

CONCRETO ACADEMY TA

ABOUT www.concreto-academy.org

Project Coordinator: Pier Luigi Nervi Foundation

Project Coordinator: Dott. Elisabetta Margiotta Nervi (info@concreto-academy.org)

Scientific Director: Arch. Irene Matteini (irene.matteini@concreto-academy.org)

CONCRETO is a 36-month project bringing together 13 partners from 5 EU countries to promote the **GREEN REHABILITATION of EUROPEAN CONCRETE ARCHITECTURE**. Inspired by the Renaissance idea of the "Artist's Shop" or "La Bottega", the CONCRETO ALLIANCE will work together on a learner-centred, INNOVATIVE apprenticeship programme, where students and professionals acquire and practice skills on real-life examples, progressing from students to APPRENTICES. The CONCRETO Partners **recognise the LACK of specialist skills** available and the **NEED TO DEVELOP GUIDELINES AND STANDARDS** for the quality regeneration and maintenance of our MODERN CONCRETE BUILDINGS. From here, the INNOVATIVE IDEA of creating a cross-sectoral knowledge flow, promoting best practices by fostering a **NEW SKILL SET** to better equip professionals to become the experts of **TOMORROW**.

The **CONCRETO Consortium** is composed of:

| MPHO | HEIs | VET | TA |
|--|--|---|---|
| 2 Modern Heritage Preservation Organisation | 3 Higher Education institutions | 3 Vocational Training Organization | 5 Trade Associations |
| <p>PLN Project Pier Luigi Nervi Foundation (BE) Project Coordinator</p> <p>DOCOMOMO International (NL)</p> | <p>METU Middle East Technical University (TR)</p> <p>PolIMI Politecnico di Milano, Laboratorio Nervi (IT)</p> <p>UPM Universidad Politécnica de Madrid (ES)</p> | <p>IIPLE Istituto per l'Istruzione Professionale dei Lavoratori Edili della Provincia di Bologna (IT)</p> <p>FLC Fundación Laboral de la Construcción, Madrid (ES)</p> <p>MYK Mesleki Yeterlilik Kurumu (Vocational Qualifications Authority of Turkey) (TR)</p> | <p>ATCEA Association of Turkish Consulting Engineers and Architects (TR)</p> <p>CCICCP Colegio de ingenieros de Caminos, Canales y Puertos (ES)</p> <p>CNAPPC Consiglio Nazionale Architetti, Paesaggisti e Conservatori (IT)</p> <p>FCNI Consiglio Nazionale Ingegneri (IT)</p> <p>CSCAE Consejo Superior de los Colegios de Arquitectos de España (ES)</p> |

CONCRETO will

- Give life to the **CONCRETO ALLIANCE** to promote transnational cooperation and mutual learning between academia, vocational training and professionals in the field, bridging the two-way approach, the principle (academia) and the practice (field) through all CONCRETO activities.
- Bring together **84 students** and more than **30 teachers** to participate in the **3-year programme** with activities in 2 EU countries (Italy, Spain) and Turkey and 1 UNESCO site in Ivrea (Italy), where the students will actively carry out maintenance and regeneration work on selected buildings as their final project (CONCRETO MASTERPIECE), contributing to their green sustainability.
- Generate the **CONCRETO ALLIANCE CODE BOOK**, a baseline that identifies the skills required to renovate quality architecture, and ultimately publish the **CONCRETO GUIDELINES** - the CORE of CONCRETO sustainability, and a **MOOC** with the project results available on the open platform of the **CONCRETO ACADEMY**, a permanent opportunity for knowledge growth and exchange, promoting "**smarter**" and "**greener**" renovations.

CONCRETO envisions synchronous as well as asynchronous interaction with the participants, which will include a group comprised of students of Higher Education Institutions (HEIs), and learners from Vocational Education Training (VET) organizations, together with professionals selected by the National Trade Associations of the respective countries for a total of 28 participants each year.

CONCRETO is defined as learner-centred, engaging and based on real life experience becoming today's and tomorrow's "**artist shop for concrete architecture and its rehabilitation methods**" (*La bottega delle riparazioni del cemento*). CONCRETO is conceived as a EUROPEAN INCUBATOR to promote and foster best practices for the Rehabilitation of our Concrete Quality Building Stock.

TEACHING & TRAINING ACTIVITIES:

The CONCRETO Consortium recognizes the need to update “**traditional**” sectoral skills and to make them more relevant to the new integrated approach in line with EU priorities.

To do this, CONCRETO identified FIVE SKILL PILLARS of theoretical and practical knowledge for PROFESSIONALS to master, when engaged with the REHABILITATION and REGENERATION of our CONCRETE buildings:

- Concrete Assessment / Investigation
- Concrete Repair - Traditional Repair and Electrochemical Repair
- Surface Treatment
- Concrete Retrofitting and Improvement of Energy Performance
- Monitoring/Maintenance/Site Management

The FIVE SKILL PILLARS are integrated in the CONCRETO intellectual journey through DIFFERENT LEARNING PROCESSES and METHODOLOGIES: Distance Learning (**Concrete Steppingstone**); In-class lectures & Hands-on Practice (**Concrete Master your Skills**); and Field work at the Unesco Site of Ivrea (**Concrete Masterpiece**).



The CONCRETO Teaching & Training Activities Calendar will be undertaken as follows:

- **CONCRETO STEPPINGSTONE:** Introductory Online Training - 3 days. **April 2024**
- **CONCRETO MASTER YOUR SKILLS @ POLIMI Campus in Lecco, IT:** Hybrid Learning: In class & in the field. **June 2024**
- **CONCRETO MASTERPIECE @ IVREA UNESCO SITE:** Summer Camp – Field School **July 2024 – August 2024**

DETAILED CALENDAR OF CONCRETO TEACHING ACTIVITIES 2024:

Total students: 2 per year.

| Student Type | CONCRETO STEPPINGSTONE Online | CONCRETO MASTER YOUR SKILLS Lecco-Milan 2024 | CONCRETO MASTERPIECE UNESCO SITE IVREA 2024 | |
|------------------|----------------------------------|---|--|--------------------------|
| | | | Group A (1 professional) | Group B (1 professional) |
| TA Professionals | 17-19 April 2024 | 7 -12 June 2024 | 4 August -10 August | 18 August - 24 August |

CONCRETO STEPPINGSTONE:

| CONCRETO STEPPINGSTONE | | | |
|------------------------|--|------------------|--|
| Apprentice | How many students from your organization | Date | Online Training |
| TA Professionals | 2 | 17-19 April 2024 | Online Training (10.00 – 16.00) Time might differ slightly. |

CONCRETO MASTER YOUR SKILLS:

| CONCRETO MASTER YOUR SKILLS | | | |
|-----------------------------|--|----------------|--|
| Apprentice | How many students from your organization | Date | Lecco Campus |
| TA Professionals | 2 | 7-12 June 2024 | Arrival 7 June. CONCRETO DAY is on 8 June 2024 . (Departure on the afternoon of 12 June). |

CONCRETO MASTERPIECE @ IVREA UNESCO SITE:

| CONCRETO MASTERPIECE | | | |
|----------------------|--|-----------------------|---|
| TA | How many students from your organization | Date | IVREA |
| GROUP A | 1 professionals | 4 August - 10 August | Arrive on 4 August (Sunday), Concreto Diamond on 9 August & Graduation Dinner and departure on 10 August. |
| GROUP B | 1 professionals | 18 August - 24 August | Arrive on 18 August (Sunday), Concreto Diamond on 23 August & Graduation Dinner and departure on the morning of 24 August. |

VIDEO CLIP:

Once you have completed your student selection, remember to ask your future CONCRETO apprentice to create a short video clip (30 seconds).

Become part of the CONCRETO FAMILY: Create a short introductory video where you answer the following questions:

- **What is your name?**
- **Where are you from and what is your institution?**
- **Why are you interested in CONCRETO?**
- **What are your expectations?**