

ANNUAL REPORT 2021



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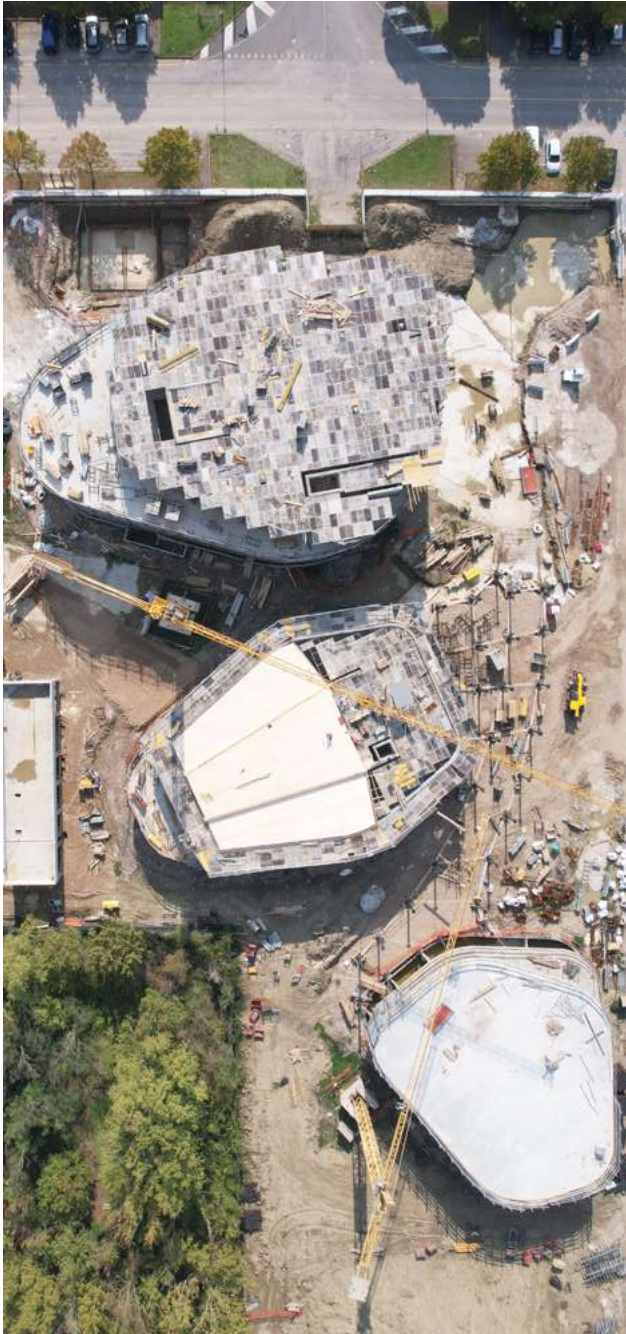
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Cooperation, an increasingly core value

Poised between the past and the future, we leave behind the darkest moments of the pandemic and **look to the future** with a desire for renewal and yet with bated breath over geopolitical uncertainty.

Change has become a hallmark of our lives in recent years, and in this fluid, changing and fast-moving context, we have discovered more than ever the **value of cooperation**.

Cooperation is the word that has enabled us to close 2021 and open 2022. The ancient evils of humanity, which we thought we had defeated with science and a culture of peace, have returned to remind us that well-being, health and freedom are not earned forever. In an Italy that has regained confidence in itself and in the European project,

uncertainty is once again looming. In many countries all over Europe, there is growing concern about economic growth, to which the widespread crisis in energy and raw material supplies is contributing.

Against this troubled scenario, it makes even more sense for us to celebrate 2022 as a special year: **Politecnica is turning 50**.

It has been a long journey full of profound changes, a journey that we have faced by being guided by the principles of cooperation and solidarity that have been at the heart of our essence since 1972.

So today we feel ready to face the years to come with the confidence and strength springing from our **good roots**.

Highlights



21 Mln €

Turnover value 2021



+14,7 €

Percentage change from 2020



+84,6 %

Tendered projects



55 Mln €

Order book



80

Acquired projects



+50,2%

Investments in training



259

People



+10%

People: increase compared to 2020



47% | 53%

Women | Men

Our 2021

Despite the uncertainties, last year was a positive one for Politecnica.

The set production and commercial targets were achieved and largely surpassed: more than €21 million in turnover and **55 million in the portfolio**, a record in our history.

Our professional community has expanded and is now home to almost **300 people**.

We have consolidated our international presence, confirming our position as a leading player in Italy in the private healthcare, luxury and industrial markets and in the public market for large hospitals, infrastructure and restoration.

We have overcome important challenges, and we feel ready for future ones, thanks to the culture of project sustainability and the digitisation of design and construction management processes: 100% of our work is now based on **BIM-related technologies**.

We have invested a lot in **professional training: over 2,000 hours in one year**. In addition to professional training courses - for BIM technicians, safety coordinators, fire prevention experts - we have created opportunities for sharing, to reflect together on internal project experiences, promote our project culture and share our know-how.

In 2021 there were also intense collaborations with universities in Florence, Genoa, Molise, Naples, Padua, Parma, Perugia, Pisa, Milan, Reggio Emilia, Bologna and Modena, San Marino, IUAV Venice, Ferrara and Turin.

There are **17 curricular courses and post-graduate traineeships**, eight of which have led to actual collaborations in architecture, plant engineering and infrastructure.

In addition, we have accelerated the process to achieve full gender equality and obtained, as the first in Italy in the sector, **IDEM certification for Gender Equality**.

2022, cooperation to look ahead

Just this very year, in this fluid and changing context that proceeds at alternate speeds, we have seen how cooperation is today more central than ever. And we have chosen it as the key word for this 2022, which is a special year for us at Politecnica: **fifty years since its foundation**.

Cooperation between generations

For fifty years, the orientation towards solidarity between different generations has made us look ahead, projecting ourselves into a theoretically infinite horizon, overcoming the temporal limits of the professional life of individuals. And by valuing and sharing the individual contributions of all the members who have worked, are working and will work there.

Cooperation for the environment

After Cop26 and the environmental disasters of 2021, climate change and

environmental sustainability are clear priorities. For years, the projects developed by Politecnica have been meeting sustainability requirements through increasingly integrated design, the result of cooperation between different skills and professionalism. Today we are working on the development of projects, in Italy and abroad, that aim to meet high standards of sustainability, attested by the achievement of specific environmental certifications and protocols. Such as **Green Life**, the new Crédit-Agricole management centre (LEED® Platinum Certification) in Parma and the new **Mapei Football Centre** (LEED® Certified) in Reggio Emilia.

Cooperation for inclusion

For Politecnica, inclusion is a firm commitment, both to the client and internally. Our way of designing starts by listening to the communities and aims to create places and infrastructures that can respond to people's needs over time. We likewise have a challenging agenda for our company: having obtained **IDEM certification for Gender Equality** in 2021, this year we have other welfare initiatives in the pipeline for achieving full gender equality.



All the details		
Financials	2021	Compared to 2020
Turnover (value)	21 Mln €	+14,7%
Awarded projects (value)	34,7 Mln €	+84,6%
Tendered projects (value)	18,9 Mln €	+89%
Projects acquired on private markets (value)	15,8 Mln €	+97,5%
Acquired projects (n°)	80	
Order book (value)	55 Mln €	+34,5%
Foreign market presence (value of professional amount on total turnover)	20%	
Participation in tenders/competitions (n°)	150	
Completed projects (n°)	74	
People		
People (n°)	259	+10%
People (gender)	47% women, 53% men	=
Members (n°)	41	+1
Certifications obtained in 2021		
IDEM Gender Equality Bronze Certification		
Training and Technologies		
Training (total hours/year)	3470	+50,2%
Training (average hours per capita/year)	13	+30%
Investment in new equipment (value)	900.000€	+12,5%
Univerities and training institutions		
Cooperation (n°)	17	+21,4%

Our certification	
2021	IDEM Gender Equality Bronze Certification
2020	ISO 14001 Environmental Management System Modena and Florence offices
2020	ISO 45001 Occupational Health and Safety Management System for Modena and Florence offices
2019	ISO 9001 Quality Management System: extension of certification to the use of BIM methods and tools
2019	ISO 14001 Environmental Management System: extension of certification to Florence office
2018	OHSAS 18001 Occupational Health and Safety Management System: extension of certification to Florence office
2017	Legality rating by the Competition and Market Authority according with the Ministries of Interior and Justice
2017	Adherence to the Envision protocol™
2017	Development of Integrated Management System (Health & Safety at Work) Update of Quality System 2015 issue 9001 standard
2015 > 2016	UNI EN ISO14001 Environmental certification
2014	Quality Certification Project Management Activities
2013	Adoption of the OMC 231 Drafting of the Integrated Quality, Environmental, Safety and Ethics Manual
2012	ISO 9001 Extension of Certification to all business processes
2009 > 2011	ISO 9001:2008 Certification Update
2008	Membership of the Green Building Council Italia (LEED certification system - Leadership in Energy and Environmental Design)
2001 > 2007	ISO 9001 Quality Certification



A year of challenges and successes, looking forward with confidence

Our 2021 was a year of challenges and success, we have **taken advantage of the restart** after the most difficult phase of the health emergency and close the first year of our 2021-2023 business plan by reaching, sometimes even **exceeding, the set targets**.

This is an excellent omen for 2022, when Politecnica celebrates 50 years of history, which allows us to look to the future with the confidence coming from the strength of our roots and the concreteness of the **work we have done together**.

2021 numbers and growth

In terms of **economic results**, for the first time **we exceeded 21 Mln€ in turnover and 55 Mln€ in portfolio**.

We have consolidated our presence abroad and, in Italy, we have been leading players in the public sector and we have also grown remarkably in the private market. This strengthens our perspectives at the end of the

three-year period, despite a very uncertain market influenced by the increase in energy costs and supply of raw materials.

This year we saw a growth not only in the number, but also in the value and size of the projects acquired: in the private markets we practically doubled (+97.5%) 2020 results. **The projects acquired, over 80 this year, have enabled our**

order book pipeline to record a value of €55Mln, + 34.5% compared to the previous year, thus testifying to the breadth of skills and experience we have achieved and which the market recognises, both in Italy and abroad. Furthermore, by participating in 150 tenders, **we increased the value of assignments by 89%**, versus the previous year. **In 2021 we completed 74 assignments.**

The projects

Many projects have involved **intensive participatory design work**. We refer to the new **Civic Center in Follonica**, the **PTAV for the Piacenza area** or the new **school complex in Norcia**. Also, the project for **new bridge over the Magra river**, which is of high engineering value, gained a great contribution through the participation of different stakeholders; the transformation of **Bergamo station** project, which - supported by the **PNRR** - responds simultaneously to the objectives of suburban connection and aggregation to the local community. Abroad we have worked with the community of **Saint Vincent in the Grenadines Islands**.

In the healthcare sector, which has gained momentum and strategic importance with the Covid emergency and the Next Generation EU plan, I would like to mention here two projects among many others. The first one concerns the expansion of the **new university hospital of Køge in Denmark**, the other is the complex intervention aimed at capitalising on the experience of pandemic emergency, **providing a group of national hospitals**, ranging from Lombardy to Emilia-Romagna and Tuscany,



with greater flexibility, safety and capacity.

As to **Sustainability**, among the main certified projects there are **Green Life**, the new **Crédit-Agricole management centre** (LEED® Platinum Certification) in Parma and the **new Mapei Football Center** (LEED® Certified) in Sassuolo.

Among the projects that testify to the degree of commitment to sustainability and the future, in 2021 we consider as emblematic the LEED® Gold Certification for **Cluster 5 in Milano Sesto**, as well as the value brought to

the regeneration of the former Porta Romana railway station through the **Envision® protocol**.

Worthy of mention are **the certification of the new Building 9.11 in 2015 Expo area** in Milan, one of the first interventions to give shape and substance to the futuristic MIND Village, the expansion of **Bulgari Manufactory in Valenza** and the new **EU Joint Research Centre Restaurant in Ispra**, designed to minimise the built environment and protect the biodiversity features of the site, in line with the directives of the BREEAM protocol.

Technology innovation

The use of BIM technologies enabled us to overcome important challenges and be ready for future ones, since the National Recovery and

Resilience Plan (NRRP) reserves a fundamental role for the digitalisation and regulation of construction processes. This is why in 2021 we have increased investments in new equipment and skills acquisition by around

12%. This commitment has earned us the BIM&DIGITAL Awards 21: in the Public Buildings category with the EU Restaurant in Ispra, in the Infrastructure category with the design of the new Milan Linate Control Tower.

Care and cooperation: our people in 2021

Politecnica is now a community of 259 professionals, made up of engineers (47%), architects (31%), technicians and experts (15%) with an average age of 36. In 2021 we welcomed 24 new professionals and increased our investment in training.

Members, collaborators and employees are central to Politecnica. We devote our attention to them through corporate welfare policies reconciling work and family commitments, promoting professional training and inclusion initiatives in favour of gender equality and female employment, respect for diversity. Reconciliation and equal opportunities form part of our DNA. 47% of our staff are women, compared with 30% of female graduates in science and engineering in Italy.

For this reason, first among the integrated design companies in Italy, Politecnica this year wanted and obtained the IDEM Certification, which anticipates the certification requirements provided for by the governance of the PNRR and the goals of the UN 2030 Agenda.

We support all requests for part-time work for family reasons, and facilitate paternity leave providing, in our supplementary company agreement, for 7 more days than required by law.

In the same spirit, we have joined AIW's ROOTS project, an initiative for women's empowerment that promotes job placement by creating new social connections, offering a reference point for the community.

Cooperation on training and research

This year we have also strengthened our cooperation with the Universities of Florence, Genoa, Molise, Naples, Padua, Parma, Perugia, Pisa, Milan, Reggio Emilia, Bologna and Modena, San Marino, IUAV Venice, Ferrara and Turin by setting up 17 curricular and extra-curricular courses (+21% versus 2020).

We joined the Joint Research Platform Healthcare Infrastructures, the platform of excellence for companies and institutions in the healthcare sector, led by Milan Polytechnic University, Department ABC Design & Health Lab and by the Milan Polytechnic Foundation.

The results achieved in 2021 are reflected in our institutional communication activities: more than 280 articles, press releases and interviews to tell the story of our projects and above all of who we are now and who we want to continue being in the future.



Looking ahead to 2022

2022 is a milestone for us: Politecnica is 50 years old. This is a confirmation of the value of our cooperative model, we are proud today to see it projecting into the future. However, we cannot ignore the existence of multiple external variables: an ongoing conflict, the energy and raw materials supply crises may affect the smooth progress of construction sites and markets. Despite this, we are confident. Throughout our long experience we have faced and overcome complex moments. In 2022 we expect to exceed 6.5 Mln euros in net assets: we

consider this value, which we have never reached before, an indicator of the health and solidity of our company.

For the years 2022/2023 we reconfirm the strategic guidelines that have brought us this far: increasing our production capacity, developing the foreign market in specific geographical areas (Caribbean, Northern Europe, South America), continually strengthening the domestic private and public markets and fully developing Milan office. The public market is expected

to be strongly influenced by the PNRR. We are ready to face a big effort, as required by public tendering. The core strategy, in the medium term, is to leverage the quite lively moment of demand for engineering and architecture being experienced in Italy to invest and lay firm foundations abroad, to create alternatives to the domestic market on which to focus when the effects of the PNRR fade. In 2022 we expect a works value increase to €24m, which we plan to maintain in 2023 (capped growth) together with 10% growth of our team.



The responsibility to building the future

The culture of project's sustainability has enabled us to overcome major challenges and look forward with confidence. As designers we feel a strong **responsibility** to contribute to the future of the **new generations**. This is what drives us in every field: public and private, in schools and health care, in industry, services and infrastructure, both at domestic and

international scale. In 2021 too we have been concentrating our activity **on the 17 Sustainable Development Goals (SDGs)** in the Global Agenda for Sustainable Development (Agenda 2030). In particular, this year our organization and projects have been specifically focused on **six goals**.

3
GOOD HEALTH AND WELL-BEING


Designing facilities to ensure access to essential quality health care services.

4
QUALITY EDUCATION


Designing facilities that have the functional and architectural characteristics for efficient and inclusive teaching.

5
GENDER EQUALITY


Achieve gender equality and empowerment (greater strength, self-esteem and awareness) of all women and girls

7
AFFORDABLE AND CLEAN ENERGY


Ensuring access to affordable, reliable, sustainable and modern energy systems for all.

9
INDUSTRY, INNOVATION AND INFRASTRUCTURE


Connecting peoples and communities of people.

11
SUSTAINABLE CITIES AND COMMUNITIES


Making cities and human settlements inclusive, safe and sustainable.



LOCATION	Køge, Denmark
CUSTOMER	KHPT: Joint Venture of Itinera (Gavio Group – Leader), C.M.B. (Member) for the Danish Regional Authority “Region Zealand”
TEAM	Politecnica Ingegneria ed Architettura Soc. Coop. EKJ Consulting Engineers A/S
SERVICE	Technical and financial feasibility design (based on S.A. concept), final design, construction design
ASSIGNMENT	Project Coordination, Architecture, Environment and landscape, Structures, Systems, Infrastructures, Sustainability, Hydrology and hydraulics, Fire prevention
PROJECT	2018 - ongoing

New Zealand University Hospital in Køge



Combining flexibility, performance and continuity of service with the **highest standards of energy efficiency** of the building-plant system, reducing environmental impact, in Køge, an urban centre south of Copenhagen, Denmark. Politecnica’s expertise in the field of healthcare and hospital structures, **applied in the Danish context** for the extension of one of the largest hospital facilities in Europe.

The project

The new Zealand University Hospital in Køge, Denmark, is a major project. By 2024 it will be the largest hospital in the region and among the biggest in Northern Europe. It involves building a new 114,000 square metre hospital block in addition to the original structure, with 789 beds.

The complex will be a hospital-university centre of excellence in biomedical science research, housing high-tech departments and teaching areas for university and conference uses. A balanced and diversified design of the facades integrates the structure with its natural surroundings, thus making the Hospital clearly

recognisable to patients, doctors and visitors. The project represents a paradigm in BIM design in terms of collaboration between client, building contractor and design team.

The existing buildings are integrated into a compact, efficient and flexible architectural and functional solution. The functional areas are organised as autonomous gears which, through automation, logistics, computerisation and flows, are “discreetly” in synergy and ready to guarantee patient management with processes based on intensity of care. Pre-fabrication, standardisation and modularity have also led to cost optimisation.

Contribution to the SDGs goals



The new building will house all the medical, emergency and research departments: the new Zealand University Hospital will become the leading Hospital Centre in the Region of Zealand and one of the largest hospitals in Northern Europe. The hospital’s architectural concept unites the existing hospital with the new building, expressing the concept of a ‘hospital within a hospital’. All departments can be accessed from the hall, which has been extended with new functions and transformed into the new main atrium of the University Hospital.



The new University Hospital in Køge is designed in line with the Building Regulations 2018, also adopting the advanced Building Class 2020 standard on a voluntary basis. The design combines flexibility, performance and continuity of service, pursuing the highest standards of energy efficiency of the building-plant system, reducing environmental impact and aiming to achieve DGNB SILVER certification. Integration and respect for the environment are guaranteed by the inclusion of large internal green courtyards and the creation of a large lake and various waterways. These are the sustainability criteria used:

- EPD (Environmental Product Declaration) certification for materials with product/process/service environmental performance, aimed at optimising their sustainability
- Use of elements with specific FSC (Forest Stewardship Council) certification for wood-based products. 100% of wood-based products were required in the project, with the aim of achieving at least 80% in the final certification phase (target of excellence).
- Use of EMICODE and GISCOD classifications for the control of possible harmful elements (VOC, formaldehyde and others) in construction products
- Fair Stone environmental standard for compliance with the principles of safety, occupational health and management of environmental aspects related to natural stone extraction in non-EU countries.



The design for the new facility originates from the linear organisation of the existing hospital, built around a simple, general traffic system with gardens and green waiting areas. Each transport route connects to a square with individual gardens, which are easy for patients, relatives and staff to experience. The new facility is closely linked to the two adjacent population centres of Køge and Copenhagen by a number of infrastructures:

- Highway E20 and State Road 151 connect directly to Copenhagen
- The hospital is about a 5-minute walk from Olby station, which can be reached from Copenhagen in a few minutes by train.
- The hospital is served by several public urban and interurban lines
- Bicycle paths lead to the hospital, equipped with several protected bicycle parking areas.



LOCATION	Four different geographical lots: Romagna Region (Ravenna and Riccione), central Toscana Region (Empoli, Prato and Florence) Milan and Cremona. Italy
CUSTOMER	ASST Fatebenefratelli Sacco ASST Cremona AUSL of Romagna Region USL Central Toscana Health Care authority
TEAM	Politecnica Ingegneria ed Architettura Soc. Coop.
SERVICE	Technical and financial feasibility design, final design, construction design, safety coordination at design & implementation stages, works management
ASSIGNMENT	Project Management, Architecture, Restoration, Environment and landscape, Structures, Systems, Infrastructures, Sustainability, Acoustics, Hydrology and hydraulics, Fire prevention, Geology
PROJECT	2021 - ongoing

The project

The project is aimed at strengthening the emergency, intensive and sub-intensive care units of several hospitals in considerably different settings.

In Milan, the facilities are sited in the city centre (Fatebenefratelli, Buzzi and Melloni Hospitals) and on the outskirts (Sacco Hospital). In Cremona, the hospital area is a large isolated lot although connected to the city. In Romagna, hospitals are generally located in fairly central contexts, but the Forlì hospital is located in a historical park in the suburban area. The location of operations in Tuscany is also varied.

The project aims to separate flows, integrate equipment and increase the number of intensive and sub-intensive care beds.

COVID Hospitals, designing beyond the health emergency

3

Improving the **responsiveness** of hospital facilities to potential pandemic events and upgrading emergency, intensive or sub-intensive care units by separating flows of people, integrating equipment, increasing beds. Learning from recent unforeseen experiences and improving the ability of healthcare structures to function even in the face of a **pandemic crisis**. Politecnica undertook to design by accepting the challenge of implementing flexible, yet reliable, solutions within the available budget and timeframe.

In order to preserve the smooth running of the hospital even in emergencies, differentiated entrance and exit routes were designed, using the perimeter spaces as a filter for proper social distancing.

The use of the quintuple body (double corridor) has proved to be a useful functional choice to guarantee clean circuits with separate areas for easier management.

Areas suitable for hosting tensile structures or mobile structures outside the buildings have been equipped with drainage networks, pipelines, power supply for air conditioning and heating, and useful technologies for digital communication. Spaces for telemedicine activities have been identified in some hospitals.

In order to preserve regular operation in case of emergency, a dedicated A.T.U. (Air Handling Unit) has been provided on each floor (Air Handling Unit) on each floor, also enhancing the redundancy of electrical energy with an increased number of isolation transformers.

In order to have flexibility in accommodation capacity, where possible medical gases were oversized to create double lines for fluids as well, enlarging the space needed to run new pipes and, in some cases, providing new tanks for O₂.

In record time, prefabricated modules were built and added to the emergency areas of the existing

hospitals. Their function is to house intensive and sub-intensive care beds and, in the emergency rooms, observation areas for patients with infectious diseases.

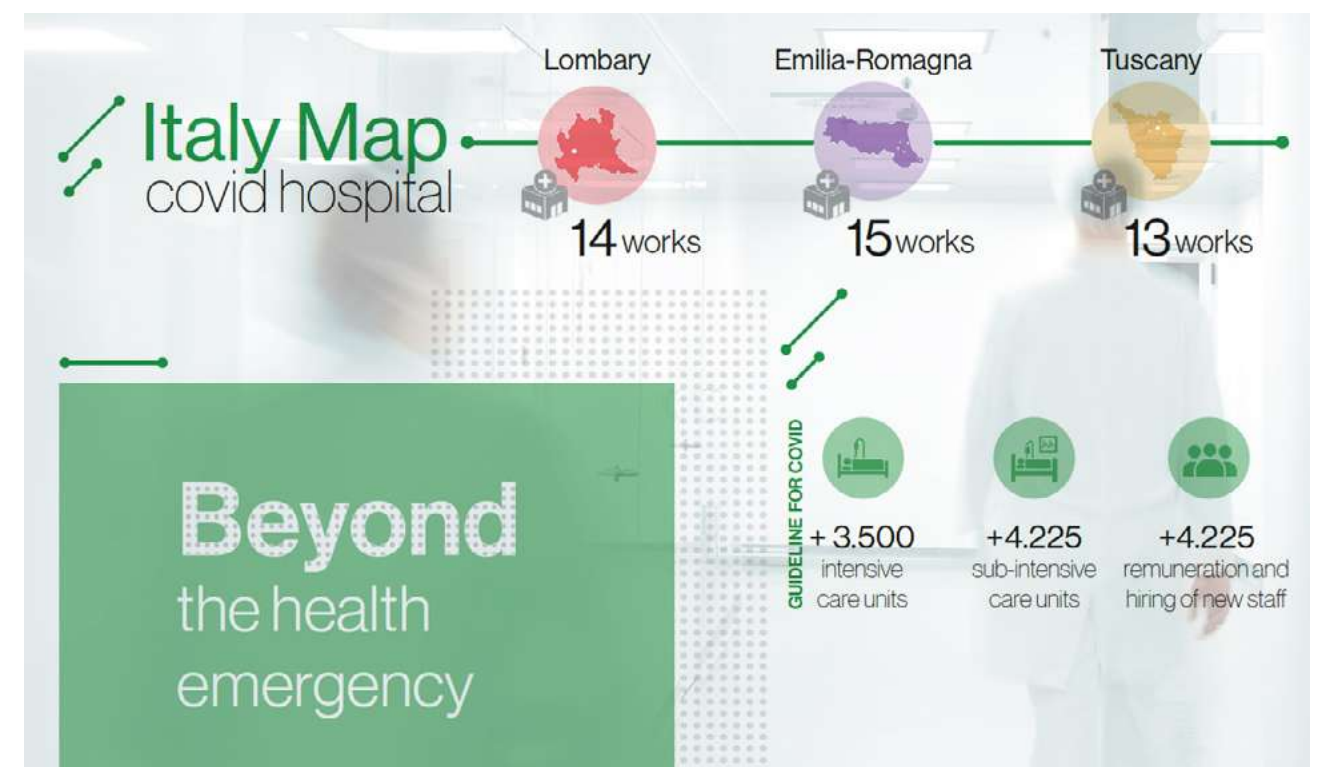
From a plant engineering point of view, work has been done on sizing to meet the need for versatility and dynamism (balance between excess and efficiency), providing for more air changes in the intensive and sub-intensive care units.

In August 2021, the first interventions were completed, putting the new beds into operation.

Contribution to the SDGs goals



There are two paths that must be guaranteed to citizens worldwide: safe access to treatment in hospitals and the penetration of health flows into the system of territorial networks. After the pandemic, access to health services was denied to patients with chronic pathologies, but these are easy to manage if a support network is organised between Level III hospitals, community hospitals, territorial hospitals and local pharmacies, with coordination by GPs. Strategies to guarantee access to services require sustainability and technology. Sustainability for the best use of available areas, technology in terms of plant and communication.





LOCATION	Follonica, Grosseto. Italy
CUSTOMER	City of Follonica, Sector 4 Public Works - State Property Maintenance - Civil Protection
TEAM	Politecnica Ingegneria ed Architettura Soc. Coop. MABS Studio Marcon Architects
SERVICE	Detailed and Final designs, safety coordination at design stage
ASSIGNMENT	Project Management, Structures, Systems, Sustainability, Acoustics, Hydrology and hydraulics, Fire prevention, Geology
PROJECT	2020 - ongoing

Civic Center of Follonica, designing for the community



The Civic Center for the community of the city of Follonica **lives on the strength of the sun** and is the result of participatory planning.

The project

Inserted in the Central Park, in continuity with the urban context and the sports area to the east, the Civic Center provides multiple volumes on three floors, with a mixed structure mainly raised on pillars and blocks developed from the ground for the atrium, library/bar, main hall, music laboratories and gymnasium. All rooms open to the community are on the ground floor and have independent entrances to the two schools.

The CONI-approved gymnasium is designed to host the sports activities of the school and the amateur sports clubs of the municipality of Follonica, as well as official (competitive) FSN and

DSA activities, and will be used as a competitive sports facility for Basketball Basic Level (Category C Gold) and Volleyball (Category B1).

The system, structural and architectural solutions adopted aim at economic sustainability and durability. The steel and wood structures (wood is also used for the striking cross-beam roof of the gymnasium) are treated to resist the aggression of salt. The finishing materials are diversified room by room, according to the activities to be carried out. The systems, integrated in the false ceilings or visible, are in any case protected and easy to inspect.

Entrusted to Politecnica in 2020, the project envisages a large, articulated, multifunctional architectural complex which, within Follonica's Central Park, will house a school complex for over 750 students and a facility for amateur and professional sports. This is an innovative, complex and large-scale project (7150 square metres of school space

and 1900 square metres of gymnasium), which Politecnica tackled by containing costs thanks to technological solutions designed to last over time and starting from the needs that emerged during the participatory planning phase involving the client school administrators, authorities and representatives of town and sports associations.

Contribution to the SDGs goals



The teaching spaces are designed as nuclei connected by wide recreational corridors, basic classrooms and support classrooms, laboratory spaces. The whole building and the various nuclei are designed to encourage relations between students and space sharing. The tranquillity of the educational activities is guaranteed: the library with reading area, the gymnasium, the main hall and the laboratories are open to the public during extra-school hours.



A three-phase photovoltaic power plant with a maximum power output of 92 kWp serves the entire complex. To ensure maximum integration of the panels into the architectural image, the system is installed on the roof of the gymnasium, which is inclined at an angle of 7°. With a view to sustainable mobility, a recharging station capable of delivering 7kW to 22kW is installed in the school car park.



Attention to the life cycle of the entire building led to optimising the use of materials, to cut costs during construction and at the same time reduce the impact on future maintenance or disposal costs. Everything has been calibrated to make the size of spaces and systems, as well as the use of materials, essential as per requirements and regulations. The project was planned from the outset on the basis of exchange and sharing activities with various figures and associations. Participatory planning involved the school management, institutions, neighbourhood associations and sports associations.





LOCATION	Norcia, Perugia. Italy
CUSTOMER	Province of Perugia, School building and school network planning service
TEAM	Politecnica Ingegneria ed Architettura Soc. Coop. 1AX S.r.l. Abacus S.r.l. Coprat Soc. Coop. Dott. Geol. Michele Aureli
SERVICE	Technical and economic feasibility project, final design, executive design, design safety coordination
ASSIGNMENT	Project Management, Architecture, Environment and landscape, Structures, Systems, Sustainability, Acoustics, Hydrology and hydraulics, Fire prevention, Relationship with organisations
PROJECT	2021 - ongoing

New school complex in Norcia, the rebirth of a community



A new **space for sociality and integration** after the deep wound of the earthquake in Norcia, which was severely damaged by a 6.5 magnitude earthquake on 30 October 2016. With Politecnica's expertise, Norcia recovers its **school campus and social**, inclusion and aggregation engine with a green heart.

The project

The new Norcia school complex involves the replacement of school buildings and gyms in the area behind the walled city of Norcia, in close contact with other elements of interest, such as the Norcia Hospital and the naturalistic area of the Norcia Marcite.

Politecnica is the leader of the group of professionals responsible for the design and supervision of the works, in charge of general and IT coordination (BIM project), the design of the mechanical, electrical and special systems and external networks, as well as the supervision of the works. A single complex to house several school facilities: the Primary School (10 classrooms for 200 pupils), the First Level Secondary School (9 classrooms 180 pupils), the Second Level Secondary School (20 classrooms divisible into 25 for 375 students). In addition, the construction of a structure to be used as a school gymnasium and area for sports events is planned.

The new school and sports centre will also be a local community centre. Developing around the axis of Valnerina street, it will create a large pedestrian square, partly covered. This is where the auditorium, library, large canteen, cafeteria and a double-height space called the Te-atrium are located. These rooms are also available to the community during extra-school hours; in addition to the main entrance to the common area, each school has in fact a dedicated secondary entrance that allows for total functional independence.

The new school complex in Norcia will be built mainly using 'dry' systems, in order to limit the size of the construction site, the production of dust and noise, construction time and costs. The buildings of the new school complex are classified as "strategic buildings", they are therefore designed to resist and still be used even in the event of violent earthquakes.

Contribution to the SDGs goals



An urban and social project before being a building project: the spatial and distributive solutions adopted derive from the most modern research studies, the interiors guarantee high comfort thanks to indirect natural lighting and the use of radiant floors. The school buildings are integrated into the social life of the complex, but have total functional independence thanks to dedicated secondary entrances.



The intervention is carried out according to the principles of bioclimatic architecture. It foresees the use of renewable sources in the buildings, through solar and passive ventilation systems and technologies, and through the installation of active solar systems, such as photovoltaic panels, for the production of electricity and solar collectors for the production of hot water, in order to create an energy self-sufficient school complex. As well as providing protection from the rain and shade, the roof of the square will house a large proportion of the photovoltaics needed to make the school buildings energy self-sufficient.



The Technical and Financial Feasibility Study (PFTE) was shared and discussed with the entire community of Norcia: the municipal administration, the local and provincial school management, the special commissioner for reconstruction and citizens' associations. All the design choices aim to create a new "city centre" to complement the old town centre currently being rebuilt: a permeable public space, characterised by squares and avenues full of greenery, capable of dialoguing with the historic and natural landscape.





LOCATION Former Falck and Railway station, North Milan Metropolitan Area, Sesto San Giovanni Municipality, Italy

CUSTOMER Barreca & La Varra Studio of Architecture

TEAM Politecnica Ingegneria ed Architettura Soc. Coop.

SERVICE LEED® consultancy, technical and financial feasibility, detailed and final designs

ASSIGNMENT Sustainability, Acoustics, Fire prevention

PROJECT 2021 - ongoing

Cluster 5 in MilanoSesto, LEED® certified sustainability



Cluster 5 in Milano Sesto: green areas, residential neighbourhoods, a new railway station, a health & research centre, squares, retail and office spaces in the former Falck Areas in Milan deserving **Leed® Gold certification** will get it with Politecnica. Cluster 5's design anticipates and responds to new housing needs through a green and sustainable approach that respects and reflects the emerging needs dictated by ongoing climate change. Politecnica is the guarantor of the procedure for obtaining LEED certification at Gold level. LEED (Leadership in Energy and Environmental Design) is the sustainable building assessment system developed by the United States Green Building Council (USGBC), the most internationally recognised.

The project

MilanoSesto is one of the largest urban regeneration projects in Europe. The project covers an area of over 1.5 million square metres and will accommodate over 50,000 residents and city users.

The masterplan signed by Norman Forster's studio envisages the transformation of the former Falck areas, to convert an area with an old industrial vocation into a system of open spaces based

on advanced models of social inclusion and environmental sustainability, designed for soft mobility (pedestrian and bicycle).

Cluster 5, designed by the architectural firm Barreca & La Varra, comprises the two social housing buildings UMI 4 and UMI 5, an affiliated private crèche, the commercial area on the ground floor and the remaining area dedicated to residential services (common areas).

Contribution to the SDGs goals



The LEED rating system requires certified projects to meet a minimum level of energy performance and to use building-level energy measurement, tracking energy use and identifying opportunities for energy savings. Together, these prerequisites assure a minimum level of energy efficiency in all projects that achieve LEED certification. Cluster 5 has been certified in the Energy and Atmosphere category, the most relevant credit category that the LEED system recognises: crucially, it provides an incentive to increase energy performance beyond the minimum required.



Creating safe, resilient and inclusive cities around the world: the primary goal of the rating system is to transform the way buildings are designed, constructed and managed, enabling a socially responsible, healthy and prosperous environment that improves the quality of life for all. For example through access to affordable and accessible transport services.





LOCATION Milan, Italy
 CUSTOMER Italian Railway Network
 TEAM Politecnica Ingegneria ed Architettura Soc. Coop. Coding S.r.l. SWS Engineering S.p.A
 SERVICE Envision® Protocol application
 ASSIGNMENT Sustainability
 PROJECT 2020 - 2021

More sustainability for the former P.ta Romana railway station



Adding value to the regeneration of the former Porta Romana railway station through the **Envision® protocol**, the rating system for infrastructures that meet environmental, social and economic sustainability criteria. Achieving **Platinum level**, with the guidance of Politecnica.

The project

In the 19th century, with the construction of the Porta Romana rail freight terminal and the building of steelworks and factories, the surrounding area was turned into an important industrial district and centre for workers' gatherings.

Today, after the deindustrialisation process of the 1980s and 1990s, the station needs to be defunctionalized and reorganised to make it an intermodal hub for sustainable mobility, an exchange stop for trains, trams, bicycles, etc., creating cycle and pedestrian paths to reconnect the urban fabric currently divided by the railway, as well as links with the Lodi M3 stop and the Fondazione Prada service and cultural centre.

Politecnica - in Temporary Grouping with Coding srl - has been entrusted with leading the application of the Envision® protocol, the rating system dedicated to the design and construction of sustainable infrastructures. For RFI, building the infrastructure in accordance

with environmental, social and economic sustainability criteria is one of the project's strategic cornerstones: to obtain the highest Envision score, the project was enhanced from several points of view: intelligent lighting (regulation of light intensity in addition to manual and automatic switching), reuse of rainwater, water and energy systems monitoring, bicycle stations and strategies to reduce impacts on construction site.

To date Envision® Platinum, the highest level, has been achieved, thus identifying new actions to further implement the level of sustainability.

The station redevelopment project includes the restoration of the Passenger Building with seismic upgrading, an increase in functional facilities, a focus on inclusive design, the creation of a new square, renovation of the platforms, new station shelters, renovation of the stairs and construction of a subway and lifts.

Contribution to the SDGs goals



Energy savings and reduced emissions of greenhouse gases and air pollutants were achieved through the use of efficient and environmentally friendly machinery, hybrid machinery and LED projectors. In addition, the framework contract between RFI and the energy supplier (Edison) provides for the supply of 100% energy from renewable sources.



The project includes interchanges between rail transport, metro transport and existing or new cycle and pedestrian paths, as well as a subway linking the neighbourhoods on either side of the railway. Soft mobility is encouraged by equipping the new routes with seating and inserting new bicycle racks. Every day, passengers have about 4,800 bicycle parking spaces on Trenitalia trains and can transport folding bikes, scooters, hoverboards and monowheels free of charge on all Trenitalia regional trains.



The project is collaborative and takes into account the needs and expectations of the community that emerged during the meetings with citizens coordinated by Milan Polytechnic. Specifically, the Municipality of Milan has been actively involved in all the project phases, through various technical meetings and continuous discussions during the design stages, since the project covers railway and municipal areas, thus combining both railway and urban needs.





LOCATION	Aulla (Caprigliola-Albiano locality), Massa and Carrara. Italy
CUSTOMER	ANAS S.p.A.
TEAM	Politecnica Ingegneria ed Architettura Soc. Coop. Technital S.p.A. Matildi + Partners
SERVICE	Technical and economic feasibility, detailed and final designs, assistance to the works supervision
ASSIGNMENT	Road project, Environment and landscape, Substructures, Minor works, Lighting, Acoustics, Hydrology and hydraulics, Geotechnica, Relationship with organisations, Construction site
PROJECT	2021 - 2022

The project

The construction of the new bridge aims to rehabilitate the road connection between the two banks of Magra river, thus providing an appropriate level of service. The project does also meet additional needs in the area: t enhances elements of historical and architectural interest that tell a story of border lands and links with the river, such as the former customs house, the former passenger building, the war memorial and, on the other bank, the “ferryman’s house”. It promotes sustainable mobility with bicycle and pedestrian paths interconnected with the Via Francigena cycle path, to be built on the disused railway line. It provides for the redevelopment of the areas near the bridge, including the subway connecting the square to the houses beyond the railway. It improves traffic flow management with a new roundabout road intersection. In constant dialogue with the players involved (the contracting authority, the commissioning structure, the national and local authorities for the authorisation phase, and the contractor), Politecnica engaged its team

Construction of the new bridge over Magra river, Albiano



Reconnection of the two banks of the river Magra, isolated by the collapse of the existing bridge, with a cycle and pedestrian path. This is an **urgent and delicate project, of high engineering value** (due to the geomorphological fragility of the area and the peculiarities of the Magra river) in a context of great environmental, historical and landscape value.

in the design activity, proposing the appropriate engineering and architectural solutions to achieve the new link in a certain, short time, as well as coordinating the work of the partners (Technital S.p.A for the geology and Studio Matildi+Partners for the deck). From a landscape point of view, the design provides shapes, materials and colours in harmony with the context and enhances the continuity of vehicular, pedestrian and bicycle paths. Equipped spaces for parking, pedestrian and bicycle paths have been created for the existing activities of restaurant and cultural club. The redevelopment of the river bank on the Albiano side includes the restoration of the construction site, the planting of shrubs, the greening of the shoulder of the old bridge and of the area covered by debris, the creation of equipped green areas and sports facilities along the Magra river (pedestrian and cycle path down to the river bank, solarium, picnic area and children’s playground). Finally, the redevelopment of the Piazza della Repubblica car park is planned.

Contribution to the SDGs goals



The new bridge reconnects the population of the locality of Albiano, cut off from the municipal area after the bridge collapsed, with the main town of Aulla. In addition, the project improves the adjacent road system: it creates a variant to Bettola, eliminates the undercrossing of the disused railway line, inserts a new roundabout to facilitate traffic flows and replaces a risky level crossing with a pedestrian subway designed also for reduced mobility users.



The project considers the impact on the quality of life of the local community in an area already subject to depopulation. The aim is to carry out an urban and functional redevelopment focused on sustainability (cycle paths), environment (green works), town planning and culture (station square, maintenance of the war memorial and of the Lunense canal). The project also aims at rehabilitating the public spaces adjacent to the former passenger building of the disused railway line “Station Caprigliola Albiano”.





LOCATION Bergamo, Italy
 CUSTOMER Italian Rail Network
 TEAM Politecnica Ingegneria ed Architettura Soc. Coop. Coding S.p.A. SWS Engineering S.p.A.
 SERVICE Technical and economic feasibility project
 ASSIGNMENT Project Management, Architecture, Environment and landscape, Structures, Systems, Sustainability, Hydrology and hydraulics, Fire prevention, Geology
 PROJECT 2021

Bergamo's new HUB, rebuilding the city



A new railway station and a shopping mall, linked by a high-level square. For Bergamo, a HUB designed to **facilitate the city's suburban connection** together with the **cohesion of the community** in the area by reconnecting the urban and relational space with a large belvedere square.

The project

The intervention is part of a vast urban redevelopment project, its Masterplan covering also the construction of some new local public transport buildings, Bus Terminal and Bergamo Electric Tramways, is still under development.

Politecnica is involved in the construction of the new HUB in Bergamo, for which it is responsible for the Technical and Economic Feasibility Project (PFTE), the instrument designed to speed up the actions of the National Recovery and Resilience Plan (PNRR).

The strategic aim is to maximise the services required by the area's growth prospects. In this perspective, the new Bergamo station complex will play a fundamental role in connecting the city's suburban areas and, at a local level, for the cohesion of Bergamo's community. The current railway station is located in the lower town, at the end of the 19th-century avenue that also houses the Piacentiniano centre.

The new layout envisages the construction of two new buildings to bridge the railway line: one to serve as a new station with annexed services and sized to meet the new settlement needs, the other building, to the west, becomes a shopping mall.

The two volumes, built as two bridges over the railway, are connected to each other and to the future Masterplan by a high square, providing a link between the part of the city south of the railway and Marconi Square, eliminating the physical break created by the railway infrastructure. The elevated square connecting the two volumes is conceived as a space for relations and a new belvedere over the territory and the upper city of Bergamo.

Politecnica proposed the use of a mixed steel-concrete structure with the station floor deck suspended from the first level floor slab. Both buildings feature a system of steel and photovoltaic glass canopies.

Contribution to the SDGs goals



The design respects the main international environmental protocols, LEED and ENVISION. We have studied the actual applicability of the protocols on station buildings. The client intends to carry out in-depth studies in the subsequent design phases.



By its nature, the railway infrastructure is a large-scale territorial connection element, which becomes a clear break at local level and a "physical limit" for the city. By placing all the functions at a higher level than the railway line, the new HUB overcomes this limit by becoming a hinge and urban connection element. It thus provides continuity in urban flows and connections: the new facilities will be centred on a new elevated square. The project takes into account the whole intermodal system connected to a station building and reflects all the standards of Rete Ferroviaria Italiana.





LOCATION Province of Piacenza. Italy
 CUSTOMER Piacenza Provincial Authority
 TEAM Politecnica Ingegneria ed Architettura Soc. Coop.
 SERVICE Spatial and strategic planning and advice to the Planning Office
 ASSIGNMENT Urban Planning
 PROJECT 2021 - ongoing

PTAV, rethinking a vast area of Piacenza

11

Planning the future of the Piacenza area, the targets to be achieved, the related policies and actions to be undertaken. **Starting from listening to those who live there.** Politecnica's expertise at the service of the PTAV.

The project

At the crossroads of important communication routes and in the middle of the Po Valley, the territory of Piacenza is a highly attractive pole in the logistic field. With regard to the environmental and landscape system, it has high land consumption rates and air quality problems related to the high level of traffic. On the other hand, the widespread presence of elements of historical-architectural or testimonial interest in the main built-up areas and in rural areas is a strong point. Protected areas are mainly concentrated in hilly and even more mountainous areas and along the Po and Trebbia rivers, basically leading to the establishment of the two main biodiversity poles of regional or interregional importance. In order to construct the territorial strategy, the relevant themes were rearranged according to three strategic axes. Under the dimension Habitability and new needs, the issues covering demography, service system and people mobility, as well as the structure of the reference settlement systems, have been brought

together. The Attractiveness of the territory and Sustainability of the productions dimension concerns aspects related to the productive activities settled on the territory (including agriculture and tourism) with their economic dynamics, settlement characteristics and related mobility problems and social, economic and environmental sustainability. The Natural Resources and Resilience dimension includes aspects related to the presence of natural resources with their related use/quality/criticality systems in terms of ecosystem services and territorial metabolism. This part also includes the issue of climate change. Through this methodological process, the challenges to be overcome to implement the Strategy have been defined, the Vision for future Piacenza is being developed, with the objectives to be pursued and the related policies and actions. The objectives are related to the UN Sustainable Development Goals but also to their declination on a regional scale.

The PTAV

The new urban planning law of the Emilia-Romagna Region entrusts the PTAV (Spatial plan of vast area) with the definition of strategic guidelines for the territorial and environmental planning and care. Politecnica's task is to support the Planning Office within a multidisciplinary group with transport, environmental and socio-economic skills. In addition to contributing their specialist skills

in spatial planning, Politecnica's consultants developed the methodology and detailed work programme of the project team, also providing examples and partly-drafted products for discussion. This was a challenging role, given that the PTAV is a recent instrument with significant aspects of innovation and experimentation.

Contribution to the SDGs goals



Establishing a shared programme of action with the communities in the places where we intervene is fundamental to urban regeneration initiatives. Co-designing makes projects rooted in communities, therefore more resilient in the long term. In the development of this project, workshops were held with local stakeholders and with the assembly of mayors of the provincial territory in order to share the analysis of the situation, the evolutionary scenarios and the challenges to be faced by responding to the requests for participation contained in the regional town planning law.





LOCATION	Berkshire Hill, Parish St. Andrew, St. Vincent Island. Saint Vincent and the Grenadines
CUSTOMER	Ministry of Economic Planning, Sustainable Development, Industry, Information and Labour of Saint Vincent & the Grenadines and World Bank
TEAM	Politecnica Ingegneria ed Architettura Soc. Coop.
SERVICE	Feasibility study, Detailed and final designs, construction management
ASSIGNMENT	Project Management, Architecture, Restoration, Environment and landscape, Structures, Systems, Infrastructures, Interior design, Sustainability, Acoustics, Hydrology and hydraulics, Fire prevention, Environmental and social assessment, Geology
PROJECT	2021 - ongoing

The project

The Fort is located on a hill to the north-west of Kingstown, capital of the island of Saint Vincent, overlooking the harbour. The complex consists of the main Fort building, built at the end of the 18th century, its courtyards and some service buildings (former tank, former armoury, former officers' mess). The building is interspersed with dense tropical vegetation, which also characterises the cliffs overlooking the sea.

The reuse of Fort Charlotte as a museum and meeting place triggers processes of cultural re-appropriation and reconciliation with the difficult past, to which those walls and spaces are privileged witnesses. The design therefore developed with absolute respect for the testimonial value, while proposing a radical regeneration. In addition to exhibition spaces, the project envisages educational and interactive spaces, places for performances, installations for projections and digital exhibitions, an experiential cafeteria, an active plaza with commercial facilities, e-bike rental, observation and

Restoration and recovery of Fort Charlotte, Grenadines



Regenerating while respecting the testimonial value: Fort Charlotte as a **museum of local history** and identity place for the community. An open place, capable of welcoming international users and contemporary expectations.

interpretation points for the cultural and natural landscape.

The Politecnica team contributed to the project with integrated design skills and strategic vision. The master plan for repositioning Fort Charlotte in the island's tourist and socio-cultural system was the result of meetings with local stakeholders and benchmark analysis.

The development of the project involved a number of challenges, first and foremost knowledge of the site and the artefacts, acquired through interviews, drone and laser scanner surveys of the entire complex, fibre optic exploration of the underground tunnels, and investigations into the materials used for construction. Another challenge was to identify the most suitable technologies for the context in terms of atmospheric conditions, but also in terms of ease and cost of procurement, without neglecting the ability to use and implement them by the workers potentially involved in the contract, who would probably come from the Caribbean region.

Contribution to the SDGs goals



Regenerating while respecting the testimonial value: Fort Charlotte as a museum of local history and identity place for the community. An open place, capable of welcoming international users and contemporary expectations.



In the start-up report and throughout the project phase, there were opportunities to share and directly involve the population through face-to-face and online meetings, interviews, walks and shared inspections. The aim was to understand expectations and problems, opportunities for synergy and mitigation of impacts, building the basis for possible interactions and opportunities for joint management of the new spaces and functions envisaged by the project.





Doing business without giving up solidarity

Politecnica's experience starts in 1972, when **nine young engineers and architects** teaching and working in Modena area agree on a common intuition: it is necessary to abandon the old concept of professional studio in

favour of a **stronger multidisciplinary approach**, to face increasingly complex project challenges. On this shared idea, they establish C.I.A., Cooperativa Ingegneri e Architetti.

Let's the founders talk... Giorgio Pacchioni, Gabriele Giacobazzi, Richard Sansom

Giorgio Pacchioni who founded the Cooperative

A founding member of the Engineers and Architects Cooperative, he proposed and firmly **supported the original decision to form a cooperative**. Born in 1936 in Pavullo (Frignano) near Modena, he graduates in Engineering at the University of Bologna. He makes a significant contribution not only to the

establishment of the company, but also to its growth. Even in the most critical moments, he was able to set an example by **cooperating and accompanying the other members** towards increasingly ambitious goals. Just as in teaching, he was a moral example for all those who were close to him.



ABOUT POLITECNICA, HE SAYS..

"Today I look back with pride and wonder at the cooperative I created 50 years ago: a large independent company with a strong international presence and a long-term project. It all started with a determination to do integrated design. Then we projected the company into the future, focusing on the alliance between generation."

OF THE CHALLENGES AHEAD...

"The defence of the environment, a central theme in recent years, requires the multidisciplinary horizon and integrated approach which form Politecnica's raison d'être."

A MESSAGE TO THE NEW GENERATIONS?

"Practice your profession with an active and critical view, work with the client in a never-ending dialogue, with courage and intelligence."

Gabriele Giacobazzi who led the evolution from CIA to Politecnica

President of C.I.A. and Politecnica for over thirty years, Gabriele has guided **the evolution of the cooperative**. He has been able to **keep the cooperative's founding values alive and active**, promoting the balanced development of the firm in the face of profound changes in society and technology. Born in 1949 in Prignano on the Secchia river,

near Modena, he graduates in Civil Construction Engineering in Bologna. Researcher and university professor, he works as a designer and consultant in the fields of infrastructure, construction, town planning and real estate. He plays leading roles in trade and sector associations, consortia, companies, working groups, building and assessment commissions.



ABOUT POLITECNICA, HE SAYS...

"I have lived 35 years of my life in Politecnica. A long journey, many people with whom I shared exciting professional experiences. With Politecnica, I have been able to do project-based enterprise: an entrepreneurial activity that practices economic democracy, in which responsibilities, decisions and choices are shared."

OF THE CHALLENGES AHEAD...

"Doing integrated design is still a cultural challenge: it implies a constant overcoming of the natural tendency to defend one's own professional sphere."

A MESSAGE TO THE NEW GENERATIONS?

"Designing requires a great capacity for identification. It is crucial to put yourself in people's shoes, to think and imagine like them. The project is momentum. It is the desire to change the world for the better. You don't do it out of routine, you need to keep the urge to say new things."

Richard Sansom who broadened horizons

The development of Politecnica on an international scale is largely due to Richard Sansom; born in 1950, he graduates in Civil and Hydraulic Engineering in Florence. In 1981, after having designed a few years abroad, Richard **establishes** IF srl - Idroforma, with engineer Massimo Nunzi and engineer Roberto Naldi. The meeting between Idroforma and C.I.A. is a lucky one: an intense

collaboration is soon established, **leading to the merger of the two companies** in 1994. Richard was a member of Politecnica until 2018. Over the years he has worked on the design and supervision of dams and irrigation systems, roads and railway lines all over the world: Jamaica, Somalia, Mauritania, Egypt, Ecuador, Gambia, Belize, Malta, Libya and Sierra Leone.



ABOUT POLITECNICA, HE SAYS...

"The pride of being part of an engineering company ranking among the top 20 in Italy, with an advanced level of technological evolution and a plethora of complex projects. It is not only the technical and professional achievements that fill me with satisfaction, but also the awareness of having contributed to a secure job prospect for many people."

OF THE CHALLENGES AHEAD...

"Today, more than ever, integrated design is the only answer to environmental risks and the need to reduce consumption. This response is enhanced by new tools and technologies currently guarantying the project sustainability."

A MESSAGE TO THE NEW GENERATIONS?

"Keep studying, always accept new challenges with a keen and participating eye on society."

A collective solidarity project

The decision to set up a cooperative is future-oriented, in the intention of **doing business without renouncing principles of solidarity and fairness**. At the heart of this is **a generous intergenerational perspective**, a long-term view.

In fact, over the years, a new generation of architects, engineers, physics graduates, but also technical experts, surveyors and designers enters C.I.A. bringing fresh skills and a **new cultural perspective**. Among these newcomers is **Gabriele Giacobazzi**, the engineer who will lead the evolution of C.I.A. into Politecnica.

Autonomous, collaborative and increasingly international

Faced with many offers for

acquisition, C.I.A. confirms its initial choice of **autonomy and independence**, starting collaborations with professional studios in Florence, Bologna, Rome and Milan. Through larger and more complex assignments it starts its **international development** phase.

New professional skills, competencies and tools flowing into the cooperative will be used to design for an increasingly evolved clientele: life cycle assessment, risk management, value engineering.

The new name of a project looking ahead

In 1994, under the new name Politecnica Ingegneria ed Architettura, the cooperative marks its transition from a regional design studio to a **stable and innovative national**

company, with intense activities abroad. Since 2011 the chairmanship has been entrusted to **Francesca Federzoni**, an Engineer who has been at Politecnica since 1995.

A future of inclusiveness

Inclusive design is central to Politecnica, now more than ever. This means developing buildings and spaces that generate opportunities, capable of adapting to the uses and functions assigned to them by users. Similarly, **gender inclusion** matters: in 2021 Politecnica obtained IDEM Gender Equality Certification and has already set the goal of achieving numerical parity of people in the organisation by 2030 (today women make up 47% and enjoy full equal pay).

The key moments of Politecnica

The 1970s: the foundation

The collective project that is now Politecnica is born in Modena.

- **1972**
C.I.A., Cooperativa Ingegneri e Architetti, is founded.
- **1972-1976**
presidency of Paolo Martini
- **1977**
presidency of Renzo Ballabeni
- **1978-2011**
presidency of Gabriele Giacobazzi

The 1980s: growing up while remaining independent

New partners and new alliances, large and complex projects.

- **1981**
incorporation of Tecnoexport
- **1985**
alliance with Idroforma

The 1990s: the new name

The evolution is completed: from a regional company to a solid national group.

- **1994**
Incorporation of I.F. Idroforma (Florence) and Tecnoprogetti (Bologna): C.I.A. becomes Politecnica Ingegneria ed Architettura
- **1996**
opening of the new Bologna operating office

The 00s: consolidation and international development

Internationality, technological evolution, certifications.

- **2001**
certification processes begin
- **2003-2012**
new offices in Catania, Malta and Kosovo

The 10s: integration and sustainability

Ready for a complex national and international market.

- **2011**
chairmanship of Francesca Federzoni
- **2014**
opening of Milan operating office
- **2016**
new office in Istanbul
- **2018**
new offices in Copenhagen and Bucharest
- **2019**
relocation of new Milan operating office

The 20s: cooperation continues

Responding to the new challenges of inclusion, equity, sustainability.

- **2021**
Gender Equality IDEM Certification
- **2021**
new offices in Belize and St. Vincent and the Grenadines



Respect for people, communities and planet

Respect for people and the planet is fundamental to Politecnica. This value, which has guided us since the very beginning, takes on **renewed meaning** today in the face of the many challenges of our times. Together, yesterday's and tomorrow's

professionals, engineers, architects and technicians share a vision of design **at the service of people**, integrated and cooperative, which is tailored to the needs of communities and carries out works that contribute to improving the quality of life.

Cooperation



From the outset we have adopted a humanistic attitude, guided by a sense of the common good. These are the cornerstones governing all our relationships: between partners, with employees, with clients, with all stakeholders and the people who will use the works we design.

Sustainability



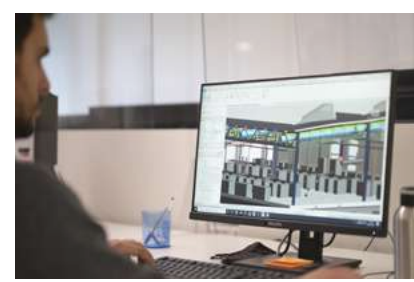
We are people who design for people. Sustainability for us means above all the responsibility to design buildings and structures helping people to live better: infrastructure that enables exchange and relationships in the community, technologically innovative, inclusive and safe buildings for health and education.

Social responsibility



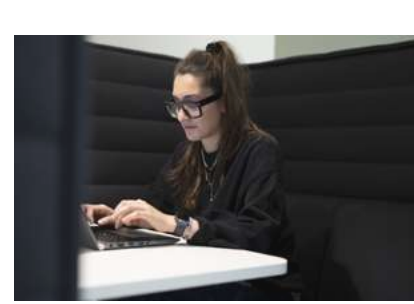
We are a cooperative society: social responsibility and solidarity are part of our *raison d'être*. In our work and in all our projects we are responsible and supportive towards our customers, towards the people and communities that will use what we make, towards the territories in which we operate, towards the planet and its precious resources.

Project culture



We are engineers, architects and technical specialists who share a common project culture. The integrated vision with which we approach each of our projects benefits the client, who finds in Politecnica a single point of contact, able to manage the complexity of the work and guarantee the final result.

Independence



Abbiamo consapevolmente scelto la strada dell'autonomia e dell'indipendenza. Questo ci permette di essere partner leali e generosi dei nostri committenti, che affianchiamo nello sviluppo di progetti in tutto il mondo e in ogni campo: pubblico e privato, scuola e sanità, industria, servizi, infrastrutture.



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Where we are

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Bucarest, Copenaghen, Kingstown, Sliema, Tirana

politecnica.it



Our Annual Reports are documents designed with the aim of telling all our Stakeholders, in full transparency, “who we are” and “what we do”.

They are a sharing tool of Politecnica’s values, which we have decided to publish also in digital format as from 2019, to make it fully and easily accessible to all Stakeholders, in line with changing times.

