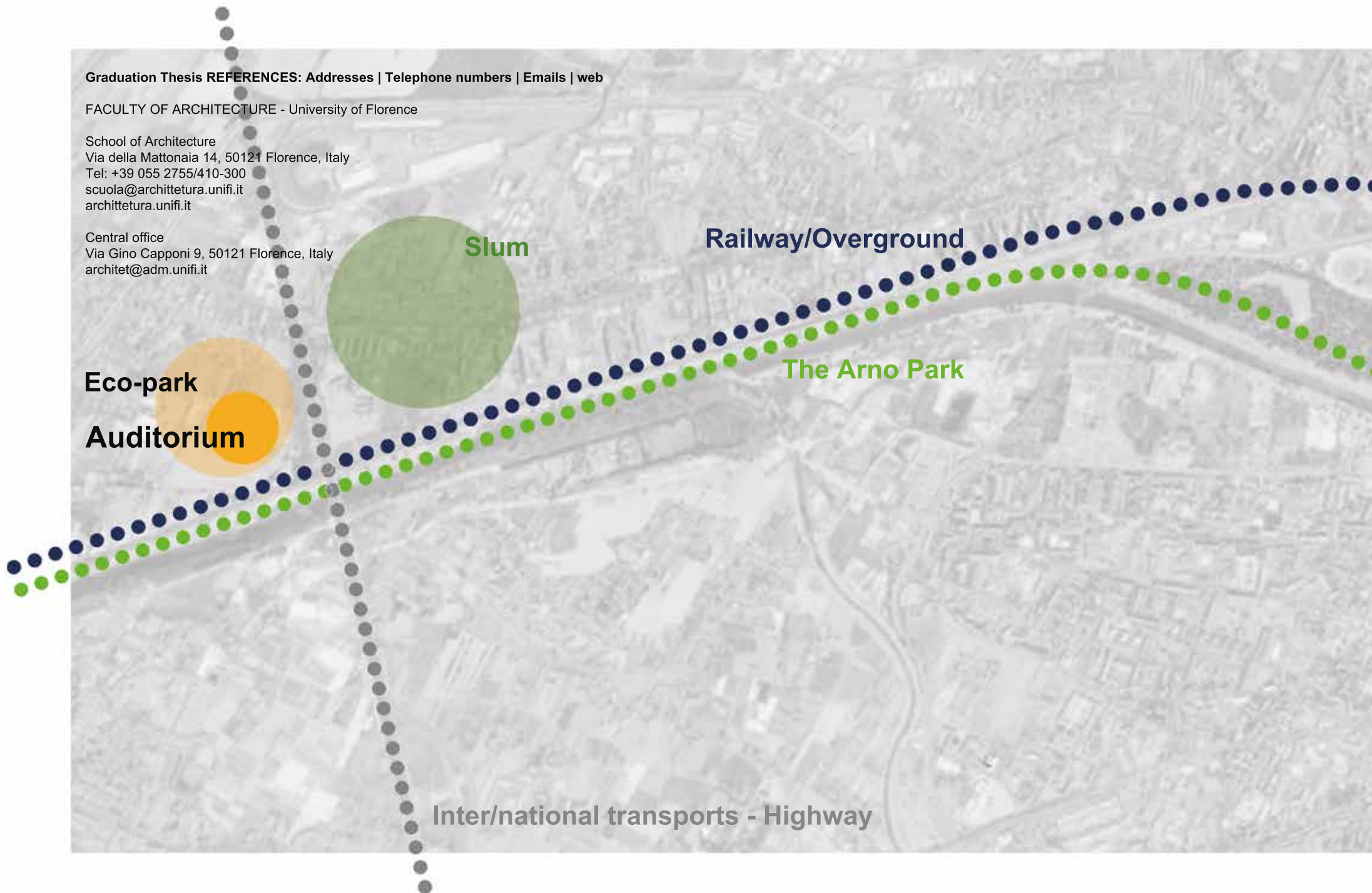
## Research Doctorate - PhD

**Graduation Thesis REFERENCES: Addresses | Telephone numbers | Emails | web**

FACULTY OF ARCHITECTURE - University of Florence

School of Architecture  
Via della Mattonaia 14, 50121 Florence, Italy  
Tel: +39 055 2755/410-300  
scuola@architettura.unifi.it  
architettura.unifi.it

Central office  
Via Gino Capponi 9, 50121 Florence, Italy  
architettura@adm.unifi.it



Inter/national transports - Highway



UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE

**GRADUATION THESIS**

**SAN DONNINO ECO-PARK**  
STRUCTURES FOR ACOUSTIC  
AND MUSICAL RESEARCH

MENTOR  
PROF. ARCH. MARCO SALA

CO-MENTOR  
ARCH. ANDREA PARIGI

GRADUAND  
FRANCESCO SIMONI

**8 illustrations size A0**

**report**

164 pages - 80 illustrations

Project location:  
Florence - Italy

Academic defence:  
16th July 08

**WORK EXTRACTS**

**PORTFOLIO PROJECTS 16**

**PORTFOLIO PROJECTS 17**

**Degree**

**Eco-park**  
Science park  
Research & Development/  
Innovation of process / product  
Competitiveness = Sustainability  
Technological transfer  
Business incubators

**Slum**  
Quality jobs  
Urban integration

**The Arno Park/**  
/Metropolitan Area Centre/  
/urban Music Park/  
/continuity with monumental centre

**Auditorium  
city of Music**  
Musical events and productions  
Dance - community  
Musical media-library  
Technological Audit  
Rehearsal/recording  
Post-production  
Commerce/Start-ups

transports opportunities  
Riverside park ... cycle paths  
**Railway-overground/transports**

**Monumental centre**

## RESEARCH ACTIVITIES

- 01. Abitare Mediterraneo - Mediterranean Living
- 02. Eco-Science-park for Florence
- 03. Technology of Architecture and Design Journal
- 04. Abitare i Cambiamenti - Living Changes
- 05. Rattaches
- 06. Ville et Territoire
- 07. Heritage: knowing, conserving, recovering

**RESEARCH ACTIVITIES index**

RESEARCH ACTIVITIES

RESEARCH

**Abitare Mediterraneo - Mediterranean Living REFERENCES: Addresses | Telephone numbers | Emails | web**

REGION OF TUSCANY - EU funds for Regional Development  
[regione.toscana.it/creo](http://regione.toscana.it/creo), [regione.toscana.it/-/abitare-mediterraneo](http://regione.toscana.it/-/abitare-mediterraneo)

TAeD - Department of Technology of Architecture and Design "Pier Luigi Spadolini" - University of Florence  
Via San Niccolò 89/a - 95, 50125 Florence, Italy  
Tel: +39 055 2755300  
[dida.unifi.it](http://dida.unifi.it)

ABITARE MEDITERRANEO - MEDITERRANEAN LIVING  
Tel: +39 055 2055561  
[abitaremediterraneo@taed.unifi.it](mailto:abitaremediterraneo@taed.unifi.it)  
[abitaremediterraneo.eu](http://abitaremediterraneo.eu)



abi  
me



UNIVERSITY OF FLORENCE



UNIVERSITY SCHOOL S.ANNA PISA

## Sustainable Innovation for the Mediterranean Living

Development of an Open System for the integration of technological and architectural innovation aimed at the containment of energy consumption

**JOINT RESEARCH**  
UNIVERSITY - COMPANIES

**NATIONAL NETWORK**  
UNIVERSITIES, COMPANIES,  
PUBLIC ADMINISTRATION

Period: Sep. 09 - Dec. 11



abitaremediterraneo.eu PORTAL



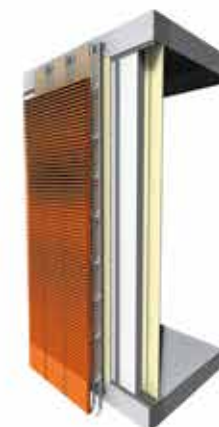
In collaboration with



**TEST CELL** | Laboratory for the measurement and decoding of the thermo physical behavior in dynamic regime in real outdoor conditions



**PROTOTYPE:** temporary habitat | emergency shelters | temporary lodging



**CATALOGUE | DATABASE | DOCUMENTATION CENTRE**  
Concept Design and Development of COMPONENTS AND SYSTEMS



**EXPERIMENTATION** on new buildings and retrofit



mediterraneo



architettura



energia



tecnologia



concept



design



certificazione



database

# Abitare Mediterraneo - Mediterranean Living

**Eco-Science-park for Florence REFERENCES: Addresses | Telephone numbers | Emails | web**

ABITA - Inter-university Research Centre for Bio-ecological Architecture and Technological Innovation for the Environment  
Via San Niccolò 89/a - 95, 50125 Florence, Italy  
Tel: +39 055 27553/22-28-32-34  
[centro@abita.unifi.it](mailto:centro@abita.unifi.it)  
[centroabita.unifi.it](http://centroabita.unifi.it)

IASP - International Association of Science Parks  
[iasp.ws](http://iasp.ws)

APSTI - Italian Association of Science Parks  
[apsti.it](http://apsti.it)

## ABITA

**ABITA** is an Inter- university Research Centre made up of **8 departments of Italian Universities:**



DIDA  
University of Florence



BEST  
Milan I.T.



ITACA  
Sapienza University of Rome



DSA  
University of Genoa



DICATA  
University of Naples Federico II



SUN  
Second University of Naples



DASTEC  
University R. Calabria



DINSE  
Turin I.T.

The centre carries out research concerning sustainable technology for architecture, the quality of the built environment and the urban insertion.

Period: Oct. 08- Dec. 09



Eco-Science-park, **Science** park with:

**Sustainable Infrastructure** on an environmental level

**Activity** aimed at innovating process and product for an eco-compatible use of resources

**Competitiveness** which includes social integration and the constant evaluation of human resources

References: [iasp.ws](http://iasp.ws) | [apsti.it](http://apsti.it) | [envipark.com](http://envipark.com)

Legal framework: **APEA - Aree Produttive Ecologicamente Attrezzate**- Eco-friendly Industrial Areas

## FRAMEWORK OF REQUIREMENTS: Eco-Science-park analysis



### Site identification:

San Donnino former incinerator:

- grey peripheral/central area
- contaminated area
- highly important environmental area



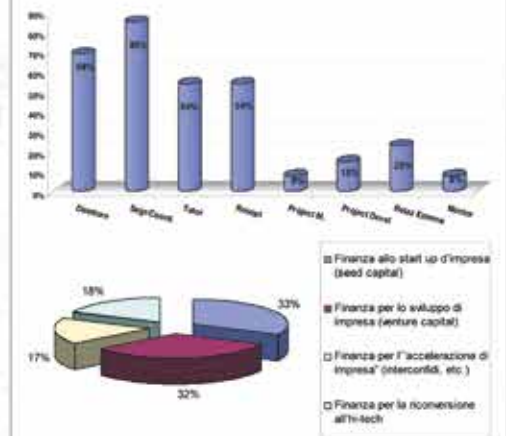
### Management framework:

- corporate form
- Start-up implementation
- University Spin-off implementation
- business incubator
- terms of property
- cadastral analysis
- property acquisition method
- initial and operating financing
- Research and Development scenarios
- investment opportunities study

### Site analysis:

- transports
- city settlement and social patterns
- Arno park
- relations with the monumental centre

### Mapping the Financing program / SP management costs / Incubators / Start-up / Spin-off



Source: APSTI / Finance Commission

## FEASIBILITY STUDY: possibility / potential of the intervention



### Masterplan and architectural possibilities

- site planning
- features of the buildings



### Proposition for the former incinerator:

- dismissed plant to heart of the Eco-park
- from contamination to clean energy

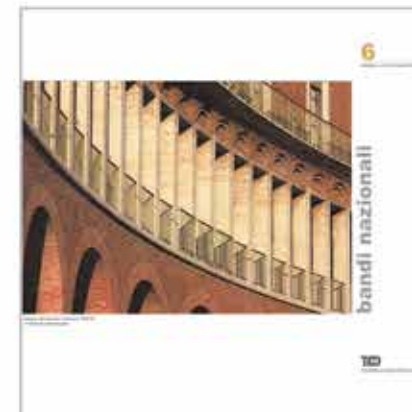
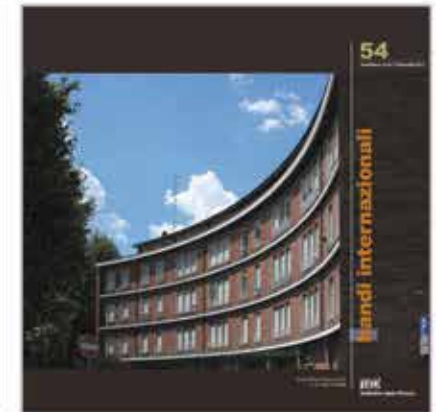
## PROJECT HYPOTHESIS: planning of the framework of requirements / park and buildings requirements

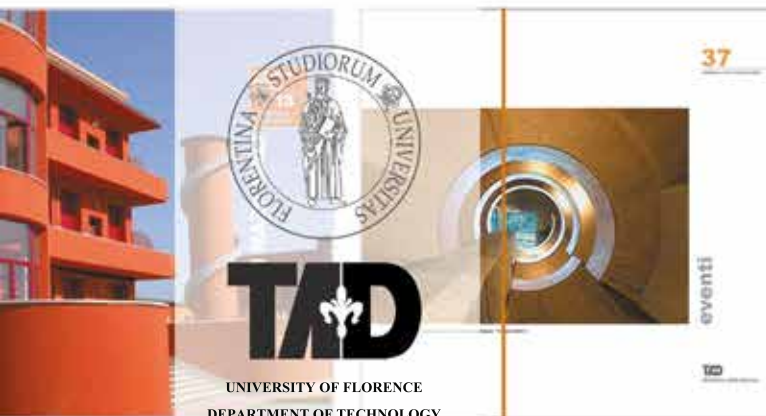
# Eco-Science-park for Florence

**Technology of Architecture and Design Journal REFERENCES: Addresses | Telephone numbers | Emails | web**

APSA - Doctorate School in Architecture, Planning and History of Art - University of Florence  
Department of Architecture - DIDA  
Via san Niccolò 89/a - 95, 50125, Florence, Italy  
Tel: +39 055 2755300  
dida.unifi.it

Scientific Supervisor of the Technology of Architecture and Design Journal: Prof. Francesca TOSI  
Via Sandro Pertini 93, 50041 Calenzano, Florence, Italy  
Tel: +39 055 2757079  
francesca.tosi@unifi.it





UNIVERSITY OF FLORENCE  
DEPARTMENT OF TECHNOLOGY  
OF ARCHITECTURE AND DESIGN  
"PIERLUIGI SPADOLINI"



**Scientific Director**  
Francesca TOSI

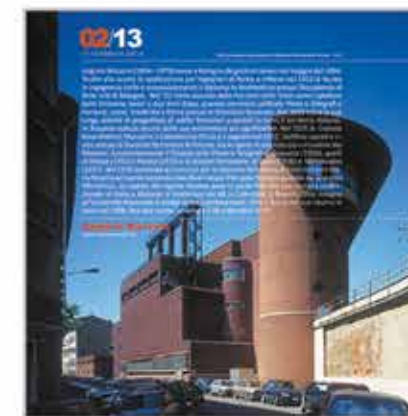
**Scientific Committee**  
Alberto DI CINTIO  
Paola GALLO  
Giuseppe LOTTI

**Coordination**  
Stefano FOLLESA  
Roberta MONTALBINI

**Editors**  
Francesco ARMATO  
Alessandra CARTA  
Elisa SEGONI  
Francesco SIMONI

**Collaborators**  
Alfredo DI ZENZO  
Maria Grazia GIARDINELLI  
Marilaine P. AMADORI  
Michela SARZOTTI

Period: May 10 - Feb. 13



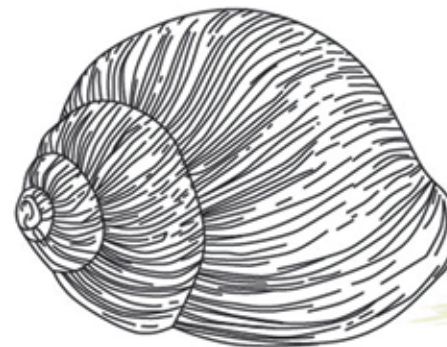
The Journal selects and publishes information about scientific competitions and events - conferences, congresses, conventions, seminars and workshops - of national and international importance in the field of Technology of Architecture and Design.

According to an interdisciplinary model, anything pertinent to technological research is also published.

## Technology of Architecture and Design Journal

**Abitare i Cambiamenti - Living Changes REFERENCES: Addresses | Telephone numbers | web**

TAeD - Department of Technology of Architecture and Design "Pierluigi Spadolini"- University of Florence  
Department of Architecture - DIDA  
Via san Niccolò 89/a - 95, 50125, Florence, Italy  
Tel: +39 055 2755300  
dida.unifi.it



# Abitare i Cambiamenti

ABITARE I CAMBIAMENTI



UNIVERSITY OF FLORENCE  
DEPARTMENT OF TECHNOLOGY  
OF ARCHITECTURE AND DESIGN  
"PIERLUIGI SPADOLINI"

#### Coordinators

Francesco ARMATO  
Mariagiulia BENNICELLI P.  
Stefano FOLLESA  
Claudia MASSACCESI  
Roberta MONTALBINI  
Matilde MONTALTI  
Marilaine POZZATTI A.  
Francesco SIMONI

#### Renowned experts

Vittorio IERVESE  
*University Modena R. Emilia*  
Fabio IRALDO  
*Iuav, Bocconi, S. Anna Pisa*  
Ugo LA PIETRA  
*Polytechnic of Design*  
Eleonora LUPO  
*Milan Institute of Technology*  
Edoardo MALAGIGI  
*Fine Arts Academy Florence*  
Andrea MORO  
*IiSBE Italy*

Period: Oct. 10 - Oct. 11

## A dialogue on living changes needs, implications, methods

The issue of the technical costs of construction is dealt with **Fabio IRALDO**, who is active in the areas linked to the relationship between economy, architectural design and interventions on the territory.

The theme is developed starting from the role of costs in relation to sustainability in the field of Architecture.

**"How much does it cost?":** the joint reflection interprets the possibility of answering this question as a prerequisite to a significant penetration in the construction industry of best practices under the profile of environmental, social and cultural qualities. The possibility of answering this question for customers and decision makers influences both professional and scientific practices.

The initial conclusions are summarized in two points:

- the research which deals with the theme of sustainability offers a meaningful contribution to decision making, including professional activities;
- the study of costs is an integral part of the notion of sustainability.

The adoption of innovative technologies, offering a significant increase of performance in terms of sustainability, generally includes an increase of technical building costs, but the analysis of the life cycle instead of that of the construction phase, reverses the result.

The second part of the reflection reaches two conclusions:

- the technical costs of construction influence general costs significantly;
- the "time" factor plays an important role in the cost analysis.

The research includes the definition of alternative techniques to be used in the realization of residential buildings, the evaluation of different options in terms of quality, the critical appraisal of different methodologies in order to determine technical construction costs.

## Abitare i Cambiamenti - Living Changes

Generates proposals about how Architecture can read and interpret the varied and changeable complexity of the relationship between man and the spaces he inhabits, in order to provide solutions to living requirements. Changes as a continuous need to model space to new lifestyles. It is an analysis of the evolution of connecting spaces according to that of social dynamics. It is a reflection on public space, sometimes residual - pocket space - sometimes space which lies between virtual and real cities, with a new role for interactive communication. Public space as a resource for the community, capable of developing a sense of belonging and identity, lost as a result of continuative processes or, in emergency conditions, as a result of processes concentrated in space and time.

Changes on an urban and building scale, where spaces are modified according to social evolution. In this framework, research develops the analysis of Social Housing, in relation to demographic changes and the demands of identity in a contemporary, global and local context: relationship between private and communal space; contribution of typological and technological innovation.

#### Key words

TRANSFORMATION  
COMMUNICATION  
IDENTITY  
QUALITY  
COSTS



## Abitare i Cambiamenti - Living Changes

**Rattaches REFERENCES: Addresses | Telephone numbers | Emails | web**

FACULTY OF ARCHITECTURE - University of Florence  
School of Architecture  
via della Mattonaia 14, 50121 Florence, Italy  
Tel: +39 055 2755/410 - 300  
[scuola@architettura.unifi.it](mailto:scuola@architettura.unifi.it)  
[architettura.unifi.it](http://architettura.unifi.it)



UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE

### RATTACHES History of Architecture: from Loss to Recuperation

The issue of the research, which was carried out during the Contemporary Architecture History course at the University of Florence - with professor Gianni PETTENA - is LOSS, what has been abandoned over time.

RATTACHES focuses on those basic aspects of Architecture which have been neglected in recent decades, and which have taken on a new role, with the aim of identifying the ways in which these aspects can currently be decoded.

Period: Oct. 98 - Oct. 99



### Variable climate on the project Principles and examples of the relationship between climate and architecture

The research interprets the general theme focusing on the specific relationship between climate and project, one of the aspects which is necessary to recuperate in the challenge facing contemporary Architecture.

Analysing the principles at the basis of this relationship, the research highlights meaningful examples of how it was historically expressed and of how it is recuperated, critically reviewed and reinterpreted in innovative form in recent interventions. Through the definition of key words, which titles lead to the fundamental themes of the relationship between climate and Architecture, the research deals with different problems to which these themes can be linked.

The study reveals how the climatic component constitutes an essential factor in the quality of the project, or rather, it's ability to find solutions for requirements which it must satisfy and for which it was created. Climate is not an independent parameter of Architecture, but an element which is part of the essence of the project itself. It is a variable of the project.

#### Key words

ORIENTATION  
SHAPE  
MATERIALS  
GREENHOUSE EFFECT  
PORTICOS  
SHADING  
CHIMNEY EFFECT  
WIND  
EARTH  
WATER  
LIGHT  
MIRRORS

## Rattaches

**Ville et Territoire REFERENCES: Addresses | Telephone numbers | web**

ENSAM - École Nationale Supérieure d'Architecture de Montpellier  
179 Rue de l'Esperou, 34093 Montpellier cedex 5, France  
Tel: + 33(0)467918989  
[montpellier.archi.fr](http://montpellier.archi.fr)



**ensam**

école nationale  
supérieure  
d'architecture  
de montpellier

#### Ville et Territoire

"Ville et Territoire" is a course held at the École Nationale Supérieure d'Architecture de Montpellier by Professor Jean-Paul VOLLE.

The activities of the course included the analysis of Montpellier's historic centre - Ecusson, for its planimetric shape - according to 5 key concepts:

#### POSITION

#### LIMITES

#### STRUCTURE ET FONCTION

#### IMAGE/REPRÉSENTATION

#### UN LIEU

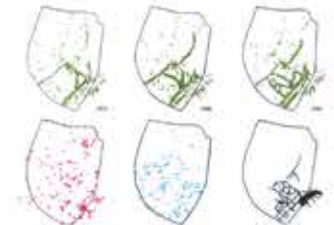
Period: Oct. 99 - June 00



POSITION



LIMITES



STRUCTURE ET FONCTION



IMAGE/REPRÉSENTATION



UN LIEU

#### Ecusson

#### A head too small for a body too big

The research dealt with the historical evolution of urban transports, of the diverse functions within the Ecusson, of the function of the Ecusson itself in the city and of the main attractions which surround the historic centre.

The place chosen to focus on a specific investigation - "UN LIEU" - was the Jardin des Plantes, the botanical garden of the city, created by Henry IV as a support for the ancient Faculty of Medicine.

The place represents an opening of the city, in physical terms - outside the walls - in scientific and cultural terms - innovation for the study of Medicine - and political terms - precious place, born externally to the city's defensive walls thanks to the stable administrative new situation of the country.

The research and the specific investigation of the Jardin des Plantes highlight the disproportion between the size of the centre and that of the city and its recent expansion on an economic, urban, cultural and administrative level.

The Ecusson can no longer carry out all the traditional functions of the urban centre of a city, which, with tramlines that reach outside the municipality, the urban expansion towards the sea and the great impulse of the international Mediterranean techno-polis, is now the fourth largest city in France and a relevant European economic centre.

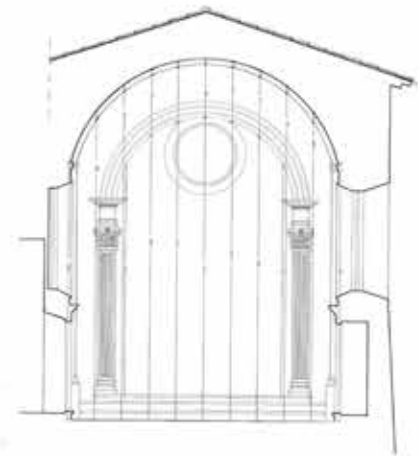
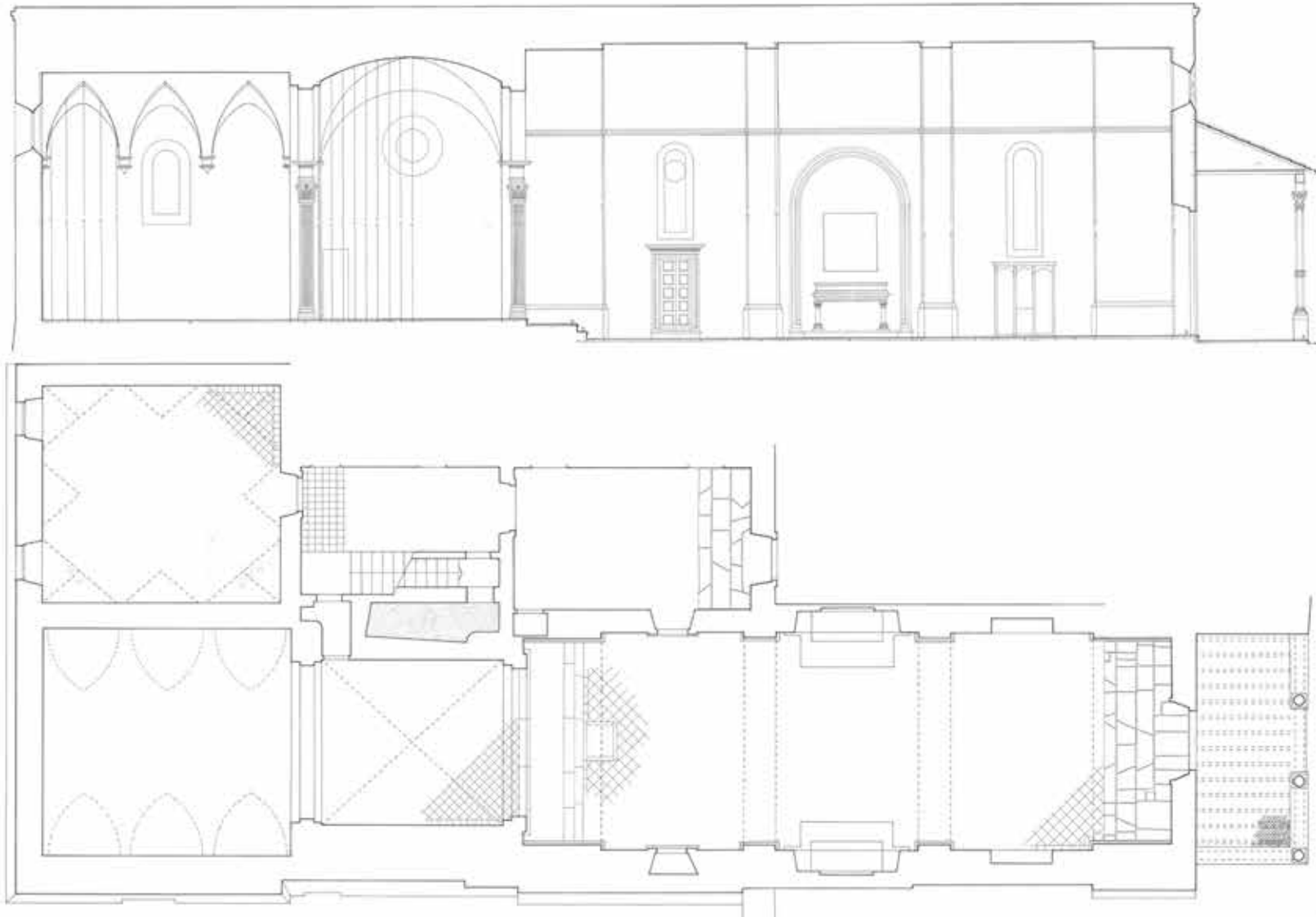
The need to expand and enlarge the city centre towards near commercial, cultural and administrative poles is evident. The area defined by the city walls assumes the role of "centre within the centre", and its elevated historic value must be promoted through specific interventions such as its complete pedestrianization.

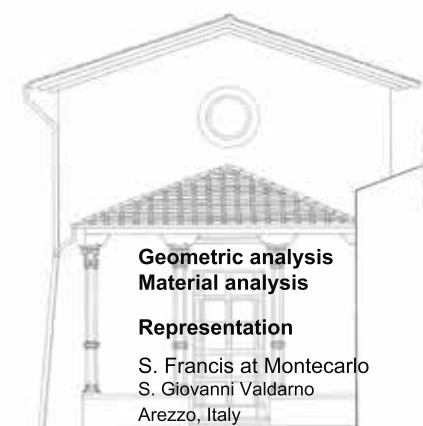
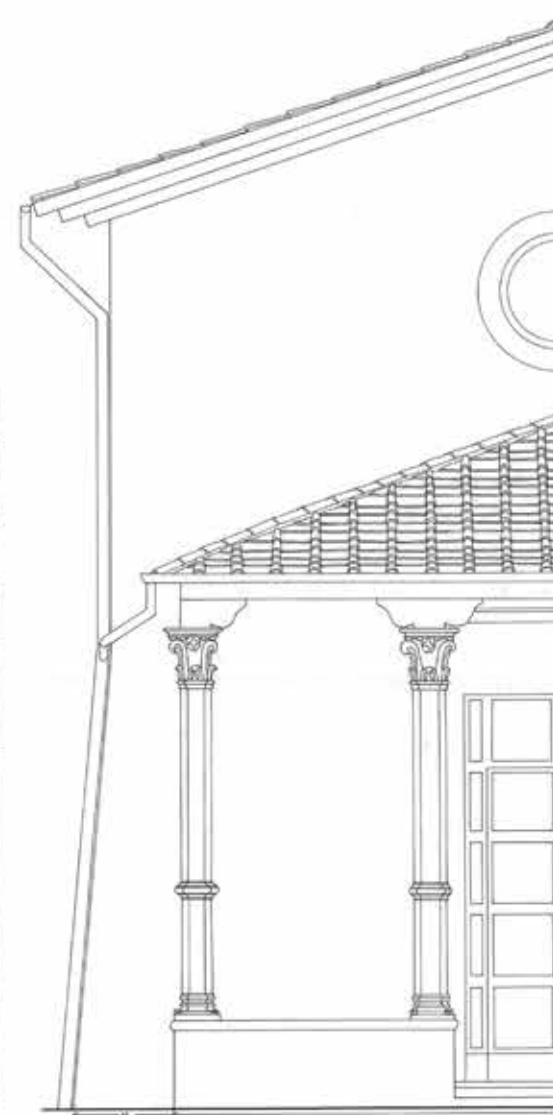
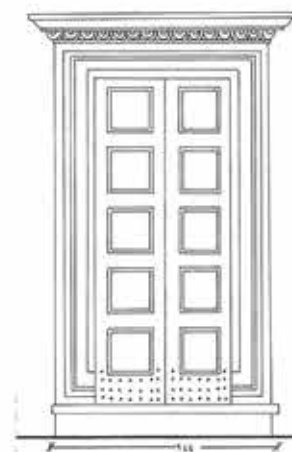
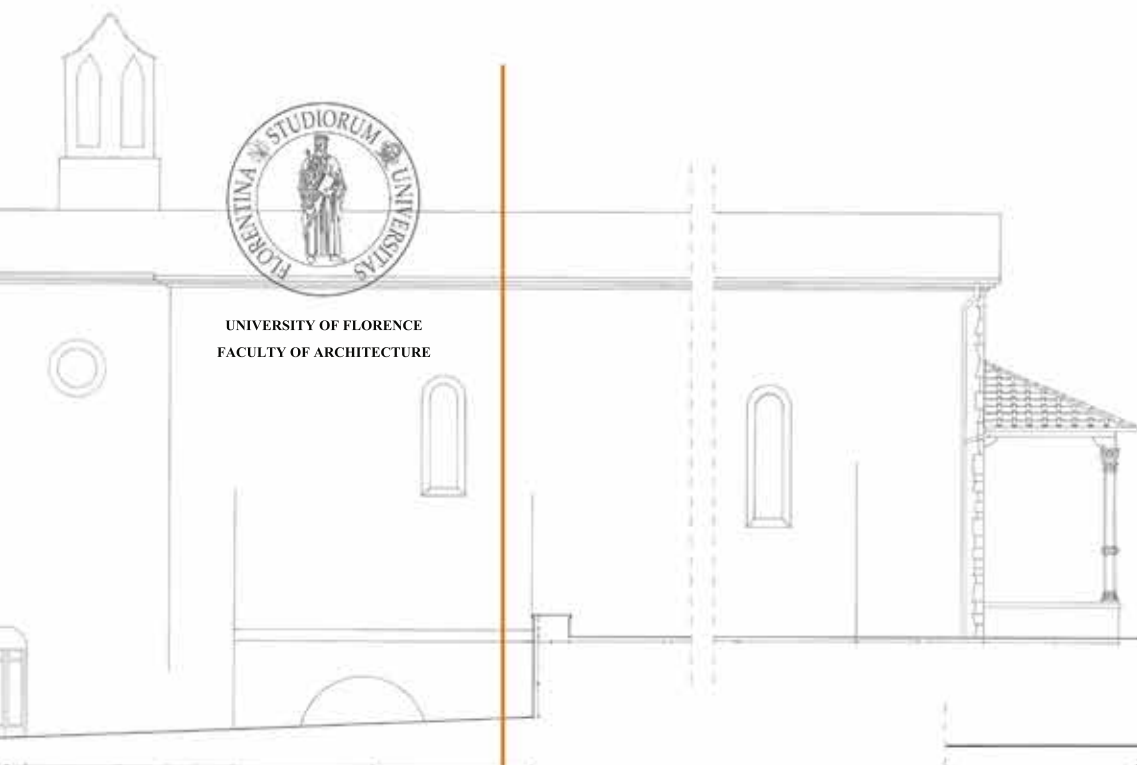
## Ville et Territoire

**Heritage REFERENCES: Addresses | Telephone numbers | Emails | web**

FACULTY OF ARCHITECTURE - University of Florence

School of Architecture, Via della Mattonaia 14, 50121 Florence, Italy | Tel: +39 055 2755/410-300 | [scuola@architettura.unifi.it](mailto:scuola@architettura.unifi.it) | [architettura.unifi.it](http://architettura.unifi.it)





**Geometric analysis**  
**Material analysis**

**Representation**

S. Francis at Montecarlo  
S. Giovanni Valdarno  
Arezzo, Italy

Period: Oct. 92 - June 93

**Heritage: knowing, conserving, recovering**

## PROFESSIONAL ACTIVITIES

- 01. Certification Protocol for Perú
- 02. Torre Verde Lima
- 03. Social Housing
- 04. ABITA Master's Course
- 05. Brunelleschi | Humanistic Library of the University of Florence

## PROFESSIONAL ACTIVITIES index

**PROFESSIONAL ACTIVITIES**

**PROFESSIONAL**

**Certification Protocol REFERENCES: Addresses | Telephone numbers | Emails**

ABITA PERÚ Asociación Civil  
Sargento Lores 110, Malecon Tarapaca, Iquitos, Perú  
President: PhD Arch. Fernando RECALDE LEON  
Via Pippo Spano 15, 50129 Florence, Italy  
Tel: +39 055 5048394  
[fernando.recaldeleon@unifi.it](mailto:fernando.recaldeleon@unifi.it)  
[feridea@hotmail.com](mailto:feridea@hotmail.com)



**Torre Verde Lima REFERENCES: Addresses | Telephone numbers | Emails**

ABITAR Green Business

Grimaldo del Solar 318, Miraflores 17, Lima, Perú

Director: PhD Arch. Fernando RECALDE LEON

Via Pippo Spano 15, 50129 Florence, Italy

Tel: +39 055 5048394

[fernando.recaldeleon@unifi.it](mailto:fernando.recaldeleon@unifi.it)

[feridea@hotmail.com](mailto:feridea@hotmail.com)

**ABITA®**  
green business



#### NEW CENTRAL HEADQUARTERS FOR THE METROPOLITAN BANK OF LIMA CITY HALL

**Caja Metropolitana** is the Lima City Hall bank. The Torre Verde Lima project includes the realization of the new headquarters of the bank. ABITAR Green Business deals with the management and financial consultancy for the project.

The activity for Torre Verde Lima included SUPPLIER RELATIONSHIP AND COMPANY ASSISTANCE for the realization of estimates necessary for the ECONOMIC AND FINANCIAL CONTROL of the project.

Period: May - July 13



#### Financial control - Relationship with companies and suppliers

- Executive implications: coordination between companies and architectural and structural designers
- Geothermal, VRV, experimental Mini Wind Power System, Solar Cooling: systems installation and maintenance costs, building management costs
- Ventilated Façade: bulk supply of components
- Green Façades and Roofs: integration of systems with renewable energy plants
- Flooring, sound absorbent ceilings, external, internal and safety doors and windows, fittings, tropical wood for fittings, dry walls, parapets in steel and glass
- Internal and panoramic lifts, service elevators
- Sanitary water recycling System
- Home automation and safety: systems and control room
- Internal and external lighting: components with an efficiency similar to LED lighting - not available at affordable prices in Perú
- Furniture: main entrance, Auditorium, bank tills, offices, Management flat, rooftop eco-lounge

#### COMPANIES INVOLVED:

**Grupo Graña y Montero**, [gym.com.pe](http://gym.com.pe)  
**PRISMA Ingenieros**, [prismaing.com](http://prismaing.com)  
**Energesis Group**, [energesis.es](http://energesis.es)  
**WAIIRA energía renovable**, [waira.com.pe](http://waira.com.pe)  
**CORPORACIÓN MIYASATO**, [miyasato.com.pe](http://miyasato.com.pe)  
**arve**, [arve.com.pe](http://arve.com.pe)  
**Corporación Las Dos Torres**, [corp2torres.com](http://corp2torres.com)  
**IBERO Perú**, [iberoperu.com.pe](http://iberoperu.com.pe)  
**OTIS Elevator Company**, [otisworldwide.com](http://otisworldwide.com)  
**ECO3Ambiental**, [eco3ambiental.com](http://eco3ambiental.com)  
**accuaproduct**, [accuaproduct.com](http://accuaproduct.com)  
**AcecoTI**, [acecoti.com.br](http://acecoti.com.br)  
**Promelsa**, [promelsa.com.pe](http://promelsa.com.pe)

## Torre Verde Lima

**Social Housing REFERENCES: Addresses | Telephone numbers | Emails | web**

MSA - Marco SALA Associates - Architecture Practice  
Via Pippo Spano 15, 50129 Florence, Italy  
Tel: +39 055 5048394  
[info@msassociati.it](mailto:info@msassociati.it)  
[msaassociati.it](http://msaassociati.it)

AREZZO CASA s.p.a.  
Via Margaritone 6, 52100 Arezzo, Italy  
Tel. 0575399311  
[info@arezzocasa.net](mailto:info@arezzocasa.net)  
[arezzocasa.net](http://arezzocasa.net)

MUNICIPALITY OF MONTEVARCHI - Arezzo - Italy  
Piazza Varchi 5, 52025 Montevarchi - Arezzo, Italy  
Tel: +39 055 9108/1-246  
[comune.montevarchi.ar.it](http://comune.montevarchi.ar.it)



Comune di Montevarchi

**24 NEW RESIDENTIAL  
PUBLIC HOUSING UNITS**

Period: Oct. 08 - Dec. 09



## Social Housing

### Social Housing for Arezzo Casa s.p.a. in Montevarchi - Arezzo, Italy

The company Arezzo Casa s.p.a was set up by the municipalities of the province of Arezzo. It promotes interventions of Public Residential Housing and it is responsible for the management of the social housing heritage belonging to the associated municipalities.

The intervention foresees the construction of 24 new social housing units in the municipality of Montevarchi - Arezzo.

#### Professional Consultancy

- relations with Arezzo Casa s.p.a for the definition of the initial framework of requirements
- relations with clients - Arezzo Casa s.p.a and the Administration of the town of Montevarchi - for the definition of the project Brief regarding cuts and distribution characteristics of the housing units
- relations with suppliers of technical services for plants and connections to public utility services
- study of the urban framework of the project:
  - integration into the transports system
  - access to public transport
  - access to municipal services
  - access to sports facilities
  - access to green areas
  - proximity to productive areas
  - proximity to commercial services
  - urban context and neighbourhood analysis
  - continuity with the existing residential fabric
  - references to building typologies in the context
  - reinterpretation of tradition in an innovative key

**ABITA MASTER'S COURSE REFERENCES: Addresses | Telephone numbers | Emails | web**

ABITA MASTER'S COURSE - Bio-ecological Architecture and Technological Innovation for the Environment  
Via San Niccolò 89/a - 95, 50125 Florence, Italy  
Tel: +39 055 27553/22-28-32-34  
[centro@abita.unifi.it](mailto:centro@abita.unifi.it)  
[centroabita.unifi.it](http://centroabita.unifi.it)

## ABITA Master in Bio-ecological Architecture and Technological Innovation for the Environment

Tutoring for ABITA  
II Level European  
Master's Course

Period: Oct. 10 - July 11



Architettura Bioecologica e Innovazione Tecnologica per l'Ambiente

**ABITA TAD**

**MASTER II LIVELLO - X EDIZIONE**  
**NOVEMBRE 2012- APRILE 2014**

Il Centro Interuniversitario ABITA, Università degli Studi di Firenze, organizza la X edizione del Master di II livello ABITA, articolato in 8 moduli specialistici, con l'obiettivo di formare professionisti esperti nel controllo del progetto bioclimatico e nella gestione sostenibile del territorio.

**MODALITÀ E DURATA**  
Il percorso formativo di durata annuale, prevede un primo periodo di lezioni frontali comprensive di seminari, laboratori e didattica interattiva, da svolgersi unitamente alle ore di studio e di applicazione individuali. Al termine della didattica frontale, seguirà un periodo di tirocini (minimo 3 mesi), da svolgersi presso aziende, studi professionali, enti pubblici o privati in Italia e/o all'Estero. Il percorso formativo, di complessive 1500 ore, pari a 70 CFU, si concluderà con la discussione della Tesi finale. La quota di iscrizione al Master è di € 6.000, suddivisa in tre rate. E' consentita l'iscrizione ai singoli moduli. Ciascun modulo è di 6 CFU, pari a 48 ore, con un costo di € 792.

**MODULI DIDATTICI**  
Il Master avrà inizio l'8 novembre 2012, e la didattica frontale si concluderà il 21 giugno 2013. Le lezioni si terranno nei giorni di giovedì e venerdì.

- M1 Architettura Bioclimatica
- M2 Progettazione Sostenibile per l'Ambiente Costruito
- M3 Gestione delle Risorse Naturali: Acqua, Verde e Materiali
- M4 Progettazione Integrata dei Sistemi: Fotovoltaico e Solare termico
- M5 Certificazione e Simulazione energetica degli Edifici
- M6 Illuminazione Naturale e Artificiale
- M7 Pianificazione Urbana Sostenibile
- M8 Valutazione Economica dei progetti

**TIROCINIO** luglio 2013 - aprile 2014  
**TESI** ultima sessione aprile 2014

**SEDE CORSO**  
Università degli Studi di Firenze, Dipartimento di Tecnologie dell'Architettura e Design "P. Spadolini", Via San Niccolò 93 - 50125 Firenze

**SONO APERTE LE ISCRIZIONI**  
scadenza iscrizione Master  
**5 Ottobre 2012**

**ABITA - CENTRO INTERUNIVERSITARIO - SEDE DI FIRENZE**  
via S. Niccolò, 93 50125 Firenze  
Tel. 055 2055 529/556-568 Fax. 055 2055 569  
email: centro@abita.unifi.it

**www.centroabita.unifi.it**

## ABITA Master's Course

### ABITA II Level European Master's Course

The Master's course proposes a post graduate professional specialization on the issues of sustainable Design and conscious Management of energy and environmental resources.

For more than ten years it has involved six of the most prestigious European universities and it is one of the most internationally renowned Masters, with increasing job opportunity success for the participants.

The course lasts one year, the first part is made up of lectures, workshops, seminars, interactive study and individual application; then, for its highly professionalization, there is a period of internships at companies, research centres, public institutions, and experienced professional practices.

### ABITA Masters's Course Tutoring

The Tutor provides the necessary logistic support to teachers and participants.

I also taught one of the frontal lectures of the Master's Course.

Moreover, being a Tutor gave me the opportunity to follow the lessons of the course.

**Brunelleschi REFERENCES: Addresses | Emails | web**

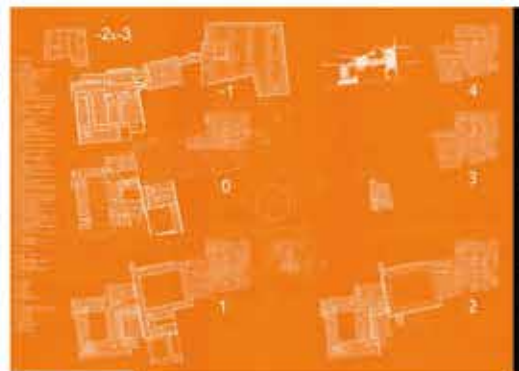
STUDIO PARIGI - Architecture Practice  
Via Ettore Carafa 9, 50133 Florence, Italy  
[info@andreaparigi.it](mailto:info@andreaparigi.it)  
[andreaparigi.it](http://andreaparigi.it)



## CONTEST

DIRECTOR:  
Architect **Andrea PARIGI**

Period: Jan. - Nov. 05



## New Humanistic Library of the University of Florence New Piazza Brunelleschi Brunelleschi Square

The request involved:

- THE TOTAL RE-PLANNING OF THE EXISTING BUILDING to be transformed in the new Humanistic Library of the University of Florence
- The design of an extension of the complex with the ADDITION OF A NEW BUILDING, connected to the existing part, and occupying a part of the square
- The RE- PLANNING OF THE SQUARE
- The design of an UNDERGROUND CAR PARK (at least 300 parking spaces) under the square

## Professional Consultancy

- Development project for the existing complex with a new distribution of functions and new use of spaces:

open shelf reading rooms  
multimedia and multifunctional rooms  
conference rooms  
exhibition rooms  
offices for research activities  
administration offices

- Design project for the square: paving and seating platforms

- Integration in the system of urban transports on a metropolitan and neighbourhood scale

## Brunelleschi | Humanistic Library of the University of Florence

## PORTFOLIO PROJECTS

### URBAN

- 01. En el Centro del Mundo - At the Centre of the World
- 02. Sustainable Transports

### RESIDENTIAL

- 03. Abitare "all'italiana" - Living the Italian way
- 04. 3 sites, 3 buildings/1 project, 1 place
- 05. Buen Retiro
- 06. Mediterranean Social Housing
- 07. El escondido de Huampaní
- 08. In the Equatorial forest
- 09. Residential/Urban
- 10. The site/the project

### EDUCATION

- 11. Company nursery school
- 12. Retrofit for school buildings

### RESEARCH - INDUSTRY

- 13. Test Cell: from Thermodynamics to the dynamic project
- 14. Sustainable Start-up
- 15. Business Incubators

### CULTURE

- 16. Auditorium-City of Music: project
- 17. Auditorium-City of Music: studies
- 18. St. Dominic and St. Francis Monastery
- 19. Links for scientific dissemination

### COMMERCIAL

- 20. Eco-mall
- 21. Eco-resort in the Amazon

### MULTIFUNCTIONAL

- 22. Polimoda Campus
- 23. Waterfront

## PROJECTS index

**PORTFOLIO PROJECTS**

**PROJECTS**

### PRIVATO / mq

|      |      |      |             |
|------|------|------|-------------|
| 5775 | 9810 | 6960 | 3000        |
| 75mq |      | 90mq | 120mq 250mq |

25545

tot



### PUBBLICO / mq

|      |            |        |                   |
|------|------------|--------|-------------------|
|      | auditorium | uffici | biblioteca        |
| 3300 | 800        | 800    | 700               |
|      | scuola     | chiesa | banca ambulatorio |
|      |            |        | 500 300           |

7160

tot

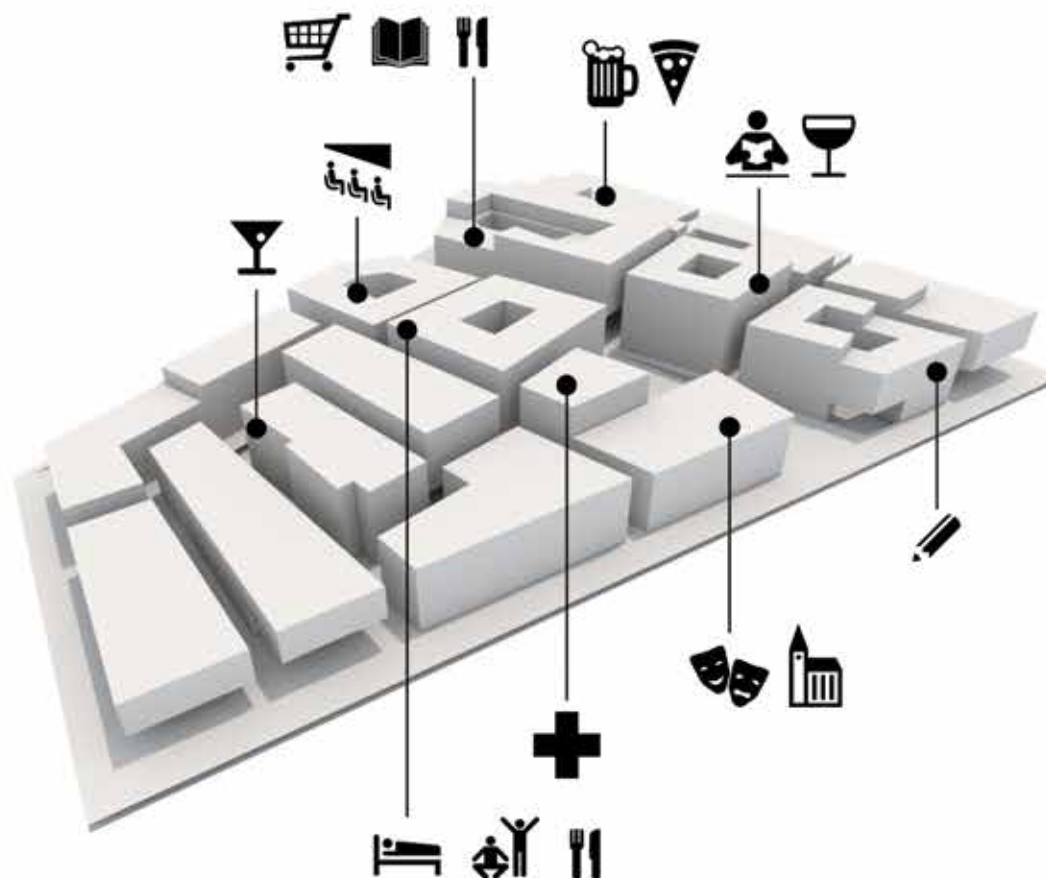


### SERVIZI / mq

|      |       |            |           |         |
|------|-------|------------|-----------|---------|
|      | hotel | cinema     | palestra  | info    |
| 2500 | 1800  | 900        | 800       | 800     |
|      | mall  | ristoranti | benessere | bar     |
|      |       |            |           | 400 400 |

8480

tot





UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE

*Environmental Planning Course*

**Project**  
**Ciudad Solar**  
**en el Centro**  
**del Mundo**  
Solar City  
at the Centre of the World

new sustainable  
neighbourhood **along the**  
**Equator**  
in Quito - Ecuador

**Students**

Marco AIELLO  
Stefano ANGELONI  
Margherita BASSO  
Edoardo MANCINI

**Assistant**

Francesco SIMONI

**Location**

Quito - Ecuador

**Date**

June 12



- il segno  
dell'equatore è una  
centralità forte su  
cui si affacciano gli  
edifici pubblici



- quartiere  
pedonale con  
alcune strade  
carrabili solo per i  
residenti e una  
strada vhe  
contorna il lotto



- sistema di isolati  
ognuno ricco di  
corti e piccole  
piazze



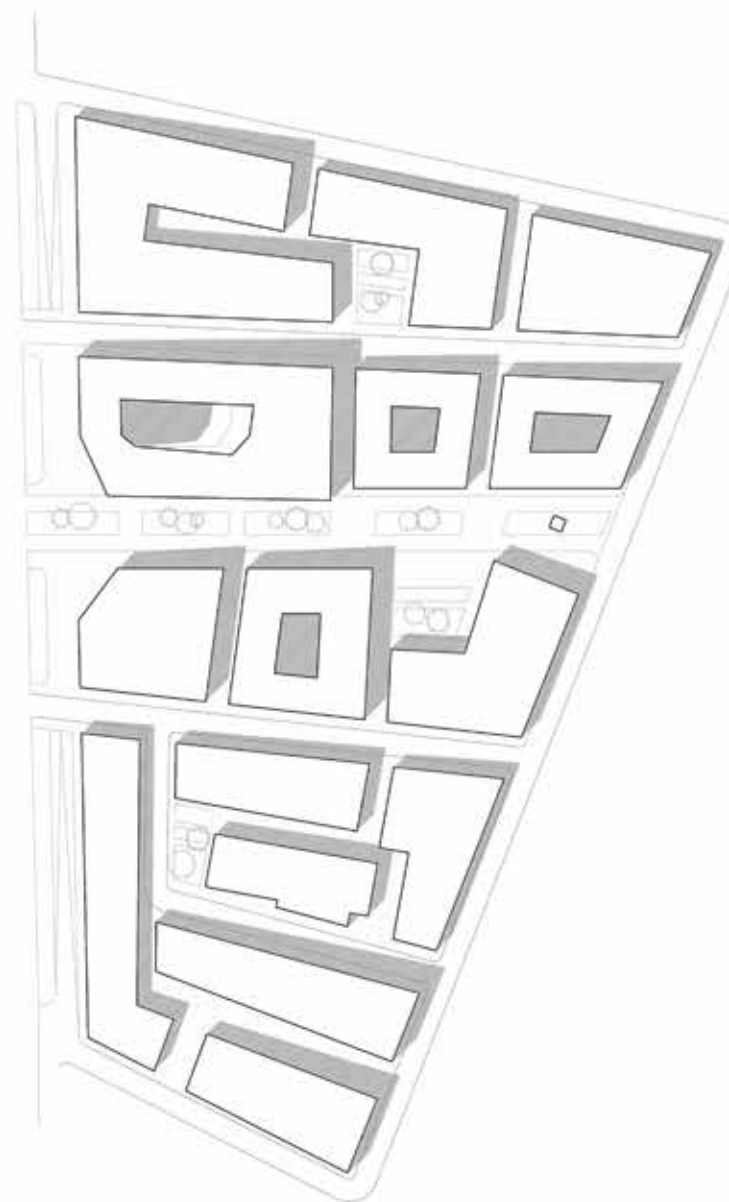
- spazi verdi in  
quota collegati da  
passerelle per  
supplire alla  
carenza di giardini



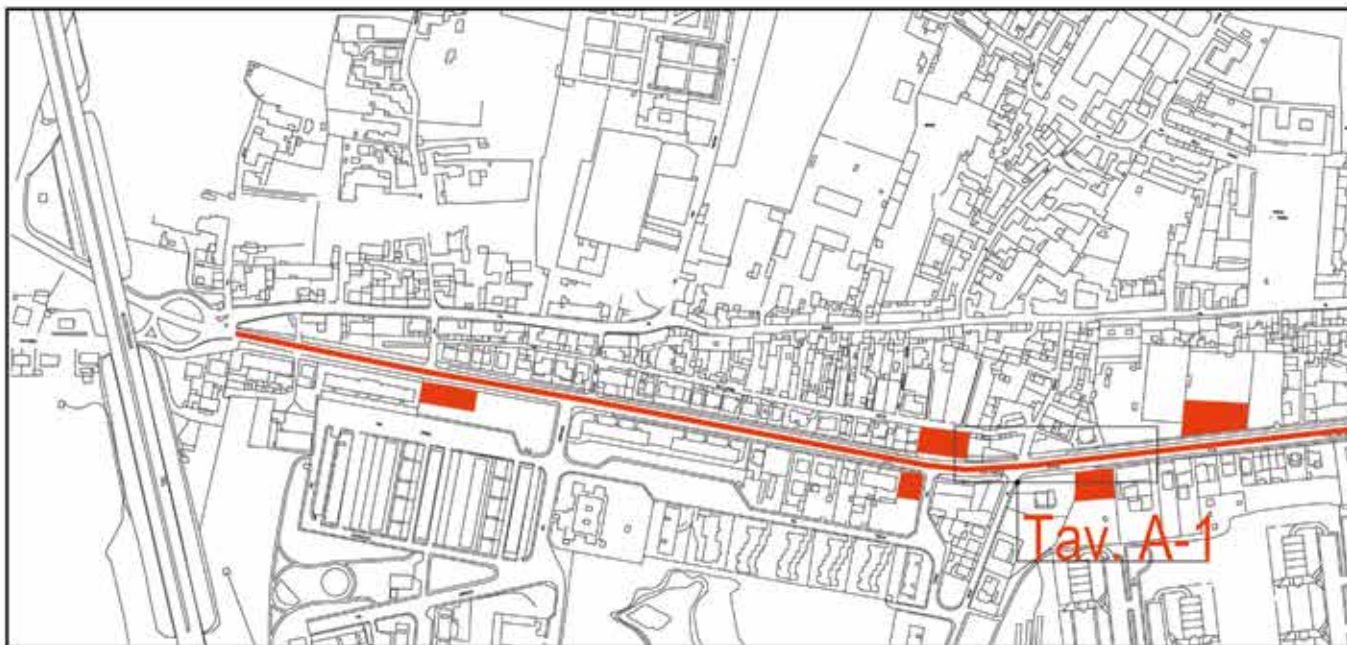
- gli aggetti degli  
edifici creano  
percorsi pedonali  
riparati dal sole



- percorsi che  
tagliano il  
quartiere e  
permettono la  
ventilazione  
naturale



**En el Centro del Mundo - At the Centre of the World**



Project: public transport protection and integration to existing and planned car parks



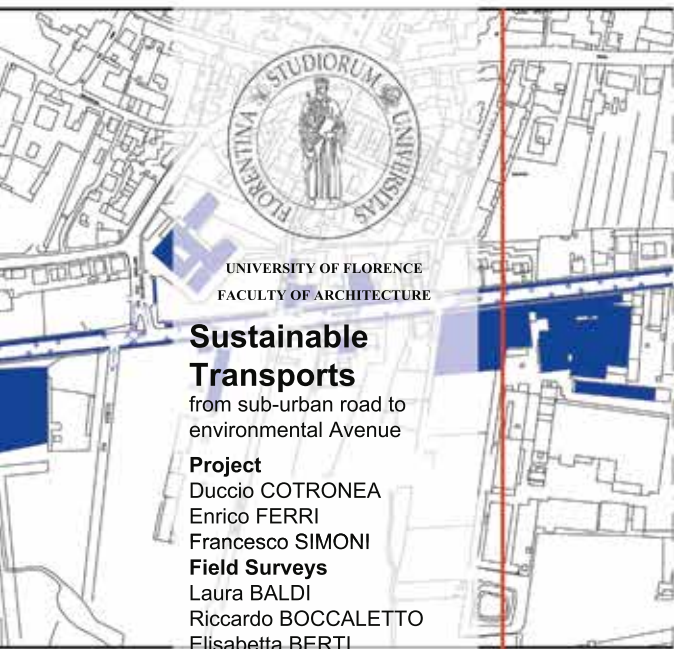
Analysis: Transports - urban functions



Project: public transport protection, speed limitations, footpaths, integration of green areas



Project



## Sustainable Transports

from sub-urban road to environmental Avenue

### Project

Duccio COTRONEA

Enrico FERRI

Francesco SIMONI

### Field Surveys

Laura BALDI

Riccardo BOCCALETTO

Elisabetta BERTI

Paola CANTALINI

Daniela CATTE

Silvia CEROFOLINI

Vanessa COLIVICCHI

Duccio COTRONEA

Katuscia EGIZIANO

Angelica FABIANI

Enrico FERRI

Stefano FALCO

Massimo LUCACCINI

Michele NARDINI

Raffaele PAGLIACCI

Maira PARRUCCI

Sara PIZZO

Giuseppe PONZ DE LEON

Luca POSANI

Francesca SEVERI

Francesco SIMONI

Elisa TERZUOLI

### Location

Florence - Italy

### Date

June 99

Details



Analysis : public transport infrastructures and quality of the service

| Tempo di permanenza in coda (intorno P.2009.30) |       |       |          |          |          |       |       |          |          |          |
|-------------------------------------------------|-------|-------|----------|----------|----------|-------|-------|----------|----------|----------|
| Orario partenza:                                | 07.47 | 07.57 | 08.22    | 08.47    | 09.11    | Media | Media | Media    | Media    | Media    |
| 1° P.le della Fortezza Nuova                    |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 2° P.le della Fortezza Nuova                    |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 3° P.le della Fortezza Nuova                    |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 4° P.le della Fortezza Nuova                    |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 5° P.le della Fortezza Nuova                    |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 6° P.le della Fortezza Nuova                    |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 7° P.le della Fortezza Nuova                    |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 8° P.le della Fortezza Nuova                    |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 9° P.le della Fortezza Nuova                    |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 10° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 11° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 12° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 13° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 14° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 15° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 16° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 17° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 18° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 19° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 20° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 21° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 22° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 23° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 24° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 25° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 26° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 27° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 28° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 29° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 30° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 31° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 32° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 33° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 34° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 35° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 36° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 37° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 38° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 39° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 40° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 41° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 42° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 43° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 44° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 45° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 46° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 47° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 48° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 49° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |
| 50° P.le della Fortezza Nuova                   |       |       | 00.00.00 | 00.00.00 | 00.00.00 |       |       | 00.00.00 | 00.00.00 | 00.00.00 |

Monitoring: field surveys

## Sustainable Transports

### A new boulevard for Florence

Low impact approach - system and network maximization

#### monitoring

survey on the use of public and private transport

analysis of transport infrastructures and urban functions - journeys

#### constant calibration of private transport

real time management of traffic light cycles

#### protection of public transport

one/two way preferential lanes

preferential lanes at traffic lights

traffic light cycles - giving way to public transport

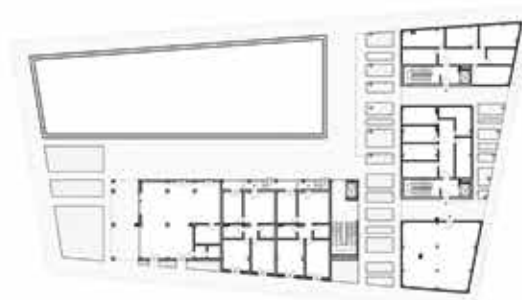
#### bike and pedestrian protection

speed limits and protection of pedestrian paths and crossings

#### integration of systems - inter-modal distribution

car parks integrated system

exchanging transport: bike, pedestrian, public and private



Pianta piano terra



Pianta piano primo



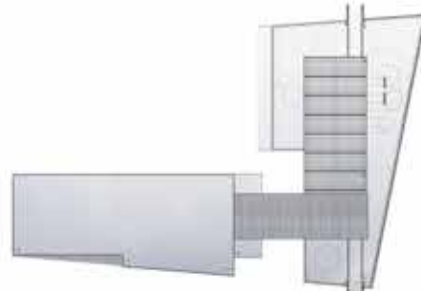
Pianta piano secondo



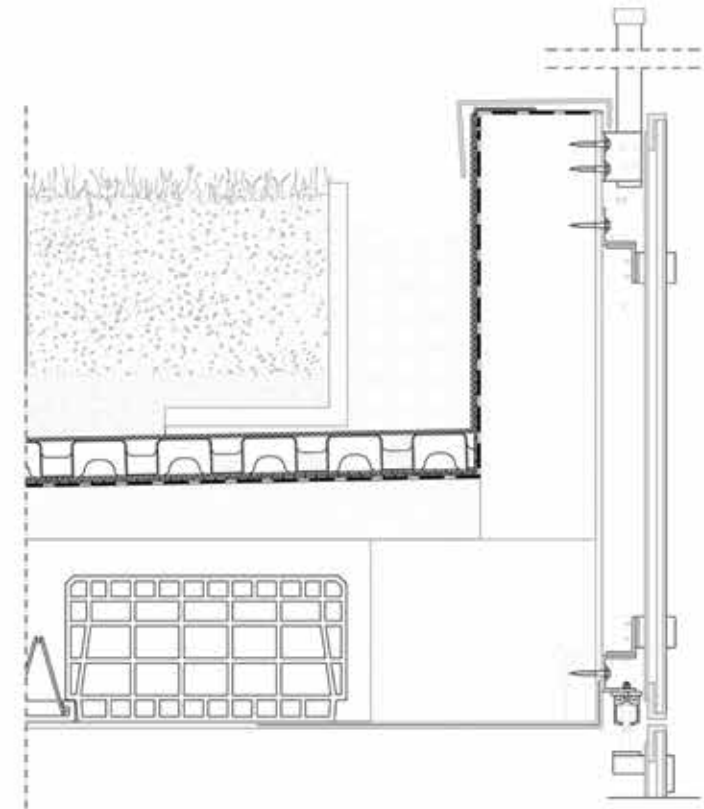
Pianta piano terzo



Pianta piano quarto



Pianta copertura



### “all’italiana”- the Italian way

- building typology
- living units distribution terms
- home - shops - local café integration
- the square, the clearing, the pedestrian area
- the loggia, the terrace
- the building technique
- sliding doors and windows - revisiting shutters/persiana
- common use of rooftop with loggias



UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE

*Environmental Planning Course*

**Project**

**Residential  
buildings**

in the "Solar City at the  
Centre of the World" - new  
sustainable neighbourhood  
along the Equator in Quito -  
Ecuador.

**Students**

Marco AIELLO  
Stefano ANGELONI  
Margherita BASSO  
Edoardo MANCINI

**Assistant**

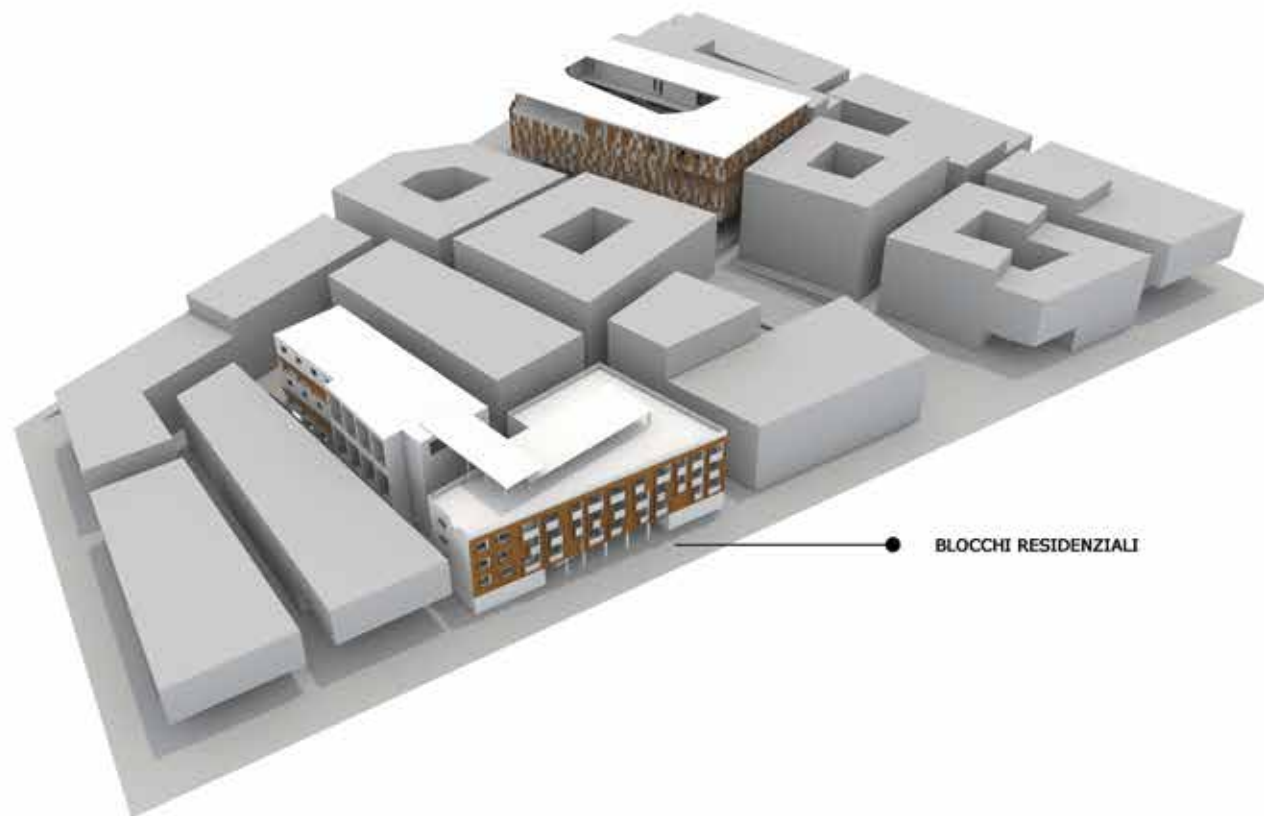
Francesco SIMONI

**Location**

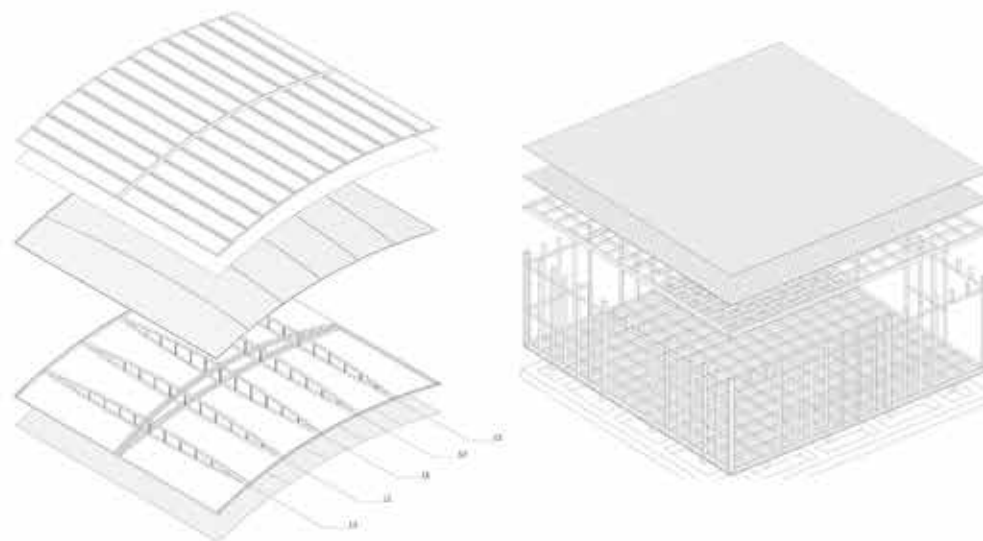
Quito - Ecuador

**Date**

June 12



**Abitare "all'italiana" - Living the Italian way**





UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE

Environmental Planning Course

## Project Single-family homes

tower type  
garden roof type  
patio type

### Students

Sara CAPPELLI  
Niccolò GUERRINI  
Alessandro FALASCHI  
Francesco FERRETTI

### Assistant

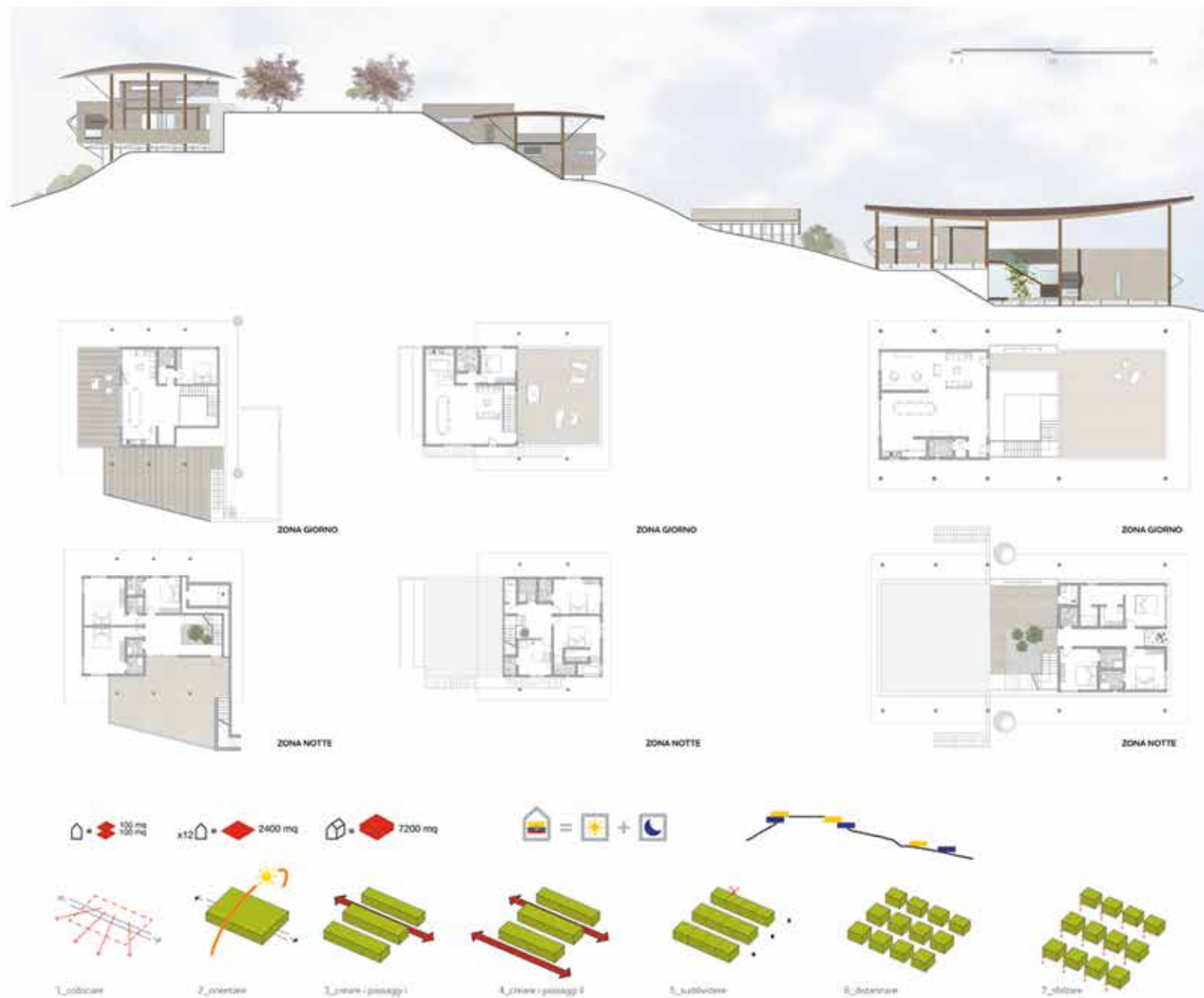
Francesco SIMONI

### Location

Saiananda  
Bahía de Caráquez - Manabí  
Ecuador

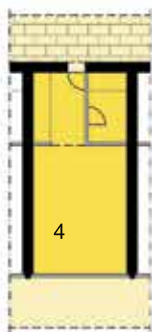
### Date

June 12



3 sites, 3 buildings/1 project, 1 place

01. master bedroom
02. children's bedroom - 2 twins
03. family members suites
04. guest families suites (3)
05. housekeeper's bedroom
06. living room
07. dining 24 people
08. kitchen
09. storeroom
10. library/office
11. home theatre
12. billiard room
13. swimming pool
14. sauna
15. gym
16. outdoor Jacuzzi
17. sunroom
18. laundry
19. outdoor furniture storage
20. machinery storage
21. drying kiln
22. large vehicle parking space
23. covered parking spaces
24. parking spaces
25. phytodepuration



guest suite  
model



## Holiday home

summer home on farm estate

### Project

Francesco SIMONI

### Client's requests

The client, owner of a farm estate, decided to use it for the summer holidays of the family, with two twin children, the parents and the friends.

The location is far from big cities and lacks specific attractions: the potentiality is found in the landscape and the organic produce of the farm.

The home is only for summer holidays and must allow to welcome many guests with their families, providing an independent accommodation for each one of them and offering some recreational infrastructures: big swimming pool, home theatre, billiard room.

The project must include shelters for the machinery and spaces for the farm estate production.

### Strategies

- landscape impact:
  - 1 floor
  - flat green roofing
- passive cooling:
  - massive/light envelope
  - overhangs/protection
  - green courtyards
  - transverse ventilation

### Location

Monasterace  
Reggio Calabria - Italy

### Date

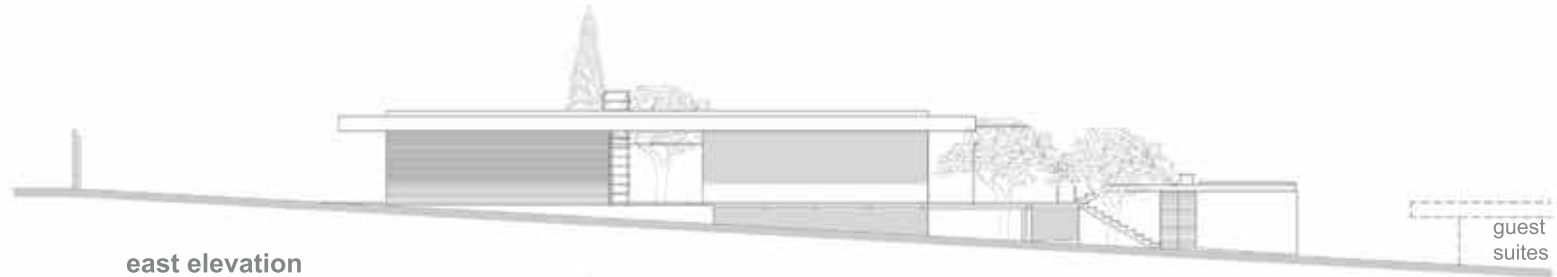
Jan. 14



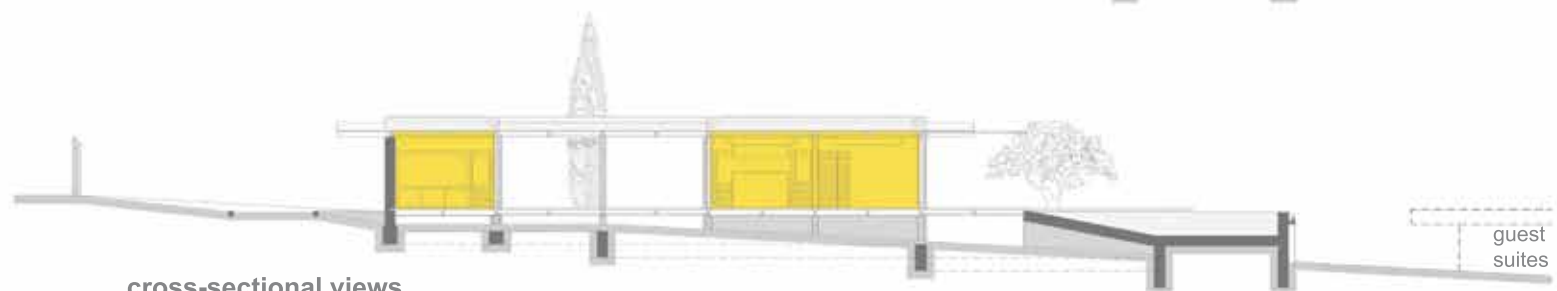
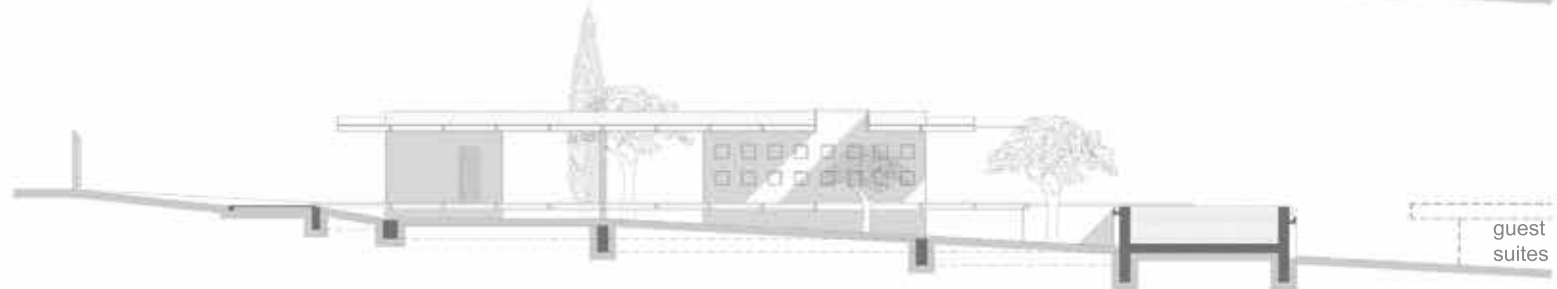
north elevation



south elevation

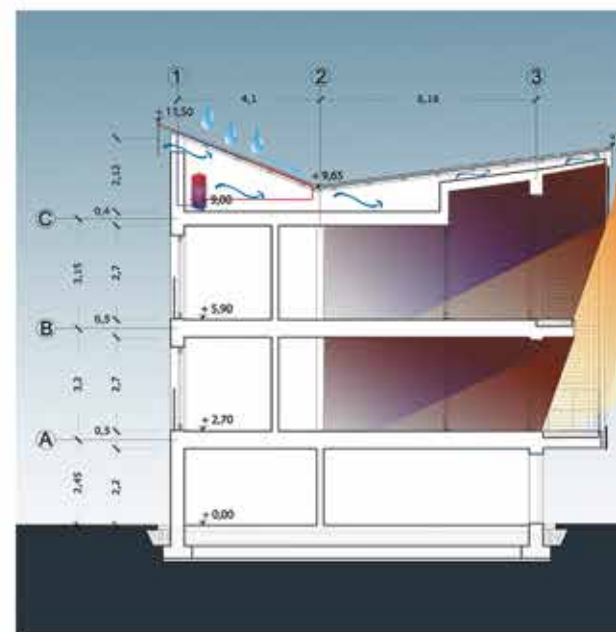
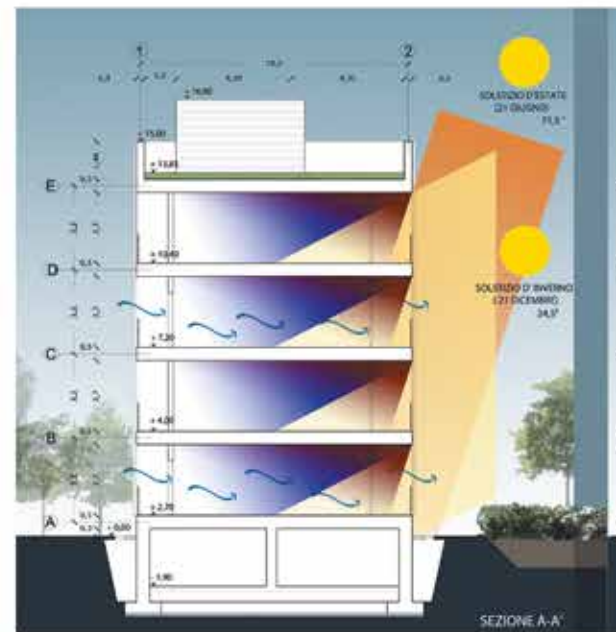
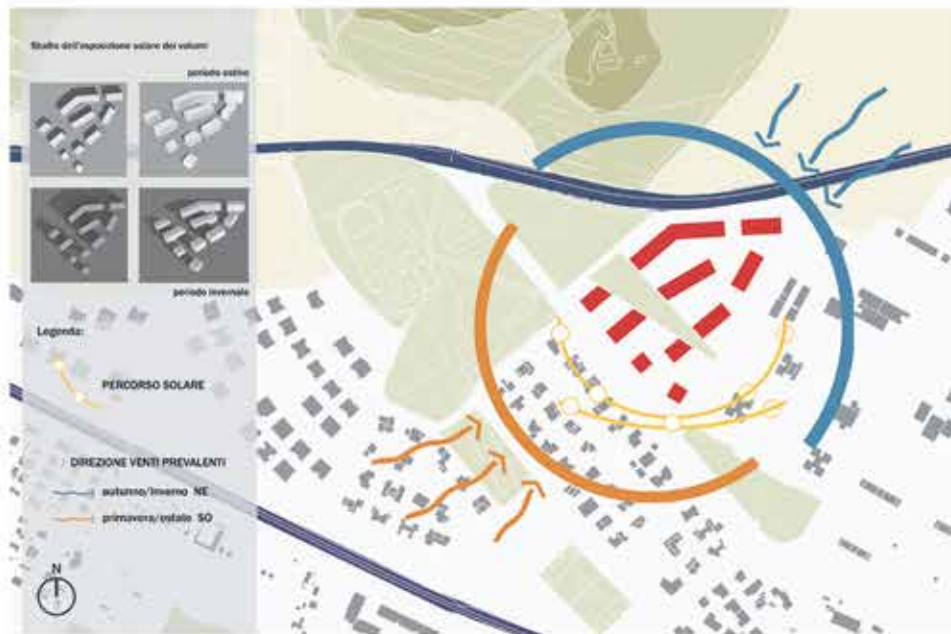


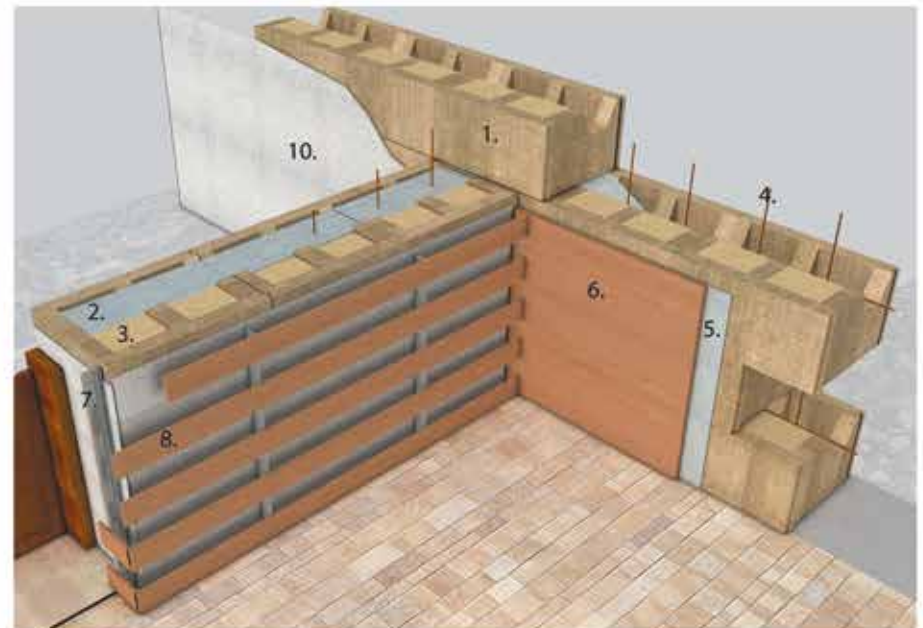
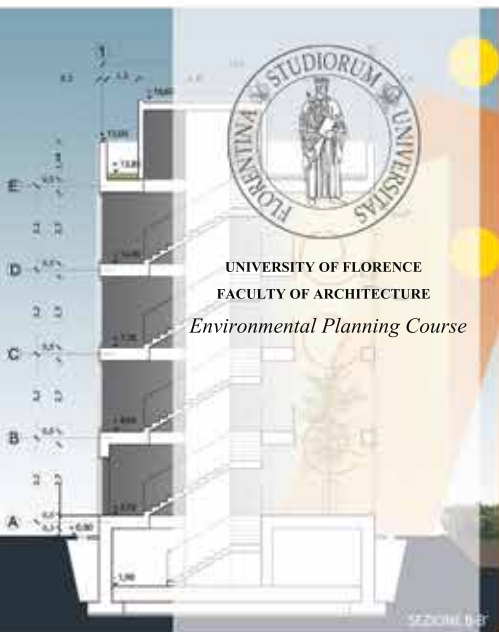
east elevation



cross-sectional views

Buen Retiro





## Mediterranean Social Housing

### 1. Area access control

### 2. 33 single-family villas

2 types, 4 type variations, 23 size, distributive and executive versions.

For each villa: Ground floor: entrance hall, living room, dining room, kitchen, bathroom | First floor: 4 double bedrooms - min. 14 sq. m, on suite | Basement: studio - min. 14 sq. m, bathroom, double bedroom - min. 14 sq. m, with bathroom and laundry, garage - 2/3 parking places.

#### Surface:

- total project 11.144 sq. m

- average for single villa 337,7 sq. m

### 3. Club

Café 300 sq. m | Auditorium 320 seats, backstage, technical cabins | SPA 350 sq. m | Nursery School 300 sq. m | Multimedia library 350 sq. m, 150 workstations.

**Total surface 2000 sq. m**

### 4. Bio-clinic - detached raised part from existing building

accommodations, care services, common spaces.

**Total surface 800 sq. m**

### 5. Existing buildings

5.A. Landlord villa and garden

5.B. Private chapel

5.C. Estate admin. - bio shop

### STAGE 2 PROGRAMME

- 7 residential towers, 4 floors, 7000 sq. m

- trade: 13 shops, 1200 sq. m

- restaurant, 800 sq. m

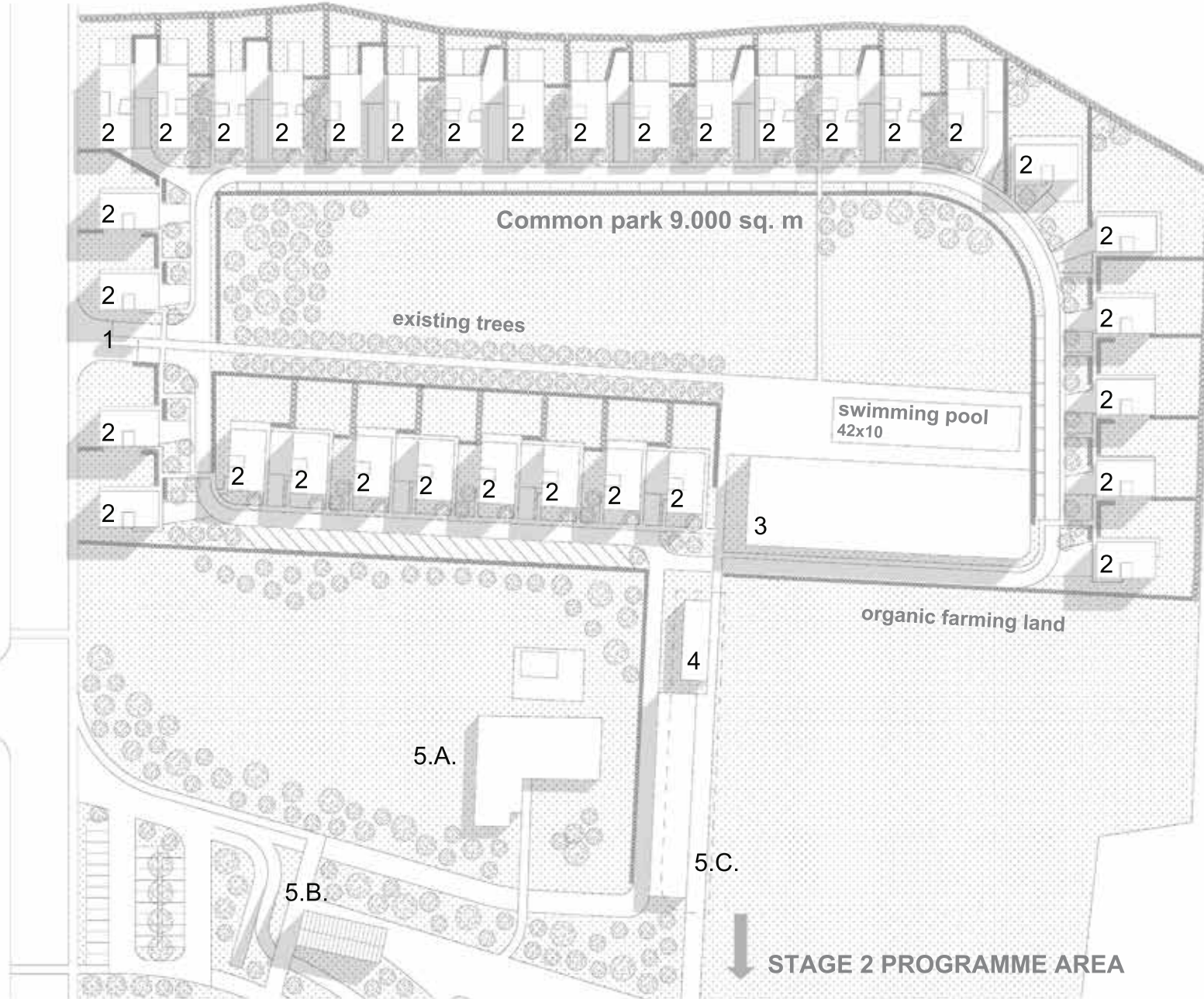
- 150 spaces in basement car park

- 70 outdoor car spaces

- private park, 6000 sq. m

- public park

and chapel square, 13.000 sq. m.



## El Escondido de Huampaní

Sustainable development of a farm estate

### Project

Francesco SIMONI

### Programme

Huampaní was an *hacienda* of 85 hectares, east of Lima, along the Rímac river. Currently 5 hectares are still used for organic agriculture and livestock, but they are already surrounded by the expansion of the city of Lima. The owner decided to delocalize production and urbanize an important part of the estate.

The request is to preserve the family home, with its garden, the chapel, a part of the existing livestock and of the land for organic vegetable gardens, maintaining the privacy and emphasizing the environment with low density housing and the use of green. In Huampaní, unlike in Lima, there is never "nieblita" - fog - and it's sunny every day.

### Strategies

- high class settlement;
- total garden privacy;
- high permeability;
- optimized orientation;
- ventilation courts;
- ventilation towers;
- massive/light envelope.

### Location

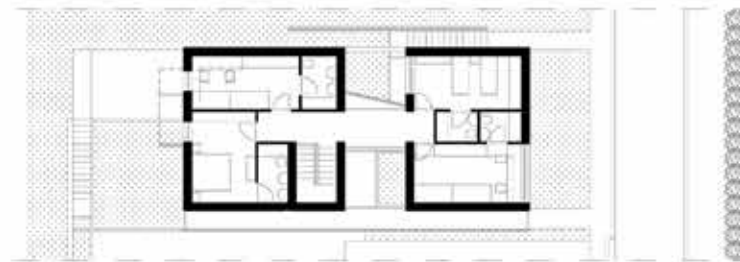
Lurigancho Chosica  
Lima - Perú

### Date

Sept. 13



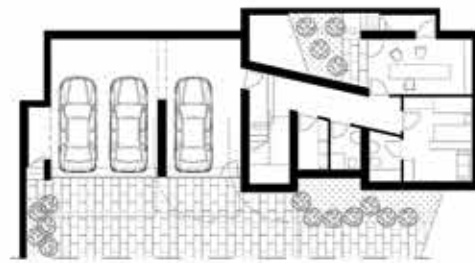
roofing



first floor



ground floor



basement



sectional view



east elevation

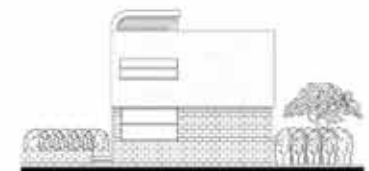


west elevation



north elevation

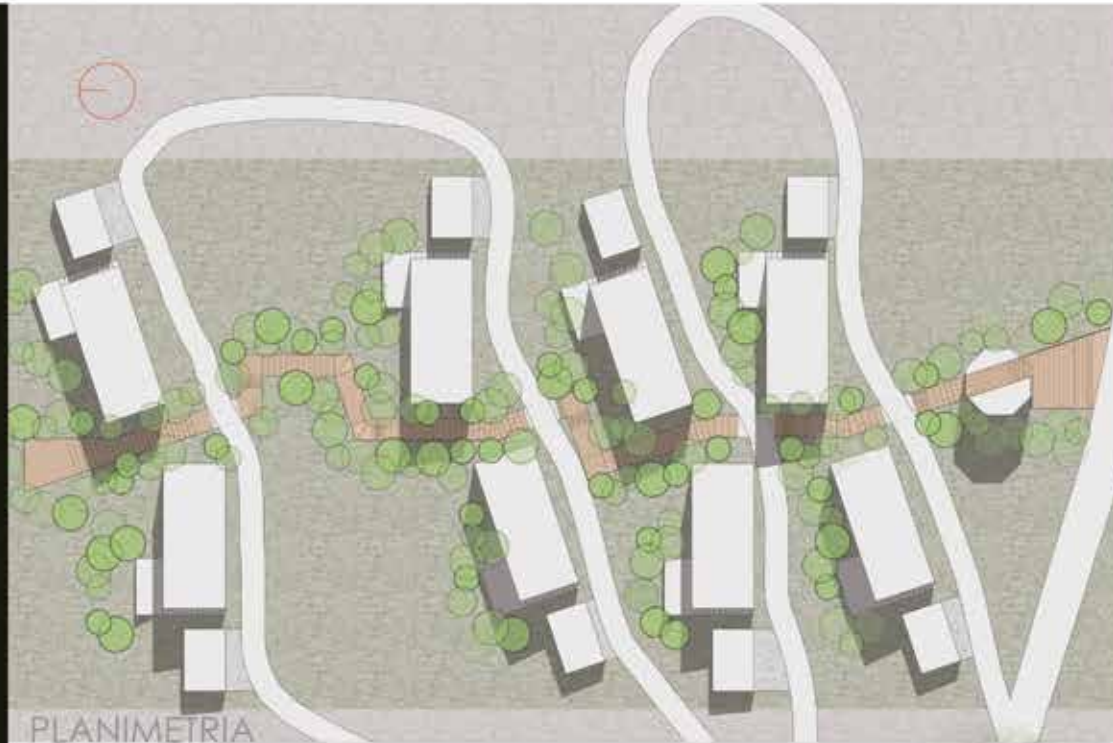
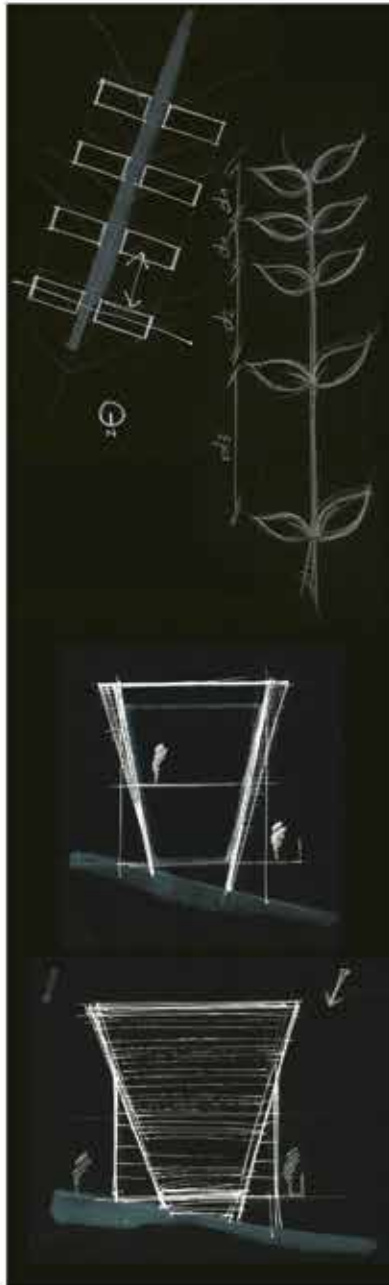
from the southern to the northern hemispheres, "north and south are inverted"



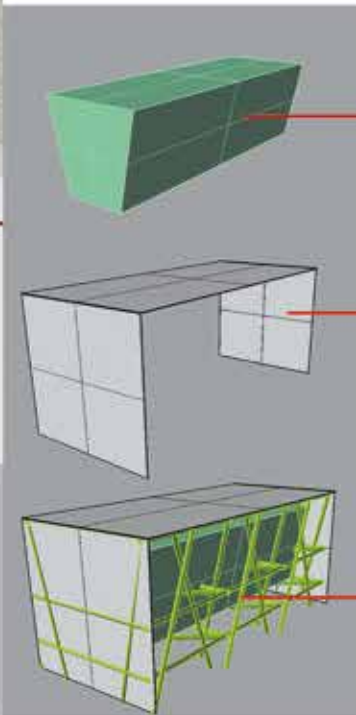
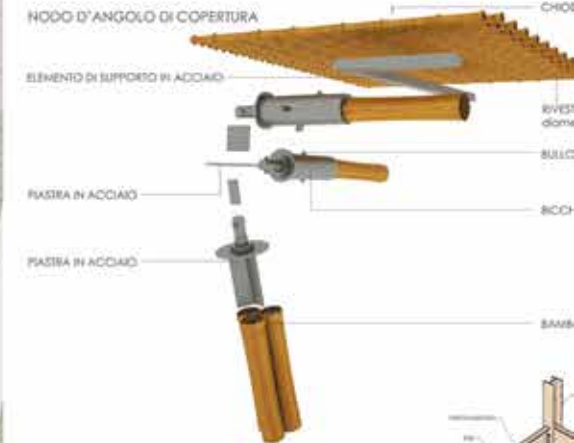
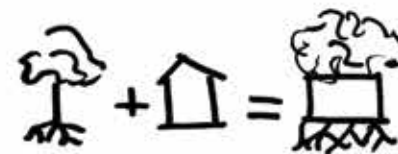
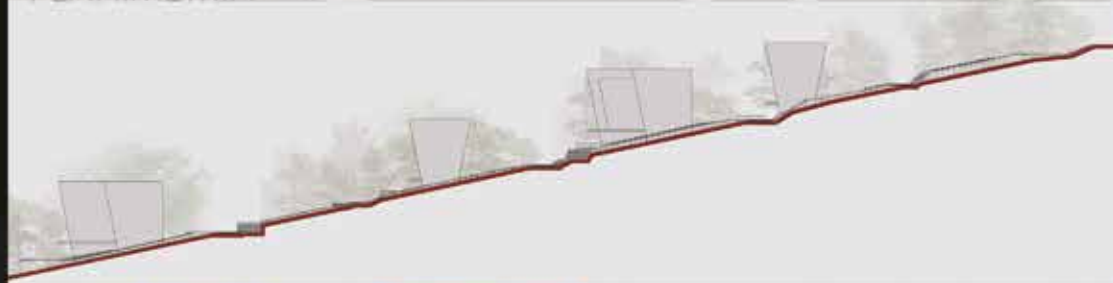
south elevation

SINGLE-FAMILY VILLA SAMPLE

## El Escondido de Huampaní



PLANIMETRIA



STEEL-FL



LE



BAM



UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE  
*Environmental Planning Course*

**Project**  
**Single-family homes**

two distributive types  
double skin/  
/double structure/  
frame-exoframe

**Students**

Carlotta GIUSTI  
Chiara MAGNELLI  
Maddalena PETRACCHI  
Jennifer SCHIANO

**Assistant**

Francesco SIMONI

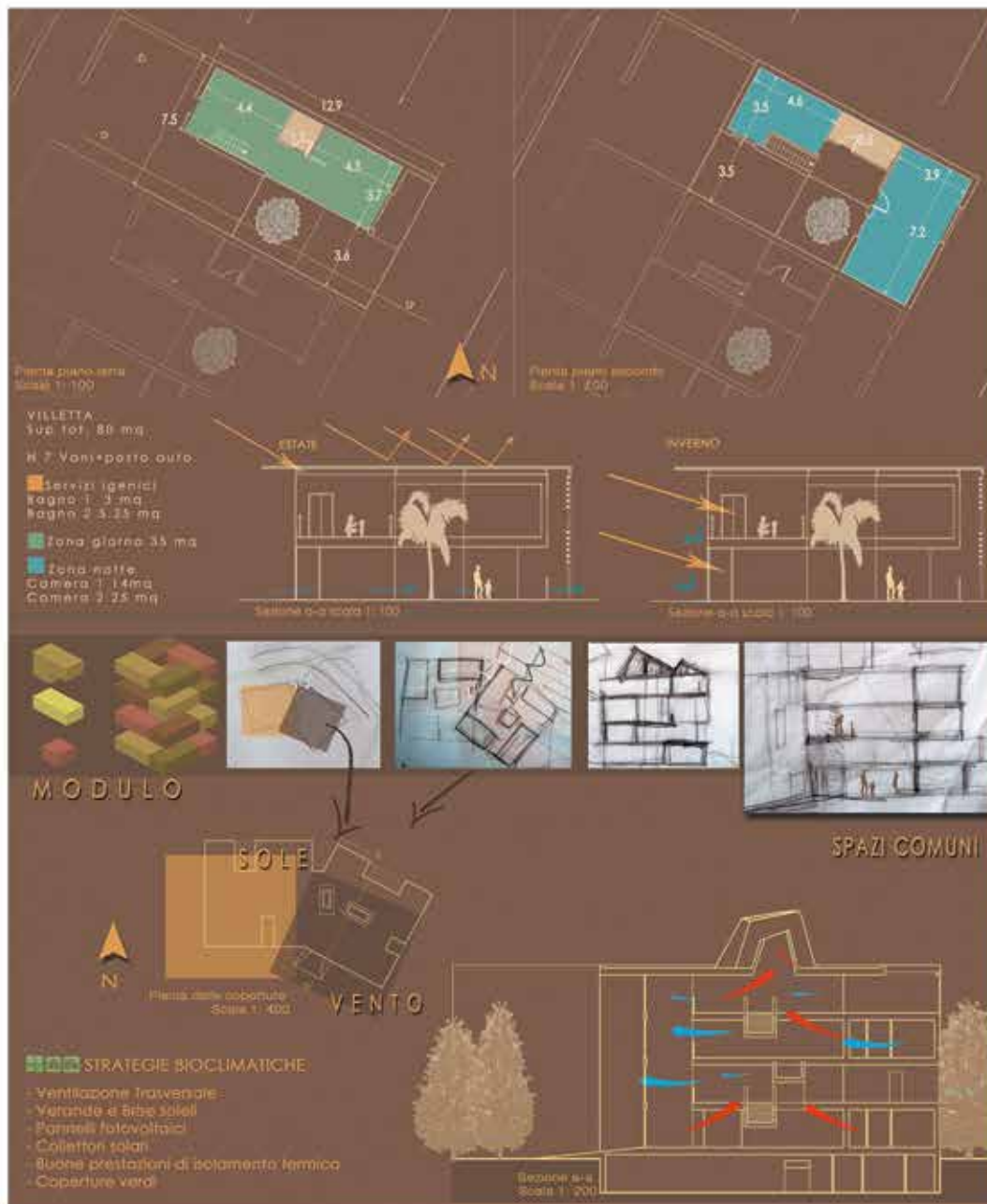
**Location**

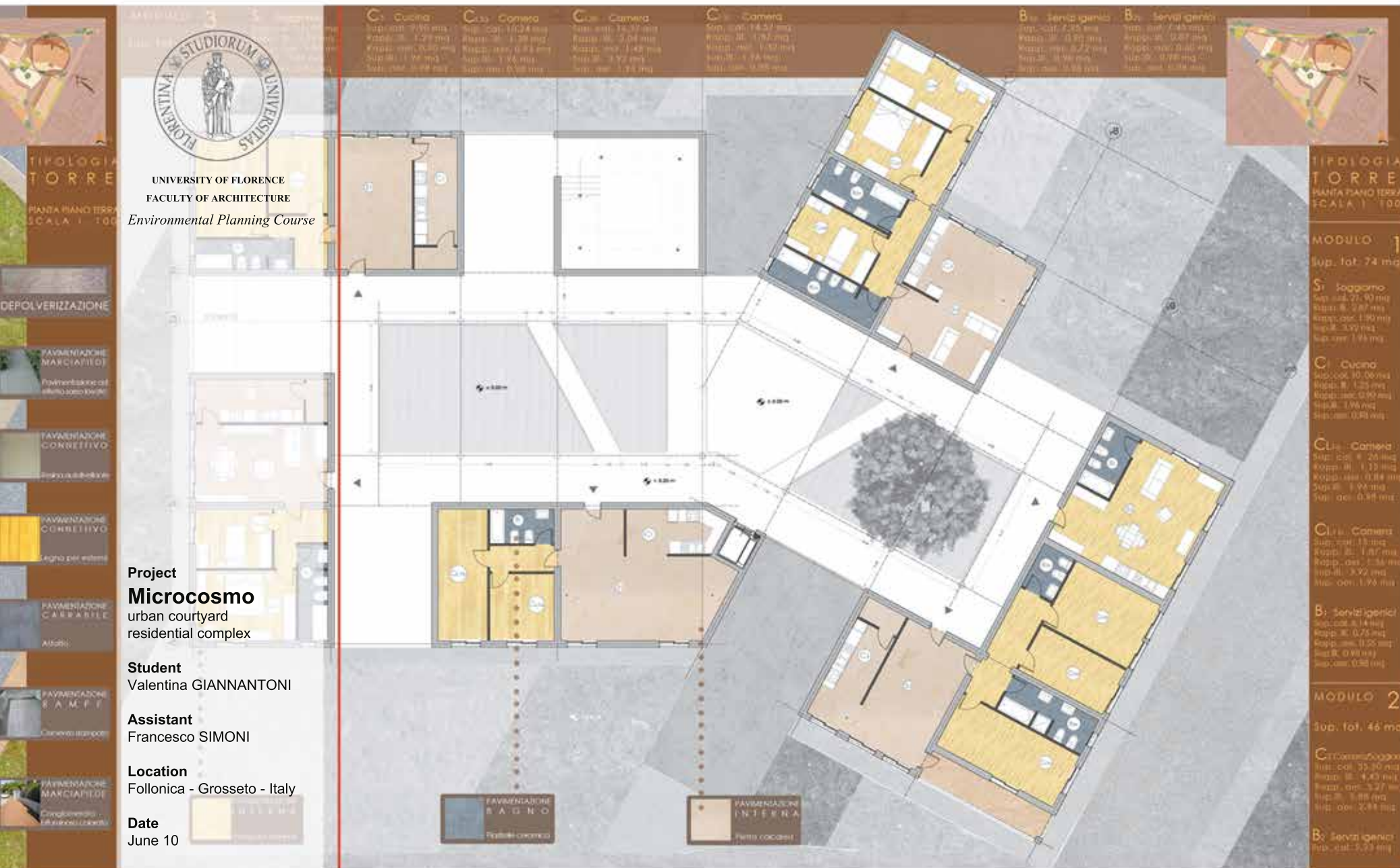
Saiananda  
Bahía de Caráquez - Manabí  
Ecuador

**Date**

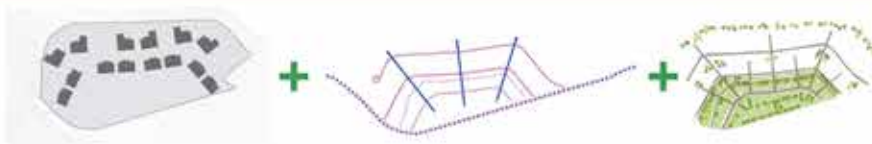
June 12

In the Equatorial forest





## Residential/Urban



=



Scala 1:1000



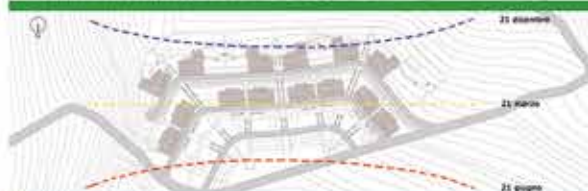
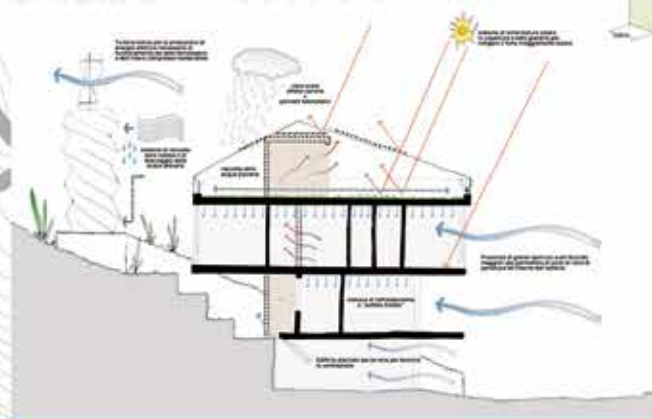
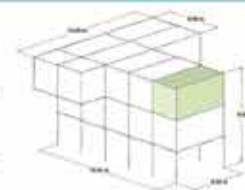
3.00m X 6.00m = 18mq MODULO BASE  
18.00mq X 5 = 90mq PIANA BASE-GARAGE

TIPOLOGIA 1

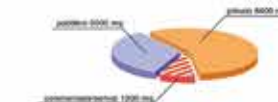
18.00m X 5 = 90mq PIANO PRIMO  
18.00m X 8 = 144mq PIANO SECONDO  
90mq + 144mq = 234mq TOTALE SUPERFICIE ABITABILE

TIPOLOGIA 2

18.00m X 5 = 90mq PIANO PRIMO  
18.00m X 5 = 90mq PIANO SECONDO  
90mq + 90mq = 180mq TOTALE SUPERFICIE ABITABILE



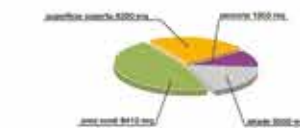
SOLEGGIAMENTO



LAND AREA



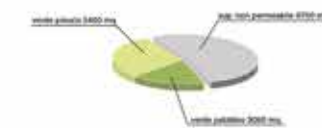
VISUALI PANORAMICHE



LAND AREA



VENTILAZIONE



LAND AREA

CONCEPT

PRELIMINARE



UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE  
*Environmental Planning Course*

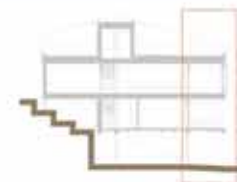
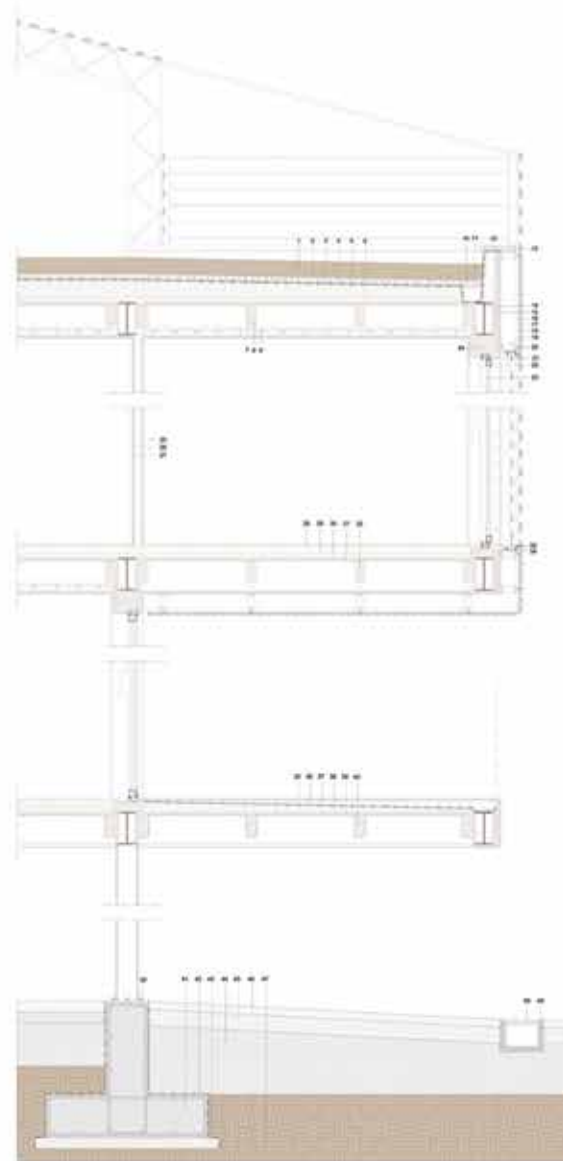
**Project**  
**Territorial**  
**Amphitheatre**  
Integrated residential -  
commercial neighbourhood  
project adapted to the  
orography and landscape

**Students**  
Giacomo FABBRI  
Stefano GIUSTI  
Vincenzo MANCUSO  
Gabriele MARCHI  
Alessandro MASINI

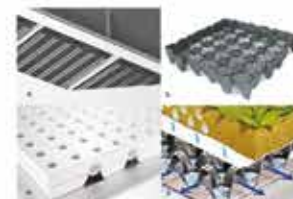
**Assistant**  
Francesco SIMONI

**Location**  
Saiananda  
Bahía de Caráquez - Manabí  
Ecuador

**Date**  
June 12



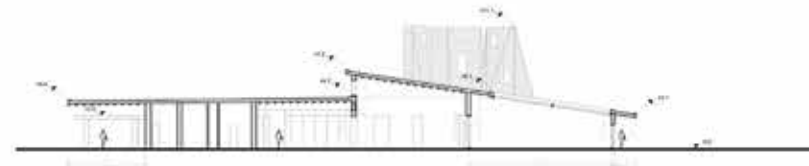
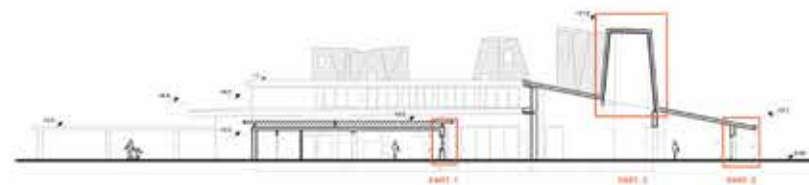
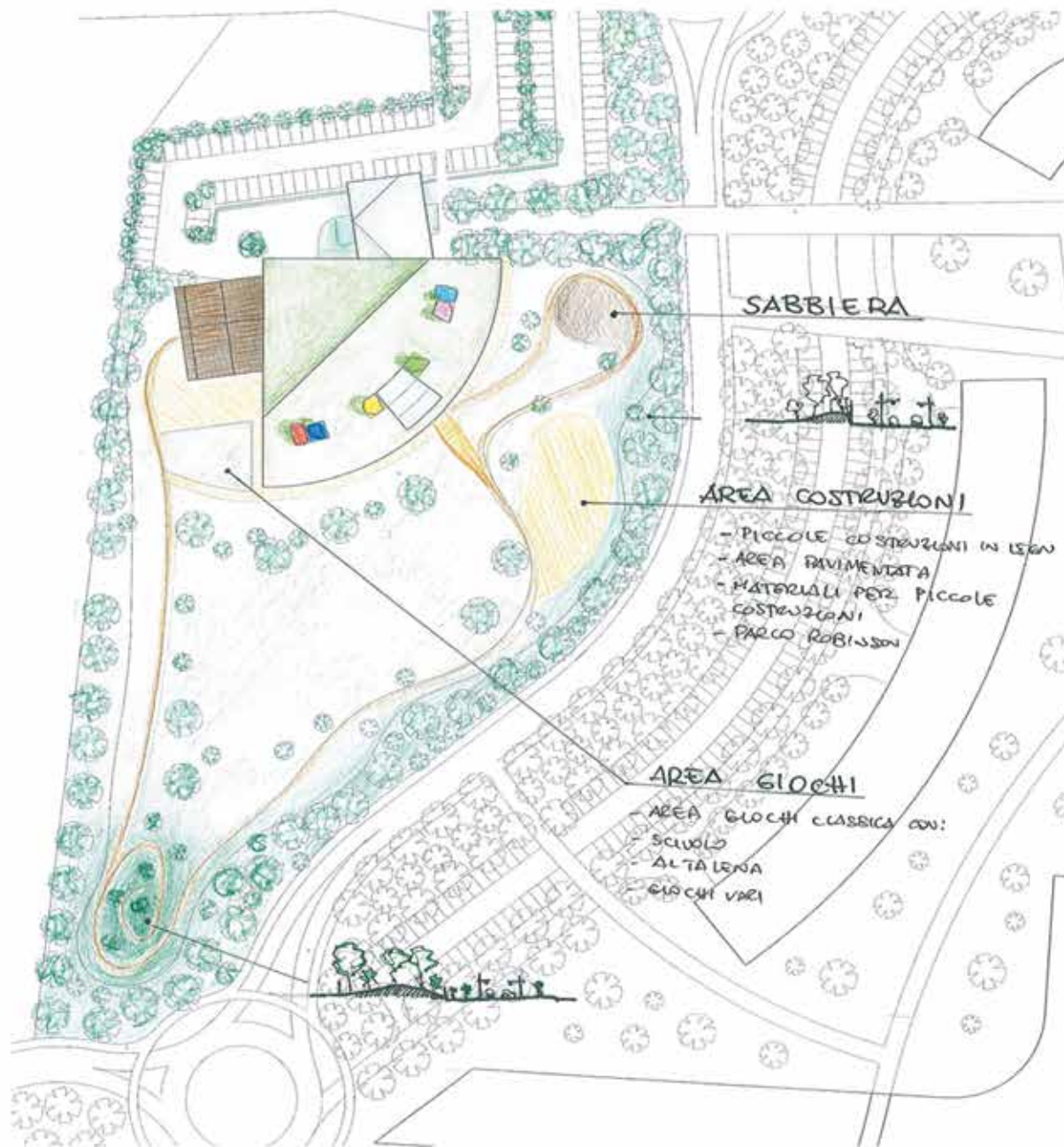
1. INTERNO: TERRAZZO
2. TERRAZZO: TERRAZZO
3. TERRAZZO: TERRAZZO
4. TERRAZZO: TERRAZZO
5. TERRAZZO: TERRAZZO
6. TERRAZZO: TERRAZZO
7. TERRAZZO: TERRAZZO
8. TERRAZZO: TERRAZZO
9. TERRAZZO: TERRAZZO
10. TERRAZZO: TERRAZZO
11. TERRAZZO: TERRAZZO
12. TERRAZZO: TERRAZZO
13. TERRAZZO: TERRAZZO
14. TERRAZZO: TERRAZZO
15. TERRAZZO: TERRAZZO
16. TERRAZZO: TERRAZZO
17. TERRAZZO: TERRAZZO
18. TERRAZZO: TERRAZZO
19. TERRAZZO: TERRAZZO
20. TERRAZZO: TERRAZZO
21. TERRAZZO: TERRAZZO
22. TERRAZZO: TERRAZZO
23. TERRAZZO: TERRAZZO
24. TERRAZZO: TERRAZZO
25. TERRAZZO: TERRAZZO
26. TERRAZZO: TERRAZZO
27. TERRAZZO: TERRAZZO
28. TERRAZZO: TERRAZZO
29. TERRAZZO: TERRAZZO
30. TERRAZZO: TERRAZZO
31. TERRAZZO: TERRAZZO
32. TERRAZZO: TERRAZZO
33. TERRAZZO: TERRAZZO
34. TERRAZZO: TERRAZZO
35. TERRAZZO: TERRAZZO
36. TERRAZZO: TERRAZZO
37. TERRAZZO: TERRAZZO
38. TERRAZZO: TERRAZZO
39. TERRAZZO: TERRAZZO
40. TERRAZZO: TERRAZZO
41. TERRAZZO: TERRAZZO
42. TERRAZZO: TERRAZZO
43. TERRAZZO: TERRAZZO
44. TERRAZZO: TERRAZZO
45. TERRAZZO: TERRAZZO
46. TERRAZZO: TERRAZZO
47. TERRAZZO: TERRAZZO
48. TERRAZZO: TERRAZZO
49. TERRAZZO: TERRAZZO
50. TERRAZZO: TERRAZZO
51. TERRAZZO: TERRAZZO
52. TERRAZZO: TERRAZZO
53. TERRAZZO: TERRAZZO
54. TERRAZZO: TERRAZZO
55. TERRAZZO: TERRAZZO
56. TERRAZZO: TERRAZZO
57. TERRAZZO: TERRAZZO
58. TERRAZZO: TERRAZZO
59. TERRAZZO: TERRAZZO
60. TERRAZZO: TERRAZZO
61. TERRAZZO: TERRAZZO
62. TERRAZZO: TERRAZZO
63. TERRAZZO: TERRAZZO
64. TERRAZZO: TERRAZZO
65. TERRAZZO: TERRAZZO
66. TERRAZZO: TERRAZZO
67. TERRAZZO: TERRAZZO
68. TERRAZZO: TERRAZZO
69. TERRAZZO: TERRAZZO
70. TERRAZZO: TERRAZZO
71. TERRAZZO: TERRAZZO
72. TERRAZZO: TERRAZZO
73. TERRAZZO: TERRAZZO
74. TERRAZZO: TERRAZZO
75. TERRAZZO: TERRAZZO
76. TERRAZZO: TERRAZZO
77. TERRAZZO: TERRAZZO
78. TERRAZZO: TERRAZZO
79. TERRAZZO: TERRAZZO
80. TERRAZZO: TERRAZZO
81. TERRAZZO: TERRAZZO
82. TERRAZZO: TERRAZZO
83. TERRAZZO: TERRAZZO
84. TERRAZZO: TERRAZZO
85. TERRAZZO: TERRAZZO
86. TERRAZZO: TERRAZZO
87. TERRAZZO: TERRAZZO
88. TERRAZZO: TERRAZZO
89. TERRAZZO: TERRAZZO
90. TERRAZZO: TERRAZZO
91. TERRAZZO: TERRAZZO
92. TERRAZZO: TERRAZZO
93. TERRAZZO: TERRAZZO
94. TERRAZZO: TERRAZZO
95. TERRAZZO: TERRAZZO
96. TERRAZZO: TERRAZZO
97. TERRAZZO: TERRAZZO
98. TERRAZZO: TERRAZZO
99. TERRAZZO: TERRAZZO
100. TERRAZZO: TERRAZZO



1. INTERNO: TERRAZZO
2. TERRAZZO: TERRAZZO
3. TERRAZZO: TERRAZZO
4. TERRAZZO: TERRAZZO
5. TERRAZZO: TERRAZZO
6. TERRAZZO: TERRAZZO
7. TERRAZZO: TERRAZZO
8. TERRAZZO: TERRAZZO
9. TERRAZZO: TERRAZZO
10. TERRAZZO: TERRAZZO
11. TERRAZZO: TERRAZZO
12. TERRAZZO: TERRAZZO
13. TERRAZZO: TERRAZZO
14. TERRAZZO: TERRAZZO
15. TERRAZZO: TERRAZZO
16. TERRAZZO: TERRAZZO
17. TERRAZZO: TERRAZZO
18. TERRAZZO: TERRAZZO
19. TERRAZZO: TERRAZZO
20. TERRAZZO: TERRAZZO
21. TERRAZZO: TERRAZZO
22. TERRAZZO: TERRAZZO
23. TERRAZZO: TERRAZZO
24. TERRAZZO: TERRAZZO
25. TERRAZZO: TERRAZZO
26. TERRAZZO: TERRAZZO
27. TERRAZZO: TERRAZZO
28. TERRAZZO: TERRAZZO
29. TERRAZZO: TERRAZZO
30. TERRAZZO: TERRAZZO
31. TERRAZZO: TERRAZZO
32. TERRAZZO: TERRAZZO
33. TERRAZZO: TERRAZZO
34. TERRAZZO: TERRAZZO
35. TERRAZZO: TERRAZZO
36. TERRAZZO: TERRAZZO
37. TERRAZZO: TERRAZZO
38. TERRAZZO: TERRAZZO
39. TERRAZZO: TERRAZZO
40. TERRAZZO: TERRAZZO
41. TERRAZZO: TERRAZZO
42. TERRAZZO: TERRAZZO
43. TERRAZZO: TERRAZZO
44. TERRAZZO: TERRAZZO
45. TERRAZZO: TERRAZZO
46. TERRAZZO: TERRAZZO
47. TERRAZZO: TERRAZZO
48. TERRAZZO: TERRAZZO
49. TERRAZZO: TERRAZZO
50. TERRAZZO: TERRAZZO
51. TERRAZZO: TERRAZZO
52. TERRAZZO: TERRAZZO
53. TERRAZZO: TERRAZZO
54. TERRAZZO: TERRAZZO
55. TERRAZZO: TERRAZZO
56. TERRAZZO: TERRAZZO
57. TERRAZZO: TERRAZZO
58. TERRAZZO: TERRAZZO
59. TERRAZZO: TERRAZZO
60. TERRAZZO: TERRAZZO
61. TERRAZZO: TERRAZZO
62. TERRAZZO: TERRAZZO
63. TERRAZZO: TERRAZZO
64. TERRAZZO: TERRAZZO
65. TERRAZZO: TERRAZZO
66. TERRAZZO: TERRAZZO
67. TERRAZZO: TERRAZZO
68. TERRAZZO: TERRAZZO
69. TERRAZZO: TERRAZZO
70. TERRAZZO: TERRAZZO
71. TERRAZZO: TERRAZZO
72. TERRAZZO: TERRAZZO
73. TERRAZZO: TERRAZZO
74. TERRAZZO: TERRAZZO
75. TERRAZZO: TERRAZZO
76. TERRAZZO: TERRAZZO
77. TERRAZZO: TERRAZZO
78. TERRAZZO: TERRAZZO
79. TERRAZZO: TERRAZZO
80. TERRAZZO: TERRAZZO
81. TERRAZZO: TERRAZZO
82. TERRAZZO: TERRAZZO
83. TERRAZZO: TERRAZZO
84. TERRAZZO: TERRAZZO
85. TERRAZZO: TERRAZZO
86. TERRAZZO: TERRAZZO
87. TERRAZZO: TERRAZZO
88. TERRAZZO: TERRAZZO
89. TERRAZZO: TERRAZZO
90. TERRAZZO: TERRAZZO
91. TERRAZZO: TERRAZZO
92. TERRAZZO: TERRAZZO
93. TERRAZZO: TERRAZZO
94. TERRAZZO: TERRAZZO
95. TERRAZZO: TERRAZZO
96. TERRAZZO: TERRAZZO
97. TERRAZZO: TERRAZZO
98. TERRAZZO: TERRAZZO
99. TERRAZZO: TERRAZZO
100. TERRAZZO: TERRAZZO



The site/the project





UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE  
*Environmental Planning Course*

## Project

### Children's space

social and cultural integration  
service in a connection area  
between a residential area  
inhabited by immigrated  
citizens and a new productive  
area with a high  
environmental value

## Student

Lucia ZANELLA

## Assistant

Francesco SIMONI

## Location

Florence - Italy

## Date

June 09



INVERDIMENTO  
ESTENSIVO A SEDUM  
MISCELA DI SUBSTRATO  
(S) 10 cm

RETE ANTICADUTA  
TELO FILTRANTE  
IN POLIPROPILENE  
PRECOMPRESSO  
E INCRUOTO  
TERMICAMENTE

STRATO DI ACCUMULO,  
DRENAGGIO E AERAZIONE  
IN POLIETILENE PROVISTO  
DI CAVI E FORI

FOGLIO ANTIRADICE

MEMBRANA IMPERMEABILIZZANTE

FELTRO DI ACCUMULO E PROTEZIONE  
IN MATERIALE SINTETICO IMMARCESCIBILE

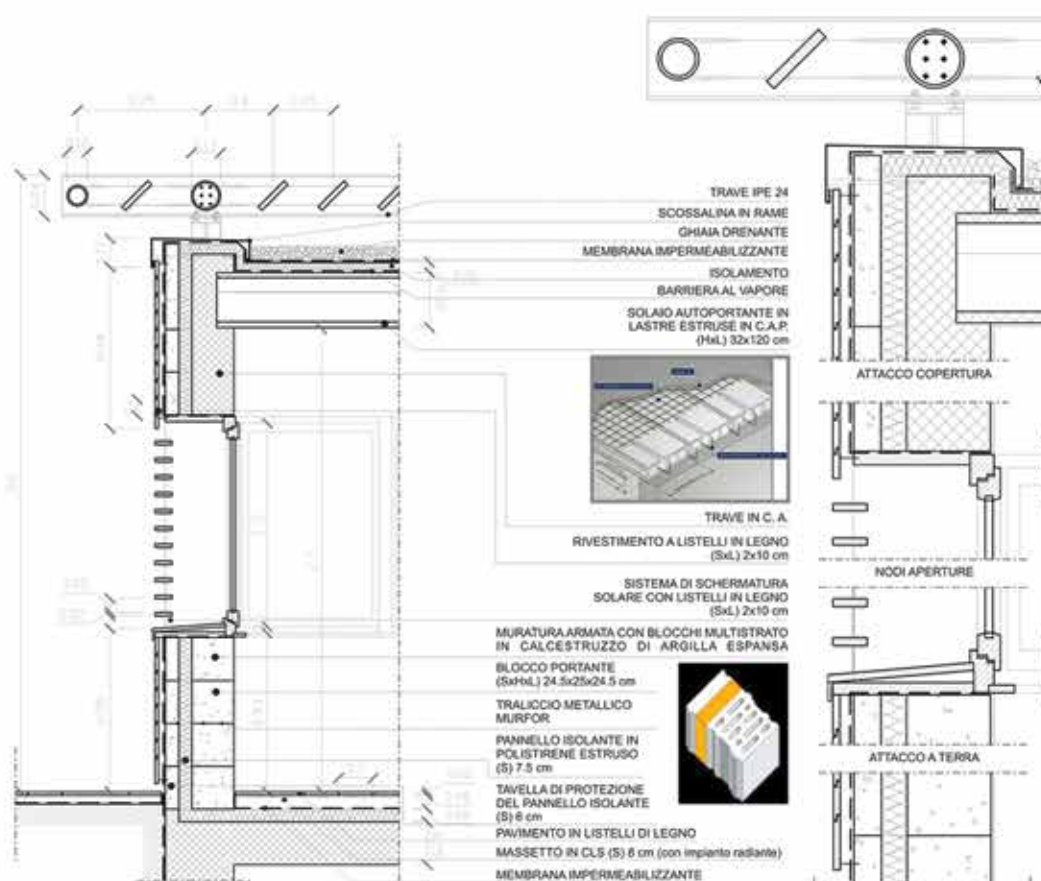
ISOLAMENTO (S) 8 cm

BARRIERA AL VAPORE

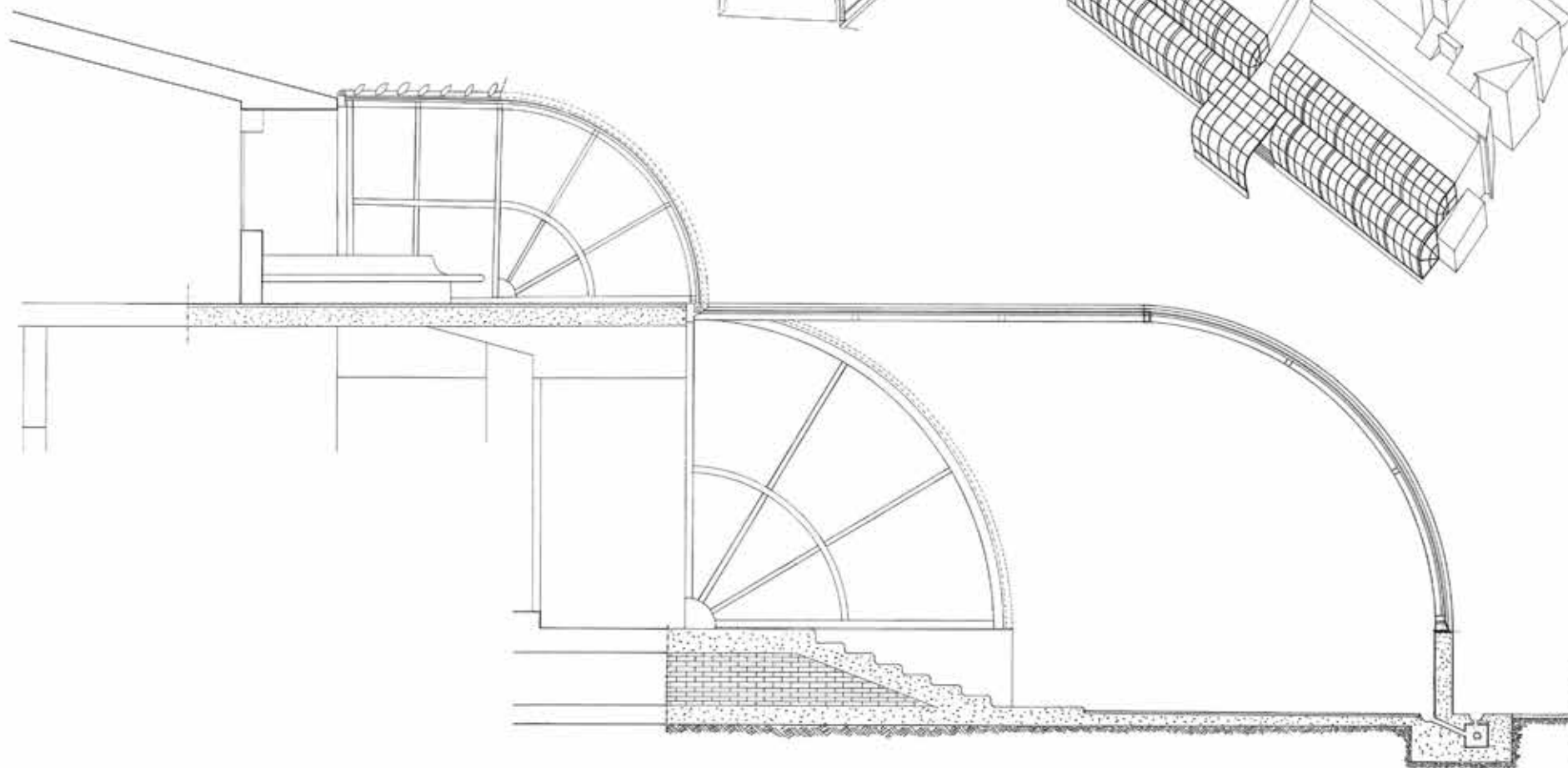
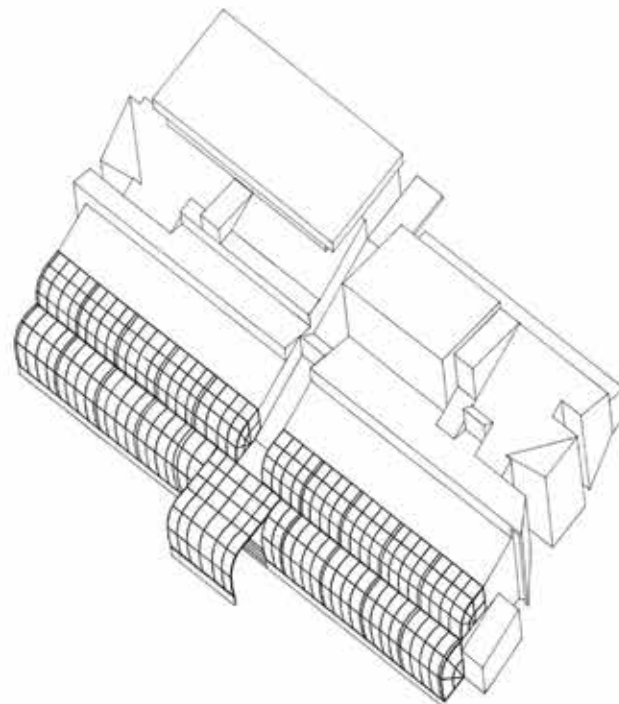
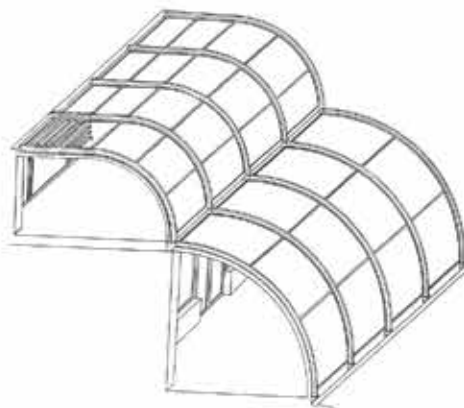
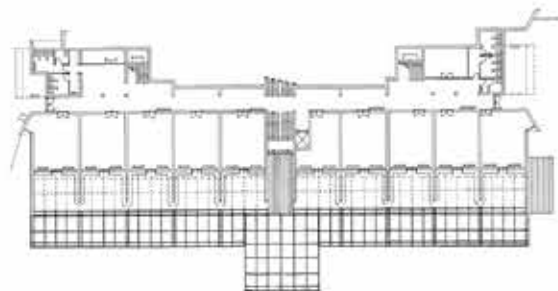
DOPIO STRATO DI ASSITO  
(SxHxL) 3x30x110 cm

TRAVE IN LEGNO  
(SxH) 15x10 cm

TUBO DI DRENAGGIO  
Ø8



Company nursery school





UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE

## Primary school Retrofit

- Energy analysis
- Strategy identification for the maximization of performance
- Planning interventions

### Volumetric Addition

Greenhouse - buffer zone for indoor - outdoor thermal exchange mediation.

Mobile screen system to control radiation on the greenhouse surface and indirect thermal earning.

Classroom opening to the greenhouse - temperature difference mitigation, direct light interception, recreational space moved from entrance hall lacking of natural light and exposed to the north.

### Energy analysis

Maria TACCONI

### Project

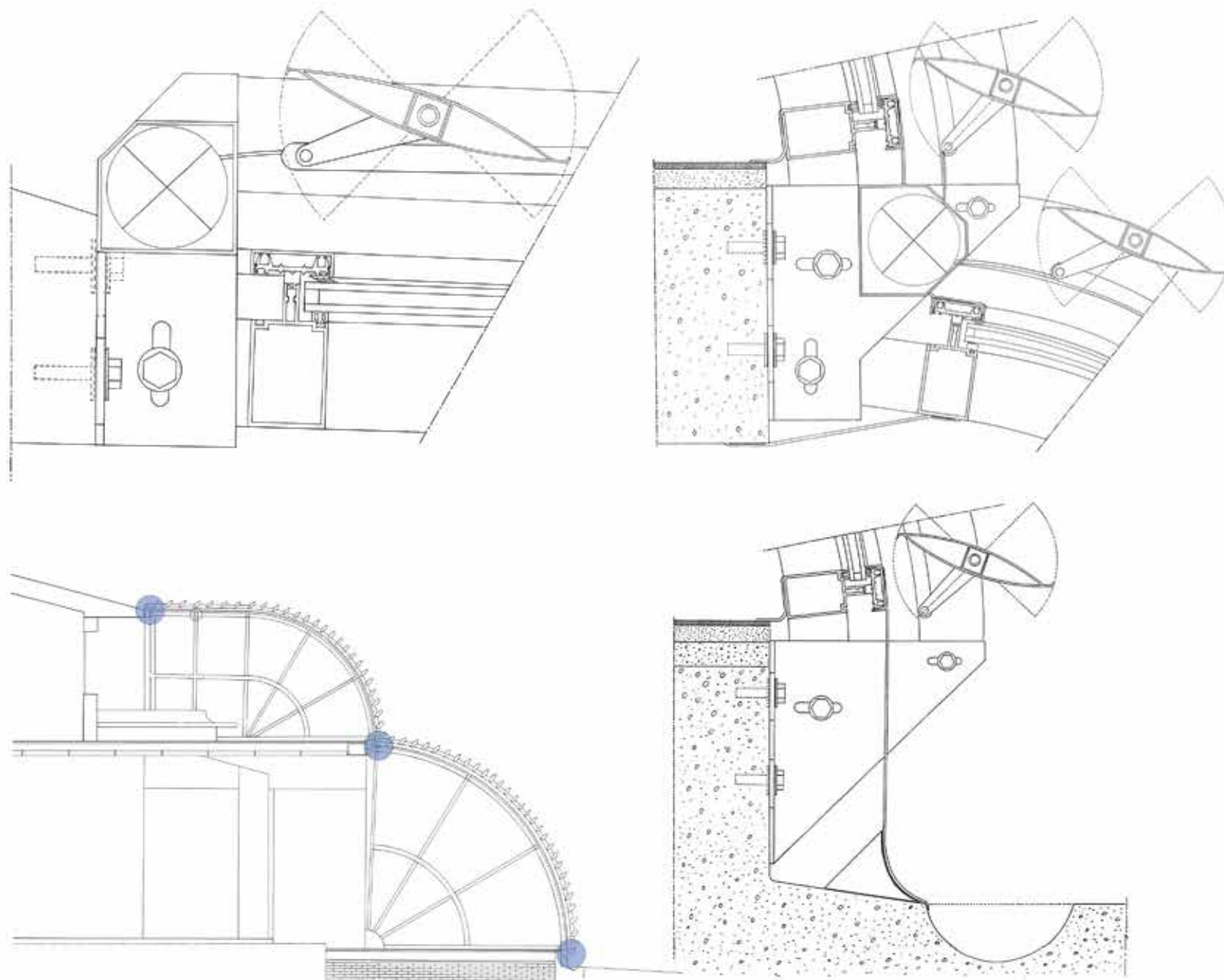
Francesco SIMONI

### Location

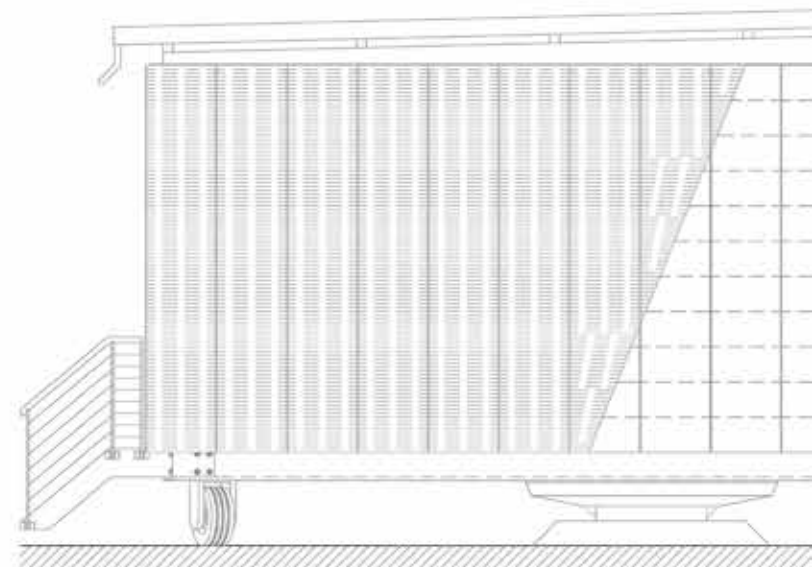
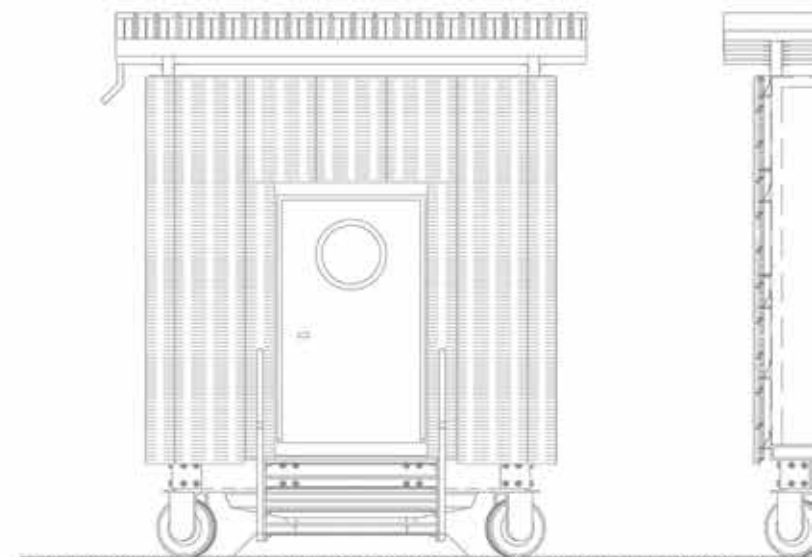
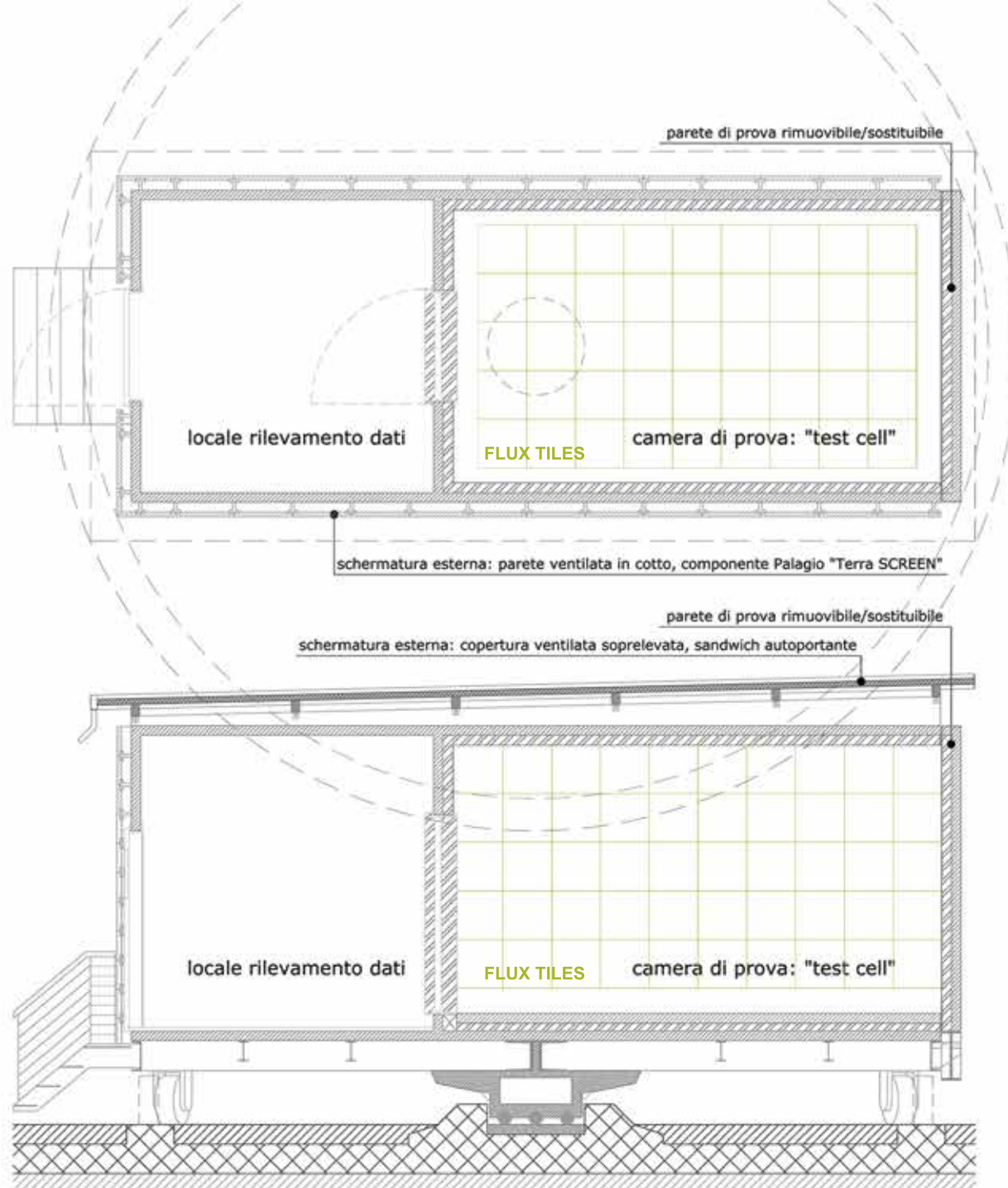
Fiesole - Florence - Italy

### Date

June 96



## Retrofit for school buildings



## Test Cell

Scientific Laboratory:

**Test room** - testing activity equipment.

**Service room** - data retrieval and codification.

One of the walls of the testing room is removable and can be replaced

to analyse the energy performance.

Tests imply all orientations and the **complete horizontal rotation of the laboratory.**

The envelope is made by a **double skin** to close and screen/protect from external influences.

The **size** derives from the text "The Passys Services, SUMMARY REPORT, European Commission, Directorate General XII for Science, Research & Development"

### Project

Francesco SIMONI

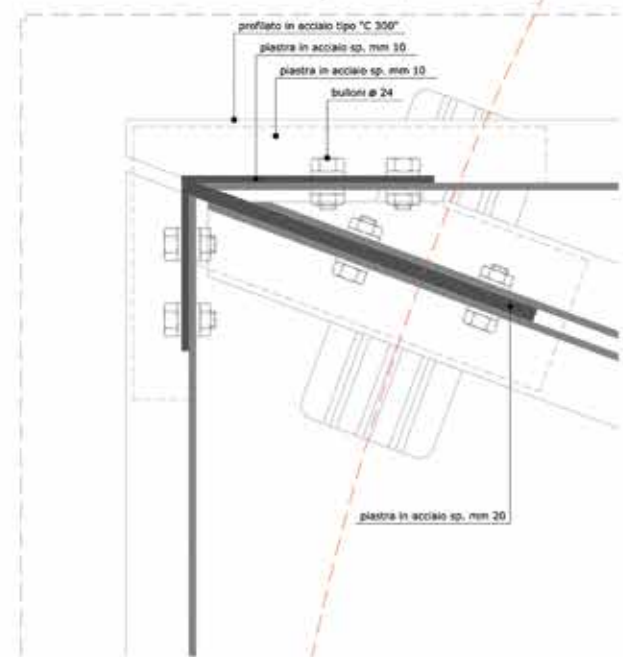
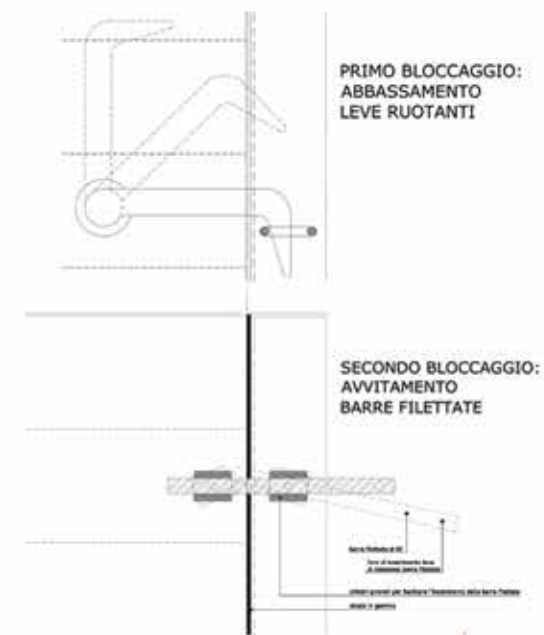
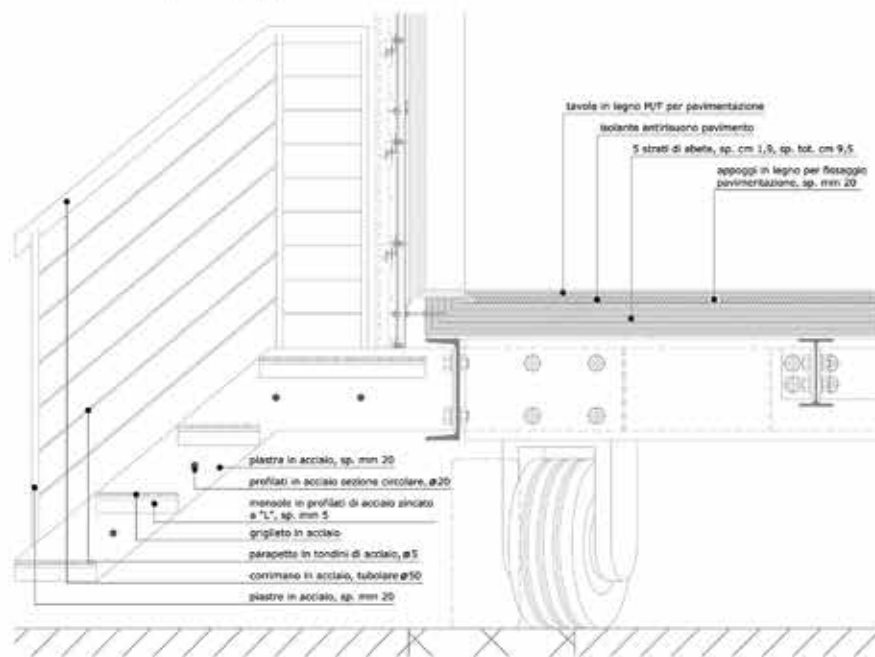
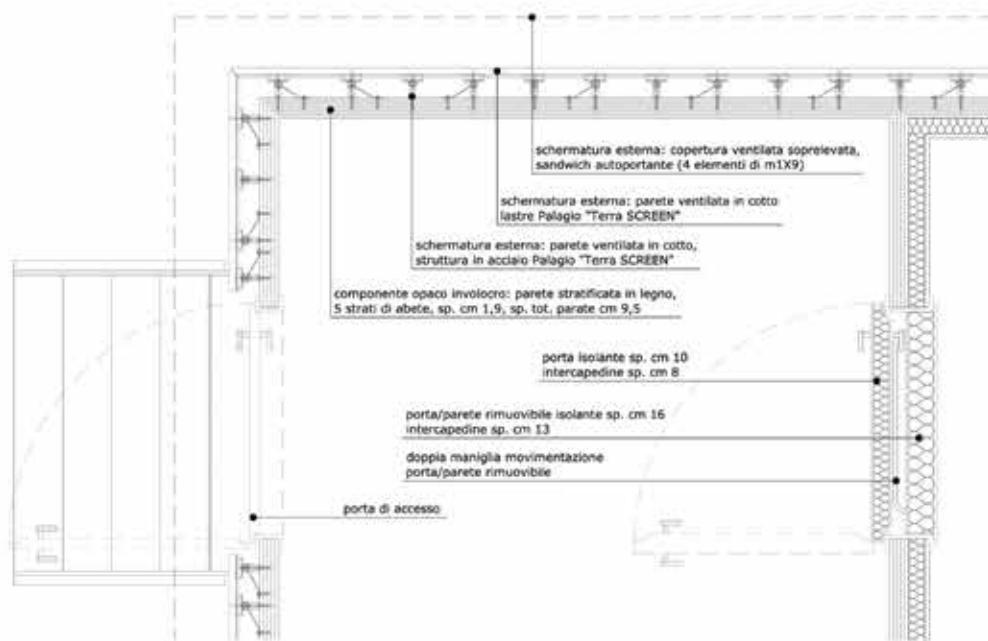
### Location

Florence - Italy

Faculty of Engineering

### Date

Apr. 11

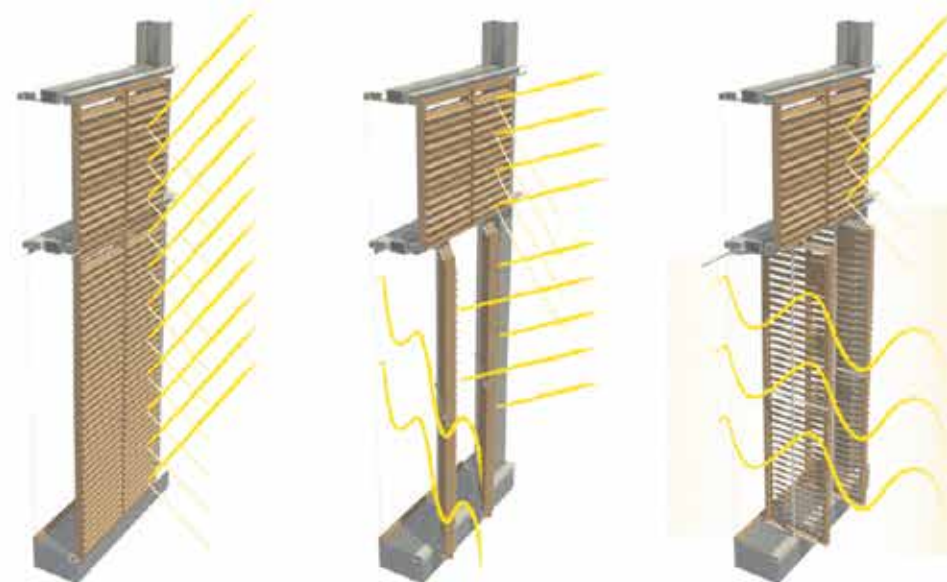


## Test Cell: from Thermodynamics to the dynamic project





UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE  
*Environmental Planning Course*



## Project

## Research and production

Structures for innovation and competitiveness through the integration of research and industrial production for environmental sustainability

## Students

Paolo ZUCCONI  
Felix Ephraim WIRTH

## Assistant

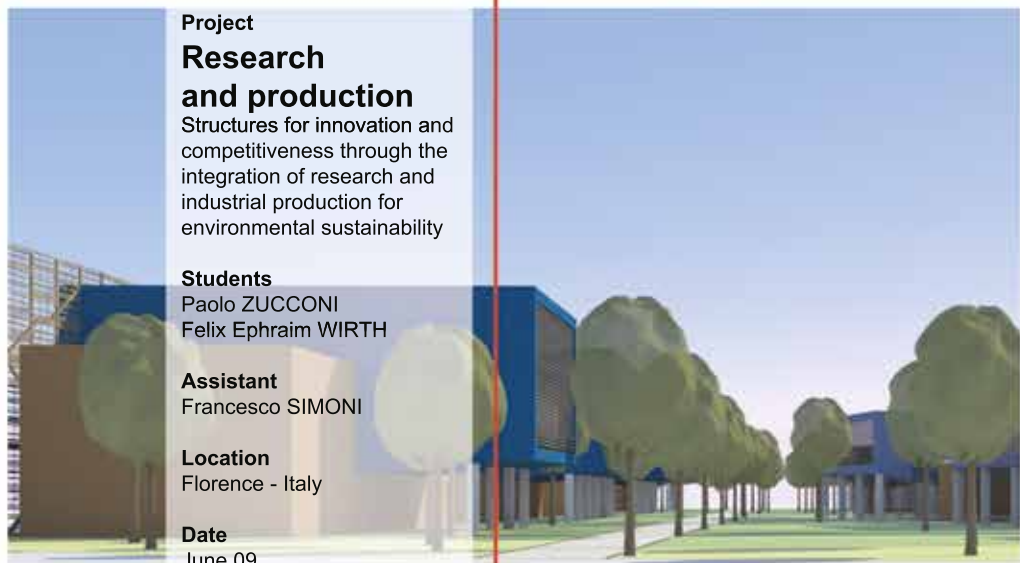
Francesco SIMONI

## Location

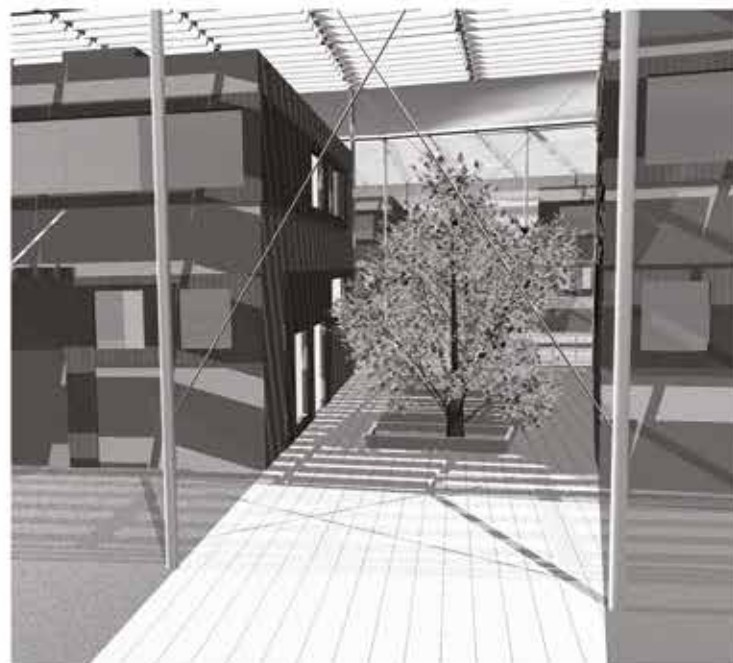
Florence - Italy

## Date

June 09



## Sustainable Start-up





UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE  
*Environmental Planning Course*

**Project**  
**Multifunctional  
buildings for new  
companies**

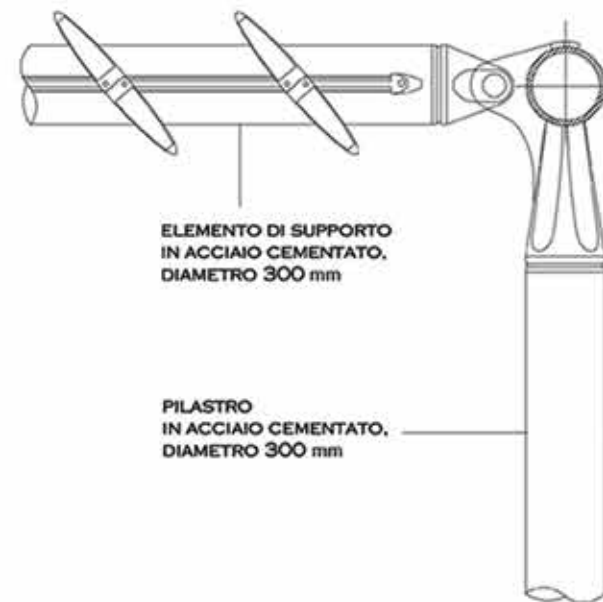
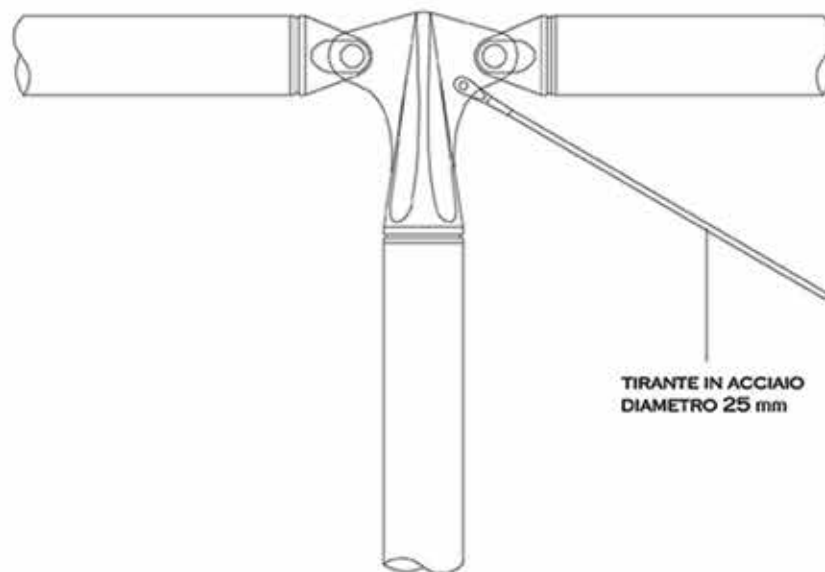
Promotion of new businesses  
with buildings for research  
and industrial activities and  
management - public owned,  
assigned for free for the  
experimentation of innovative  
business projects.

**Students**  
Giacomo BOSCHI  
Chiara MENGHINI

**Assistant**  
Francesco SIMONI

**Location**  
Florence - Italy

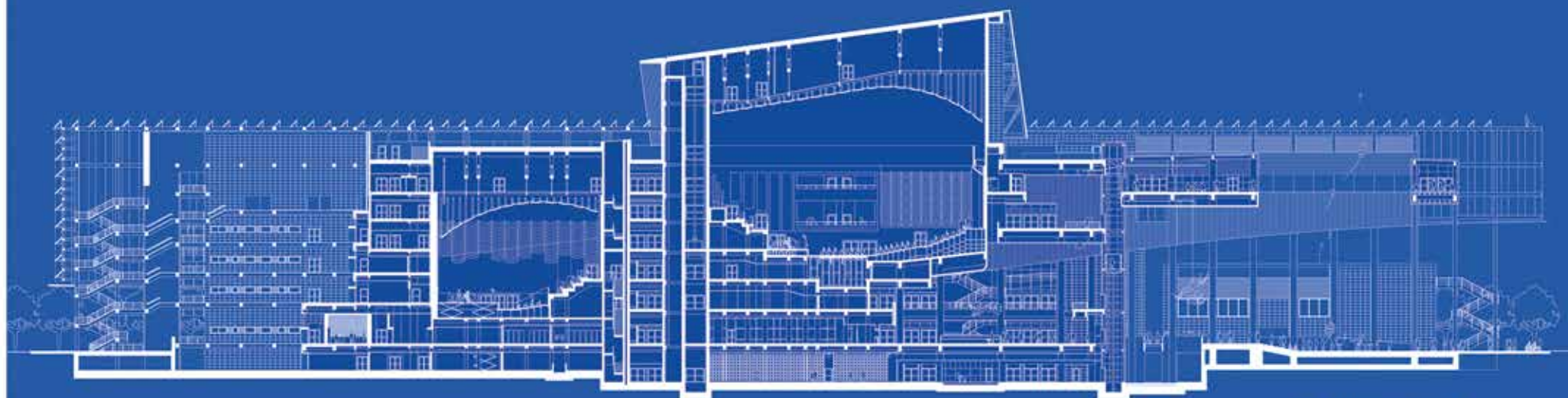
**Date**  
June 09



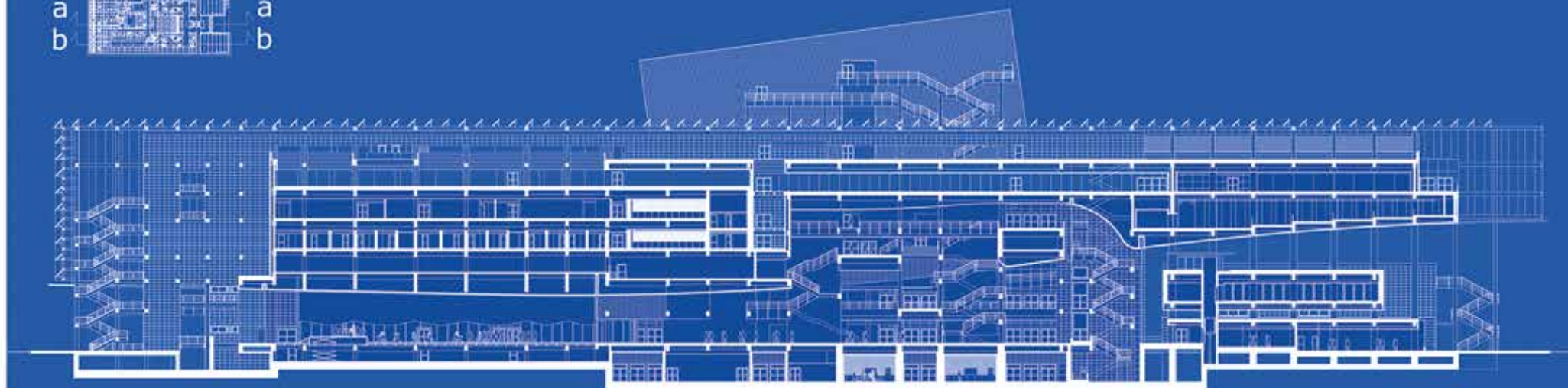
PILASTRO  
IN ACCIAIO CEMENTATO,  
DIAMETRO 300 mm

ELEMENTO DI FONDAZIONE  
IN CLS

## Business Incubators



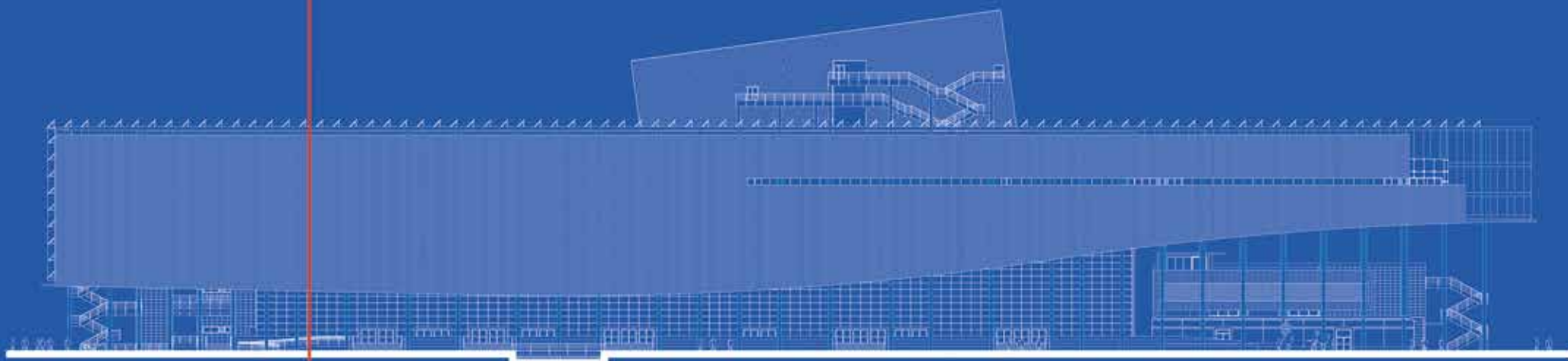
sezione a-a



sezione b-b



prospetto ovest



prospetto est

**Project** Francesco SIMONI  
**Location** Florence - Italy  
**Date** July 08

## Auditorium-City of Music: project

## Main areas brief report

**Total building 110.000 sq. m**

Indoor areas 61.280

Covered, semi-covered outdoor areas 48.720

### Maria Callas Hall

640 - 1.078 seats

stage 150 - 280 sq. m + choir area -120 people

### Jimmy Hendrix Hall

648 seats

1640 standing places with party set up

stage 85 sq. m

### Luis Armstrong Hall

232 seats

stage 130 sq. m

### Edith Piaf Hall

184 seats

486 standing places with party set up

### Public studios

6 recording studios, total 483 sq. m

sound effects studio, 65 sq. m

reverberation room, 65 sq. m

rehearsal studio, 82 sq. m

13 editing and post-production studios

**Federico Fellini Media-library 2.430 sq. m**

**8 technology audit halls 118 total seats**

**Lobby 2.050 sq. m**

**4 window ticket office**

**Cloakroom 377 sq. m**

**Multipurpose central desk - length 28 m**

**Café 370 sq. m**

**Backstage total 4.960 sq. m**

**Management 380 sq. m**

**Worker rooms 190 sq. m**

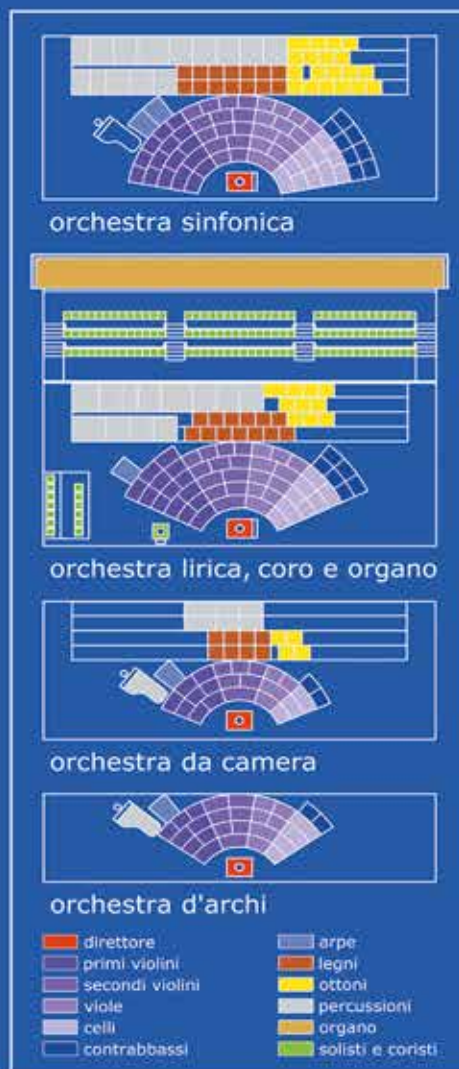
**Lighting Box 190 sq. m**

**3 start-up incubators, 1.420 sq. m**

**Offices for rent, 680 sq. m**

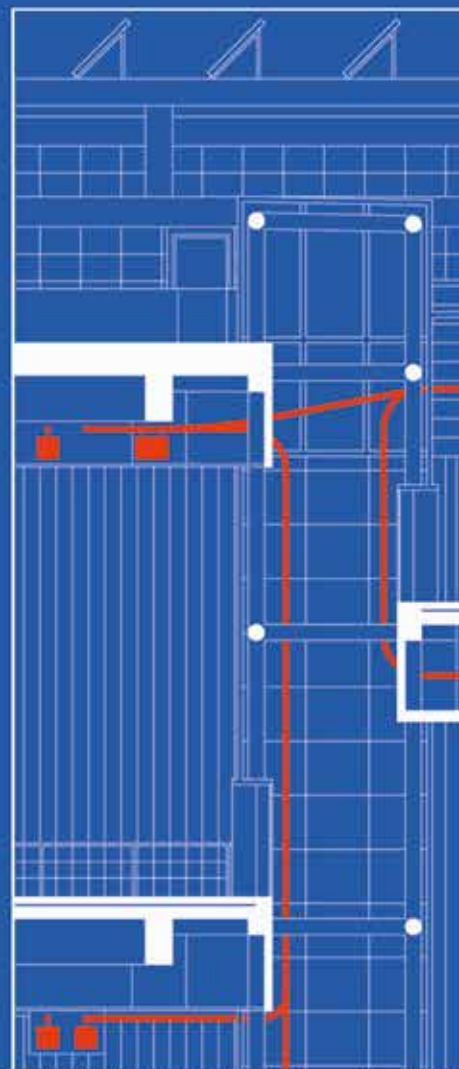
**2 shops, 318 sq. m**

**Outdoor hall in terraced court, 660 places**



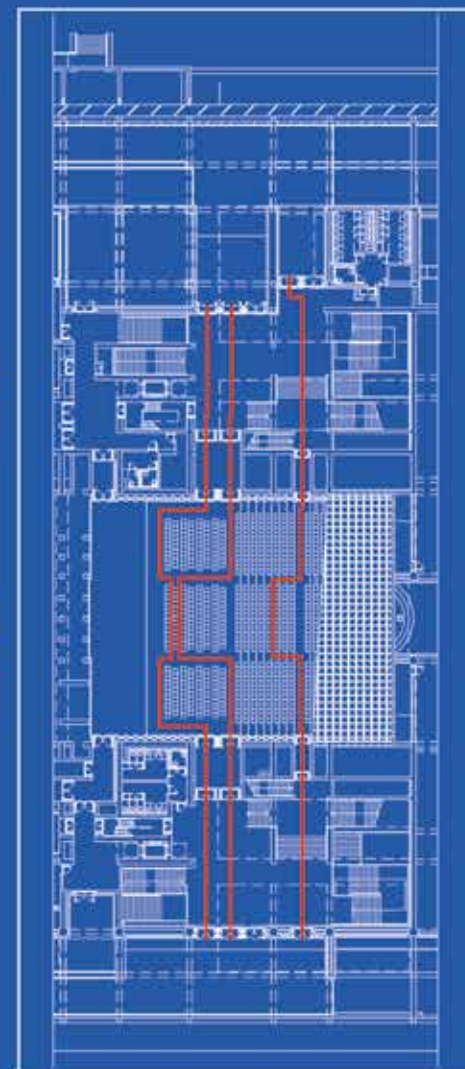
## Set-up

The stages and orchestra pits are planned to fit symphonic, opera, chamber and string orchestras, also integrated by additional instruments.



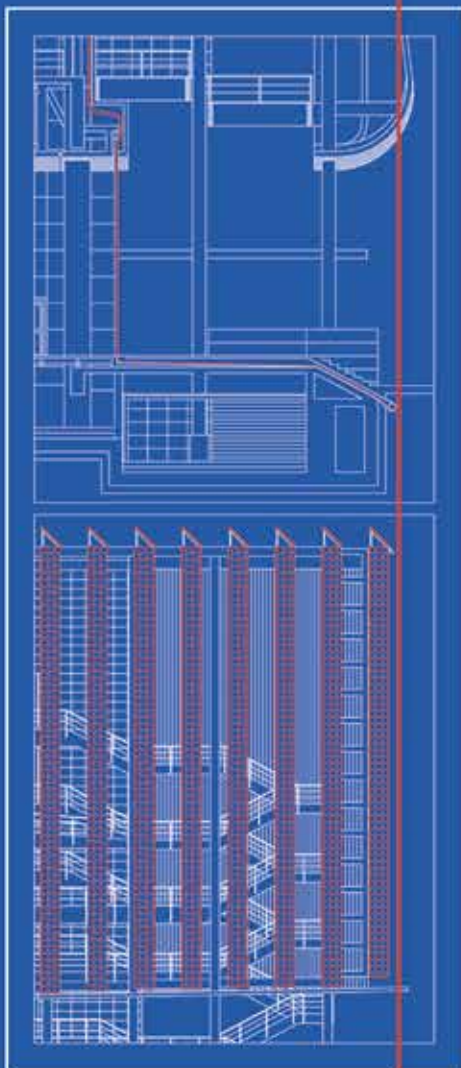
## Robot

Multimedia materials are kept in storage rooms in the third and fourth floors and in the basements, from which they are moved to the Media-library with a robotic system.



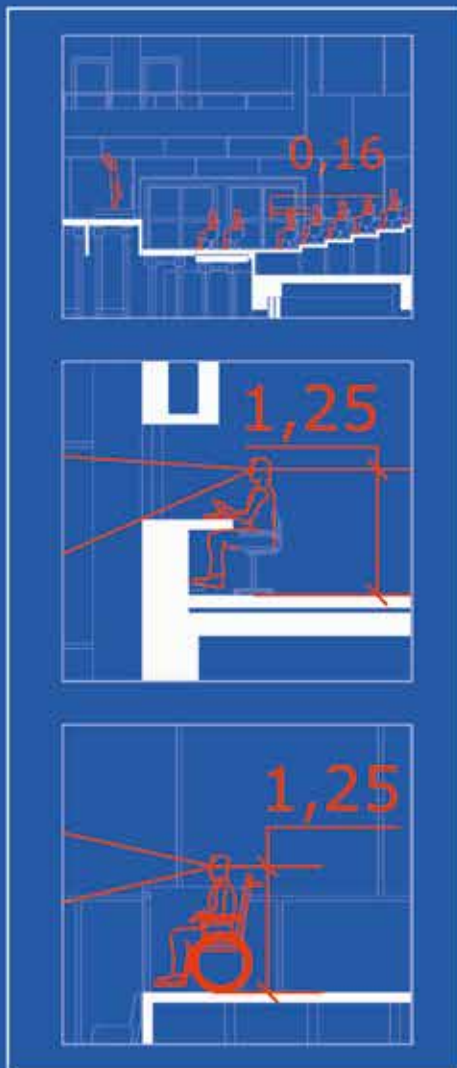
## Security

The width, length, emergency exits and evacuation plans for people with disabilities and activity limitations all respect current regulations and legislation.



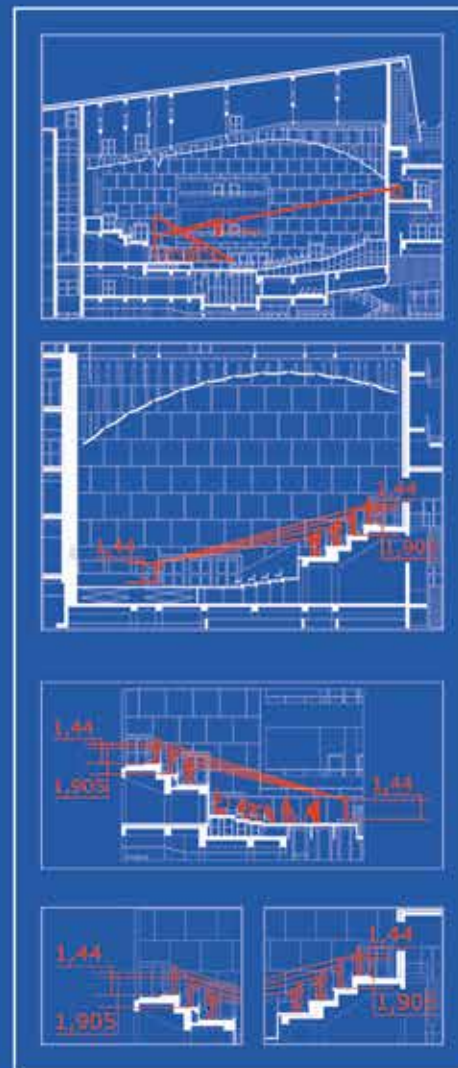
### Energetic Sustainability

acquisition of free energy, reduction of energy dispersion, water storage tank as source for heat pumps, water blades against overheating, independent divisible interiors.



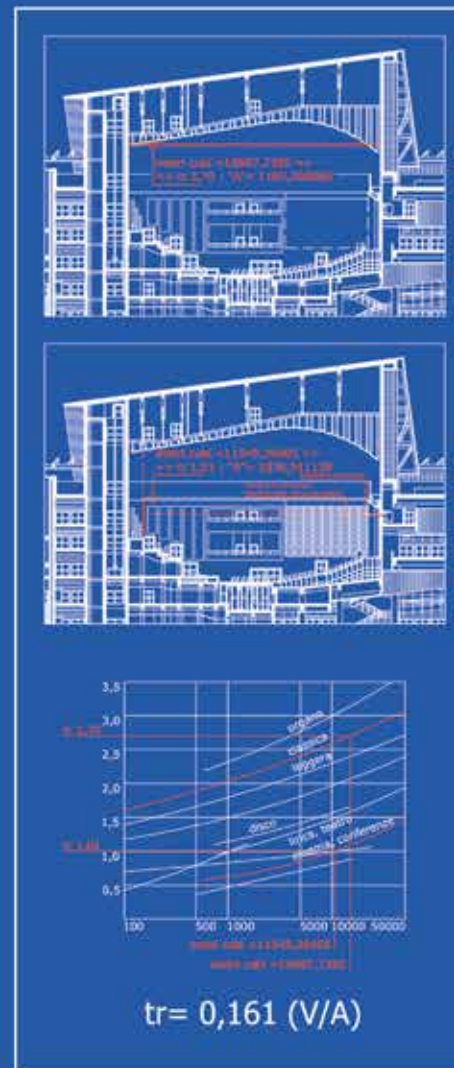
### Visibility

Visibility is planned depending on the different set-ups - halls for shows and conferences, cinema - from the areas dedicated to the audience, choirs, direction and projection booth.



### Cinema and choir visual angles

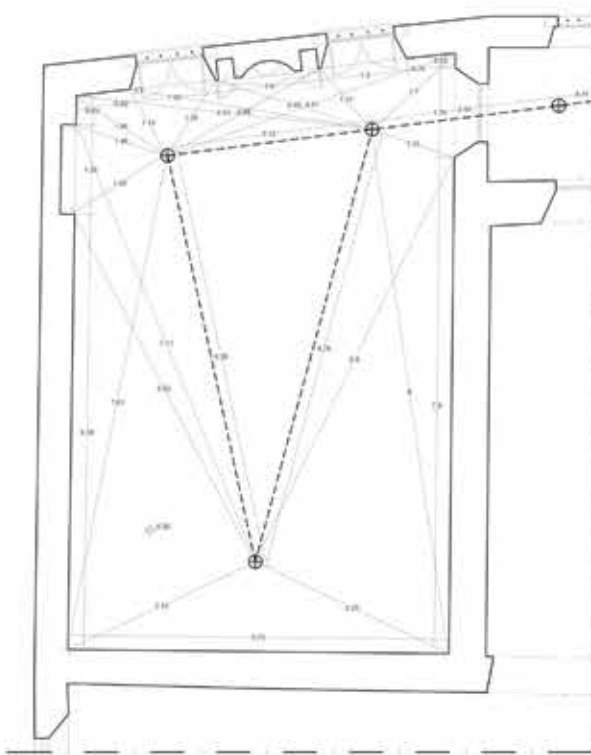
The cinema set-up respects optimum angles for projection and viewing. Any chorister can always see the director, irrespective of his/her height.



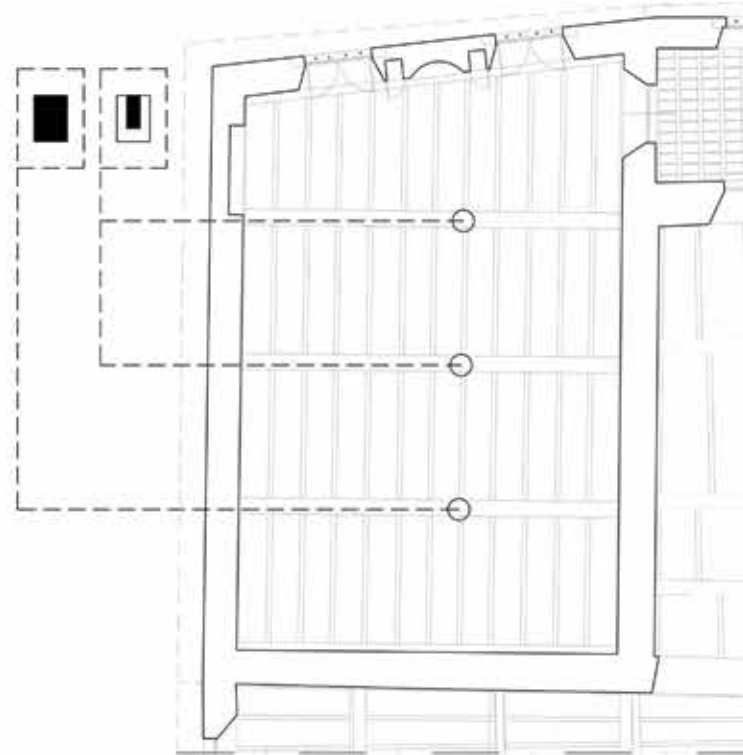
### Acoustics

Study of volumes and soundproof surfaces based on the optimum echo time for the different uses, at 500 Hz with empty halls. Volumes and surfaces change with the different uses.

## Auditorium-City of Music: studies



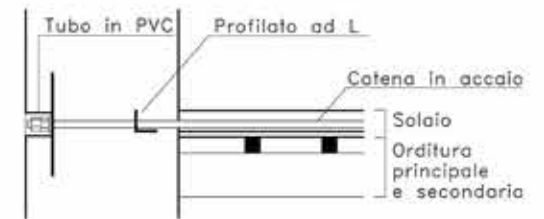
geometric analysis



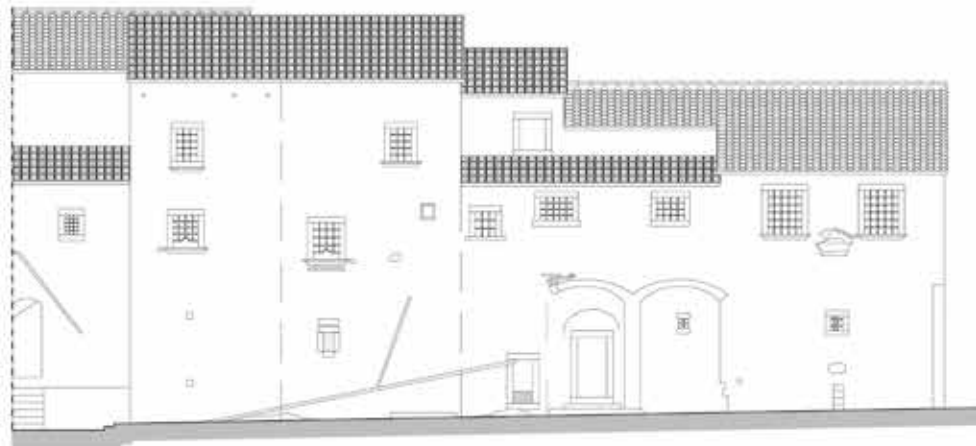
material analysis and renovation project



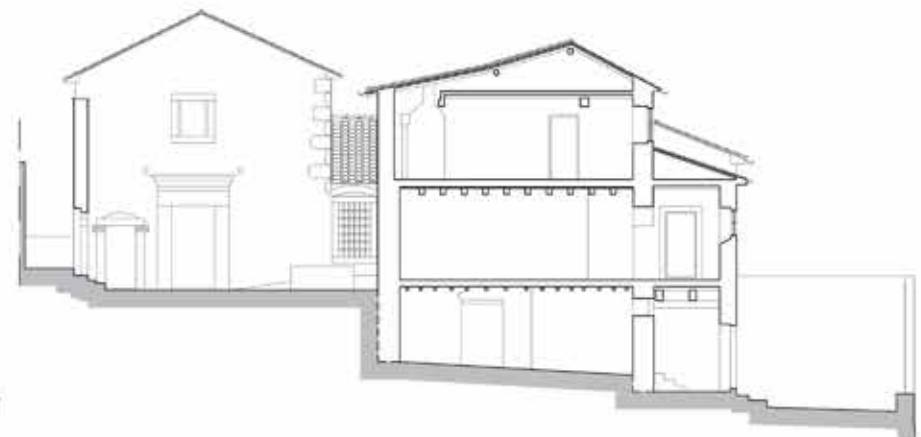
historical survey



structural consolidation



façade evaluation





UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE

## Saint Dominic and Saint Francis Monastery

conservation  
recovery  
re-use

### Survey

Gabriele BANCHETTI  
Maddalena BARBANTI  
Francesco SIMONI

### Renovation project

Gabriele BANCHETTI  
Francesco SIMONI

### Reuse project

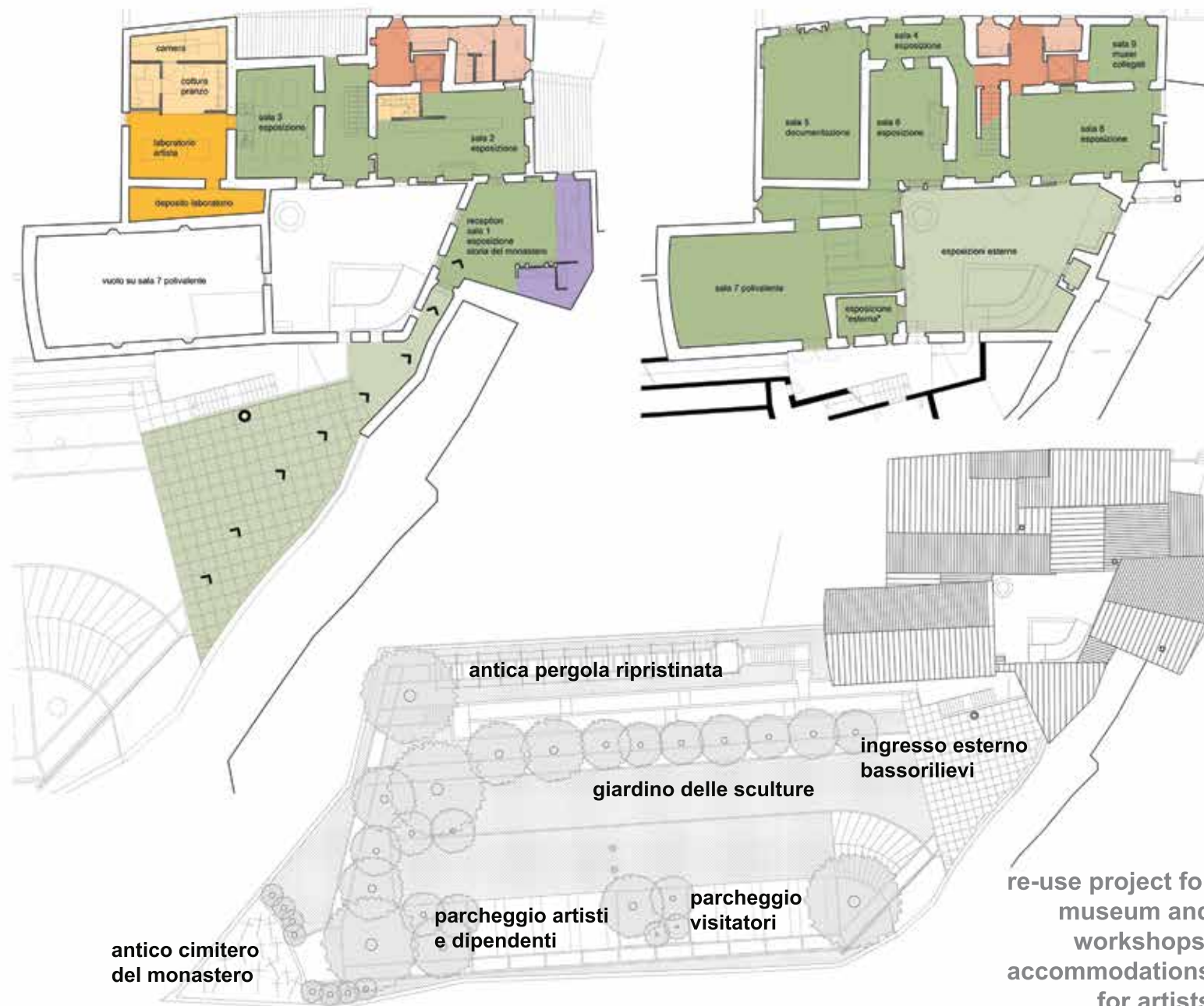
Francesco SIMONI

### Location

Popiglio - Pistoia - Italy

### Date

Dec. 01



## Saint Dominic and Saint Francis Monastery

re-use project for  
museum and  
workshops/  
accommodations  
for artists



### “Vitrine” d’Agropolis

Agropolis International is a research centre based in Montpellier which unites scientific institutes, universities, public administration and businesses in the region of Languedoc-Roussillon. It is a platform focused on the themes of agriculture, food, biodiversity and the environment in the area of the Mediterranean.

The project includes the recuperation of an old shopping centre, inside the city and near the motorway and tram line, to be transformed into the "showcase of Agropolis". The complex is planned as structure dedicated to informing the general public about the activities promoted by the scientific institution.





UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE



**ensam**  
école nationale  
supérieure  
d'architecture  
de montpellier

## 2 link projects

Projects for new structures each one connected to an existing institution for the cultural dissemination and the scientific research.

### Project

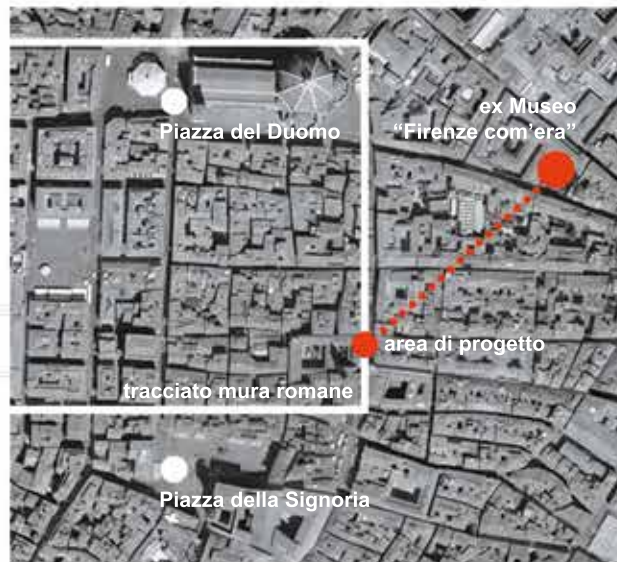
Francesco SIMONI

### Locations

Florence - Italy  
Montpellier - France

### Dates

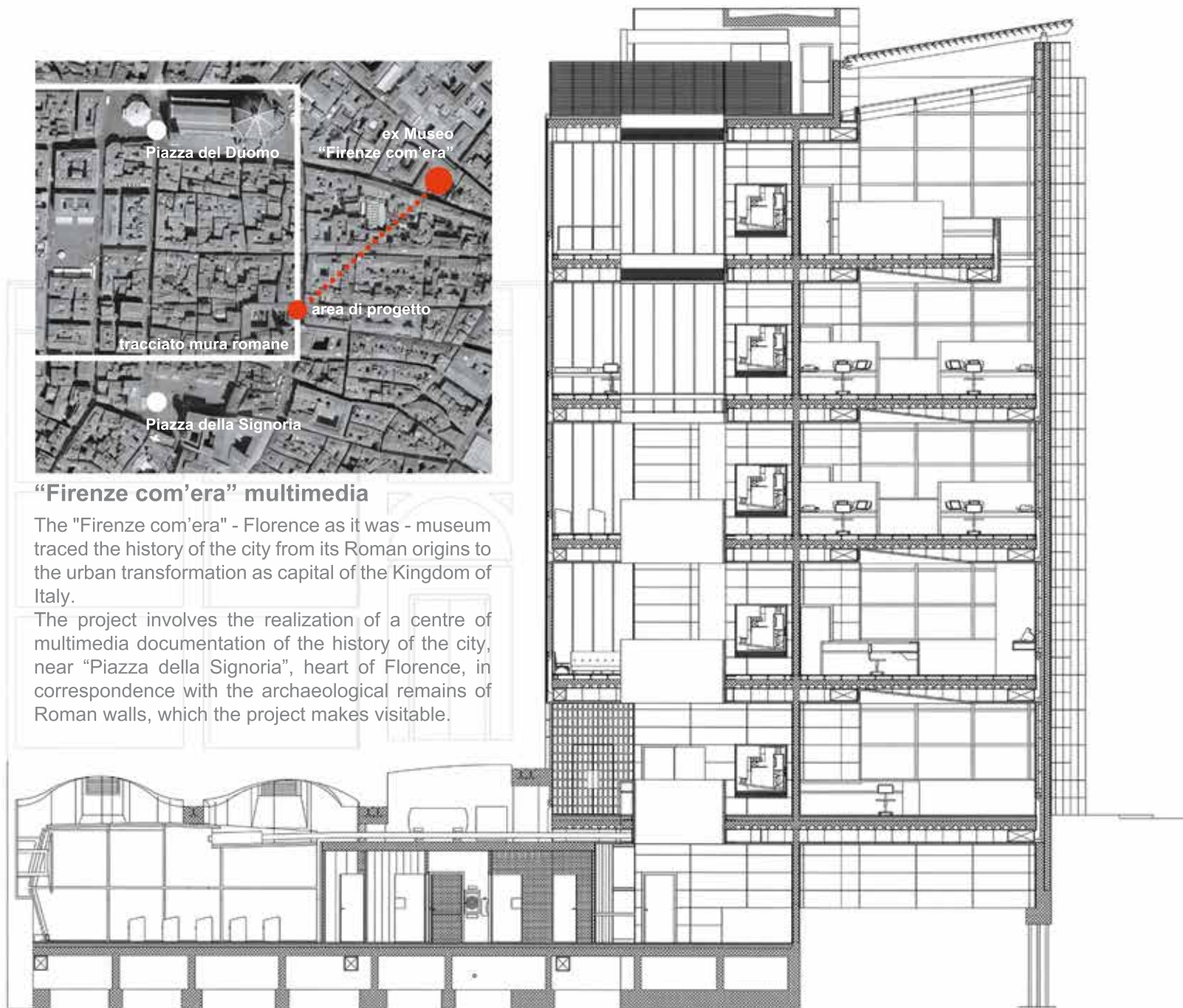
Sept. 98  
June 00



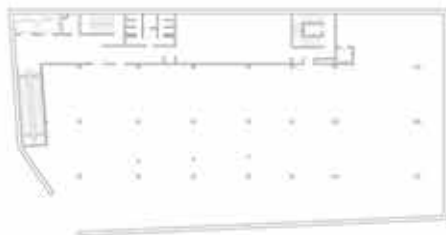
## "Firenze com'era" multimedia

The "Firenze com'era" - Florence as it was - museum traced the history of the city from its Roman origins to the urban transformation as capital of the Kingdom of Italy.

The project involves the realization of a centre of multimedia documentation of the history of the city, near "Piazza della Signoria", heart of Florence, in correspondence with the archaeological remains of Roman walls, which the project makes visitable.



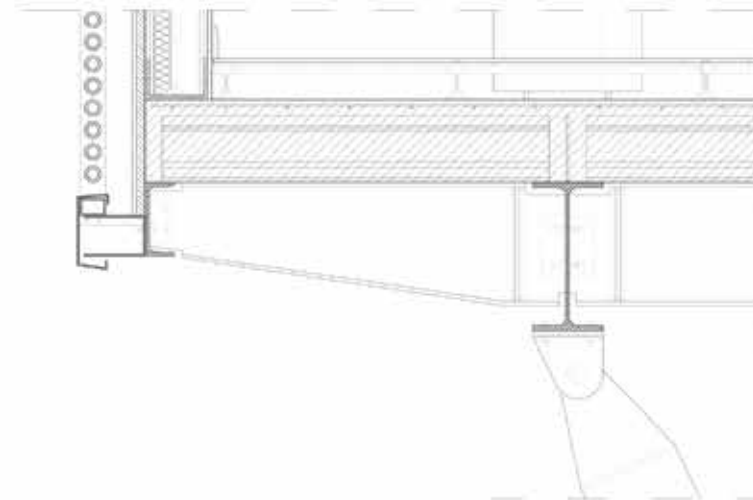
Links for scientific dissemination



Pianta piano interrato



Pianta piano terra



Pianta piano primo



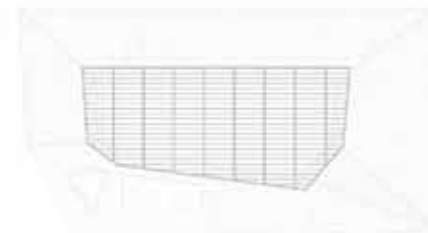
Pianta piano secondo



Pianta piano terzo



Pianta piano quarto



Pianta copertura



UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE

*Environmental Planning Course*

**Project**

**Eco-mall**

In the "Solar City at the centre of the World" - new sustainable neighbourhood along the Equator in Quito - Ecuador.

**Students**

Marco AIELLO  
Stefano ANGELONI  
Margherita BASSO  
Edoardo MANCINI

**Assistant**

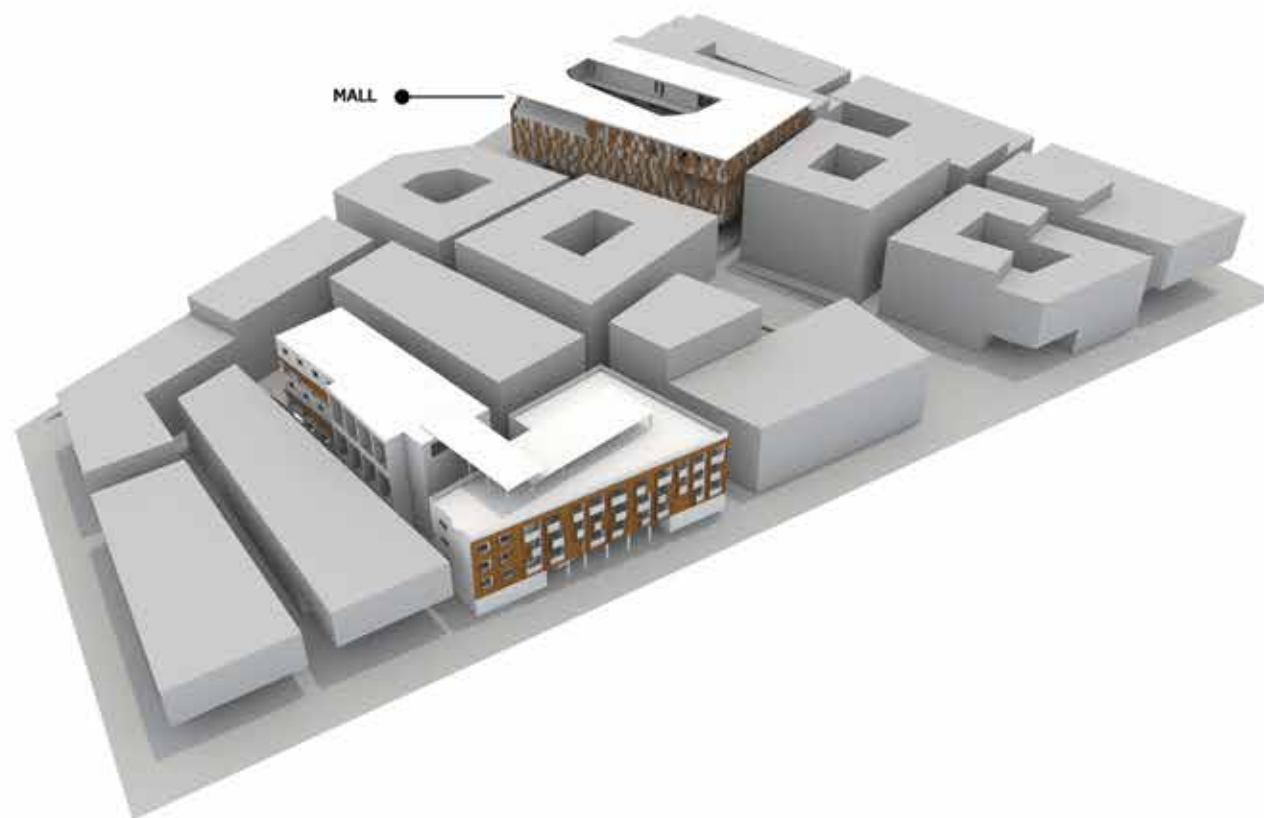
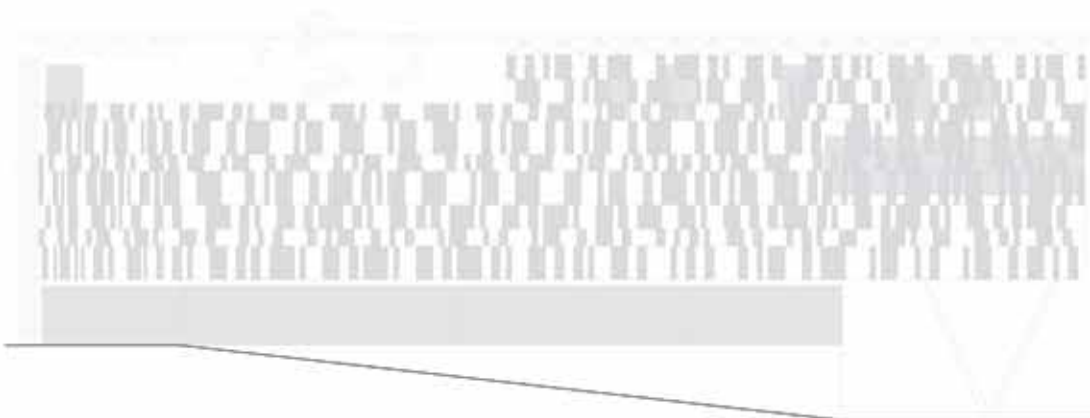
Francesco SIMONI

**Location**

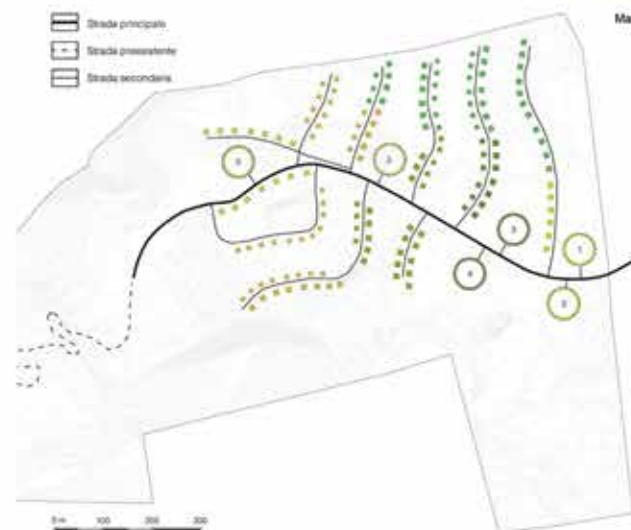
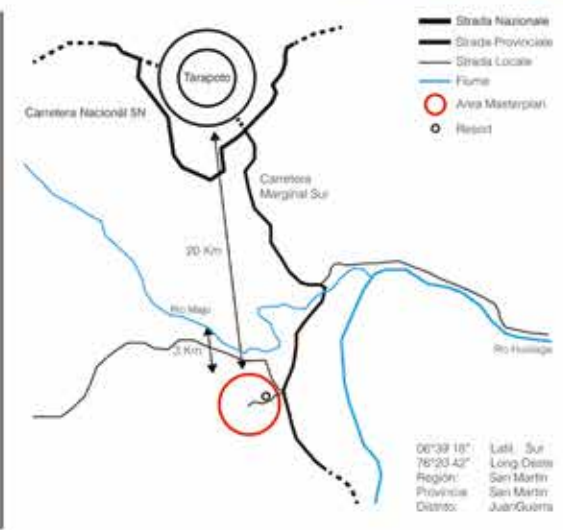
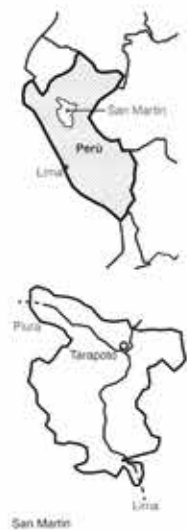
Quito - Ecuador

**Date**

June 12



Eco-mall



5- Area di progetto

| Fase         | Funzione          | Area (mq) |
|--------------|-------------------|-----------|
| Prima Fase   | Reception/Adm     | 1800      |
| Seconda Fase | Spa               | 2700      |
| Terza Fase   | Suities 20        | 2500      |
| Quarta Fase  | Ristorante        | 1000      |
| Quinta Fase  | Ambienti servizio | 270       |
| Sesta Fase   | Parcheggi         | 3000      |

136





**Graduands**  
Marco AIELLO  
Stefano ANGELONI

**Mentor**  
Marco SALA

**Co-mentors**  
Fernando RECALDE LEON  
Francesco SIMONI

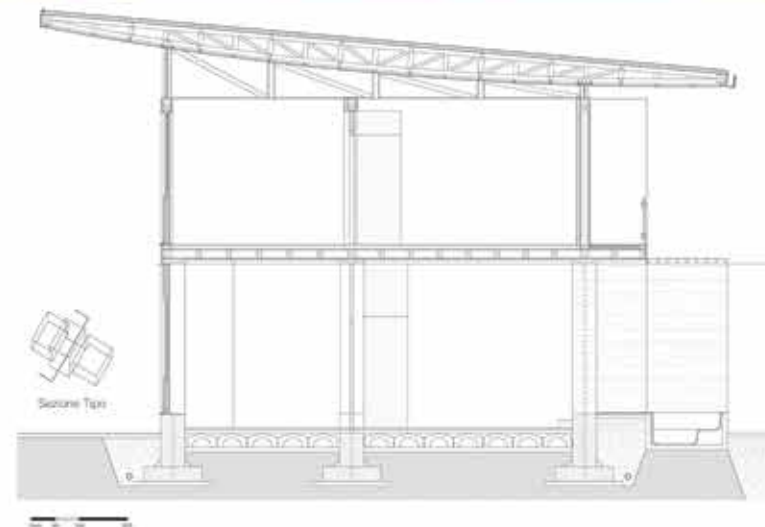
**Location**  
Tatapoto - Perú

**Date**  
June 13

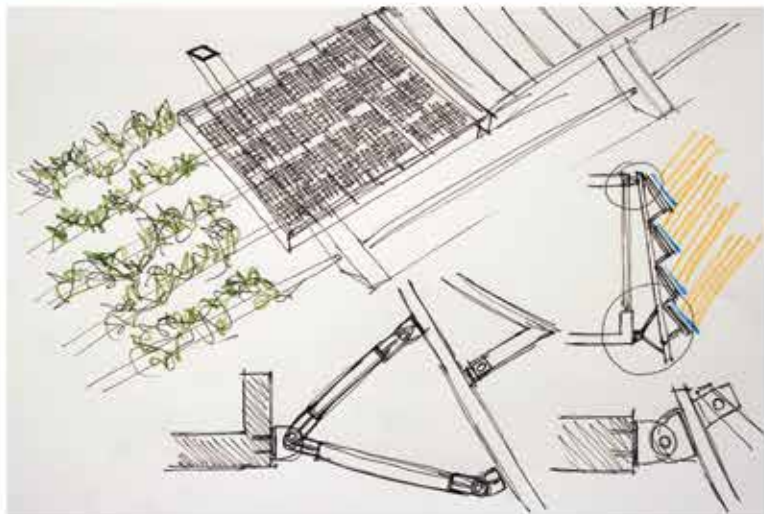
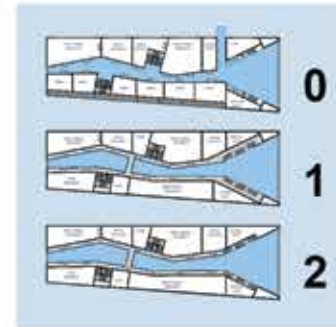
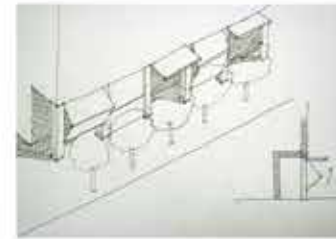
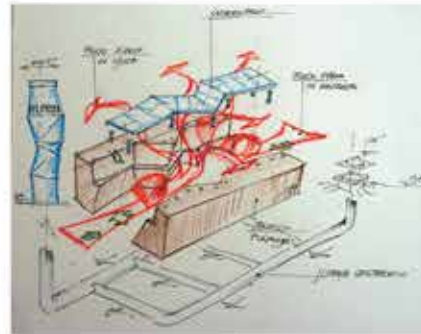


- La struttura portante è costituita da un telaio centrale di montanti e traversi irrigiditi da pannelli orti
- I montanti (8x15cm) hanno interasse compreso tra 60 e 65cm
- Le murature sono sormontate da un cordolo chiuso in legno adeguatamente fissato alle pareti
- Le piante sono compatte e simmetriche
- Lo spessore del muro è di 50cm
- Il rapporto tra spessore del muro e altezza è maggiore di 1/5
- Le aperture sono a tutta altezza per evitare carichi sospesi
- Il rapporto tra larghezza della finestra e lunghezza del muro è sempre maggiore 1/3
- La distanza tra due aperture è sempre maggiore di 1m
- La fondazione si comporta come un anello rigido
- La fondazione si eleva di 40cm da terra per evitare l'umidità di risalita

Sistema costruttivo  
Terra cruda  
Platform frame



**Eco-resort in the Amazon**



## Student residences

500 students  
common services

## Polimoda

Fashion Design / Fashion Marketing School  
Ateliers - Workshops

## Polimoda/Campus

Central lake/mouth  
Buildings/fingers-eyelashes



Workshop  
Planning sustainability  
**BEHNISCH Architekten**

#### Project

### Polimoda

- new location for the POLIMODA school
- student lodging
- office building
- hotel

#### Planning team

Lorenzo BIAGIOLI - arch.  
Rudy DAVI - arch.  
Alberto MORAS - arch.  
Catia ROMBOLÀ - arch.  
Piero RUSSO - eng.  
Francesco SIMONI - arch.

#### Director

Martin HAAS  
BEHNISCH ARCHITEKTEN

#### Location

new urban centre  
RICHARD ROGERS  
PARTNERSHIP  
Scandicci - Florence - Italy

#### Date

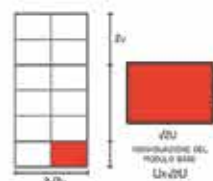
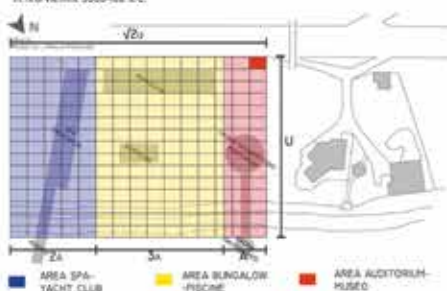
Nov. 10



## Polimoda Campus



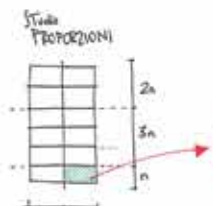
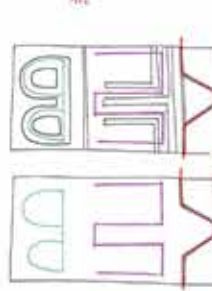
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA



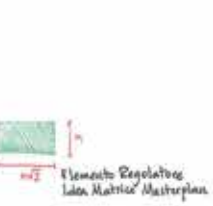
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA



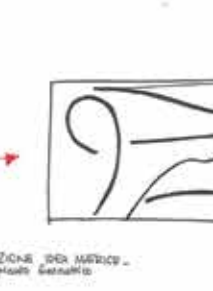
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA



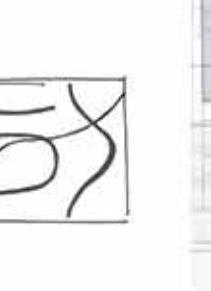
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA



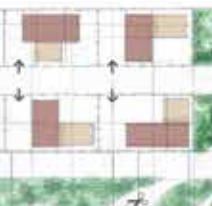
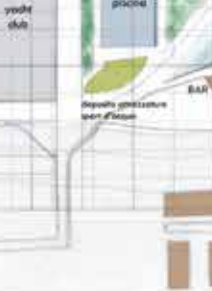
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA



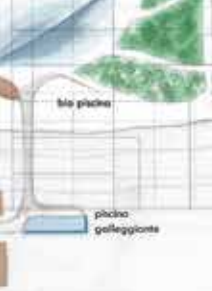
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA



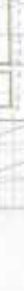
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA



STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA



STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA  
STATUETTA PRELIMINARE DELLA CINA



### TRATTAMENTO ACQUE METEORICHE

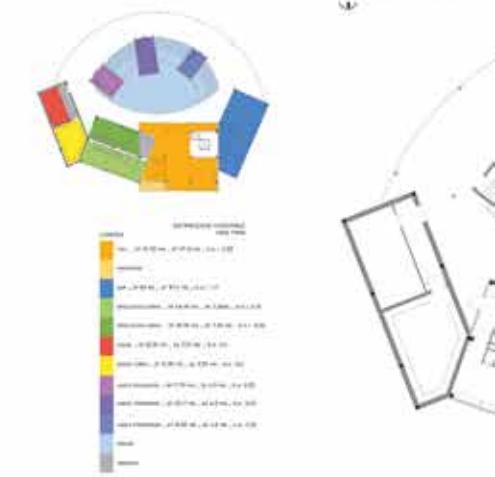
Le acque meteoriche vengono convogliate all'impianto di fitodepurazione delle acque grigie, subiscono il trattamento e ritornano in circolo per utilizzo interno al complesso.

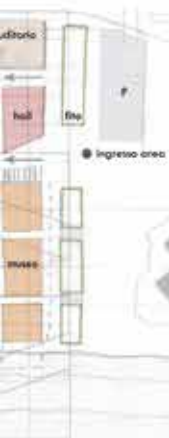
### SISTEMA DI SCHERMATURA SOLARE

La copertura e le aperture dell'edificio, grazie ad opportuni sistemi di schermatura regolabili, permettono il riparo dei volumi dall'irraggiamento solare.

### VENTILAZIONE NATURALE

La presenza di una doppia copertura, solaio realizzato rispetto al livello del terreno, e la corretta ubicazione delle aperture in relazione alla direzione dei venti, favorisce la naturale ventilazione all'interno degli edifici.





UNIVERSITY OF FLORENCE  
FACULTY OF ARCHITECTURE  
*Environmental Planning Course*

**Project**  
**Multifunctional  
touristic centre**

Hall and administrative office  
Yacht club  
Conference hall  
Interpretation centre  
Spa  
Marina - touristic harbour  
Bio-swimming pool  
Floating swimming pool  
Cabins  
Floating houses  
Park - square  
Phyto-purification  
Common services

**Students**

Manuela ASTONE  
Elena BALDINI  
Giulio MICHELUCCI  
Eleonora MONZALI

**Assistant**

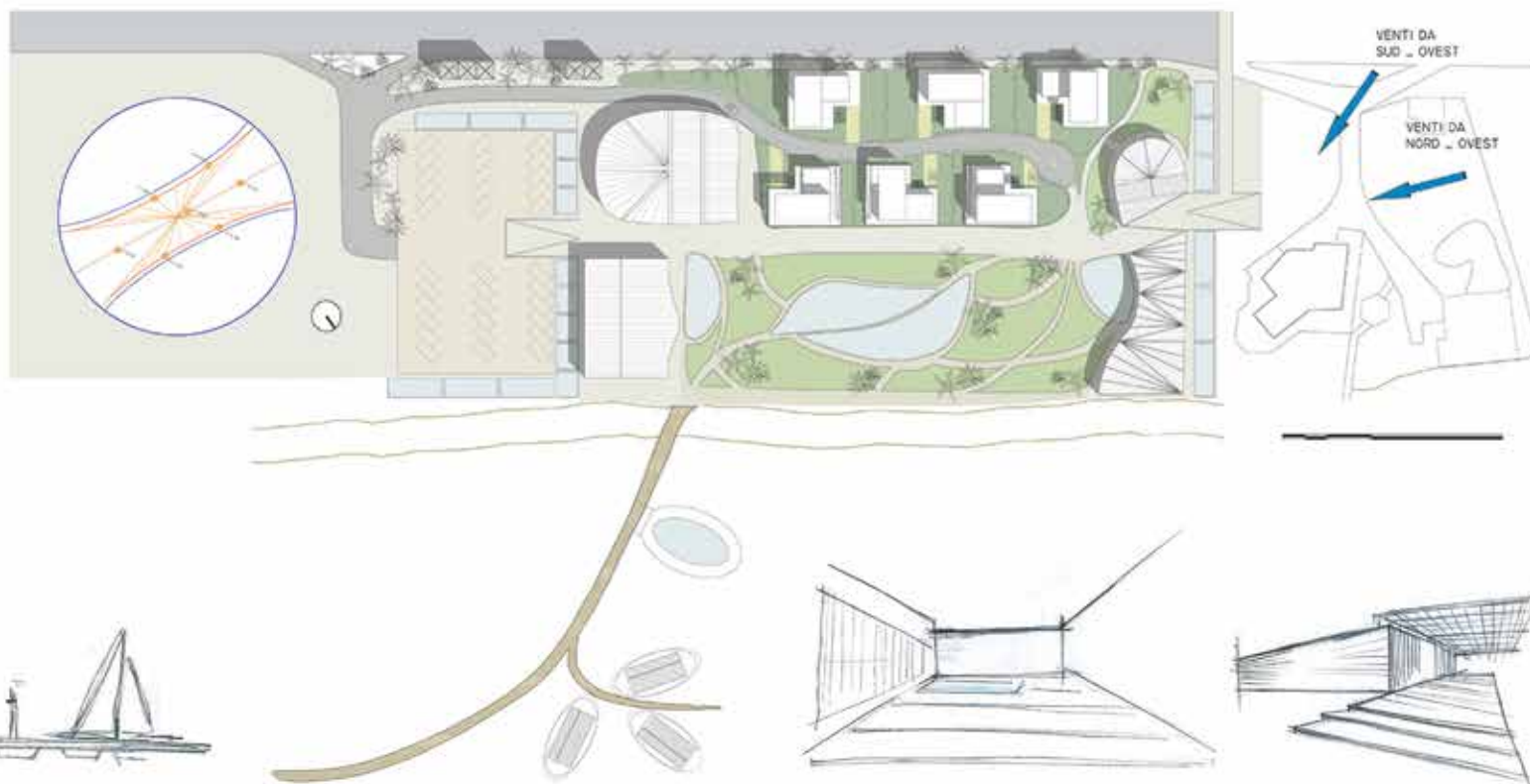
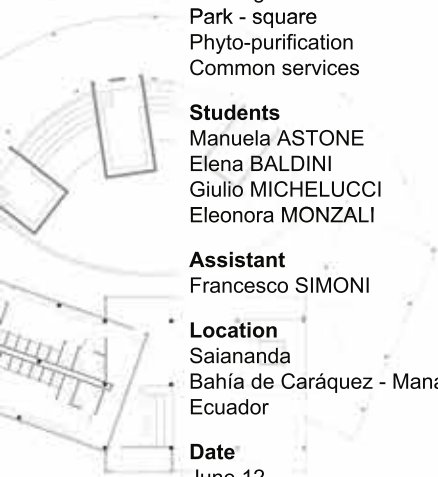
Francesco SIMONI

**Location**

Saiananda  
Bahía de Caráquez - Manabí  
Ecuador

**Date**

June 12



## Waterfront

