

The background of the entire page is composed of numerous thin, concentric circles that radiate from a central point, creating a ripple effect. These circles are of varying diameters and are distributed across the entire white background.

# SS

*Based in Bologna, Italy*

**School  
of Sustainability**

# SO

*Architecture in Revolution*

*Post Graduate Education by Mario Cucinella*

# S



► SOS emerges from a simple but fundamental idea (or question): the future of our profession.

► SOS is a place to build a culture of sustainability through dialogue and sharing a common vision of the future.

► SOS is a place where recent graduates and emerging professionals learn to embrace the complexity of practice.

► SOS examines major goals for the coming decades, basing its approach upon 25 years of experience on major European and global objectives.

► SOS is a place for immersion in the times to come, but also a place of creativity and interaction.

► SOS is designed for those called to an active and participatory role in their life-long professional development.

► SOS is a school but also an incubator, a place for working collaboratively and for sharing the experiences of others.

► SOS partners with companies to learn from them and with them, and to work in their laboratories to seek new solutions.

► SOS is an open cultural community, connected with key national and international players in architecture, design and sustainability.



Mario Cucinella

***People have changing desires and needs while facing new economic, environmental and social challenges.***

***Architecture and urban design are called upon to provide appropriate responses in harmony with the environment and the cultural context.***

***However, there is a clear disconnect between aspirations and outcomes when it comes to sustainability.***

***To bridge the gap, we must redraw the professional figure of the architect through new approaches and visionary learning strategies.***

## SOS IS

*A creative  
and  
experimental  
laboratory*

*A cultural  
and  
professional  
platform*

*A national  
and  
international  
network*

## SOS CORE VALUES

*Design  
creativity*

*Sustainability*

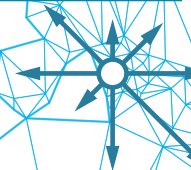
*Complexity*

## SOS CORE THEMES

*Visionary*

*Strategic*

*Ecosytemic*



## SOS MISSION

*Provide the highest  
quality practice-based  
experience and  
opportunities for  
the next generation  
of professionals.*

*Serve as a nexus  
for the exchange of  
knowledge for the  
building industry, the  
community and the  
profession.*

*Instill a culture of  
responsible and  
sustainable design  
methods, processes  
and practices.*

## SOS VISION

### TO DESIGN THE FUTURE

- ▶ to advance a humanistic approach in architecture and urban design while addressing our present and future challenges.

- ▶ to advance architecture's cultural, social, economic and environmental impact, relevance and value.

- ▶ to define processes of transformation for a sustainable world and lead systemic change through collaboration.

### TO DEFINE THE FUTURE

- ▶ of professional education through a revolutionary model of integrated education / research / practice.

- ▶ of practice by transforming the professional development path and changing to an open and shared culture.

- ▶ of the profession by repositioning architects through innovative and intelligent driven strategies.

## SOS IMAGINED FUTURE

### IMAGINE A FUTURE WHERE

- ▶ the intelligent investment of design positions us as global experts, leaders and stewards of the environment.

- ▶ design delivers outstanding quality that is responsive and sustainable.

- ▶ all stakeholders are involved from the initiation of the project.

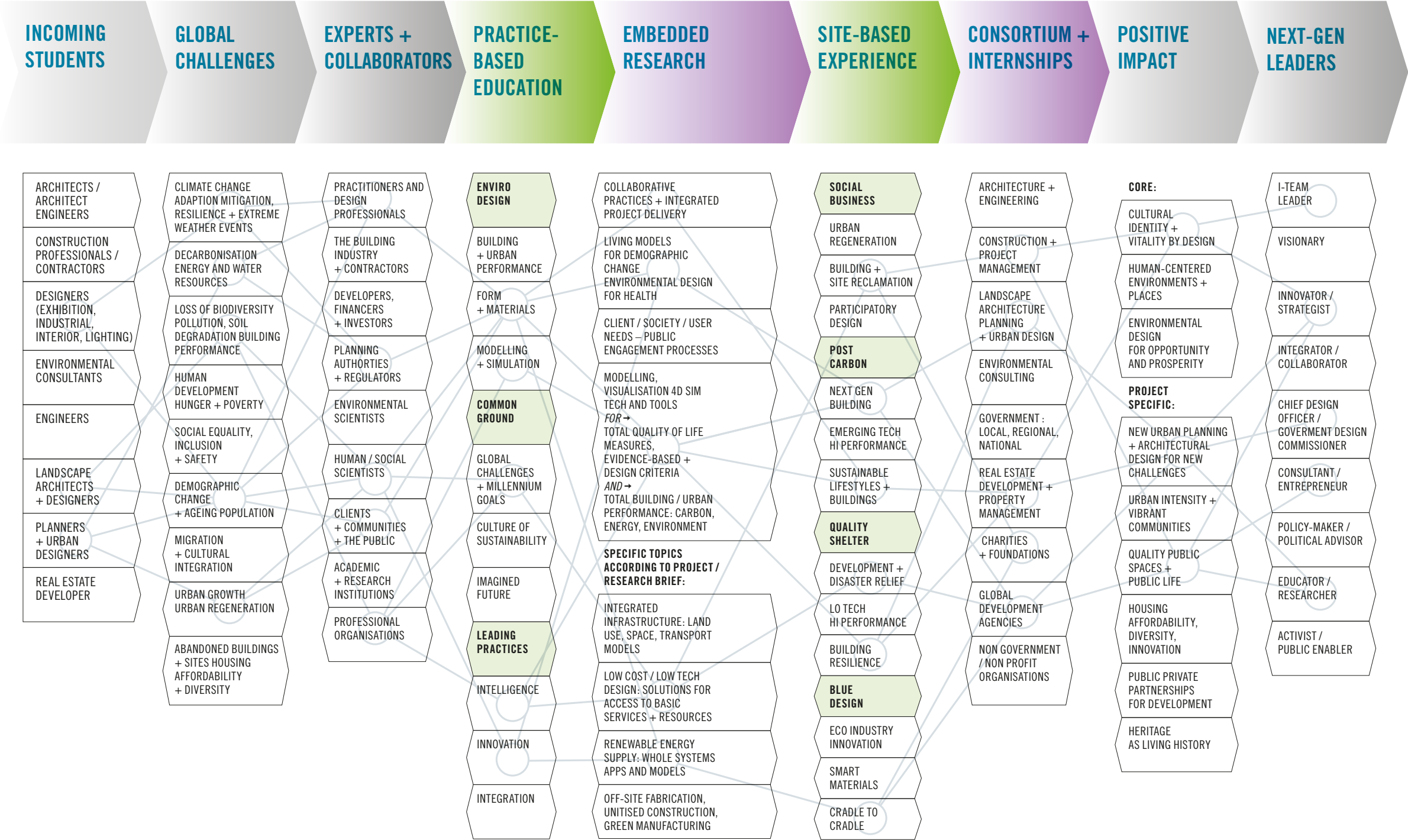
- ▶ decisions are performance-based and value-driven.

- ▶ all communications throughout the design and building process are clear, concise, open, transparent and trusting.

- ▶ outcomes are innovative and visionary.

# SOS PROGRAM

TRANSFORMING RECENT GRADUATES  
AND EMERGING PROFESSIONALS  
INTO THE NEXT GENERATION OF LEADERS



## SOS IS

*a professional school aimed at recent graduates to build experience in a setting that integrates education, research and practice.*

*a comprehensive program, combining principles with a practice-based approach to the design and application of the most advanced methods, processes and tools.*

*a training opportunity distinguished by its main focus on the application of sustainable architecture, from urban to product scale, from developing to advanced communities.*

## SOS WORKS

*by embracing global challenges at a local scale through co-design and public participation.*

*at the intersection of government, industry, practice, professional organisations and research institutions.*

*at the forefront of practice-based use-inspired research for the built environment industry and the profession.*

## SOS TRANSFORMS

### RECENT GRADUATES

### AND EMERGING

### PROFESSIONALS

- › Architects
- › Architect Engineers
- › Construction Professionals
- › Designers
- › Engineers
- › Environmental Consultants
- › Landscape Architects / Designers
- › Planners and Urban Designers
- › Real Estate Developers

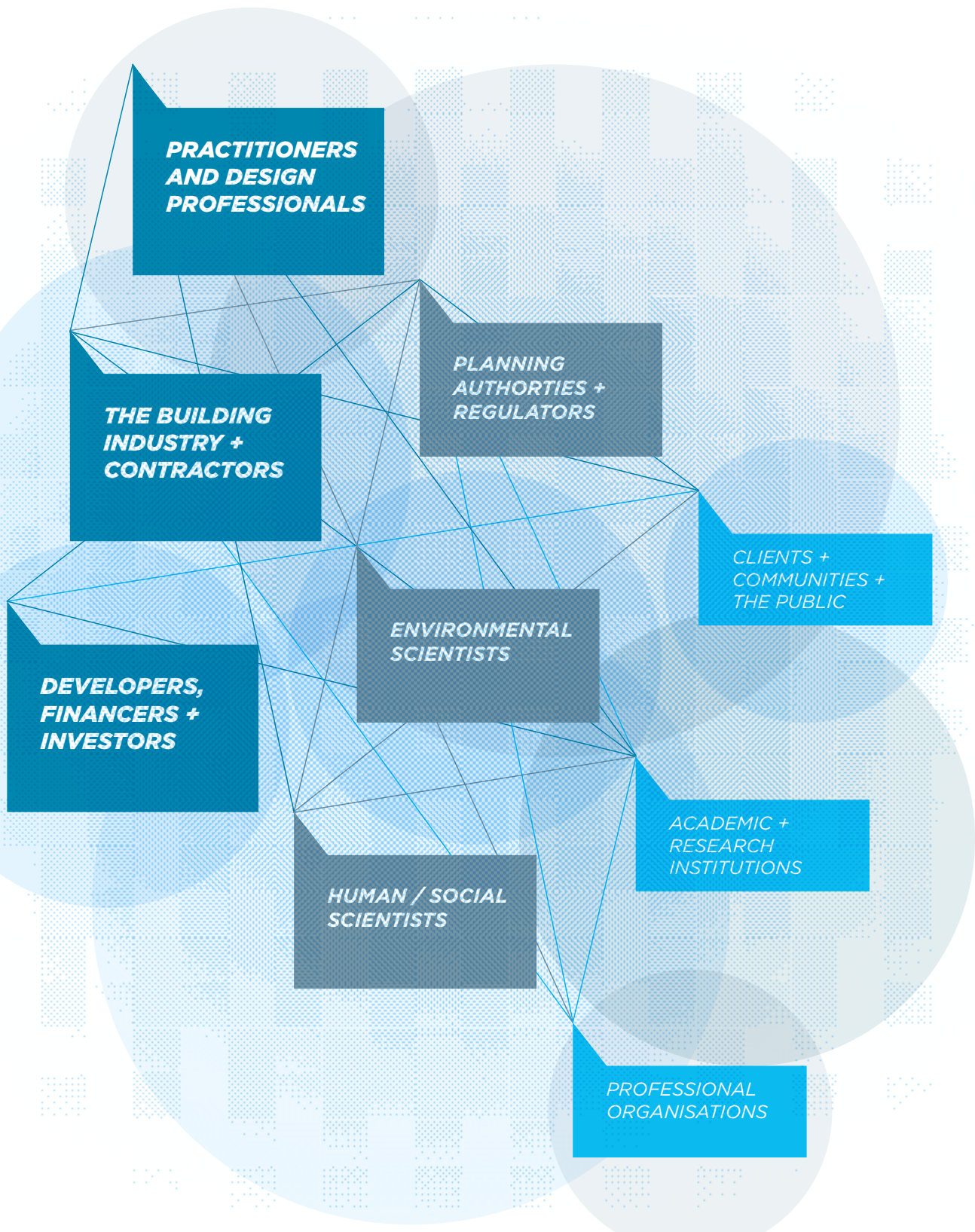
### TO GRADUATES OF SOS

### AS THE NEXT GENERATION

### OF LEADERS

- › practice with advanced sustainable design knowledge and principles.
- › define and deliver value to projects and lead in a professional context.
- › analyse and address complex challenges / problems both locally and globally.
- › design for future scenarios and define strategies for implementing innovative solutions.
- › apply tools to critically evaluate and optimize environmental performance at various scales.
- › undertake practice-based research in the context of a wide-range of projects and practices.
- › work collaboratively and communicate with a diverse group of stakeholders in the building process.
- › assume leadership roles as architects and design professionals in the community and public life.





# SOS VALUE

BENEFITS  
 AND RETURN  
 ON INVESTMENT

SOS is founded on the collaboration, interaction and partnering of a wide range of experts, individuals, groups and organisations. The SOS experience offers each and all unique value.

## for Students

- experience working collaboratively with experts and professional consultants on active and relevant projects.
- experience to leverage one's value in practice and the opportunity for leadership as a professional.
- access to SOS international network of professionals for career and other opportunities.

## for The Building Industry, Practitioners and The Profession

- a synergistic network for developing innovative processes, products and solutions with other partners.
- a place for creative experimentation and exploration with materials, components and construction systems.
- opportunities for Continuous Professional Development of architects, engineers and others in the building industry.

## for Clients, Communities and The Public

- a laboratory of ideas, democratic and open to the public with access to a learning environment with professionals.
- a platform for the development of projects to serve the community through collaboration and public participation.
- a place to address complex problems and develop innovative design solutions with a positive impact on society.

## for Governments - Local, Regional, National

- demonstrate integrated and strategic design approaches to complex challenges facing governments and society.
- advise political leaders, government administrators, decision- and policy-makers on design value and ROI.
- build models of collaboration between architects, agencies and tiers of local, national, regional and European governments.

## for Academic and Research Institutions

- partner with a leading center of integrated education, research and practice with a sustainability focus.
- develop new models of practice-based use-inspired research with a wide range of experts and partners.
- publish of present joint initiatives through the SOS programs and international practice and research network.

## for Charities and Foundations, for Global Development Agencies, for Non-Government / Non-Profit Organisations

- adopt holistic approaches to economic, environmental and social development and innovation through design.
- offer experience, training and workshops that leads to new opportunities and self-sufficiency for developing societies.
- collaboratively design environments which create a sense of belonging, identity, security and well-being for communities.

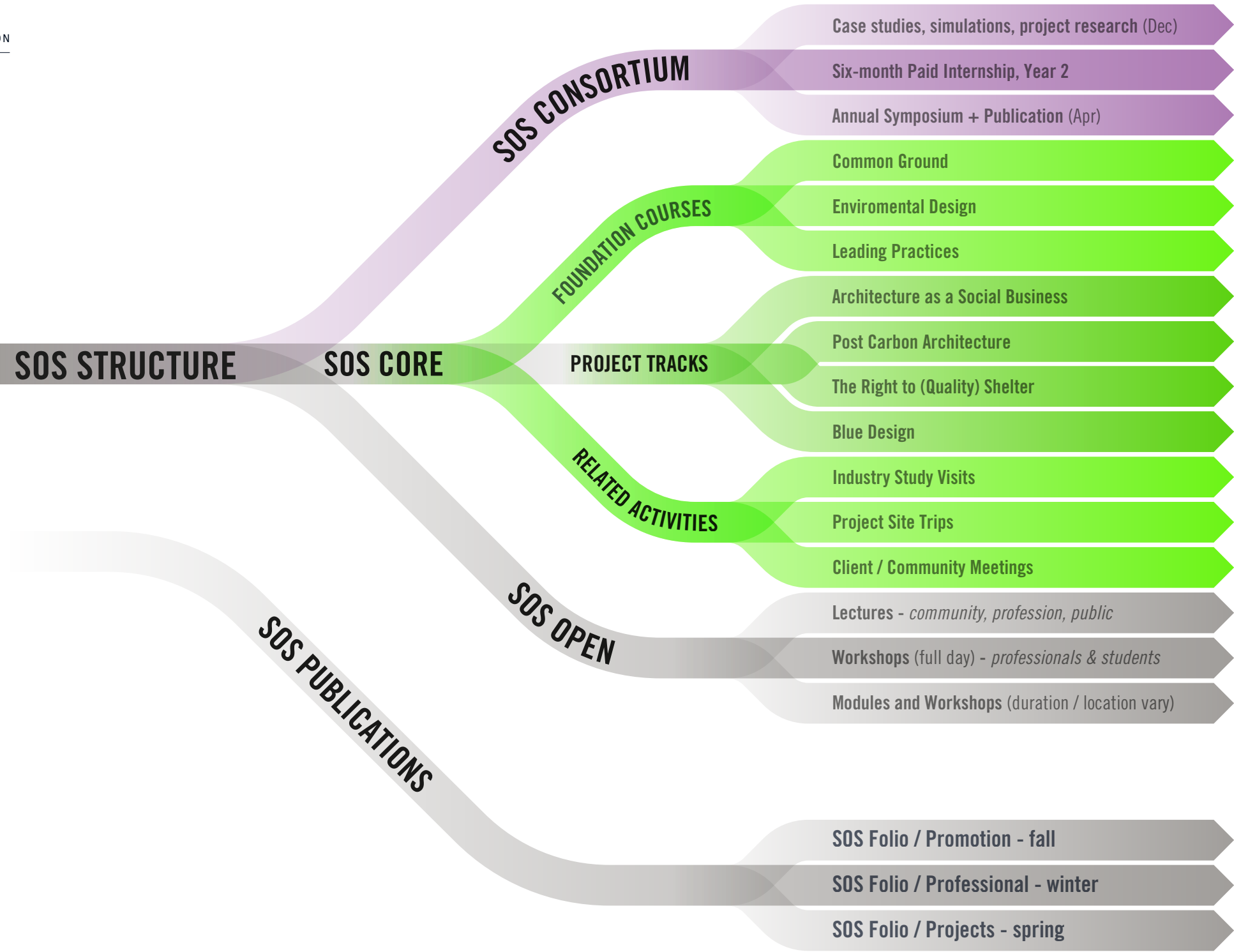
# SOS STRUCTURE

THE ARCHITECTURE OF INTEGRATION

The three pillars of the School - SOS CONSORTIUM, SOS CORE and SOS OPEN - are designed to leverage the collective energy and individual experiences of the SOS students and team within the professional context of Mario Cucinella Architects (MCA).

Supported by related activities including industry site visits, project study trips and regular client and community meetings, the sequence combines PRACTICE-BASED EDUCATION with RESEARCH-BASED PRACTICE and SITE-BASED EXPERIENCE.

SOS CORE is the central activity of the school, providing education, research and practice within a ten-month period followed by a six month paid internship in Italy and throughout Europe.



# SOS CONSORTIUM FOR PRACTICE AND RESEARCH

BUILDING KNOWLEDGE  
FOR THE BUILDING  
INDUSTRY

The SOS Consortium for Practice and Research is comprised of a wide range of firms / practices / studios (architecture, development, engineering, landscape, urban, etc.) governments, industry partners and organisations throughout Italy and Europe. The Consortium serves a critical function in the SOS mission, which is to be a nexus and platform for the exchange of advanced professional practice knowledge and experience with a particular focus on sustainability.

The goal of the Consortium program is to collectively and collaboratively build sustainable practice expertise in a forum that is non-competitive. Its objective is to establish a culture of shared knowledge through best practices and research. The formation of a Consortium community seeks to benefit the practices themselves, but also the profession and the public through a program of publications and workshops.

For a one-month period, the SOS students and team undertake a comprehensive CASE STUDY, SIMULATION OR RESEARCH the on the Consortium Members' projects. The research priorities are collectively defined by the Consortium to derive maximum benefit for all.

Once a year, the Consortium convenes to participate in the life of the school and to engage in a SYMPOSIUM WITH THE SOS FOLIO \_ PROFESSIONAL PUBLICATION featuring the results of the case studies, simulations and research representing the most advanced practices in sustainability.

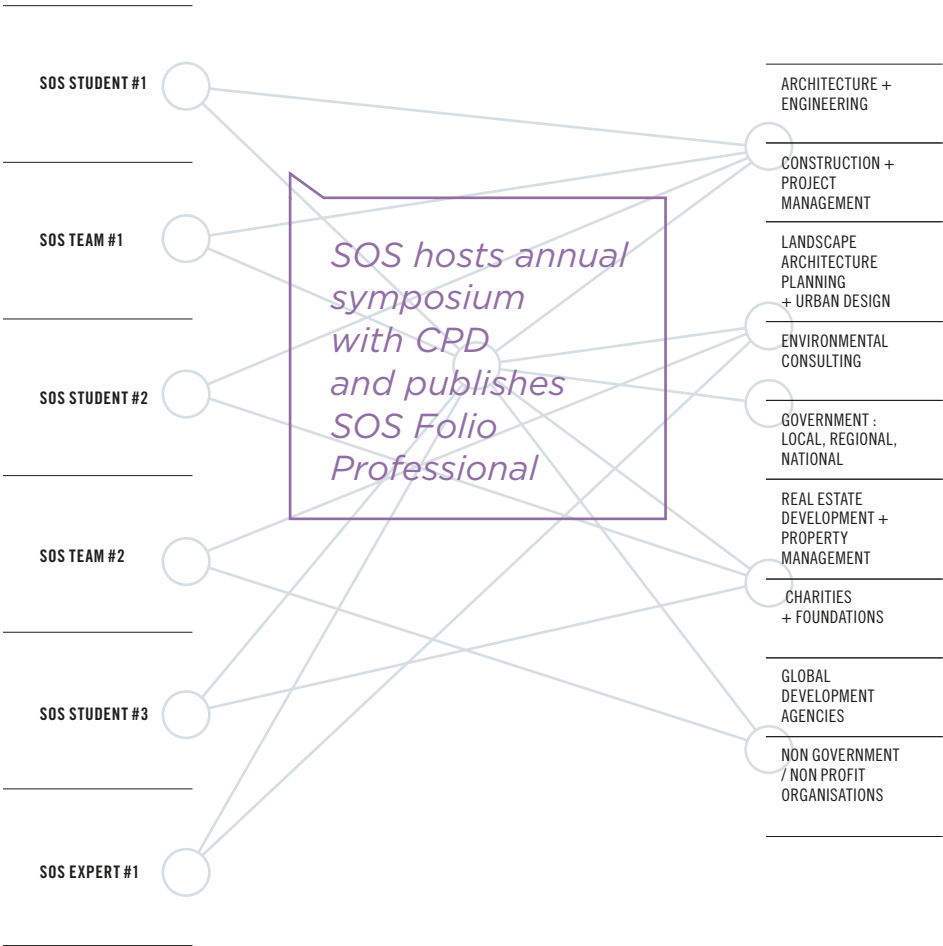
The main role of the Consortium within the structure of SOS is to offer a SIX-MONTH PAID INTERNSHIP placement in Europe to those who have completed the SOS program in Bologna. Internships are diverse in nature to leverage the experience of SOS graduates to have impact in a wide variety of settings.

## SPECIFIC BENEFITS TO THE CONSORTIUM MEMBERS INCLUDE:

- ▶ access to shared knowledge, research and resources through SOS as a place and as a program.
- ▶ access to monthly Continuing Professional Development Workshops with credits (SOS OPEN).
- ▶ access to the SOS international network (industry, government, practices, etc.).
- ▶ access to professional experts in MCA and tutors in the Environmental Design course.
- ▶ access to highly qualified interns with specialized experience in sustainable practice.
- ▶ learn state of the art best practices for building simulation and environmental performance.
- ▶ develop the capacity for practice-based research methods via the SOS program.
- ▶ reputation building through connection with the SOS community.
- ▶ publication of projects though SOS Folio Professional Publication.

SOS experts network, SOS team and students provide case studies, simulations or project research for each consortium member

Diverse Consortium members provide 6 month paid internship







## SOS OPEN

EXCHANGING IDEAS  
ABOUT SUSTAINABILITY  
WITH THE COMMUNITY

*SOS OPEN events are aimed at promoting cultural awareness for the public as well as practice-related advancement for active professionals. Each lecture and workshop provides Continuing Professional Development (CPD) credits for registered architects and engineers.*

### SOS OPEN LECTURES

Once a month, over a 10 month period, leading professionals active in the field of design and sustainability are invited for public lectures. These events are dedicated to the exploration of approaches and ideas amongst different personalities who share a common vision for the future.

### SOS OPEN 1 DAY CPD WORKSHOPS

In relation to the Foundation Courses, the Consortium for Practice and Research and the Project Tracks, SOS OPEN offers one day workshops for professionals to earn Continuing Professional Development credits. These thematic workshops are an opportunity for practitioners to gain the latest knowledge on a range of subjects.

### SOS OPEN 1 DAY TO 2 WEEK MODULES AND WORKSHOPS

Based on community needs and current events, the SOS Teams and students offer 1 day to 2 weeks conferences, modules or workshops at SOS or on site. These workshops offer co-design and learning opportunities for all involved and culminate in the public display and possible implementation of the work.

## SOS PUBLICATIONS

SHARING  
THE SOS EXPERIENCE  
ACROSS THE GLOBAL

*SOS PUBLICATIONS are designed to transfer the experience and knowledge of the SOS activities to the public and the profession.*

### SOS FOLIO PROMOTION - FALL

Curriculum, program and structure of the SOS as it evolves from year to year.

### SOS FOLIO PROFESSIONAL - SPRING

Activities of the SOS Consortium including case studies, simulation and project research as well as the SOS Annual Symposium and SOS Internships experiences.

### SOS FOLIO PROJECTS - SUMMER

Student work from the Foundation Courses and Project Tracks as well as a storyboard of extracurricular activities.

## SOS CORE THE THREE FOUNDATION COURSES

**The three foundation courses are preparatory for all project tracks. These consists of a series of lectures and workshops to develop a solid foundation of knowledge in sustainable design and practice.**

### COMMON GROUND

To built a culture  
of sustainability

### LEADING PRACTICES

Integrated, innovative  
and intelligent design

### ENVIRONMENTAL DESIGN

Evidence and performance  
based design

## COMMON GROUND

*The course introduces students to the Culture of Sustainability through dialogue with different personalities, but who share a vision of the future.*

**Course Leader: Alberto Bruno**  
**9 weeks (2 days/week)**

#### KEY THEMES

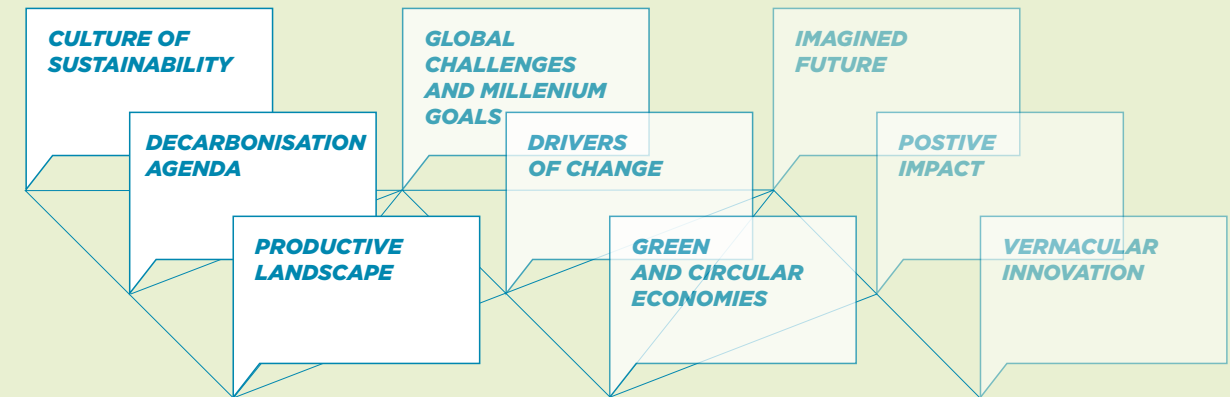
#### KEYWORDS

► Common Ground analyzes key issues and challenges that lie ahead, providing the knowledge and tools necessary to design a decent and fair future for all.

► Common Ground fosters growth of a group of creatives engaged in the search for appropriate solutions in harmony with the environment and the cultural context.

► Common Ground includes keywords for building a 'common vocabulary' of the key themes of sustainability, the environmental challenges we face in the coming decades as well as the emerging needs of people. The course is engaged in developing the 'meaning' of keywords through the acquisition of new knowledge. Moreover, a special focus is devoted to analyse and discuss the body of work already developed in the previous editions as a springboard to identify the course research themes. Students are involved in processing data collected to identify main themes and challenges.

► Common ground is based on a multidisciplinary introduction to the principal lines of research and professional activities in the field of sustainability. Classes are taught by established professionals, innovators and researchers, who will engage in discussion with students. Topics include climate, emerging technologies, social innovation, the relationship between economy and ecology, growth forecasts and opportunities for society and the region.





# ENVIRONMENTAL DESIGN

The course goal is to apply an understanding of the principles, strategies and analytic techniques of environmental design to real world design problems at both the urban and individual building scales.

Course Leader: Brian Ford  
11 weeks (3 days/week)  
+ thematic seminars and workshops

KEY THEMES  
KEYWORDS

A key objective is to embed evidence-based environmental design thinking within the design process. Students have the opportunity to apply this approach to the critical evaluation of casestudy projects and of their own proposals.

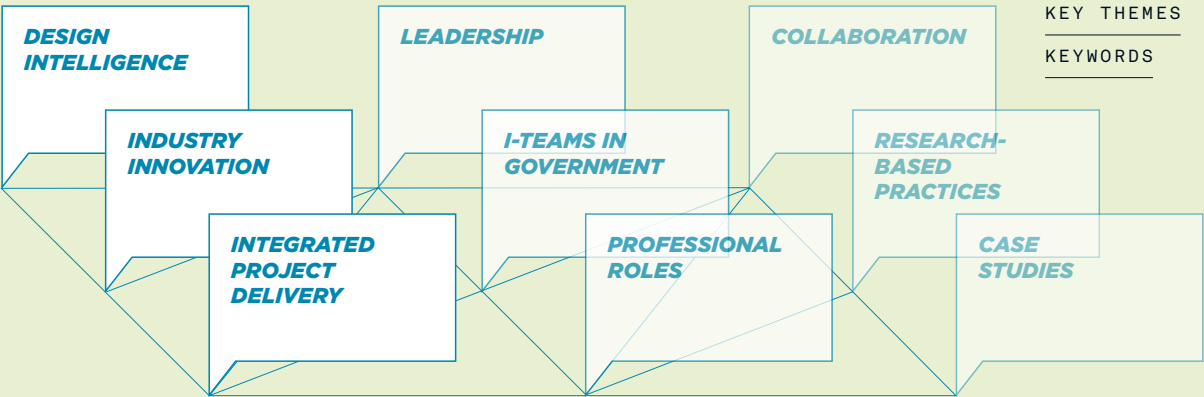
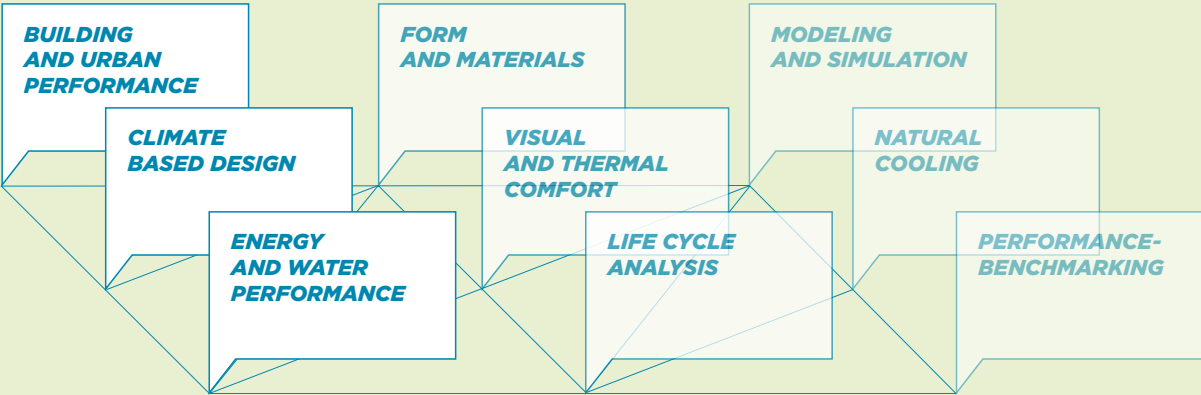
The final design exercise contributes to the focus on current projects developed by Consortium Members.

In the project phase, the design development is based on environmental performance targets. In addition, a series of thematic workshops and seminars are organized to address specific project objectives, including the selection of material and components according to environmental criterias, the exploitation of renewable energy sources and techniques for water and waste management.

MODULES	TOOLS
1. COMFORT AND WELL BEING	→ CBE THERMAL COMFORT
2. CLIMATE AND CONTEXT	→ CLIMATE CONSULTANT
3. URBAN COMFORT	→ ECOTECT + FLOW DESIGN
4. URBAN ENVIRONMENT AND DESIGN	→ ECOTECT + FLOW DESIGN
5. SOLAR CONTROL	→ SOLAR TOOL + ECOTECT + LADYBUG
6. DAYLIGHT DESIGN /1	→ RADIANCE + HONEYBEE
7. DAYLIGHT DESIGN /2	→ RADIANCE + DAYSIM + HONEYBEE
8. THERMAL PERFORMANCE /1	→ PASSIVE DESIGN ASSISTANT
9. THERMAL PERFORMANCE /2	→ PASSIVE DESIGN ASSISTANT
10. VENTILATION AND AIR MOVEMENT	→ OPTIVENT
11. PASSIVE COOLING	→ PHDC AIR FLOW

Additional Thematic Workshops and Seminars (to be selected according to project objectives)

MODULES
1. ENVIRONMENTAL IMPACT OF MATERIALS AND COMPONENTS
2. LIFE CYCLE ANALYSIS – CRADLE TO CRADLE DESIGN THINKING
3. RENEWABLE ENERGY SOURCES
4. WATER MANAGEMENT
5. ENVIRONMENTAL ASSESSMENT METHODS OVERVIEW
6. PERFORMANCE BENCHMARKING



## LEADING PRACTICES

The course is defined by both as an investigation and intense study of global “leading practices” in the building industry in the broadest sense. The goal is to provide the ability and potential for design professionals and specifically SOS students “to lead” in the professional, in practice and in projects.

Course Lecturers: International Guests  
9 weeks (1 day/week) +  
3 weeks (4 days per week) for Consortium case studies, simulation or project research

The course covers three main topic areas to provide approaches, processes, strategies and structures for projects in the four tracks.

► INTELLIGENT INVESTMENT IN THE PROFESSION  
Content focuses on the role of professionals in Design, Planning and Development processes at large scales.

► INDUSTRY INNOVATION IN PRACTICE  
Content focuses on the emergence of practice-based use-inspired research leading to building innovation.

► INTEGRATED DELIVERY FOR PROJECTS  
Content focuses on the particular methods of high performance teams to deliver high performance projects at a range of scales.

Leading Practices is designed to support the SOS Consortium for Practice and Research. Specifically, a one month intense period following the foundation courses is devoted to developing comprehensive and detailed case studies, simulations and / or project research for the SOS Consortium Members.

CASE STUDIES FOR PUBLICATION ARE STRUCTURED AS FOLLOWS:	
PROJECT SET-UP	→ DEVELOPING A BRIEF \ DEVELOPING A TEAM \ CONTRACTS AND LEGAL REQUIREMENTS
HIGH PERFORMANCE DESIGN	→ ECONOMIC AND SOCIAL PERFORMANCE \ ENVIRONMENTAL PERFORMANCE \ POSITIVE IMPACT
LEADERSHIP STRATEGIES	→ TEAM BUILDING AND COLLABORATIVE CULTURE \ GOALS AND ALIGNING STAKEHOLDER VALUES \ ROLE DEFINITION AND ACCOUNTABILITY
LOGISTICS AND PROCESS TACTICS	→ MANAGING DESIGN COMPLEXITY \ MANAGING SCHEDULE AND BUDGET \ BIM, PARAMETRICS AND DESIGN DOCUMENTATION
BUILDING INNOVATIONS	

## **SOS CORE THE FOUR PROJECT TRACKS**

*Tracks represent the central experience of the SOS program, namely a 5 month full time project as a direct simulation of professional practice which is conducted as a team through a multidisciplinary approach with the collaboration of experts, specialists and industry partners. Each student selects the track according to one's own professional perspectives.*

### **ARCHITECTURE AS A SOCIAL BUSINESS**

To regenerate the urban environment by creating job opportunities

### **POST CARBON ARCHITECTURE**

To design the next generation of buildings

### **THE RIGHT TO (QUALITY) SHELTER**

Sustaining human development and building resilience

### **BLUE DESIGN**

Designing sustainable products and processes

*All project tracks are structured in phases, from site analysis to the study of possible future scenarios, to design at different scales in order to address the complexity of the subject gradually.*

*Projects are structured within individual tracks and address their respective issues according to a research-by-design approach, where the development of the project seeks original and contextual solutions that address a global problem on a local scale.*

*Projects will be based on an actual brief, with extensive field work conducted in collaboration with the project's real constituents (clients and communities), through meetings, workshops and public presentations.*

*Throughout the 5 month period, related activities such as industry site visits are frequent in order to build an evidence-base for decision-making and development of the project .*

*Projects are supported with specialized seminars, workshops and the application of environmental tools in relation to the context and the specific issues addressed. The students, under the guidance of the Track Director, will select their advisors and thus to define their own training.*

*The ultimate goal of the project is to train professionals in the skills necessary to carry out research and design in the field of sustainability.*

*Project work is shared annually in the SOS Folio Projects publication. This work, developed in collaboration with the network of specialists and network of SOS are an integral part of the students' portfolios.*



# Architecture

## as a social business

## ARCHITECTURE AS A SOCIAL BUSINESS

TO REGENERATE THE URBAN  
ENVIRONMENT BY CREATING  
JOB OPPORTUNITIES

*The objective is to develop concrete projects aimed at the transformation of urban spaces, the retrofit of existing buildings and the recovery of unused structures according to the principles of sustainability and social participation.*

**Director: Roberto Corbia**  
**5 months full time in teams**

### THEME

To date, 3.5 billion people, approximately half of the global population, live in cities: this urban population, concentrated on the 2% of the Earth's surface, releases into the atmosphere 70% of global CO2 emissions causing an enormous impact on the environment. According to demographic projections by the United Nations, by 2030 the world population will increase by 1.5 billion, or about 100 million more people per year. This implies tremendous expansion, mainly in urban centers. Based on these data, cities are facing a period of great social, economic and environmental transformation, which is the subject of the course. The economic and production crisis, environmental challenges, new migration and social integration, recuperating abandoned buildings to combat further land consumption, all require a new approach, to be contemplated and shared among with the citizens rather than imposed from above.

### APPROACH

Designers, administrators and local entrepreneurs are invited to engage with the huge stock of existing buildings in the city, to improve quality of life and to respond to the call for citizens to transform their cities.

Regenerating neighborhoods and public spaces, rethinking planning processes according to the environmental agenda, activating processes of urban social and environmental regeneration, redesigning the building envelope to increase comfort and reduce energy expenditure, as well as reopening urban relationships lost with the historic city are some of the potentialities that a sustainable approach to design can offer us.

### KEY THEMES

### KEYWORDS

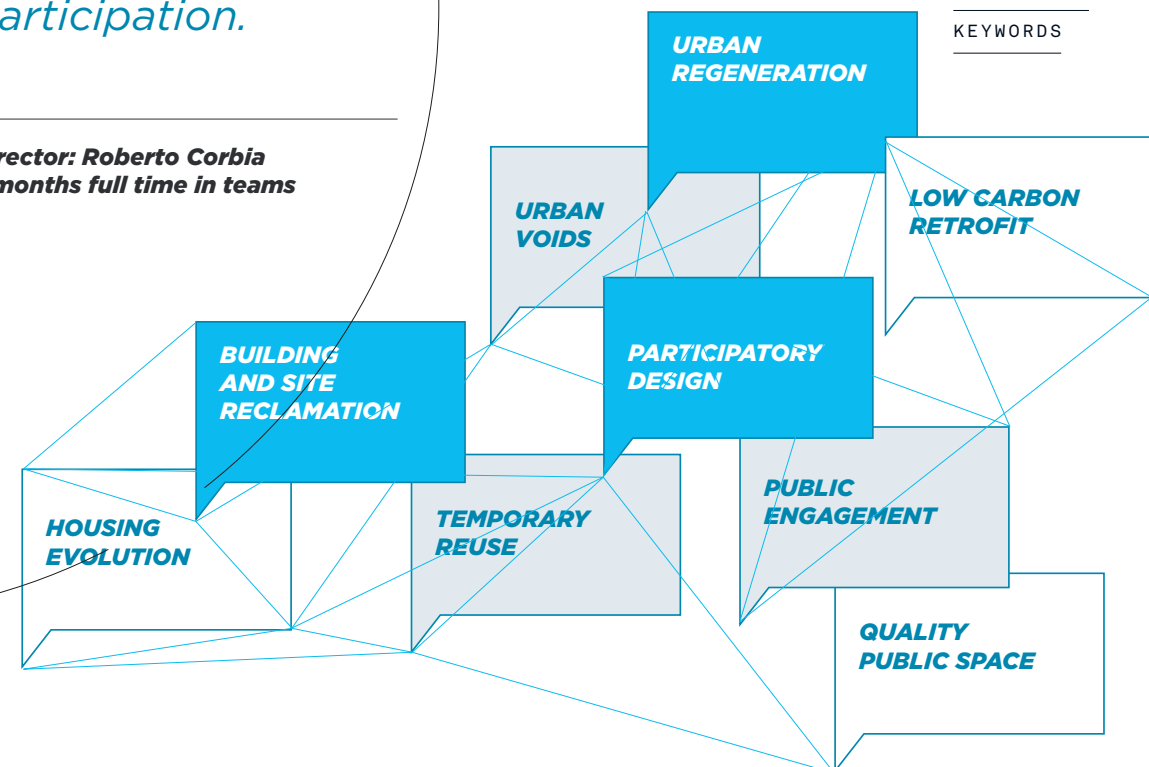




PHOTO: DANIELE DOMENICATI

# POST CARBON ARCHITECTURE

TO DESIGN THE NEXT  
GENERATION OF BUILDINGS

*The objective is to design buildings with low technology (in terms of physical plant) and to work with the form and the materials as new agents of performance.*

**Director: Alberto Bruno**  
**5 months full time in teams**

## THEME

The real estate and the construction sectors are responsible for 50% of global CO2 emissions. Growth forecasts indicate that over the next 20 years, built areas will increase by 50%, which will have a significant impact on the resolution of the environmental crisis. Despite the great attention paid by international politicians (The Conference of Parties, Europe Roadmap 2050, Architecture 2030) towards the de-carbonization of our society, to date building professionals and the construction industry lack the knowledge and skills needed to develop buildings with zero impact.

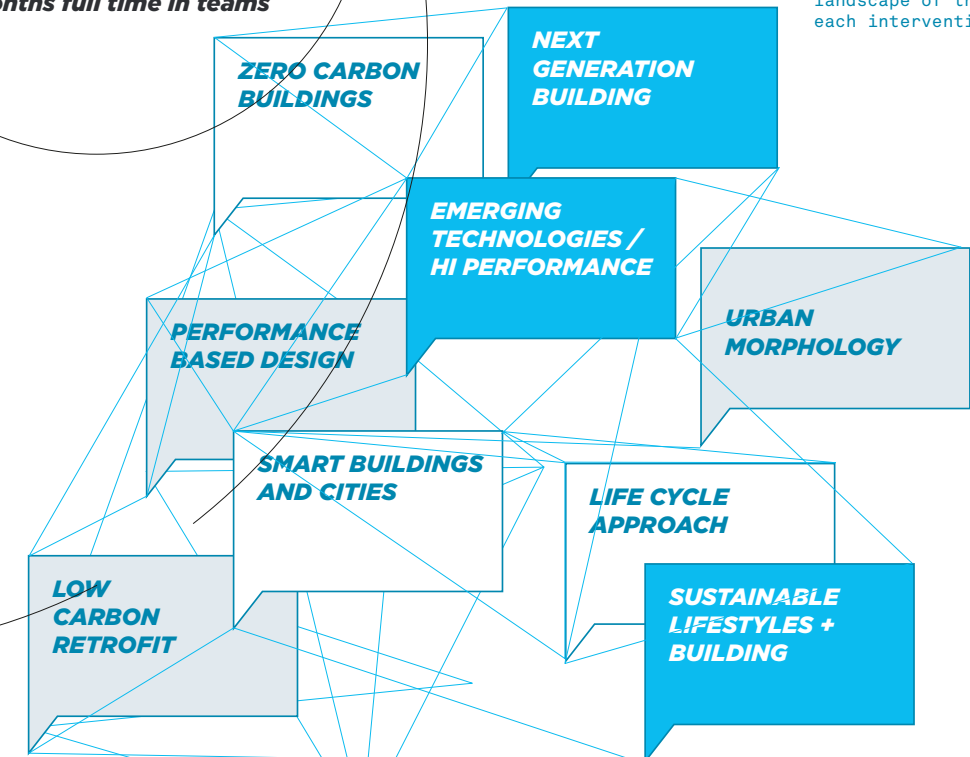
## APPROACH

A holistic approach to design allows for environmental strategies specifically suited to the local context and avoids seemingly appropriate choices, made at the design stage, which may have negative impacts in later stages (construction, use, reuse, recycling, disposal). Choices of materials and construction techniques become crucial to reducing the environmental impact of the building during its entire lifespan.

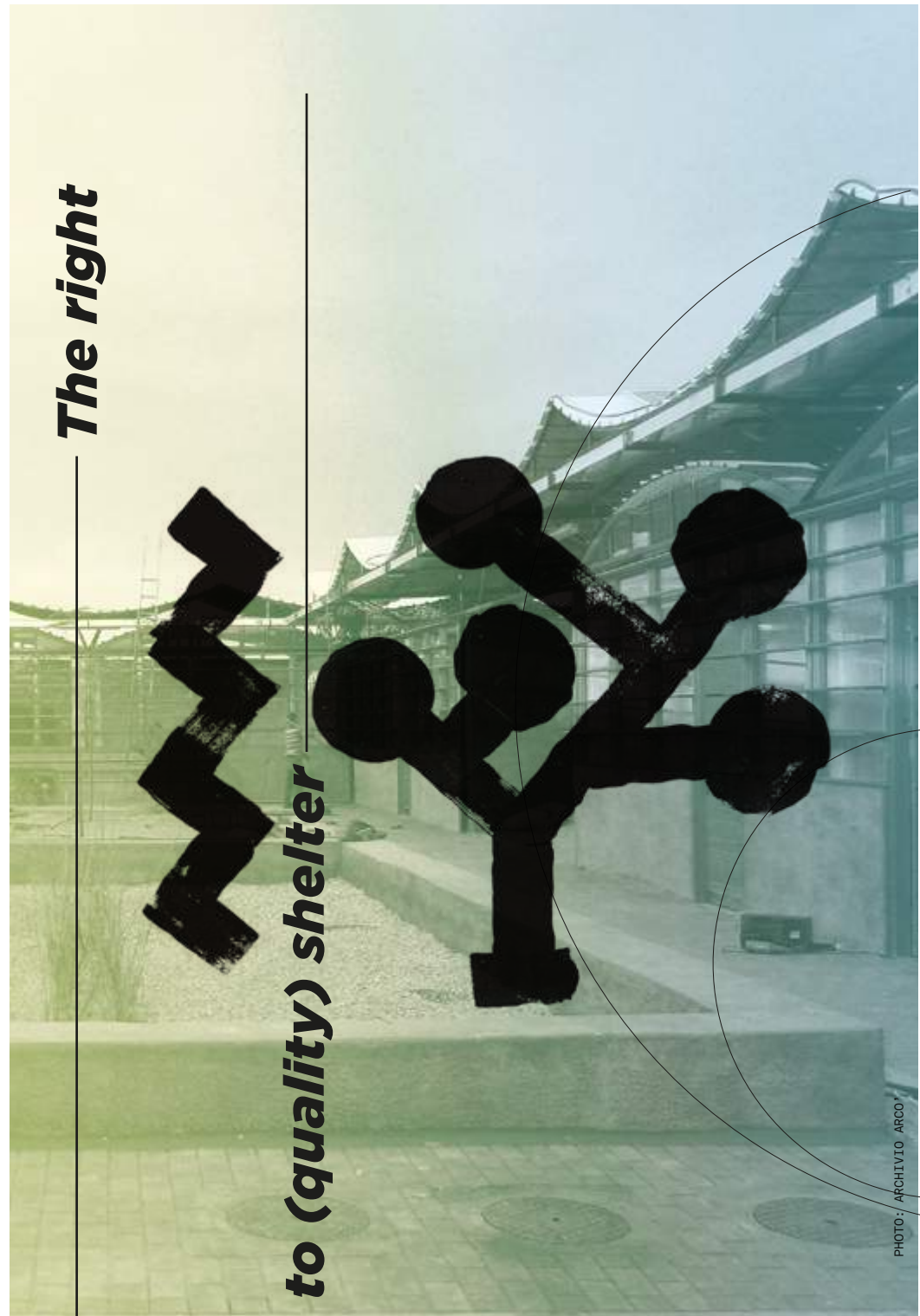
One of the challenges today is to redefine the relationship between architecture and engineering as not only technological, but genetic. Building owners, designers and builders are called upon to radically change their design approach, identifying the evolution of traditional building techniques and searching for emerging technologies for unique opportunities to restore a deep connection with the climate, the culture and the natural landscape of the site of each intervention.

## KEY THEMES

## KEYWORDS







The right

to (quality) shelter

PHOTO: ARCHIVIO ARCO

# THE RIGHT TO (QUALITY) SHELTER

SUSTAINING HUMAN  
DEVELOPMENT AND  
BUILDING RESILIENCE

The objective is to prepare designers who are able to analyze the site of intervention, identify the territory's potentials and thus determine the strategies that will increase the resilience of local communities, helping to reduce their vulnerability to future environmental, economic and social change.

Director: Alessio Battistella  
5 months full time in teams

## THEME

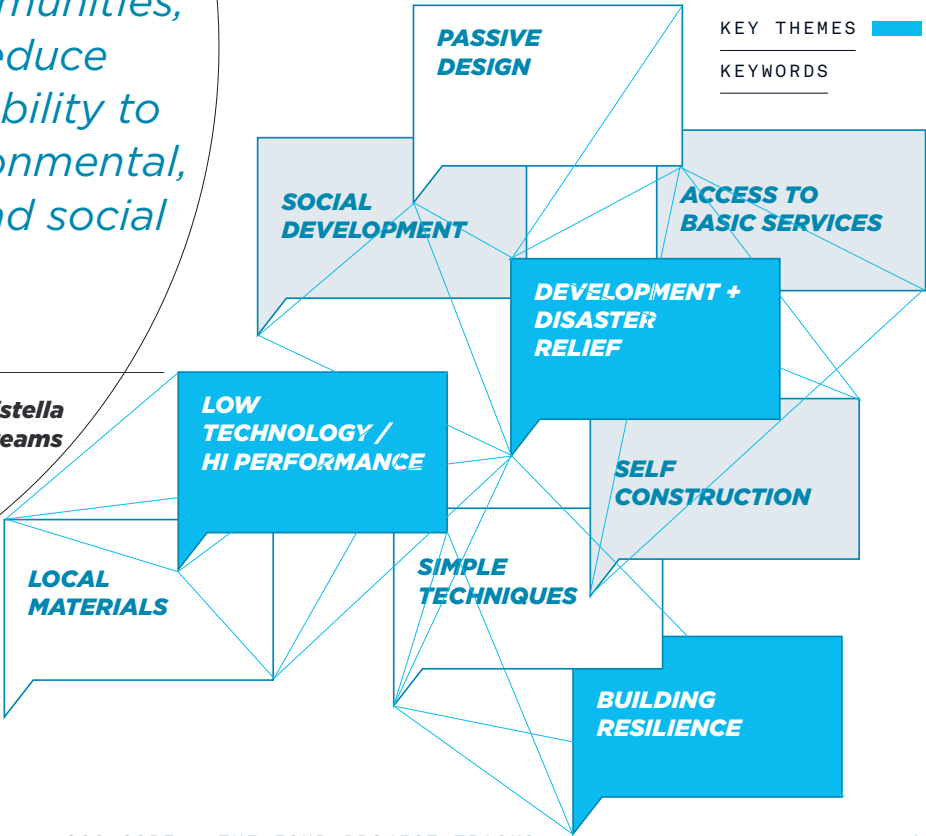
Now is an important time for the international community, with the expiration of the Millennium Development Goals, which have allowed us to significantly improve the living conditions of the most vulnerable segments of the populations on the planet according to principles of dignity, equality and fairness. Despite great efforts to reduce extreme poverty and promote education and health, some of the main objectives were not achieved, such as the conservation of natural resources, the control of CO2 emissions and access to essential services.

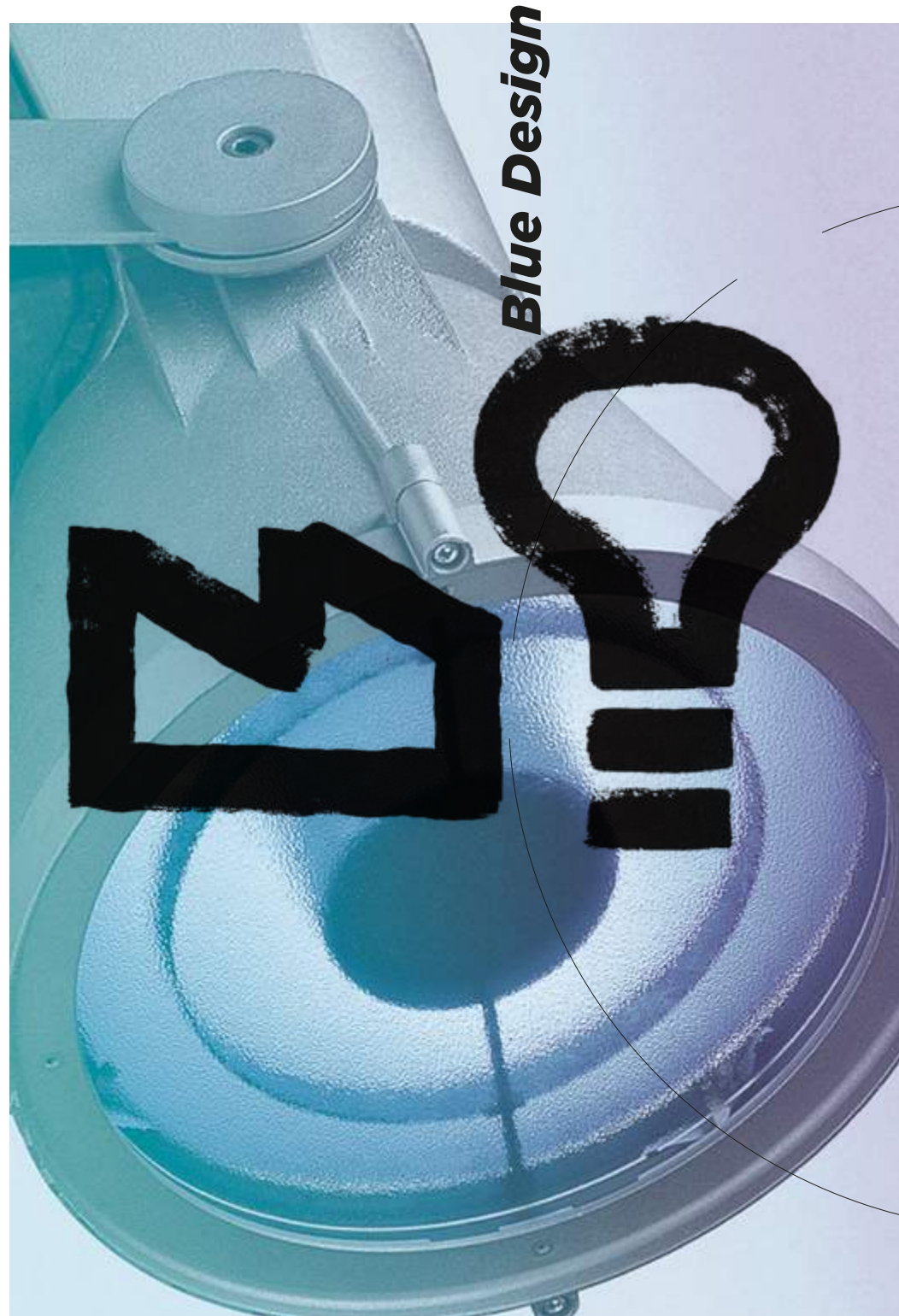
At present, about one third of the urban population lives in slums without basic services (water, sanitation and energy), 750 million people lack access to safe drinking water and the number of new refugees has tripled in the last three years. With growth forecasts

for the world population estimated at 3 billion more people by 2050, it is clear that in the absence of concrete actions, these statistics will only worsen in the coming decades, underscoring the urgent need to rethink development strategies.

## APPROACH

To restore dignity to the people and at the same time provide sustainable economic and social development and to ensure adequate emergency resilience, it is necessary to adopt long-term development programs that leverage the knowledge and resources in the region. Optimization of energy and natural resources present on site, reuse of materials, and design according to climatic requirements are transformed into the need to improve living conditions and access to resources in any location but especially developing countries.





**Blue Design**

## BLUE DESIGN

DESIGNING SUSTAINABLE  
PRODUCTS AND PROCESSES

*The track has a dual objective:*

- *to train designers capable of creating and delivering sustainable solutions to the greatest degree of advancement for various situations at various scales*
- *to allow companies and designers to work together to define the design, development and uses for new “smart” materials, processes and products*

**Director: Stefano Casciani**  
**5 months full time in teams**

### THEME

The demands of “Rebuilding the Universe” in terms of sustainability are so compelling and by now shared politically and socially by so many as to call for the development of a new discipline of design education, research and practice. This new specialization, coupled with a collaborative commitment by businesses and industries will generate designs and creative processes capable of triggering a virtuous cycle of design-make-use-recycle. The potential fields of study are varied, from prefabricated materials and components for construction, to products for individual and group mobility, to education, co-housing, emergency safety, organic agriculture, etc.

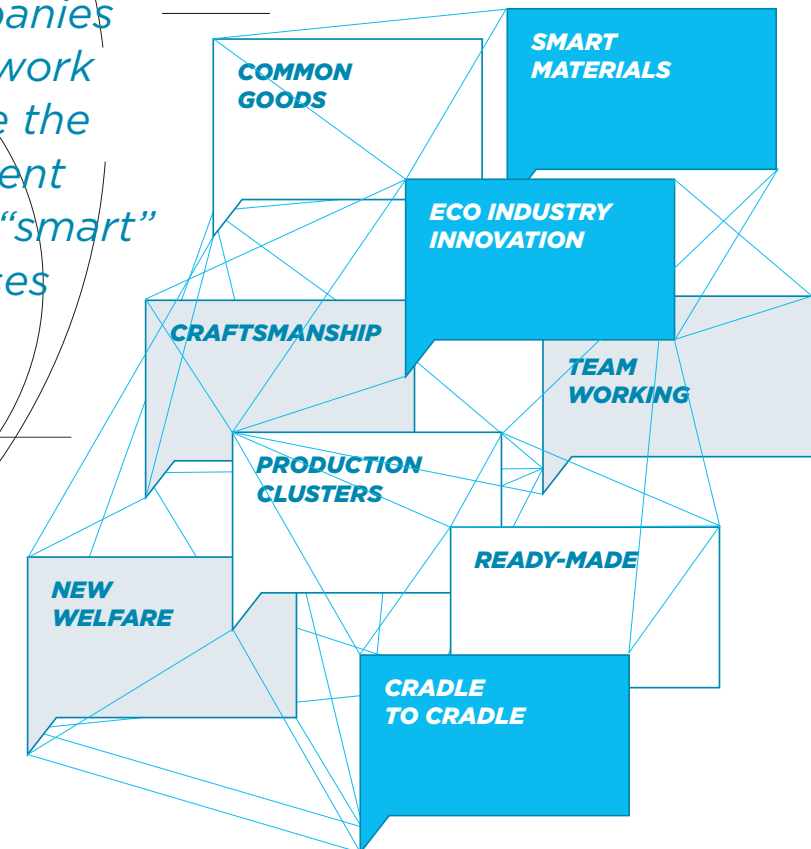
### APPROACH

The process is founded on a human-centered approach to design and cultural sensitization, developed through a series of introductory lectures, which will provide the participants with a common language to use amongst themselves and to the outside world. Among the main subjects:

- global history of sustainable design and features of design in Italy
- theory and practice of the common good(s)
- new forms and uses for commons products (sharing, co-housing)
- smart materials, smart services, smart systems in the context of complexity
- new forms of manufacturing organization (co-working, ethical business, knowledge-sharing...)
- development and financing strategies (crowd-funding, micro-credit)

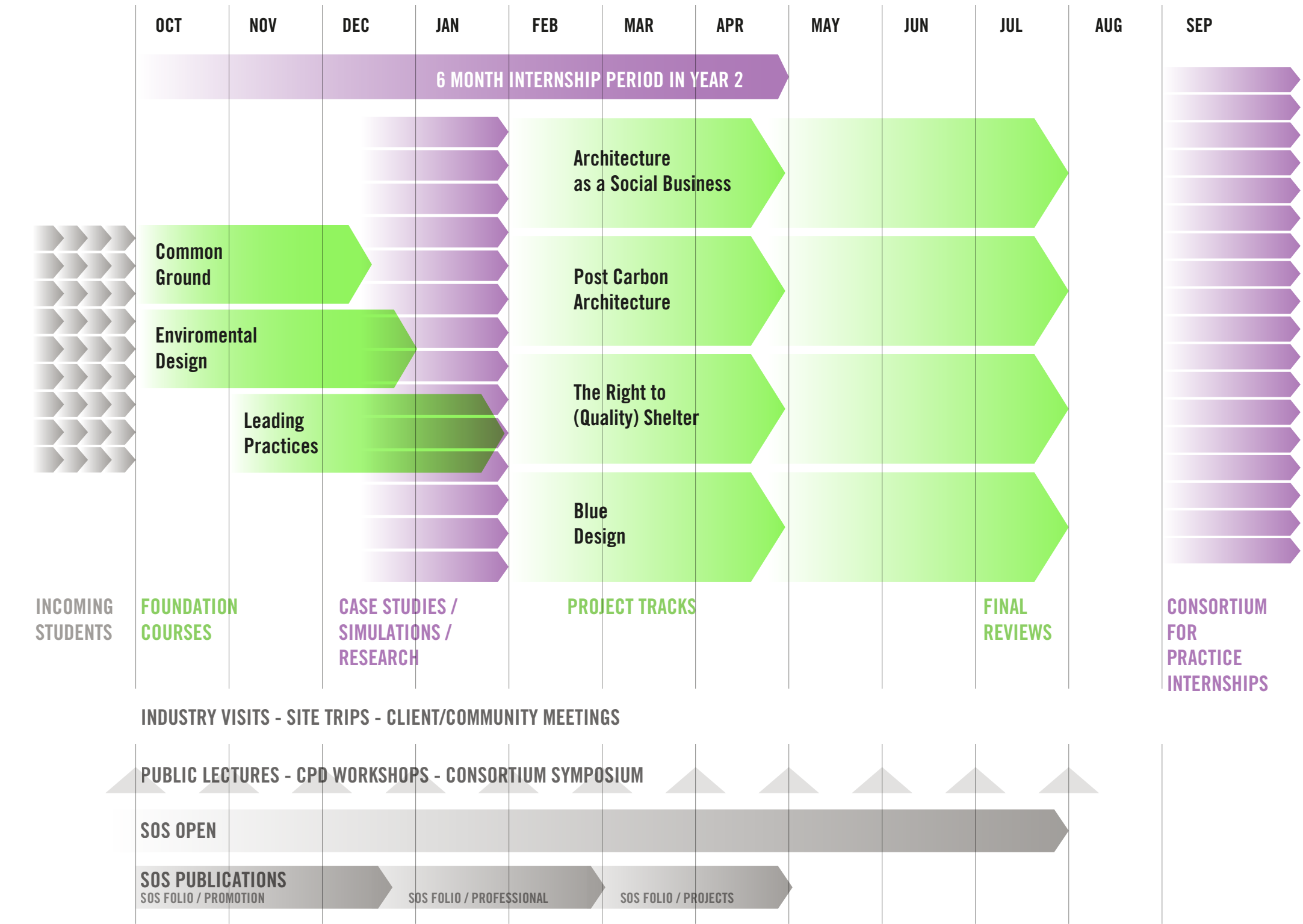
### KEY THEMES

### KEYWORDS





SOS CURRICULUM



# SOS RESOURCES

*The School's most distinguishing features and greatest assets are its resources – human, physical and technological. SOS training is inspired by active projects and professionals within a practice context. The sharing of design expertise and tools as well as the daily interaction with the business world offers a valuable and unique educational model oriented to the professional world.*

The School is based in a recently renovated warehouse in Bologna. The building is shared with the architectural studio Mario Cucinella Architects (MCA), therefore providing a wide range of facilities and state of art services to support architectural design and research.

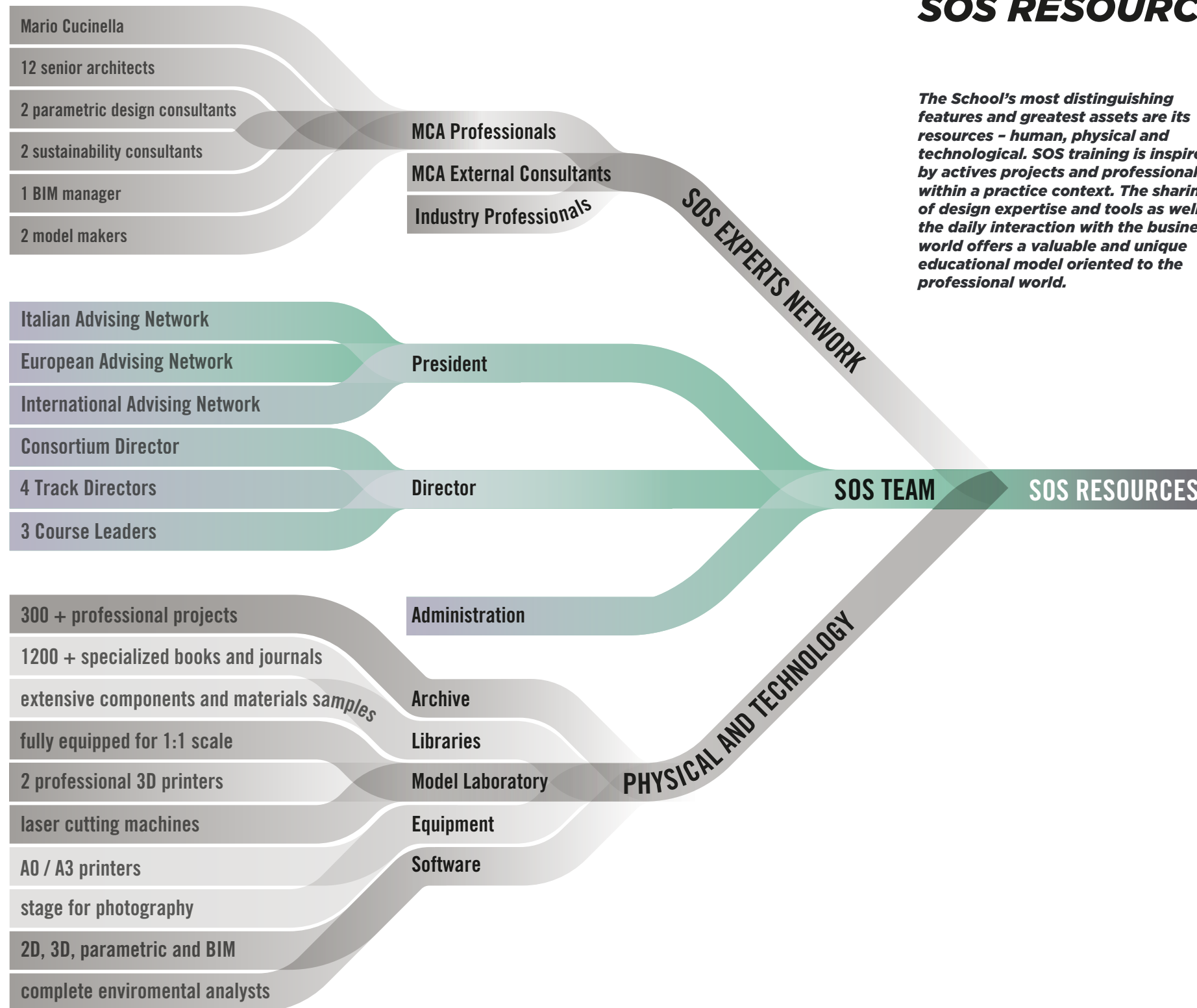
Projects are developed using the latest digital tools, including BIM, generative algorithms and analysis tools to maximise environmental performance, while responding to the needs of occupants and users. Moreover, a fully equipped laboratory allows for 1:1 and scaled models using state of the art 3d printers and laser cutting machines.

Within the MCA studio, there is an extensive archive of 300+ projects developed over 25 years, a components and materials samples library, and more than 1200 books and journals on architectural and environmental design. This provides a unique environment to build a primer in the field of sustainability and to support research work.

Presently, the MCA staff consists of 35 design professionals and a range of external consultants. MCA is led by Mario Cucinella, founder and president at SOS. Over the past 25 years, MCA has developed extensive experience in professional practice and is widely regarded as a leading practice in the field of sustainable design.

The SOS experience is developed by a team of experienced professionals under the supervision of Alberto Bruno, SOS Program Director.

SOS is supported by distinguished advising network from Italy, Europe and globally.



# SOS TEAM

An experienced and multidisciplinary group of professional



**Mario Cucinella**  
SOS Founder and President

Mario Cucinella is the founder of Mario Cucinella Architects - MCA. With over 25 years of professional practice, MCA has developed extensive experience in architectural design, with particular attention to the issues of energy and environmental impact of buildings. Mario delivers lectures in Italy and abroad, while maintaining an active role in teaching at several universities. In 2012, Mario founded Building Green Futures a non-profit organization with the goal of integrating sustainable architecture and renewable energy to improve living conditions in developing countries. In 2015, he launched S.O.S. - School of Sustainability.  
[www.mcarchitects.it](http://www.mcarchitects.it)    [www.buildinggreenfutures.org](http://www.buildinggreenfutures.org)



**Alberto Bruno**  
SOS Director

Alberto is an architect and highly experienced environmental consultant, carrying out research on energy efficient and sustainable architecture both in architecture firms and in universities. Since 2008, he has led the MCA research and development team and he regularly teaches in major European universities. Currently, Alberto is Director at SOS, where he supervises the School's activities and delivers lessons in the Common Ground and Post Carbon Architecture modules.



**Brian Ford**  
Course Leader,  
Environmental Design

Architect, Professor Emeritus at University of Nottingham and former Director of the School of Built Environment. Brian is a recognized expert in natural ventilation and passive cooling techniques and currently he is environmental consultant at NaturalCooling Ltd.  
[naturalcooling.co.uk](http://naturalcooling.co.uk)



**Roberto Corbia**  
Track Director, Architecture  
as a Social Business

An architect and urban planner, Roberto completed its postgraduate studies in Landscape Architecture at UPC in Barcelona. Following diverse work experiences, in 2014 Roberto joined the Renzo Piano G124 Team, where he developed the Buone Azioni per Librino project. In 2015 he was appointed Track Director at SOS.  
[renzopianog124.com](http://renzopianog124.com)



**Alessio Battistella**  
Track Director,  
Right to Quality Shelter

Architect and co-founder at ARCò - Architecture and Cooperation, Alessio has an extensive experience in architecture of development and emergency. Prior to join SOS, Alessio has been a researcher and lecturer at the Polytechnic of Milan and the University of Pavia.  
[www.ar-co.org](http://www.ar-co.org)



**Stefano Casciani**  
Track Director, Blue Design

Italian writer, designer, curator and industrial consultant, Stefano has been former editor and vice director of the journal Domus. In 2012, Stefano founded disegno. la nuova cultura industriale a quarterly review on issues and individuals in design, of which he is the editor and director.  
[www.disegnomag.it](http://www.disegnomag.it)



**Caterina Aprile**  
SOS Administrator

Urban planner, following a three year working experience at UNESCO office in Florence, in 2015 she co-founded the Spazi Attivi association, focused on improving the quality of urban space and human relationships. Since 2016 Caterina has joined the SOS team, where she provides support to the SOS staff and the students, as well as working on communication and event organization.  
[www.spaziattivi.it](http://www.spaziattivi.it)

## 2015 - 2016 SOS GUEST LECTURERS

### Gian Luca Galletti

POLITICIAN  
ITALIAN MINISTER OF THE ENVIRONMENT

### Iago Corazza

JOURNALIST  
PHOTOGRAPHER AND REPORTER AT NATIONAL GEOGRAPHIC

### Giovanni Ginocchini

ARCHITECT  
DIRECTOR AT THE BOLOGNA URBAN CENTER

### Enrico Borgarello

CHEMIST  
DIRECTOR AT I.LAB, THE INNOVATION AND RESEARCH  
LABORATORIES OF ITALCEMENTI GROUP

### Patrizia di Monte

ARCHITECT  
CO-FOUNDER AT GRAVALOS DI MONTE ARQUITECTOS

### Gianni Silvestrin

RESEARCHER ON ENERGY EFFICIENCY AND RENEWABLE ENERGY  
PRESIDENT AT GREEN BUILDING COUNCIL ITALIA  
SCIENTIFIC DIRECTOR AT KYOTO CLUB, A NOT FOR PROFIT AIMED  
TO REDUCE CO2 EMISSIONS

### Klaus Bode

ENGINEER  
BOARD DIRECTOR AT CHAPMANBSOP, A LEADING GLOBAL ENGINEERING  
AND ENVIRONMENTAL CONSULTANCY

### Carlo Ratti

ARCHITECT  
FOUNDING PARTNER AT CARLO RATTI ASSOCIATI  
DIRECTOR, MIT SENSEABLE CITY LABORATORY

### Rab Bennetts

ARCHITECT  
FOUNDER OF BENNETTS ASSOCIATES, A 90 STAFF FIRM  
BASED IN LONDON AND EDINBURGH

### Federico M. Butera

ENGINEER  
PROFESSOR EMERITUS OF BUILDING PHYSICS AT POLITECNICO DI MILANO  
UN-HABITAT CONSULTANT AND AUTHOR OF SUSTAINABLE BUILDING  
DESIGN IN TROPICAL CLIMATES HANDBOOK

### Chiara Tonelli

ARCHITECT  
ASSOCIATE PROFESSOR AT ROMA3 UNIVERSITY  
TEAM LEADER FOR ITALY IN THE SOLAR DECATHLON EUROPE  
COMPETITION, 2012 THIRD PLACE, 2014 FIRST PLACE

### Juan Vallejo

ARCHITECT  
PHD CANDIDATE AT UNIVERSITY OF NOTTINGHAM  
LECTURER AT UNIVERSITY OF WESTMINSTER  
ENVIRONMENTAL CONSULTANT AT NATURAL COOLING LTD

### Giovanni Formiglio

DIRECTOR AT AGENZIA DEL DEMANIO (STATE PROPERTY OFFICE)  
TRASFORMAZIONE ORGANIZZATIVA E GESTIONE DEL CAMBIAMENTO

### Renato Accorinti

SOCIAL ACTIVIST AND PACIFIST  
MAYOR OF MESSINA, ITALY

## Post Carbon Architecture

### Peter Clegg

Architect, Founding Partner at Clegg Feilden  
and Bradley Studios  
fcbstudios.com

## Architecture, Community and Social Participation

### Marco De Ponte

Secretary General at ActionAid Italia  
www.actionaid.it

## Local Identity

### Matthias Schuler

Founder at TRANSOLAR,  
Visiting professor at GSD, Harvard University  
www.transolar.com

## Beyond COP 21

### Antonio Navarra

Climatologist and President at Euro  
Mediterranean Center on Climate Change  
www.cmcc.it

### Edoardo Zanchini

Environmentalist and  
Vice-President at Legambiente  
www.legambiente.it

## Design the Future

### Luca De Biase

Editor and Innovation  
Journalist at Sole24ore  
blog.debiase.com

## Rethinking the Suburbs

### Renzo Piano's G124 team

The Senator's Working Group  
on the Suburbs and the City That Will Be  
renzopianog124.com

G124

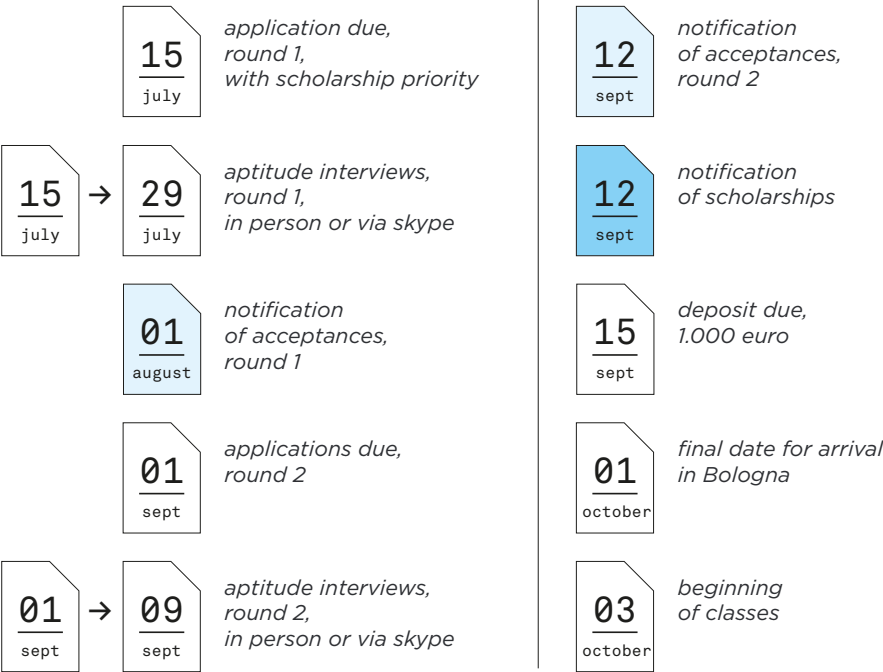


# SOS

## PROGRAM INFORMATION

<b>Duration:</b>	10 months full time (3 October 2016 – 30 July 2017) 6 month paid internship (September 2017 – April 2018)
<b>Tuition Fee:</b>	10.000 Euro including VAT
<b>Language of Instruction:</b>	English (see application requirements)
<b>Certificate / Credits:</b>	varies according to country of origin

## Application timeline



## Contact information

<b>SOS</b> <b>School of Sustainability</b> <b>Via Francesco Flora 6</b> <b>40129 Bologna</b> <b>Italy</b>	<b>Phone:</b> +39 051 631 3381 <b>Email:</b> <a href="mailto:info@schoolofsustainability.it">info@schoolofsustainability.it</a> <b>Web:</b> <a href="http://www.schoolofsustainability.it">www.schoolofsustainability.it</a> <b>Facebook:</b> <a href="https://www.facebook.com/schoolofsustainabilitybologna">schoolofsustainabilitybologna</a> <b>Linkedin:</b> <a href="https://www.linkedin.com/company/SOS-School-of-sustainability-412249117">SOS-School-of-sustainability-412249117</a> <b>Twitter:</b> @school_sos <b>Blog:</b> <a href="http://schoolofsustainability.tumblr.com">schoolofsustainability.tumblr.com</a>
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# SOS

## APPLICATION INFORMATION

### SELECTION OF CANDIDATES

SOS seeks recent graduates and emerging professionals with diverse backgrounds to form a multidisciplinary group capable of undertaking environmental challenges using a creative approach. The program and particularly the four tracks are aimed primarily to architects, engineers and designers although the School invites candidates with other profiles, on the basis of their motivation and skills in relation to the issues proposed in the courses.

### QUALIFICATIONS

**Education ▶**  
Professional Bachelor or Master degree in architecture, engineering, design and others

**Aptitude / Attitude ▶**  
Collaborative, creative, curious, entrepreneurial, resourceful, self-directed

**Practical Experience ▶**  
One to five years of experience preferred but not required

**Language Skill ▶**  
English B2 Level, CEFR - Common European Framework of Reference for Languages  
Or Upper Intermediate Spoken / Written validations through official certificates

### APPLICATION MATERIALS

Send via email to:  
[info@schoolofsustainability.it](mailto:info@schoolofsustainability.it)

**1. COVER LETTER**  
include motivations to access the course and scholarship.

**2. CURRICULUM VITAE / RESUME**  
include degree information and practical experience

**3. DESIGN PORTFOLIO**  
in pdf format  
maximum eight A4 pages, max file size 6 MB

### APTITUDE INTERVIEW

All candidates must pass an aptitude interview. Applicants will be contacted by the School within two weeks of the application deadline for an aptitude interview. Interviews will be schedule via Skype or in person (if possible). Candidates are always welcome to visit the School.

### PERFORMANCE EXPECTATIONS

The SOS program is intensive and consists of lectures, projects, site visits, workshops and related activities. Full time compulsory attendance and active participation is required. Students are expected to use their laptop computers during class.

### ACCEPTANCE

Results will be communicated via email as soon as possible but no later that 12 September 2016.

### REGISTRATION

Registration for the Program will be finalized with the down-payment fee of 1.000 euro by 15 September 2016.

### ORIENTATION SERVICES

Guidance and information for obtaining visas, accommodation and health insurance will be provided for foreign students traveling to Italy for the program.

### SCHOLARSHIPS

Following the interviews, assigned scholarships based on both merit and need will be communicated to deserving applicants by 15 September 2016.

### TUITION FEES

Fee 10.000 Euro including VAT.

Payments should be made to the bank account listed below. To finalize registration a first deposit of 1000 Euros is compulsory, by 15 September 2016. The remaining amount of the fees can be paid in its entirety or by instalments during the course on a monthly basis.

Banca Monte dei Paschi di Siena  
Bank account: no. 000001306601  
IBAN: IT 29 E 01030 23401 000001306601  
Account holder: SOS SCHOOL OF SUSTAINABILITY SRL

# LIVING AND STUDYING IN BOLOGNA

THE IDEAL LEARNING  
LABORATORY FOR THE  
SOS EXPERIENCE

***Bologna, a city of 44 kilometers of arcades and population of 400,000, is renowned for its beauty, culture and culinary traditions. As a pioneering knowledge center with a progressive, open minded, multi-cultural character, Bologna is the ideal laboratory for SOS. It is a city and place that values active community participation, environmental stewardship and social inclusion.***

***Bologna is a model of great urban intensity, combining both positive development with social growth and innovation. Housing policies have been defined by a commitment to mixed use and also social diversity. Such forward-looking approaches have created a vibrant and resilient city with a positive impact on citizens.***

***Bologna is also a city of great culture where the oldest university of the western world was founded in 1088. Personalities such as Leon Battista Alberti, Dante Alighieri, and Copernicus studied in Bologna, and today, 80.000 students attend classes at the university. Today, Bologna boasts an international reputation for medical services and research, among other achievements.***

***There is something for everyone in Bologna: galleries, museums, religious buildings and monuments, street markets, green spaces and parks, a lively social scene, and highly vibrant student life.***

## LANGUAGE

Bologna is also a multicultural city: about 60.000 foreigners (of which 5.000 are students) live in the city. The majority of Bologna citizens speak English; moreover many courses (some of which are for free) are available to learn and/or improve Italian language skills.

## CUISINE

Bologna is considered the food capital of Italy, thanks to its tradition of handmade pasta (tortellini, tagliatelle and lasagna), meat (mortadella), cheese (parmesan), sweets and wines. Famous meat-based specialties are also complimented with vegetarian restaurants and biological markets around town with high quality of fruit and vegetables.

## ACCOMMODATION

In Bologna, there are a wide range of living options, from student housing to private studios and shared apartments. Prices vary according to the location and house amenities. Posted announcement around the city, especially in the university facilities, provide the best opportunities for finding affordable options. Living with Italians is recommended to quickly learn the language and enjoy the local culture and lifestyle.

## TRANSPORTATION

The best way to move around the city is by bicycle or on foot. Bologna is eminently walkable! Otherwise, public transport covers the entire municipal area and those under the age of 27 can obtain subscription discounts for public transport. Bologna is very well connected to major Italian cities (Florence, Milan, Naples, Rome, Venice) by high speed train and only two to three hours from Austria, France and Switzerland.



Credits: Argia Sbolnfi



Credits: Selvaggia Santin



Credits: Roberto Taddeo



Credits: Roberto Taddeo



Credits: Roberto Taddeo



Credits: SOS Archive

ZUP DESIGN



SOS

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in [sos-school-of-sustainability-412249117](https://www.linkedin.com/company/sos-school-of-sustainability-412249117)

t @school\_sos

📌 [schoolofsustainability.tumblr.com](https://www.schoolofsustainability.tumblr.com)

► **SOS - School of Sustainability - based in Bologna, Italy, is an initiative of Mario Cucinella focused on training emerging professionals in the field of sustainability.**

► **SOS is open to recent graduates and industry partners to develop innovative projects with a positive impact on society, the economy and the environment through education, practice and research.**

► **SOS is a creative laboratory born in close collaboration with Mario Cucinella Architects (MCA) and the non-profit organization Building Green Futures (BGF), where training is inspired by the active projects and expertise in a professional practice setting.**

Partner:



Media Partner:



Under the auspices of:

