



**POLITECNICO
MILANO 1863**



Strategic Sustainability Plan **2023-2025**

SDGs Report 2023

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→ INTRODUCTION

In 2023, Politecnico di Milano presented its first Strategic Sustainability Plan, spanning the three-year period 2023-25, as the expression and completion of a vision that identifies care and commitment to the well-being of people, the environment and, more generally, of our community as a top priority. To the term 'sustainability', now recurrent in the dynamics of economics and social progress, we explicitly associate that of development, which encompasses key concepts such as growth and regeneration.

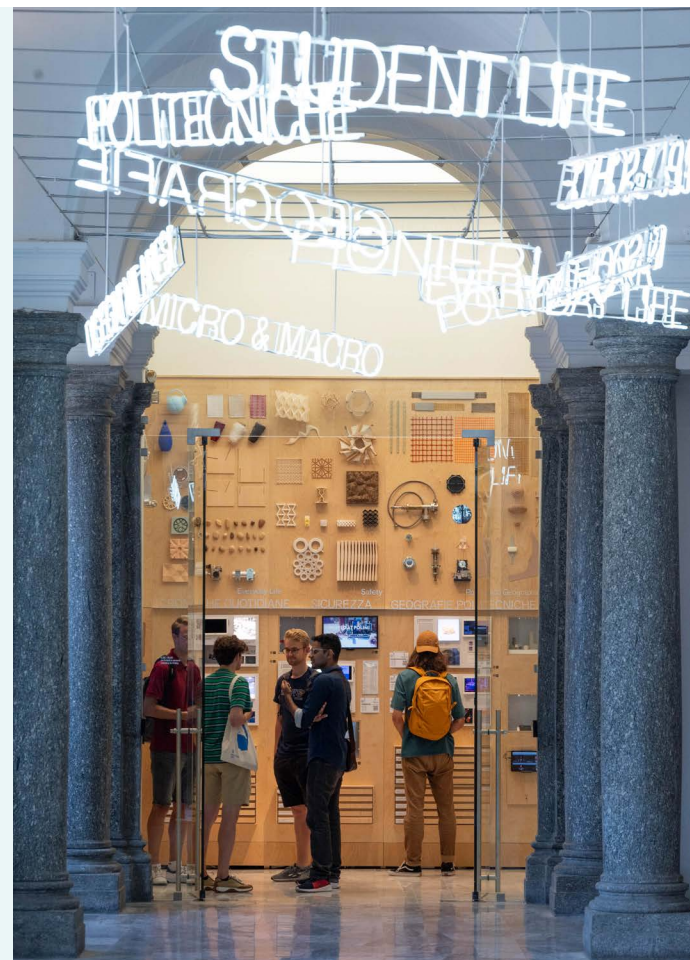
The broadest framework adopted for defining the Plan's contribution to sustainable development is that of the Sustainable Development Goals (SDGs), which allows for a broad and detailed view of sustainable development issues. The Strategic Sustainability Plan has a two-level structure: the highest level is that of the six priorities, identified as the macro-areas that the University wants to address in terms of sustainable growth; the second level is that of the 18 themes into which the priorities are divided, identifying specific areas of intervention.

In 2024, an update of the Plan was published, aiming at updating and reconfirming the commitments as well as report on results achieved during the first year of implementation of the Plan, describing all activities initiated or fully completed in 2023 for achieving of the Plan's Goals and Targets.

This document, the "2023-25 Strategic Sustainability Plan – SDGs Report 2023", provides an alternative representation of the "2023-25 Strategic Sustainability Plan – 2024 Update and 2023 Sustainability Report". In this version, the focus is on specifically highlighting the synergies between the SDGs of the UN 2030 Agenda and the specific sustainability objectives of the Politecnico di Milano. This approach is intended to emphasize the University's commitment to actively contributing to the SDGs, fostering strategic alignment between the global sustainable development goals and institutional priorities.

In this perspective, a new layout of the Plan was developed. For each SDG, this document presents:

- A selection of projects and initiatives carried out in 2023, relevant to the Goal at hand and instrumental in achieving the commitments undertaken.
- A reporting sheet that outlines the university Objectives and Targets defined within the Plan, detailing, for each Objective, the Actions planned for the 2023-25 period, followed by the Activities implemented in 2023 and associated Results, which together account for all initiatives, projects, and services offered, pursued, or completed during the year.



SDG1

NO POVERTY



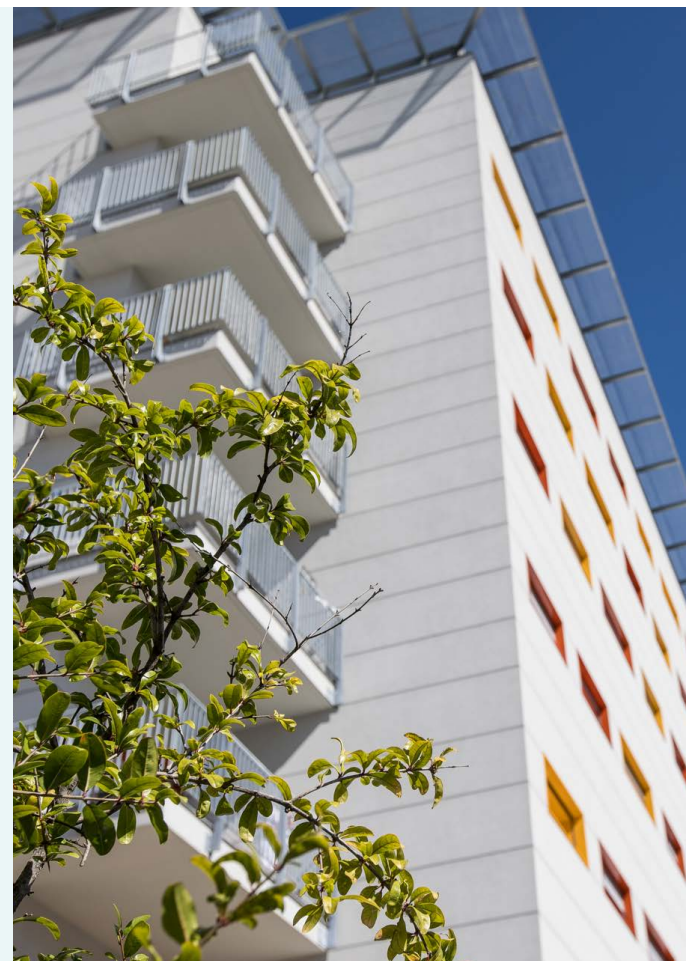
PROJECTS AND INITIATIVES

WELFARE SERVICES

The enhancement of people working at Politecnico passes through the organisation's ability to take care of the well-being of its employees, in a logic of sustainable development. To this end, Politecnico provides all its staff with the University welfare service, that is, a structured set of non-monetary incentive actions and policies. These policies included several initiatives such as special agreements in the areas of culture, food and travel as well as sustainable mobility and transport; with respect to the latter, Politecnico offers its employees large discounts on public transport passes. Other noteworthy initiatives are the Polimi People Care health care plan, the Welfare Portal for purchasing goods and services covered by University credit and signing a Temporary Insurance Policy - life insurance - against the risk of death for teaching and technical and administrative staff.

OPENING OF THE NEW MARIE CURIE RESIDENCE

On September 20, 2023, Politecnico di Milano opened the new 'Marie Curie' student residence, which offers accommodation for 213 Italian and international students. The residence consists of 77 flats including single and double rooms and facilities for guests, including study rooms, gym, laundry, games room, music room and break area. The external areas are mainly intended as public squares and spaces for leisure activities, so as to ensure maximum usability of the common spaces and permeability between the building and the surrounding urban fabric. The renovation of the existing building stock, with an investment worth €12 million, is part of the overall redevelopment plan for the marginal areas of the city.



SDG1

NO POVERTY



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
PEOPLE GROWTH AND WELFARE	ENHANCEMENT OF THE WELFARE SYSTEM 8,000 registrations to the service	Promotion of existing services – Communication and dissemination initiatives of welfare services available for teaching and technical-administrative staff NEW	<ul style="list-style-type: none"> ● Polimi People Care promotion and registration campaign for the 2024-25 two-year period, 2 meetings with a focus on new services for researchers and PhD students as well as onboarding meetings for newly recruited staff ● Promotions of the 'public transport pass' service ● Continuous upgrade of information material available in the Online Services ● Increase in fringe benefits for employees with dependent children ● Techcamp (technology summer school for high school students) scholarships for employees' children 	<ul style="list-style-type: none"> ● 6,987 registrations in Politecnico welfare initiatives (+19% compared to 2022) ● 788 teaching staff registered in Polimi People Care (+14% compared to 2022) ● 1,564 public transport pass subscriptions under special agreements (+43% compared to 2022)
		Parenting - Activation of services to support parenting in the working and studying community based on the needs of the various age groups of children	<ul style="list-style-type: none"> ● Feasibility analysis of guidance and counselling services for parents, children/teenagers with LSD, counselling on sleep issues for parents with children in the 0-3 age group, school and university orientation for employees' children 	<ul style="list-style-type: none"> ● Preparation for launching the services in 2024
		Assistance - Activation of support services that help staff members in supporting parents and family members with disabilities or in need of assistance	<ul style="list-style-type: none"> ● Feasibility analysis of guidance and counselling services for caregivers and development of webinars and educational clips 	<ul style="list-style-type: none"> ● Preparation for launching the services in 2024
		Work-life balance - Implementation of initiatives and services to ensure a proper work-life balance	<ul style="list-style-type: none"> ● Feasibility analysis on time saving services for employees 	<ul style="list-style-type: none"> ● Preparation for launching the services in 2024
		Prevention and promotion of healthy lifestyles - Strengthening of existing services in synergy with the sports service and promotion of new dedicated initiatives	<ul style="list-style-type: none"> ● Feasibility analysis of initiatives for psychological and physical wellbeing and co-design of initiatives for a healthy lifestyle with the Sport Service 	<ul style="list-style-type: none"> ● Preparation for launching the services in 2024

SDG1

NO POVERTY



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
FINANCIAL SUPPORT AND STUDENT MENTORING	SCHOLARSHIPS DSU (Right to University Education) scholarships granted to 100% of eligible students	DSU budget - Budget allocation to ensure all eligible students receive a scholarship New scholarships - Development of new types of scholarships and strengthening of existing programmes to support deserving students' invulnerable economic conditions	<ul style="list-style-type: none"> Allocation of funds from Politecnico to supplement state/regional funds for DSU eligible students Exemption from contribution and support to students who are refugees from war areas, including those with no refugee status UNICORE scholarships in collaboration with UNHCR for refugee students 	<ul style="list-style-type: none"> € 9,5 mln allocated by Politecnico to cover DSU scholarships 7,013 DSU eligible students >20 refugee students receiving financial aid 2 refugee students with UNICORE scholarships
	RESIDENCE HALLS +50% number of places available, of which 60% dedicated to DSU students	Construction works - Construction of new residence halls to increase the University's accommodation offer, particularly for students in less favorable economic conditions	<ul style="list-style-type: none"> Opening of the new Marie Curie residence hall, offering double rooms, single or double rooms in flats, mini-flats for people with disabilities and common areas for socialising and sports 	<ul style="list-style-type: none"> 213 beds in the Marie Curie residence hall of which 60% reserved for DSU scholarship recipients and 12 studios equipped for people with mobility disabilities
	PAID STUDENT COLLABORATIONS +20% total hours vs previous three-year average	Remuneration and number of hours - Increase in the number of hours for student collaborations and simultaneous increase and diversification of hourly remuneration according to the type of student and type of activity Management model - Increase in and diversification of the offer also through the involvement of Schools and Departments; increased flexibility in calls for participation	<ul style="list-style-type: none"> Drafting and application of the regulation on "student collaborations" which extends the type of collaborations that students can undertake Increase in the number of hours required for each contract: from 150 to 200 hours Drafting of the new experimental dedicated to first-year students 	<ul style="list-style-type: none"> Regulation entered into force in August 2023 Collaboration contract requested for 2,773 students call by Structures 75,959 paid hours

SDG2

ZERO HUNGER



PROJECTS AND INITIATIVES

FOOD BOXES TO REDUCE FOOD WASTE

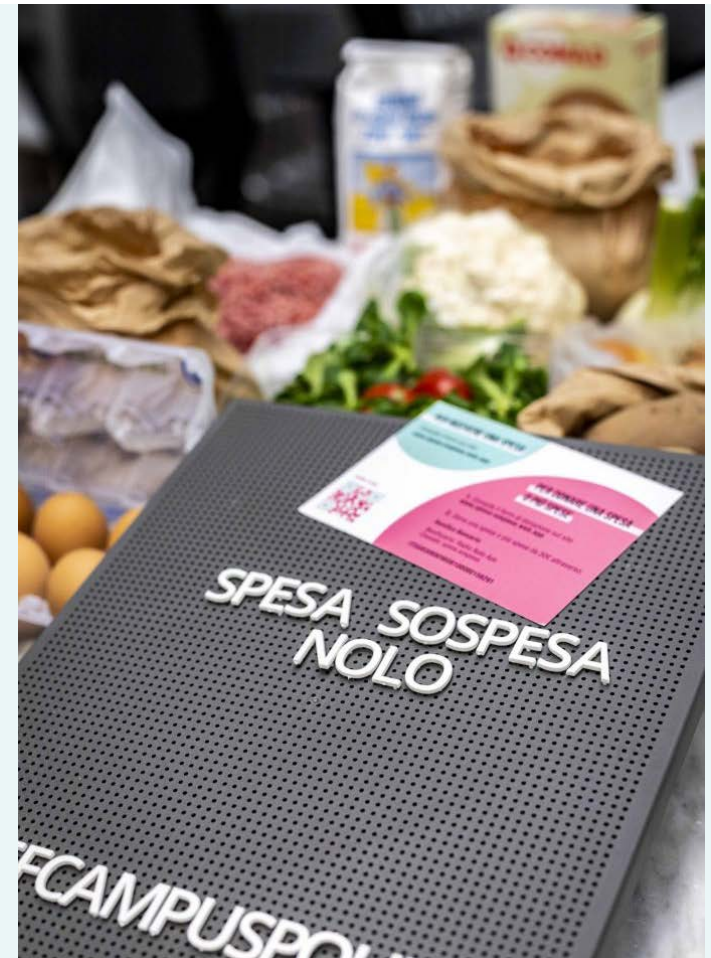
The University has introduced an initiative to reduce food waste and provide an affordable food option for students and university staff. In 9 out of 10 university dining areas, near closing time, it is possible to purchase unsold food in excellent condition at a discounted price through the “Food box” system, thus ensuring a convenient dinner option while also helping to reduce food surplus. The initiative has sparked great interest in the community, with 90% of the boxes produced being sold each day.

SOSPESA PROJECT

SOSpesa is an initiative of Off Campus Nolo dedicated to the recovery and redistribution of food surplus through a network of local shops. Every week, thanks to the efforts of over 25 volunteers, 20 food packages are delivered to vulnerable individuals, with half of the products purchased at subsidized prices and the other half recovered from wholesale markets, thus avoiding waste.

A network of 17 shopkeepers supports the initiative by donating unsold goods and collecting contributions, while a portion of the surplus is transformed into long-lasting products to support the cause.

With the aim of “closing the loop” of food sustainability, SOSpesa seeks to manage surplus throughout its entire life cycle by creating hydroponic walls for growing herbs and vegetables and turning waste into compost, promoting food self-sufficiency in the neighborhood.



→ **SDG2**
ZERO HUNGER



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
<p>CIRCULAR ECONOMY</p>	<p>REDUCING FOOD WASTE</p> <p>Zero food waste in 100% of food courts and catering events</p>	<p>Technological innovation - Implementation of a system to recover leftover food</p> <p>Partnerships - Definition of partnerships with companies and non-profit sector organisations involved in the redistribution of leftover food (in connection with Polimi4nonprofit)</p>	<ul style="list-style-type: none"> • Extension of the 'Compass box' process of selling leftover food at a discounted price close to the closing times of dining points • Analysis and development of agreements with suppliers to include catering leftovers in Compass boxes • Analysis of leftover food quantity • Sharing of the food waste reduction policy with catering service and restaurant suppliers • Collaboration with the NRRP OnFoods project for developing the Polimi Food Policy 	<ul style="list-style-type: none"> • 9 dining point out of 10 adopted Compass boxes (90%) • Approx. 90% of box sold out of those produced • Start of the drafting of a Polimi Food policy

SDG3

GOOD HEALTH AND WELL-BEING



PROJECTS AND INITIATIVES

‘LEADERSHIP SKILLS IN MENTAL HEALTH PROTECTION AND PROMOTION’

The course explored the link between leadership and mental health in order to spread a culture of psychological well-being in the workplace. Through a targeted course, participants had the opportunity to broaden their knowledge and recognise the biases that still exist in the world of psychological health and mental disorders. Practical cases and classroom interactions were used to better understand the impact of the content and context of work on psychological well-being: improving leadership skills in mental health protection and management also means learning how to engage in a mental health conversation and promote mental health protection.

EXPERIENTIAL WORKSHOPS: NRRP PROJECT ‘IDENTITY AND WELL-BEING’

In September 2023, experiential workshops were launched for students and PhD students. Workshops combine theoretical-frontal teaching with practical activities in which students are divided in small groups for active involvement and participation. Each workshop allows participants to reflect upon and experiment with specific issues related to emotions and relationships. This is aimed at providing students with practical tools for recognising and developing certain aspects of themselves. These experiences aim at enriching the students’ personal resources and reflect on and deal with their most delicate and fragile aspects, so as to foster a more conscious and inclusive view of oneself, others and mutual relationships.

POLIMIRUN SPRING 2023

PolimiRun is a 10 km run open to all, both non-competitive and competitive, connecting the two Politecnico Campuses located in Milan (Leonardo and Bovisa). It was launched in 2016 and has now become a traditional event not only for the Politecnico community but for the whole city of Milan. PolimiRun has been conceived and has always been an event suitable for everyone, with a focus on fun, sense of community and well-being at its core. These values are central and are translated into concrete actions not only during the race and in the start and finish villages but also (in the months leading up to the race) with the Road to PolimiRun events, focused on fun, fitness and well-being. PolimiRun Spring 2023 recorded 14,000 registered participants and a with a very high rate of actual participation.

SDG3

GOOD HEALTH AND WELL-BEING



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
PSYCHOLOGICAL WELL-BEING AND HEALTH	PSYCHOLOGICAL AND PSYCHOTHERAPEUTIC SUPPORT SERVICE 100% access to the service within 1 month since request	Analysis and taking charge - Periodic evaluation of the questionnaires filled in by the students when requesting support and identification by the staff of the most suitable programme in terms of urgency and type Communication - Communication actions to increase the impact of well-being initiatives	<ul style="list-style-type: none"> Verification and fine-tuning of the service support application (PoliPsi) 	<ul style="list-style-type: none"> 100% of questionnaires assessed
	COMMUNITY TRAINING AND EDUCATION 500 900 people involved in the three-year period UPDATE	Staff training - Introduction of courses on relational, emotional and self-awareness aspects for teaching staff, technical-administrative staff, research fellows and specialist collaborators Experience-based workshops and seminars for students - Introduction of experience-based workshops and seminars/roundtables for students on relational, emotional and self-awareness aspects	<ul style="list-style-type: none"> Initiatives for the World Mental Health Day (including activation of a phone help desk for technical and administrative staff and students) Design and realisation of experience-based workshops on personality and self-knowledge/ team building/ leadership and mindfulness Course: 'Leadership skills in mental health protection and promotion' for technical and administrative staff with management roles Design and realisation of experience-based workshops on emotions/relationships/mindfulness/self-knowledge Dissemination through University communication channels Administration via the 'Identity and Wellbeing' platform 	<ul style="list-style-type: none"> 5 services for psychological and mental well-being promoted on the occasion of the World Mental Health Day 80 participants in workshops 52 participants in the 2 editions of the course 23 workshops realised 200 participants in total
	MONITORING OF RESULTS Administration of a climate survey to all students	Monitoring - Evaluation of the climate survey and analysis of needs Reporting and satisfaction questionnaires - Upgrade of the existing platform	<ul style="list-style-type: none"> Definition of the contents of the Climate Survey for students Launch of in-depth studies on the administration methods and themes related to privacy, necessary to perfect the survey Revision of the 'Identity and Wellbeing' platform Integration with the PoliPsi platform and addition of assessment questionnaires 	<ul style="list-style-type: none"> Survey contents determined Administration scheduled for 2024 Platform revised and integrated with the PoliPsi application

SDG3

GOOD HEALTH AND WELL-BEING



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
SPORT	INVOLVEMENT OF THE INTERNAL COMMUNITY AND SUPPORT FOR EXCELLENT STUDENTS +50% involved students and Employees +50% sports merits scholarships +50% Dual Career athletes NEW	Events and tournaments - Organisation of in-house and international initiatives	<ul style="list-style-type: none"> Realisation of international tournaments Marketing actions to increase the number of those registered to Politecnico's sport events, including PolimiRide, PolimiRun, Polimi League, Spring Games and 6 Campuses Tournament 	<ul style="list-style-type: none"> 2 international competitions/tournaments (new experimentation) 8,330 people registered in sport initiatives in 2023 vs 5,532 in 2022 (+51%)
		Infrastructure – Upgrading of existing infrastructure (Parco dei Gasometri in Bovisa, Gymnasium in Cremona, new Fit Center at Campus Leonardo)	<ul style="list-style-type: none"> Design of the new fit center at Leonardo Campus Design of playgrounds and sport courts in the Parco dei Gasometri (Bovisa Campus) 	<ul style="list-style-type: none"> Completed projects
		Sports played - Extension of the offer for individual and collective sports through the involvement of Dual Career students and Alumni acting as sport ambassadors	<ul style="list-style-type: none"> Extension of the sport courts offer (masterclasses) Creation of a database of Dual Career students and Alumni 	<ul style="list-style-type: none"> 10,000 'Sport Polimi' subscribers 2,317 internal registrations in masterclasses in 2023 vs 1,201 in 2022 (+93%) Database realisation
		Team building - Organisation of team building activities	<ul style="list-style-type: none"> Discussion on the theme within the Sustainability Working Groups (Sport and Wellbeing Working Group and Gender Policies and Inclusion Working Group) 	<ul style="list-style-type: none"> Drafting of a first shared proposal by the two Working Groups
		Dual Career programme development – support to students-athletes NEW	<ul style="list-style-type: none"> Upgrade of the Dual Career programme and expansion of subscriptions 	<ul style="list-style-type: none"> Dual Career programme updated 54 people joining in in 2022-23 (+20% vs 2021-22)
		Scholarships - Financial aid programmes for students practicing sports at high levels NEW	<ul style="list-style-type: none"> Expansion of scholarships for sports achievements 	<ul style="list-style-type: none"> +50% scholarships (30 in 2023 vs 20 in 2022) and +100% in individual scholarship value (5,000€ in 2023 vs 2,500€ in 2022)
	SPORTS AS A TOOL OF PUBLIC ENGAGEMENT AND SOCIAL RESPONSIBILITY +25% +40% Participants in University-sponsored events UPDATE 5 Social responsibility initiatives/year	Events - Increasing the impact of sports on the territory by organising major sporting events open to citizens, as well as socially responsible initiatives with minors, people with disabilities and under-represented groups	<ul style="list-style-type: none"> Marketing campaign to increase the number of registrations in the 3 sports events open to all citizens, i.e., PolimiRun Spring, PolimiRun Winter, PolimiRide Organisation of a sport summer camp for children One initiative in collaboration with other Universities in Milan, open to all citizens 	<ul style="list-style-type: none"> 8,637 external registrations in 2023 vs. 6,080 in 2022 (+42%)
		Environmental sustainability - Reduction of disposable plastic items in big sport events NEW	<ul style="list-style-type: none"> Design of action to be implemented in 2024 	<ul style="list-style-type: none"> Design of actions



PROJECTS AND INITIATIVES

‘IMPARARE A IMPARARE’: A COURSE FOR NEWLY ENROLLED STUDENTS ON ‘LEARNING TO LEARN’

At the start of the 2023-2024 Academic Year, the first edition of the ‘Imparare a imparare’ (Learning to Learn) course was offered to first-year students. The course was designed and delivered by METID, the ‘Innovation Teaching and Learning’ Task Force of Politecnico di Milano. The course includes a mix of synchronous and asynchronous activities focused on the development of a University-type approach to study, facilitating the transition from high school and preventing newly enrolled students from dropping out. The course consists of four webinar sessions on the University study method, to stimulate a pro-active attitude on the part of the students: classroom lectures, home study, group work and study time management. The webinars are supplemented by group reflection sessions; an online space with forums and in-depth material is also available to participants. The first edition was offered to a pilot sample of 350 newly enrolled students; out of them, 80 chose to participate in the course. In November, a second pilot course was delivered specifically for students with Additional Educational Obligations (OFA), in which 40 students participated.

ENHANCING PHD SUPERVISING CAPABILITIES

‘Enhancing PhD Supervising Capabilities’ is a comprehensive training programme designed to enhance the skills of professors in their role as supervisors of PhD students, improving both the effectiveness of their mentoring and the experience of PhD students. The agenda focuses on a variety of key challenges, such as dealing with anxieties related to assessment and failure, publication dynamics and possible relational problems, promoting an ethical, collaborative and productive academic environment. The first edition of the course was delivered by META, Politecnico di Milano’s Unit for Social Sciences and Humanities in Science and Technology, which is responsible for ensuring specialising courses in ethics, philosophy and sociology of science and technology to help providing the knowledge and skills needed to make informed and responsible choices.

NEW EDUCATIONAL MODEL AND PROFESSORS’ TEACHING COMMITMENT

In 2023, the overall teaching governance model was re-evaluated to further improve the quality and sustainability of teaching activities through a shared approach centered on the student experience. The teaching model of Politecnico di Milano aims to provide students with a comprehensive educational experience on three main fronts: depth, extent and personalisation. This means ensuring a solid basis for developing a mature critical sense, offering multidisciplinary and multicultural enrichment and enhancing the personal aptitudes and interests of each student. Students thus have the opportunity to enhance their disciplinary, cognitive and relational skills through the quality models, tools and services that accompany them at all stages of their education.

SDG4

QUALITY EDUCATION



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
LIFELONG LEARNING	<p>MOOCS AND 'MICRO-CREDENTIALS'</p> <p>130 MOOCs, of which 20 focused on sustainability</p>	<p>MOOCs - Design and implementation of the collection</p> <p>Micro-credentials - Design of a postgraduate training programme on specific sustainability-related topics, with delivery of courses and issue of micro-credentials and certificates</p>	<ul style="list-style-type: none"> • Design, production and publication of MOOCs with a particular focus on sustainability • Launch of the design phase for new MOOCs to be published in 2024 • Launch and development of a new Moodle-based POK platform and a module for integration with Politecnico's Online Services for the issuance of micro-credentials 	<ul style="list-style-type: none"> • MOOCs in POK: 117 (of which 14 on sustainability) • Drafting of a document for requirements and general design
	<p>POSTGRADUATE EDUCATION FOR THE NON-PROFIT SECTOR</p> <p>1,500 participants in the courses</p> <p>1,000 hours of mentoring provided</p>	<p>Workshops and project approaches - Design and implementation of workshops and project approaches within postgraduate Masters, centered on non-profit sector stakeholders</p> <p>Mentoring in projects - Pro-bono provision of expertise to support non-profit sector stakeholders in implementing innovation and continuous improvement projects</p> <p>Assistance to participation - Increase of partial exemptions between 10-15% for candidates from the non-profit sector</p>	<ul style="list-style-type: none"> • Identification and mapping of workshops and educational pathways currently proposed to the non-profit sector • Third edition of the 'Leave Your Mark' initiative organised by the GSoM to offer, free of charge, skills to non-profit entities engaged in the construction of a more inclusive society • Analysis and promotion of concessions and discounts to the non-profit sector 	<ul style="list-style-type: none"> • 72 participants from the non-profit sectors in training courses • 412 hours administered to non-profit sectors entities in the mapped programmes • 6 non-profit organisations supported • Involvement of 20 Alumni and 5 academic tutors • 20-30% discounts on certain programmes

SDG4

QUALITY EDUCATION



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
ACCESSIBILITY OF SPACES AND EDUCATION	INCLUSIVE EDUCATION 60% of teaching staff trained in the threeyear Period	Digital accessibility (SLDs/Disability) - Creation of courses for all teaching staff on teaching accessibility for people with SLDs and disabilities	<ul style="list-style-type: none"> Launch of identification of courses and guidelines in place on digital accessibility 	
		Inclusive teaching (SLDs/Disability) - Dedicated training for teaching staff on issues related to inclusive teaching and innovative teaching methods with respect to people with disabilities and SLDs	<ul style="list-style-type: none"> Launch of the design of MOOCs on inclusive teaching Administration of courses for professors on inclusive teaching 	<ul style="list-style-type: none"> MOOC syllabus realised and courses associated 207 professors trained in the administered courses (13%)
ETHICAL AND RESPONSIBLE RESEARCH	SUPPORT FOR PHD STUDENTS 200 professors and researchers trained as PhD supervisors in the three-year period	Supervisors training programme - Design and delivery of training activities for an improved supervision of PhD students, specifically dedicated to new researchers and usable by all teaching staff	<ul style="list-style-type: none"> Design of a training pathway for supervisors through the identification of the supervisor profile, analysis of training needs, design and revision of the training offer 	<ul style="list-style-type: none"> 31 registered in the first pilot edition, made up of 5 modules
SUSTAINABILITY IN CURRICULAR TEACHING	SUSTAINABLE APPROACH TO TEACHING New model for the governance of educational activities	Identification of interventions - Analysis of the current situation regarding teaching management in the University and identification of areas for improvement	<ul style="list-style-type: none"> Analysis of the current model of teaching management, budget allocation to Schools, criteria for assigning teaching commitments to professors and researchers 	<ul style="list-style-type: none"> Analysis of the existing model
		Innovations in the teaching delivery model - Proposal of innovative models for optimising available resources to increase the quality of teaching and make it more sustainable	<ul style="list-style-type: none"> Proposal of a new educational/teaching model focused on the quality of student learning Adjustment of the regulation on the appointment of teaching assignments to professors, and related assignment plan 	<ul style="list-style-type: none"> Approval of the model within Universities Bodies and detailed presentation to the entire University

SDG5

GENDER EQUALITY



PROJECTS AND INITIATIVES

WOMEN MENTORING PROGRAMME FOR FEMALE PHD CANDIDATES

The first edition of the 'Women Mentoring for PhD Candidates' programme, realised in cooperation with the Career Service, aimed to support female PhD candidates in their career, helping them to develop the awareness and skills necessary to meet the challenges women face in the world of work. The aim is to facilitate their professional and career development in the field of research and innovation.

The 19 participants in the programme, guided by 8 mentors, had the opportunity to explore a wide range of topics, including work-life balance, self-confidence, the transition from the PhD programme to the corporate environment, female leadership as well as effective conflict management.

“INGEGNERA? SÌ, AL FEMMINILE!”

The seminar 'IngegnerA? Sì; al femminile' (Engineer? Yes, feminine!), this year in its fourth edition and held during the Open Day for high school students, aims at presenting potential future female engineers with different study paths, through the testimony of female students, researchers and Alumnae with a new narrative free of the stereotypes that often identify engineering as a purely male field of study. During the event, student associations dealing with the topic of gender equality were also presented to the 80 participating students.



SDG5

GENDER EQUALITY



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
GENDER BALANCE	EDUCATION AND TRAINING ON UNCONSCIOUS BIASES 50% of faculty and staff trained in the three-year period	Courses - Development of training course prototypes on unconscious biases for all teaching staff and technical and administrative staff Extension of offer - Expansion of courses to asynchronous online fruition and extension to the student community	<ul style="list-style-type: none"> Market survey and focus groups Administration of the 'Unconscious Bias' seminar for teaching staff 2 training paths for technical and administrative staff on empowerment, awareness and inclusive languages themes 	<ul style="list-style-type: none"> >300 technical and administrative staff members and >80 teaching staff participating in training paths
	ACADEMIC COUNSELING AND SCHOLARSHIPS FOR FEMALE STUDENTS +20% Girls@Polimi scholarships	Academic guidance - Development of communication tools for research and STEM programmes that highlight their social impacts; strengthening of orientation programmes and scholarships for female students 'Women's engineering' narratives - Strengthening the presence of young female researchers in schools to narrate Politecnico and engineering to women and increase in the exposure of female experts in media relations	<ul style="list-style-type: none"> Administration of courses to students in 3-year L programmes (in Italian) and LM programmes (in Italian and English): EmpoweringWomenXGirls@Polimi and EmpoweringWomen in inglese 	<ul style="list-style-type: none"> 2 seminar paths delivered from March to May for the Girls@Polimi cohort and female students in general
	STRENGTHENING THE GENDER DIMENSION IN TEACHING AND RESEARCH Increase in teaching and research projects on SDG5	Communication - Communication actions to strengthen visibility, including towards partner companies and the non-profit sector	<ul style="list-style-type: none"> 'IngegnerA? Sì, al femminile' (Engineer? Yes, feminine!) seminar realised on the occasion of the Open Day Design of an educational module for high schools (with testimonies from young female researchers) on gender gap in STEM disciplines 	<ul style="list-style-type: none"> 80 participants 2 modules designed to be administered in 2024 for a total of 18 hours of education
		Mapping of delivered communication events with a view to enhancing the gender dimension in teaching and research	<ul style="list-style-type: none"> Enhancement of international days: 11 February, 8 March, 25 November and related initiative programmes 	

SDG6

CLEAN WATER AND SANITATION



PROJECTS AND INITIATIVES

NEW MOOC 'SUSTAINABLE URBAN WATER SYSTEMS'

Among the 13 MOOCs in the 'Sustainability' series available on the Polimi Open Knowledge platform (POK), the 'Sustainable Urban Water Systems' MOOC, published in 2023, aims to provide an overview of modern and sustainable solutions for water management in cities that are most at risk of drought. The focus is on rainwater control and water supply strategies to mitigate the effects of climate change and of urbanisation on water cycles. Particular attention is paid to the integration of nature-based solutions in urban drainage systems, the use of alternative water resources and the reduction of leakage and waste. These implementations not only make cities more resilient to water stress but also benefit both the environment and the community.

WATER DISPENSERS ON CAMPUS

Within the Politecnico di Milano campuses there are over 35 water fountains and dispensers where students can conveniently refill their water bottles, thereby helping to reduce the use of single-use plastic. Of these, 22 are located in the Città Studi Campus and 15 in the Bovisa Campus. This service aims to spark a significant reduction in the consumption of single-use plastic water bottles within university spaces, raising awareness about the importance of using public water, which is subject to frequent testing to ensure its safety and quality.



SDG6

CLEAN WATER AND SANITATION



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
<p>CIRCULAR ECONOMY</p>	<p>MONITORING AND ELIMINATING WATER WASTAGE</p> <p>Water consumption monitored throughout the University</p>	<p>Monitoring - Implementation of a comprehensive water monitoring system and consumption reduction</p>	<ul style="list-style-type: none"> • Checks for drinking water quality through swabs carried out on dispens-ers • Start of the testing process on a new dispenser model that supplies un-treated water without a filter, allowing for a more widespread distribution throughout the University • Installation of the new dispenser in Via Golgi Building 26 	<ul style="list-style-type: none"> • 170 swabs carried out (in addition to legionella checks)

SDG7

AFFORDABLE AND CLEAN ENERGY



PROJECTS AND INITIATIVES

REDUCTION OF ENERGY CONSUMPTION

In 2023, Politecnico recorded a reduction in electricity consumption by 11.5% compared to the previous year (excluding the share for air conditioning), which resulted in a decrease in consumption by 4.4 GWh. This resulted in a reduction of CO₂ emissions by 1,040 tonnes, calculated without taking into account the benefit of reduced emissions from the national electricity grid. This energy saving was possible thanks to the joint efforts of everyone at the University. Efforts include the timely switch-off of utilities not in use, judicious management of energy systems and targeted investments in automation and control for lights and equipment to be switched off automatically, thus helping to optimise energy use.

PHOTOVOLTAIC SYSTEMS

In 2023, Politecnico's photovoltaic park was expanded significantly, in line with the Strategic Sustainability Plan's goal of installing 5 MW of photovoltaic power by 2025. In 2022, the Academic Senate approved the allocation of major funding for speeding up the energy transition and this led to a major project to be launched in 2023 to expand the university's photovoltaic park. As part of this funding, several systems were installed on existing buildings at the Milano Città Studi site, totalling about 1,400 kWp.

In addition, a new system with a capacity of 19 kWp went into operation at Bovisa, installed on the roof of the B30 'Collina degli studenti' building located in the Bovisa La Masa Campus. The work was completed in 2023 and resulted in Politecnico achieving a total photovoltaic capacity that was six times greater than in 2022.



SDG7

AFFORDABLE AND CLEAN ENERGY



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
ENERGY AND DECARBONISATION	ENERGY EFFICIENCY -30% energy consumption	Temperature control - Improved regulation of heating and cooling systems through the installation of temperature controllers/thermostats	<ul style="list-style-type: none"> Renovation of Leonardo Campus Building 4 with realisation of a new air conditioning system equipped with thermostats and room sensors for accurate control of temperature and remote management, and lighting control sensors Renovation of classrooms at Bonardi Campus Building 14 	<ul style="list-style-type: none"> Installation of regulation and control systems in 16 departmental laboratories, 75 departmental offices, 20 classrooms
		Lighting - Replacement of at least 7,000 luminaires per year with LED systems	<ul style="list-style-type: none"> Start of replacement of the first lot of 6,800 luminaires with LED systems Completion of second lot work with replacement of 1,489 apparatuses 	<ul style="list-style-type: none"> Replacement of 2,039 luminaires in total in the two lots
PRODUCTION AND USE OF RENEWABLE ENERGY 15% of purchased electricity from renewable sources +5 MW installed photovoltaic capacity RECs activated in at least 3 neighbourhoods in Milan		Behavioral models - Development of guidelines and awareness-raising initiatives to reduce consumption starting with individual behaviour	<ul style="list-style-type: none"> Establishment of a Sustainability Working Group on Energy Saving, also with a focus on individual behaviours of energy service users Sending of communications from the general Management to raise awareness on energy saving in view of university closing for holidays 	<ul style="list-style-type: none"> 11 project proposals from the Energy Saving Working Group in 2023, including the realisation of a good energy behaviour handbook
		Photovoltaic power generation - Installation of photovoltaic systems averaging 1.7 MW per year	<ul style="list-style-type: none"> Completion of design and start of the installation of systems at Milano Città Studi and Bovisa Campuses Addition of installation not included in the initial plan at certain residence halls and the Lecco Campus 	<ul style="list-style-type: none"> 1,420 kW operating, equal to 97% of the total envisaged within the year
		Renewable Power Purchase Agreement - Signing of Power Purchase Agreements (PPAs) for the procurement of renewable electricity of at least 10 GWh/year	<ul style="list-style-type: none"> Realisation of a preliminary analysis for purchasing renewable energy with Guarantee of Origin PPA stipulation activities scheduled from 2024 	<ul style="list-style-type: none"> Preliminary analysis completed
		Energy Communities - Creation of at least three Renewable Energy Communities (RECs) through the involvement of public and private stakeholders	<ul style="list-style-type: none"> Identification of the proper legal form for in establishment of the RECs Drafting of the association regulation and the scheme of agreements to be concluded with prosumers 	<ul style="list-style-type: none"> Functional activities for starting the projected completed
		Heat pumps - Replacement of gas-fired generation systems with groundwater heat pump system for Campus La Masa/Lambruschini	<ul style="list-style-type: none"> Submission to Metropolitan City and Lombardy Regional Authority of authorisation request for the realisation of geothermal wells 	<ul style="list-style-type: none"> Authorisation process started

SDG8

DECENT WORK AND ECONOMIC GROWTH



PROJECTS AND INITIATIVES

STUDENT MENTORING PROGRAMME WITH COMPANIES FOR INCLUSIVITY

The Career Service with the collaboration of the Equal Opportunities Service launched a mentoring program with companies. The program is aimed at inclusiveness and aimed at students with disabilities at the Politecnico di Milano. Discussions with business mentors aim to increase the awareness of students preparing to enter the world of work. During these meetings, mentors and mentees explore key topics such as integrating oneself into a team, preparing for interviews and joining a company, and developing core competences for professional advancement. The initiative also aims to raise awareness of inclusiveness issues among external stakeholders. Participating companies can benefit from the discussions to improve their inclusion policies towards people with disabilities.

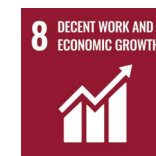
TRAINING COURSES FOR STAFF ON DIVERSITY AND INCLUSION

In 2023, two new training courses on D&I were launched for the Politecnico community. The first course was for female technical and administrative staff with management roles. It focused on the link between leadership and unconscious stereotypes: by examining different aspects of interpersonal communication, the course explored the adoption of a conscious approach to enhancing oneself, one's competences and one's role within the University. The second course was teaching staff. It explored the topic of unconscious bias, investigating its impact on personal and organisational behaviour; special attention was also paid to the analysis of different stereotypes and their connection to everyday actions and language.



SDG8

DECENT WORK AND ECONOMIC GROWTH



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
DIVERSITY AND INCLUSION	<p>TRAINING ON DIVERSITY AND INCLUSION</p> <p>50% of teachers and 100% of technical and administrative managers trained in the three-year period</p>	<p>Inclusive leadership courses - Development of prototype training courses on inclusion issues and in particular inclusive leadership and interpersonal skills for teaching staff and technical and administrative staff</p> <p>Reverse mentoring - Experimentation with innovative teaching experiences on D&I issues involving students also in the role of teachers</p>	<ul style="list-style-type: none"> Development of a training project in inclusive leadership and inclusive language Administration of one seminar to female teaching staff and one to female technical and administrative staff with management roles Start of preliminary discussion with students on the theme 	<ul style="list-style-type: none"> 82 teachers and 26 technical and administrative staff managers participated in seminars
PEOPLE GROWTH AND WELFARE	<p>STAFF TRAINING ON NEW SKILLS</p> <p>75% of staff trained over the three-year period</p>	<p>Training of teaching staff - Formalisation of a training plan in the areas of teaching, research, soft skills, with a focus on sustainability issues</p> <p>Training of technical and administrative staff - Increase in customised training plans for staff key roles and focus on the development of sustainability and inclusion issues</p>	<ul style="list-style-type: none"> Administration of training activities in accordance with the 2023 Training Plan Detection of Training Needs and definition of the related Plan for 2024-25 Administration of training activities in accordance with the 2023 Training Plan Detection of Training Needs and definition of the related Plan for 2024-25 	<ul style="list-style-type: none"> 66 courses for a total of 1,760 participants and a coverage index of 39% (2023) Consolidation of the 2024 Plan with a programme of >60 courses 149 courses for a total of 3,477 participants and a coverage index of 85% (2023) Consolidation of the 2024 Plan with a programme of >60 courses
ACCESSIBILITY OF SPACES AND EDUCATION	<p>POST-GRADUATION SUPPORT SERVICE</p> <p>100% graduates from protected categories found occupation 1 year after graduation</p>	<p>Partner enlargement – Actions aimed to enhance networks to ensure adequate inclusion of graduates from protected categories</p> <p>Support process - Review of support actions and monitoring of activities</p>	<ul style="list-style-type: none"> Collaboration with Afol Citta Metropolitana di Milano and SIR social cooperative consortium for support in job placement Participation in C.A.L.D., the Disability Coordination Body of Lombardy Universities (for placement and coordination of the 'Managing Disability' platform) Participation in events involving sector actors: Diversity Day, Inclusion Job Day Design of the 2nd edition of protected category mentoring 	<ul style="list-style-type: none"> 330 partner companies (+10% compared to the previous year) 113 entities with contacts in place to facilitate the placement process Mentoring realised (12 participants)

SDG8

DECENT WORK AND ECONOMIC GROWTH



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
ETHICAL AND RESPONSIBLE RESEARCH	TRAINING OF RESEARCHERS ON RESEARCH ETHICS AND IMPACT 150 researchers trained over the three-year period	Research impact assessment - Design and delivery of training activities on research impact analysis and self-assessment, with a focus on young researchers Training on dual use - Design and delivery of training activities for all research staff on the topic of dual use of technologies	<ul style="list-style-type: none"> Design of an awareness-raising event for all researchers and more specific training activities within individual Departments Design of a training course on dual use of technologies 	<ul style="list-style-type: none"> Professors identified, event scheduled for 2nd semester 2024 27 participants

SDG9

INDUSTRY, INNOVATION AND INFRASTRUCTURE



PROJECTS AND INITIATIVES

NEW RESEARCH INFRASTRUCTURES AND KNOWLEDGE TRANSFER INITIATIVES

Politecnico di Milano works continuously to enhance its research infrastructures system with the upgrade and addition of laboratories and equipment. Recent examples are the development of “Cryolab” laboratories in Lecco, dedicated to studying anthropogenic effects on climate change, and the “Galvanic Isolation” laboratory in Città Studi, focused on research in microelectronics, as well as EN:lab, the new building of the Department of Energy, designed with advanced technologies for energy efficiency, dedicated to research on energy and innovative technologies.

Other infrastructures include the new “Bassini” Chemistry building in Città Studi and the “Rotor Tower” laboratory for aerospace studies at the La Masa Campus. Significant funding has also been allocated to the “La Goccia” project and the redevelopment of the Gasometers in Bovisa, including the “Innovation Hub” Gasometer, with contributions from the Lombardy Region and the Italian government. In terms of knowledge transfer, activities are being developed in synergy with various partners. In particular, ENCUBATOR, organized by the Chamber of Commerce, PoliHub, and the Politecnico di Milano, accelerates projects in climate tech and sustainability by offering dedicated funding to winning projects, guaranteeing participation in acceleration and incubation programs managed by PoliHub. In September 2023, an agreement was signed between the Lombardy Region and the Politecnico di Milano to support the ESA BIC MILAN program, one of the three new centers in the national network of ESA Business Incubation Centers (ESA BICs). This agreement aims to support start-ups in participating in European Space Agency calls, encouraging the creation of new companies and the development of innovative products and services based on space data and infrastructure.

CITIZEN SCIENCE IN OFF CAMPUS SPACES

In 2023, several initiatives were launched for the development of research activities involving citizens. At the San Siro Off Campus, the ‘Abitare San Siro’ co-research project was launched, providing an up-to-date snapshot of the housing situation in the neighbourhood. The project is in cooperation with the tenants’ union Sicut Milano and other local actors. Two research projects were also initiated at the San Vittore Off Campus, involving more than one hundred people including police officers, operators, educators, volunteers and inmates. The ‘Atlante San Vittore’ initiative aims to explore and reconstruct the geographies of the prison and activate sceneries of future transformations; the ‘Vocabolario San Vittore’ project aims to build a vocabulary of shared meanings between the main actors of the San Vittore microcosm and citizens living outside the prison walls.

SDG9

INDUSTRY, INNOVATION AND INFRASTRUCTURE



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
DIVERSITY AND INCLUSION	RESEARCH ON INCLUSIVE TECHNOLOGIES A 'portfolio' of projects dealing with technologies for inclusion Annual selection and awarding of a flagship project	Technology mapping - Census of existing research activities in the field of inclusion and inclusive technologies	<ul style="list-style-type: none"> • First census to identify case studies of inclusive technologies developed at Politecnico • Presentation of case studies within NRRP orientation courses for high school students 	<ul style="list-style-type: none"> • Case studies presented in 4 schools to 470 participant students in total
		Communication - Communication actions to strengthen visibility, including towards partner companies and the non-profit sector	<ul style="list-style-type: none"> • Mapping of events with a view to enhancing inclusive technology in research • Enhancement of the International Day of Persons with Disabilities through events and mentoring activities for disabled students 	<ul style="list-style-type: none"> • International Day of Persons with Disabilities: 2 events (170 participants) and 1 mentoring pathway (12 participants)
SUSTAINABLE DEVELOPMENT IN RESEARCH TOPICS	LIVING LABS DEVELOPMENT 5 funded projects for the development of living labs in the three-year period	EU Missions - Fostering participation in EU Missions calls (Horizon Europe) for the development of SDG-related living labs and development of internal funding instruments for excellent proposals even if not funded by the EU	<ul style="list-style-type: none"> • Sharing of the EU Missions programme with Departmental Delegates for research • Matchmaking and identification of potentially interesting calls for the different Departments, starting from the analysis of Departmental Scientific Projects 	<ul style="list-style-type: none"> • 1 research project ('iCOSHELLS- Innovative Co-creation Soil Health Living Labs') funded within Horizon Europe – Mission Soil
		Polisocial Award - Orientation of the Polisocial Award (the funding programme for high-social-impact research of Politecnico di Milano) to living lab development projects	<ul style="list-style-type: none"> • Polisocial Award 2023 Call "Activating Communities, Bridging the Gaps", special for Off Campus projects, to support on-field and community research • Selection and funding of 5 projects to be realised within the 4 Off Campus spaces, of which 1 identified as a living lab 	<ul style="list-style-type: none"> • 14 candidate projects at Polisocial Award 2023 • 1 living lab funded within the 'Drops' project (Off Campus Cascina Nosedo), with 10 partners
	CREATION OF NEW 'LARGE INFRASTRUCTURES' 3 new laboratories on sustainability topics	Large laboratories - Funding and setting up of new laboratory facilities to support high-tech research on the fundamental challenges of sustainability	<ul style="list-style-type: none"> • Large infrastructure for life sciences: identification of location and a technical coordinator for the lab • Departmental labs on "Wave power" and "Digital Innovation Hub for Sustainable Building and Healing Environments": identification of locations and drafting of the executive project 	<ul style="list-style-type: none"> • 3 large laboratories under development

SDG9

INDUSTRY, INNOVATION AND INFRASTRUCTURE



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
SUSTAINABLE DEVELOPMENT IN RESEARCH TOPICS	LEADERSHIP IN SCIENTIFIC RESEARCH ON SUSTAINABILITY THEMES Focus on SDGs in 40% of scientific Publications 10 innovative technologies applied on our campuses	Publications - Analysis of sustainability content in publications and training and awareness-raising activities for research staff	<ul style="list-style-type: none"> Analysis of sustainability contents of publications in the Scopus database with the methodology established by Elsevier 	<ul style="list-style-type: none"> >2,000 Politecnico's publications (2023) strongly linked to SDGs in the Scopus database
		Innovative technologies - Identification of technological products and services on sustainability developed by the University's research to apply and showcase on campuses	<ul style="list-style-type: none"> Determination of project guidelines and collection of proposals by Departments and Campuses 	<ul style="list-style-type: none"> Guidelines finalised Collection of proposals activated
		International Networks and leader companies - Systematic dialogue with the main networks of universities and international centres, as well as partner companies, on frontier contents of scientific research on sustainability NEW	<ul style="list-style-type: none"> Launch of dialogue with main networks (Alliance4Tech, Idea League, Enhance) and businesses that are part of Politecnico's Joint Research Platforms 	
ETHICAL AND RESPONSIBLE RESEARCH	OPEN SCIENCE Drafting of University guidelines on open science	Research management Open Science model - Development of University guidelines to support the sharing of data, methods, and outcomes according to the Open Science approach and in line with European networks (EOSC)	<ul style="list-style-type: none"> Drafting of guidelines for Open Science, with reference to open access and open data principles as well as the European Commission's requirements for the Horizon Europe Framework Programme Design of the supporting organisational model 	<ul style="list-style-type: none"> More than 200 PhD students and research fellows trained in Open Science, open data and FAIR data principles
		Citizen science - Development of research activities involving citizens in Off Campus spaces and living labs	<ul style="list-style-type: none"> Launch of research projects and initiatives addressing Off Campus local communities, including Abitare San Siro, Atlante San Vittore, Vocabolario di quartiere (Nolo and San Vittore Off Campuses) 	<ul style="list-style-type: none"> >680 people involved in the projects

SDG10

REDUCED INEQUALITIES



PROJECTS AND INITIATIVES

BLIND FOOTBALL EXPERIENCE

The 20 participants in this event experienced what it means to play football in the dark and understood the importance of listening and communication in this fast-growing Paralympic sport. The experience involved the International Blind Football Foundation, was supported by Federazione Italiana Sport Paralimpici per Ipoovedenti e Ciechi (Italian Federation of Paralympic Sports for the Visually Impaired and the Blind), and was supported by players of the Italian National Blind Football Team. The event included 2 parallel demonstration sessions, coordinated by players and coaches, which took place inside the arena of the Giuriati Sports Centre.

INCLUSION INITIATIVES FOR FOREIGN STUDENTS

Politecnico is committed to fostering the integration of the more than 8,200 international students belonging to its community, with the aim of strengthening relations and cultural exchange. Among the organised initiatives, in 2023 the Buddy programme continued facilitating the integration of foreign students in the period between their enrolment and their first months in Italy; in the academic year 2022-2023, 2,027 international newly enrolled students were matched with student volunteers who provided them with support for their integration into the University and involved them in campus life. Two International Welcome Weeks were held in February and September 2023, which were attended by 4,209 L and LM students. Students were able to take part in thematic meetings on the city of Milan, sports, administrative practices, cultural shock and all campus life activities, such as student associations and competitions, sports, special agreements for purchasing goods and services, libraries, museums, catering services and much more. To promote greater integration, the University also offers Italian language courses free of charge and many other languages at a reduced price.



SDG10

REDUCED INEQUALITIES



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
DIVERSITY AND INCLUSION	LISTENING TO NEEDS WITH CLIMATE SURVEYS Administering climate surveys for different populations and analysis of results	Involvement - Administration of climate surveys to the entire community (Laurea Triennale and Laurea Magistrale students, PhD students, teaching staff, technical and administrative staff) by 2024	<ul style="list-style-type: none"> Administration of climate surveys to all staff (teaching staff and technical and administrative staff) Design of a climate survey for students, to be administered in 2024 	<ul style="list-style-type: none"> Climate survey administered to 1,811 professors and 1,335 technical and administrative staff
	STRENGTHENING INCLUSION Increase in international students from nonprivileged backgrounds Increase in activities in favour of international community NEW	International students support programmes - Development of new tools to support the right to education and inclusion Revision of regulations - Revision of University regulations to ensure greater inclusiveness (e.g. extension of 'alias identities' to faculty and staff)	<ul style="list-style-type: none"> Analysis of the process of establishing scholarships and support instruments Activities in support of inclusion of international students (Including Welcome Week 2023 and Buddy Project) Drafting of the alias procedure for teaching staff and technical and administrative staff 'Alias careers at the University' event, aimed at spreading knowledge of the tool and raising awareness of themes related to inclusion and gender transitioning people Regulatory in depth-study and development of the proposal to change the Rector's titles on degree parchments starting in 2024 	<ul style="list-style-type: none"> Scholarship funding process established 4,209 students participating in Welcome Weeks Protocol drafted, Degree parchment change proposal approved 142 participants in the 'Alias careers at University' event
	Strengthening activities in favour of the LGBTQI+ community NEW			
ACCESSIBILITY OF SPACES AND EDUCATION	FULL ACCESSIBILITY OF SPACES AND TEACHING 100% students with SLDs and disabilities supported with ad-hoc programmes and full access to facilities	PEBA - Finalisation and implementation of the Plan for the Removal of Architectural Barriers (PEBA) Barrier removal at the design stage - Review of regulations for the removal of architectural barriers at the design stage	<ul style="list-style-type: none"> Drafting of Plan for the Removal of Architectural Barriers (PEBA) Intervention prioritisation based on analysis of the Plan Proposal for creating an Accessibility Board to offer expert support to construction projects in the design/realisation phase Monitoring of the advancement of MEP application development Launch of interviews with the Municipality of Milan and the Lombardy Regional Authority 	<ul style="list-style-type: none"> PEBA completed Internal inquiry launched to form the Board MEP app completed, in the release phase
		Interconnection Politecnico-City - Implementation of the MEP (Maps for Easy Paths) app for mapping Campus accessibility from the outside		

SDG10

REDUCED INEQUALITIES



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
FINANCIAL SUPPORT AND STUDENT MENTORING	MENTORING FOR STUDY SUPPORT <10% First-year drop-out rate	Communication and awareness-raising - Implementazione di attività di sensibilizzazione verso gli studenti per aumentare la consapevolezza nei confronti dei servizi di supporto agli studi attivi in Ateneo	<ul style="list-style-type: none"> • Launch of the 'Learning to learn' course for 1st year students, by METID: mixed synchronous-asynchronous initiative with webinars on study methods to prevent early drop-out from University 	<ul style="list-style-type: none"> • 2 editions delivered • 120 participating students
		Learning analytics - Increased use of learning analytics tools to monitor the careers of students who face difficulties and to identify the need for mentoring activities	<ul style="list-style-type: none"> • Realisation of a PowerBI dashboard as a monitoring and decision support tool for Schools: the dashboard allows to identify and monitor students at higher risk of drop-out, in order to identify drop-out prevention actions 	<ul style="list-style-type: none"> • Dashboard implemented and available to all Schools since 2023
		Student involvement - Monitoring of student participation in mentoring activities NEW	<ul style="list-style-type: none"> • Monitoring of student (learner) participation in mentoring activities via TutorApp • Integration of TutorApp in the monitoring dashboard to support analyses and decision-making processes with data on mentoring participation 	<ul style="list-style-type: none"> • 1,191 learning students • 631 mentor students

SDG11

SUSTAINABLE CITIES AND COMMUNITIES



PROJECTS AND INITIATIVES

REVERSELAB. PILOT SPACE FOR CONTEMPORARY ART BETWEEN THE PRISON AND THE CITY

ReverseLab is one of the projects activated at San Vittore Off Campus, which Politecnico di Milano opened in 2022 inside Casa Circondariale Francesco Di Cataldo (San Vittore Prison). ReverseLab proposes the activation of a space for artistic production and enjoyment, between the prison and the city, through the reuse of the basement of the first section of San Vittore prison, which was closed in the second half of the 1980s. The basement, now unfit for use, will host temporary exhibitions and a permanent 'prison memory space' will be created. The project has been developed thanks to the collaboration of different actors: Politecnico di Milano - DASTU and Design, Forme Tentative ETS, Philo and artist Maurice Pefura, with the support of Casa Circondariale di Milano Francesco di Cataldo and PAC - Padiglione d'Arte Contemporanea. The project received funding from Fondazione di Comunità Milano and additional support thanks to citizens' support in the fundraising campaign promoted by the same foundation.

TRAINING ACTIVITIES AND PROJECTS FOR YOUNG PEOPLE IN OFF CAMPUS SPACES

In 2023, several initiatives aimed at young people and promoted in cooperation with local partners were launched at Off Campus spaces. Among the new initiatives activated are: The Coding School, at San Siro Off Campus, in collaboration with the Tech7 Association (40 high school girls and boys); the 'Off Sound San Siro' music laboratory in collaboration with the La Terna Sinistrorsa Association; at Nolo Off Campus, the Coding Bricks activity developed with the Ciresola parents association, involving boys and girls from Giorgi public school each week; and the activities developed with Vespaio ETS on the theme of plastic recycling and reuse. Nolo Off Campus has been expanded in space and received the prestigious Seoul Design Award 2023 for Sustainable Life. In addition, more than 50 cultural events aimed at neighbourhoods and inhabitants were promoted, as part of the Milan Weeks and Politecnico exhibitions; these activities were also developed in cooperation with Politecnico's Student Associations.



SDG11

SUSTAINABLE CITIES AND COMMUNITIES



PROJECTS AND INITIATIVES

GREEN CAMPUS

Politecnico di Milano pursues the improvement of the environmental quality of its rooms starting with the regeneration of open and indoor spaces according to the principles of sustainability. Starting with the Master Plans defined in 2017, several areas of the University have been the subject of interventions aimed at restoring open and green spaces in order to improve their liveability and mitigate the effects of climate change. At Bonardi Campus in Città Studi, 126 trees have been planted as part of the redevelopment action aimed to counteract the effect of heat islands, while at Leonardo Campus a considerable increase in green and filtering area has been realised; further interventions are planned with a view to pedestrianisation, de-impermeabilisation, increase of green areas, reduction of heat islands, planting of trees. In 2023, Politecnico continued to invest considerable resources in the enhancement of its green areas. At the Milan Bovisa site, La Masa Campus, after the opening of the Collina degli Studenti - Students' Hill, which increased the green area by approximately 1,250 m², 59 more trees were planted and 500 m² more of green areas were realised, in addition to 1,200 m² of upgraded green spaces. In the same location, at Durando Campus, de-impermeabilisation and greening of surfaces have been initiated for the mitigation of and adaptation to climate change through sustainable urban drainage systems; the outdoor area in Via Golgi also benefited from redevelopment with the addition of 53 new trees.

PROMOTION OF ELECTRIC AND SUSTAINABLE MOBILITY

The university promotes electric and sustainable mobility by providing infrastructure for parking and charging electric vehicles, such as cars, scooters, and bicycles. During the 2022-23 period, the university's services for sustainable mobility were upgraded and enhanced, with the installation of 38 charging stations for electric cars across the campuses, in addition to the 2 existing stations that were initially installed for research purposes. There are now 40 charging points available at the university campuses, which record an average of 265 charges per month. An additional initiative to promote the culture of sustainable mobility took place during the 2023 European Mobility Week. In collaboration with Ecoverso, an Italian association for sustainable mobility, the Politecnico organized the course "Electric Cars and Batteries: State of the Art," which was open to the public. The course included two sessions: one theoretical on electric cars and their environmental impact, and one practical with charging stations and test drives. A total of 74 people participated, including students, staff, and citizens.



SDG11

SUSTAINABLE CITIES AND COMMUNITIES



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
PROXIMITY INNOVATION	ENHANCING THE OFFCAMPUS SYSTEM 2,500 students involved in Off Campus activities over the three-year period	Educational activities - Organisation of educational activities aimed at involving university and high school students in the Off Campus spaces	<ul style="list-style-type: none"> ● Involvement of students in research and teaching (courses and workshops, traineeships and thesis, paid collaborations) and services to the neighbourhoods ● Involvement of children and young people in projects activated by Off Campuses in collaboration with local entities (Coding School; Female after-school; Coding Bricks; Nolo Ricicla) 	<ul style="list-style-type: none"> ● 700 Polimi students involved in training activities ● 150 children and young people as beneficiaries of activities realised in collaboration with local entities
		Mentoring and volunteering - Involvement of students and student associations through collaborative, cultural and voluntary activities	<ul style="list-style-type: none"> ● Collaborations with student associations in volunteering, cultural and project activities: SIT Polimi - Spesa Sospesa; Resilient GAP – cleaning the neighbourhood; La Terna – guitar course for the youth in San Siro neighbourhood; Muslim Student Association – meeting on Muslim culture 	<ul style="list-style-type: none"> ● 4 associations involved
		Support for research projects - Support for faculty in the development of projects and institutional relations in cross-sectoral partnerships from different Off Campus spaces	<ul style="list-style-type: none"> ● Drafting of the project proposal for the municipal market in Viale Monza (Municipality of Milan) ● Support to the candidacy of the Off Campus initiative for funding and awards 	<ul style="list-style-type: none"> ● 3 proposals presented ● 3 project proposals funded (ReverseLab – San Vittore, iCOSHELL Horizon – Cascina Nosedo, PRIN PNRR – San Siro) ● 1 award (Seoul Design Award)
		Cultural events - Planning of events involving multiple Off Campus spaces that intercept city events and those promoted by Politecnico (ArchWeek, Festival of Sustainable Development...)	<ul style="list-style-type: none"> ● Participation to Milan weeks and Polimi exhibitions with initiatives and events open to the public 	<ul style="list-style-type: none"> ● More than 50 events realised at Off Campuses

SDG11

SUSTAINABLE CITIES AND COMMUNITIES



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
SUSTAINABLE CONSTRUCTION AND GREEN SPACES	REFURBISHMENT OF BUILDINGS Upgrading plan for the entire building Infrastructure 3 renovated buildings Climate Change Adaptation Plan	Upgrading plan - Definition of an energy upgrading plan for all University buildings, with identification of economic benefits and decarbonisation potential	<ul style="list-style-type: none"> Analysis and classification of specific consumption (kWh/m²) of buildings 	<ul style="list-style-type: none"> Completion of analysis and publication of a report
		Building renovation - Identification of priority building interventions and complete renovation of at least 3 of the buildings with the worst energy performance	<ul style="list-style-type: none"> Overall redevelopment of Building 4 of the Campus Leonardo, including energy redevelopment of the envelope and renovation of systems Executive project for the refurbishment of Building 5 and the laboratory tower of Building 6 of the Leonardo Campus 	<ul style="list-style-type: none"> Refurbishment 4,000 m² Completion of executive project at Buildings 5 and 6
		Existing buildings - Replacement of all original windows and doors remaining from the historic building (Campus Leonardo)	<ul style="list-style-type: none"> Replacement of doors and windows of Leonardo Campus Building 4 Executive project for the refurbishment of Campus Leonardo Building 6 and lab tower Replacement of UGLASS at La Masa/Lambruschini Building BL26 	<ul style="list-style-type: none"> Replacement partially completed
		Adaptation Plan - Analysis of the risks and adaptation potential of Politecnico and drafting of a Climate Change Adaptation Plan for the University's Campuses	<ul style="list-style-type: none"> First draft of the climate change adaptation plan 	<ul style="list-style-type: none"> Adaptation plan draft

SDG11

SUSTAINABLE CITIES AND COMMUNITIES



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
SUSTAINABLE MOBILITY	<p>REDUCED USE OF PRIVATE MOTORISED VEHICLES</p> <p>-15% modal share of 'private motorised vehicles' for students</p> <p>-20% modal share of 'private motorised vehicles' for staff</p>	<p>Pedestrianisation - Pedestrianisation of the Leonardo Campus and Via Pascal</p> <p>Subsidised public transport passes - Increased funds allocated for the purchase of public transport passes for the entire population and increase in the number of users benefiting from sustainable mobility agreements</p> <p>Interaction with the territory - Dialogue with the competent bodies to monitor the quality and reliability of public transport and the possibility of extending cycle paths to reach the University Campuses</p> <p>Monitoring and planning – Analysis of transport methods used by the University's population from and to Campuses</p> <p>NEW</p>	<ul style="list-style-type: none"> Start of works to de-pave and pedestrianise Durando Campus with simultaneous removal of parking areas for motorised vehicles Context analysis for identifying possible solutions Setting up of a project for promoting Local Public Transport in the context of the Sustainable Mobility Working Group. First conversation on proposals from the Sustainable Mobility Working Group: bike-friendly and pedestrian routes, awareness raising and promotion campaigns, incentives for Local Public Transport Start of dialogues with AMAT, Municipality of Milan, Metropolitan City, ATM, TRENORD Identification of the 2022 modal share by processing results of the 2023 Mobility Survey (8,000 questionnaires analysed, response rate: approx. 12% students, approx. 30% staff) First draft of the new Home-University Commuting Plan 	<ul style="list-style-type: none"> 18,500 m² made car-free Reduction envisaged by approx. 120 car parking places and increase of bike places by 270 units approx. Proposals in the Home-University Commuting Plan, currently being drafted Start of dialogue with local communities Activation of the 'Bike-friendly paths' project 2022 modal share: car/motorbike: 7% students, 23% staff; private + public transport: 25% students, 13% staff; walking: 11% students, 9% staff; bicycle/scooter: 8% students, 14% staff; public transport: 49% students, 40% staff
	<p>PROMOTING ACTIVE AND SUSTAINABLE MOBILITY</p> <p>+10% of users accessing campuses by bicycle</p>	<p>Infrastructure to support active mobility - Investment in changing rooms with showers on campus, electric bike charging stations, bike and scooter parking</p> <p>Safety - Development of an app indicating access routes to campuses suitable for cycling and their respective safety levels</p> <p>Awareness-raising and engagement - Information campaigns, participation and organization of events to promote active and sustainable mobility</p>	<ul style="list-style-type: none"> Survey of parking areas at the University Campuses in Milan Reconfiguration study for bicycle areas with addition of new slots Realisation of the La Masa bicycle parking station and design of the Bassini bicycle parking station Start of discussion for identifying internal stakeholders to develop the application, including the safest and most pleasant routes Realisation of the educational initiative 'Electrical cars and batterie: the state of the art' during the 2023 European Mobility Week 	<ul style="list-style-type: none"> Approx. 1.300 bicycle places available withing Politecnico Bovisa La Masa bicycle parking station: 88 bicycle places, 8 for scooters with charging point and 1 Bike Repair Station Planning of approx. 800 bicycle places more Start reconnaissance of routes and first prototype of the app 74 participants

SDG12

RESPONSIBLE CONSUMPTION AND PRODUCTION



PROJECTS AND INITIATIVES

START OF COLLECTION OF SMALL WEEE AND BATTERIES ON POLITECNICO'S CAMPUSES

Politecnico di Milano has recently signed an agreement for the collection of Waste Electrical and Electronic Equipment (WEEE) and batteries. This collaboration, involving CDCNPA (the Italian National Coordination Centre for Batteries and Accumulators), aims to promote increasingly integrated and sustainable waste management at the University.

As part of this agreement, 39 containers will be installed in common areas of Politecnico, accessible to all university users and the local community. They will be used for the collection of spent batteries and WEEE belonging to category R4, which includes small household appliances, consumer electronics and lighting equipment. The collected material will be managed according to the principles of the circular economy, with a special focus on the recovery of secondary raw materials, which will be reused and fed back into new production processes, thus helping to promote a virtuous cycle of resource reuse.

INNOVATIVE MONITORING OF SEPARATE COLLECTION

The University has launched a pilot project for innovative monitoring of waste sorting within some facilities. The project included the installation of a sensor system on the recycling bins, which allows for the qualitative and quantitative assessment of the waste delivered into the bins. The system is able to process data on the waste produced and provide a report on the daily delivery. The sensors are complemented by a tablet that is intended to provide information to users for more correct waste separation and to educate and raise awareness among the population on the subject.



SDG12

RESPONSIBLE CONSUMPTION AND PRODUCTION



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
CIRCULAR ECONOMY	WASTE MONITORING AND REDUCTION Re-use of 60% assets that are no longer usable Monitoring of 100% University-wide produced waste	Reduction of disposable products - Implementation of actions such as use of 'washable' products in catering and canteens, replacement of paper towels by electric hand dryers, further dematerialisation of documentation	<ul style="list-style-type: none"> Feasibility study to add a washing area (where absent) in dining points Start of experimentation for the removal of disposable products (reusable tableware for on site consumption and user's containers for take away) at the Lecco Campus dining point 	<ul style="list-style-type: none"> Started 1 pilot program at the campus Lecco where 250 meals are served daily
		Waste prevention and waste sorting - Implementation of initiatives to raise awareness on waste reduction, to support the reuse of goods and to enhance the waste sorting system	<ul style="list-style-type: none"> Drafting of a regulation to facilitate the reuse of assets inside and outside the University Preparation of a call for purchasing 1,000 urban waste sorting points Activation of an agreement for the collection of small WEEE (Waste Electrical and Electronic Equipment), spent batteries and cigarette butts 	<ul style="list-style-type: none"> Call prepared for 1,000 recycling and sorting points Agreements for collection of WEEE and cigarette butts
		Recycling points and waste monitoring - Upgrading of recycling points to improve management and to enable more effective monitoring of waste production and waste sorting quality	<ul style="list-style-type: none"> Testing of the monitoring system at 4 facilities (qualitative and quantitative analysis of waste produced, training/information and awareness-raising application tool) Structured communication to AMSA of data on urban waste produced in the University 	<ul style="list-style-type: none"> 2 merceological analysis of 3 collected waste fractions (paper, plastic and unsorted) Start of a monitoring and information system for 12 waste sorting points
		Innovation initiatives - Local organic waste management with compost and biogas/biomethane production	<ul style="list-style-type: none"> Analysis of the composition and quality of organic fraction collection at experimental points Project proposal for the extension of organic fraction collection to the entire University Feasibility analysis of alternative solutions (e.g., compost) to biogas/biomethane production 	<ul style="list-style-type: none"> Merceological analysis carried out of 8 waste bins
		Collaborations with local communities - Participation in projects started by the City of Milan and the Lombardy Regional Authority NOVITÀ	<ul style="list-style-type: none"> Participation in the Climate, Circular Economy and Ecological Transition Observatory and signing of the Protocol for Sustainable Development of the Lombardy Regional Authority Participation in numerous circular economy projects activated by the Municipality of Milan 	<ul style="list-style-type: none"> Active participation in municipal and regional working tables

→ SDG13

CLIMATE ACTION



PROJECTS AND INITIATIVES

BOVISA NORD PROJECT

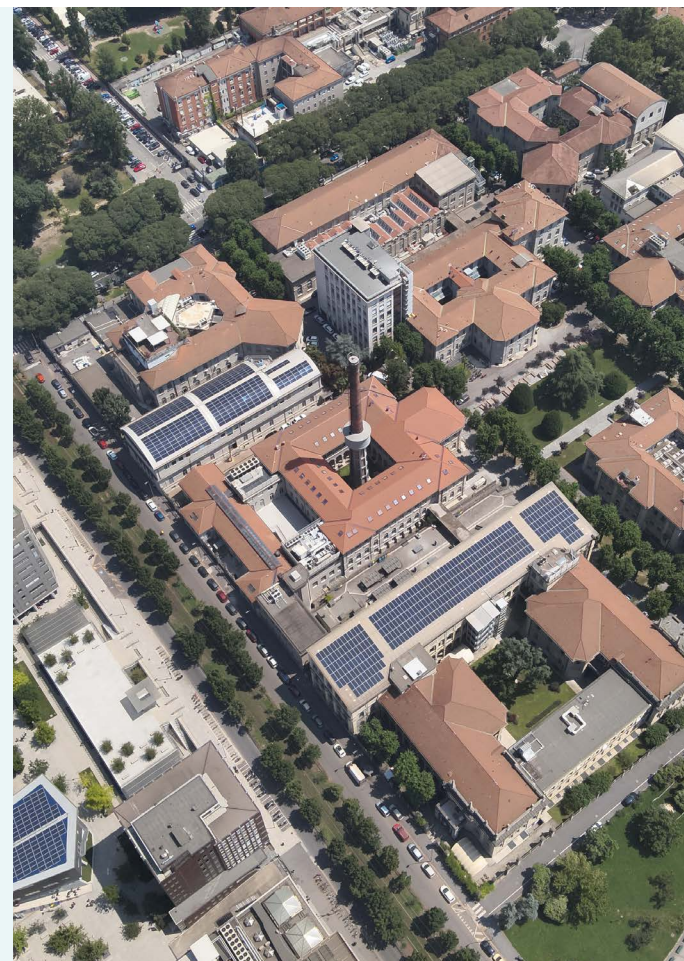
In September 2023, the foundation stone-laying ceremony marked the start of work for the Bovisa-Goccia Masterplan urban redevelopment project, with a symbolic tree planted in the center of one of the gasometers. Renzo Piano's project stands out as an example of urban regeneration that integrates public transport, opens up to neighborhoods and preserves the existing historical heritage. Enriching this vision is the connection with the surrounding woodland, which will fit harmoniously between the new buildings, helping to weave the connection fabric of the area. The intervention, which aims at energy independence and zero CO₂ emissions, involves the construction of twenty new buildings with a total surface area of approximately 105,000 m², to which the municipal school buildings will also be added.

MOBILITY SURVEY 2022

In 2023, the University launched a new survey to assess mobility habits and the willingness to change within the Polytechnic community, with a particular focus on commuting between home and university. The survey has three main objectives:

- It serves as the basis for drafting the "Home-to-Work/Home-to-University Travel Plan," a document aimed at defining necessary actions to promote more sustainable mobility;
- It is an essential tool for collecting data to support the University's carbon management policies, as it enables the quantification of CO₂ emissions related to transportation;
- It is relevant for guiding sustainable mobility projects for the University, the City, and the Region.

After two years of significant challenges and radical changes in daily habits, understanding the mobility demand and the needs of the university community, including future perspectives, is even more crucial to allow the University to invest resources in the most effective way.



SDG13

CLIMATE ACTION



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
ENERGY AND DECARBONISATION	REDUCTION OF CO₂ EMISSIONS -25% by 2025 vs 2015 -50% by 2030 vs 2015 Net zero by 2040	All the actions on energy issues (consumption reduction and energy transition), mobility and sustainable building gathered within the Strategy contribute to this objective Research on climate change - Recognition of research activities in the University on the topic NEW	<ul style="list-style-type: none"> Completion of CO₂ emissions inventory for 2022 Completion of CO₂ emissions inventory for 2023 – share of electrical energy and gas consumption Start of CO₂ emissions inventory for 2023 – mobility share Joining in the 'Climate City Contract' programme of the Municipality of Milan <ul style="list-style-type: none"> Start of reconnaissance of research projects and deliverables on climate change 	<ul style="list-style-type: none"> 16,190 tonCO₂ from electrical energy and gas consumption in 2023 -24% per capita in 2023 vs 2015 -20% per capita in 2023 vs 2022
SUSTAINABLE CONSTRUCTION AND GREEN SPACES	NEW CONSTRUCTION PROJECTS New Bovisa Nord Campus 'Net Zero Carbon' (NZC) 100% of new projects realised with NZC standards	Net Zero Carbon (NZC) standard for Politecnico - Definition and application of a NetZero Carbon (NZC) standard in the design of new buildings and spaces Collaboration with communities – Dialogues with the city of Milan for impact assessments and connection with the new Territory Governance Plan NEW	<ul style="list-style-type: none"> Executive design of the new Bovisa Nord Campus according to the Zero Energy goal (Net Zero Operational Carbon) and related call for tender <ul style="list-style-type: none"> Start of impact assessment of the new Bovisa Nord Campus Start of reconnaissance of low-cost building construction research activities 	<ul style="list-style-type: none"> New Bovisa Nord Campus executive project
SUSTAINABLE MOBILITY	CO₂ EMISSIONS FROM MOBILITY -15% emissions related to commuting	Remote working - Interventions aimed at coordinating remote working as a means to reducing emissions Charging points - 100% increase in the number of charging points for electric cars Mobility emissions – Checking the inventory and estimates to be reported in the CO ₂ Emissions Mitigation Plan NEW	<ul style="list-style-type: none"> Analysis of current remote working agreements and their impact on facility occupancy rate <ul style="list-style-type: none"> Installation and commissioning of electric vehicle charging stations identified in 2022 <ul style="list-style-type: none"> Revision of the inventory and first draft of the CO₂ Emissions Mitigation Plan – Mobility Section 	<ul style="list-style-type: none"> Analysis carried out <ul style="list-style-type: none"> Installation of 40 charging points <ul style="list-style-type: none"> Definition of the methodology for calculating emissions related to mobility

SDG14

LIFE BELOW WATER



PROJECTS AND INITIATIVES

SEAWISE

SEAWise is an international project paving the way for the implementation of Ecosystem Based Fisheries Management (EBFM) in Europe. Through a targeted programme of interdisciplinary research led by a collaborative network of partners, together with the input of key fisheries stakeholders, SEAWise will deliver a fully operational tool that will allow fishers, managers, and policy makers to easily apply EBFM structures in their own fisheries. The programme will combine existing research with fresh approaches, and identify widely-accepted key EBFM priorities to assemble a new knowledge base and produce relevant, informed, and ready-for uptake advice. With the aim of enhancing the value of fisheries for the benefit of all stakeholders, the tools that SEAWise creates will facilitate collaborative management aimed at achieving long-term goals under environmental change and increasing competition for marine space.

DESARC-MARESANUS

The research project DESARC-MARESANUS addresses two environmental problems of great importance: the increase in atmospheric concentration of carbon dioxide (CO₂) and the consequent acidification of the oceans. It has become clear and recognized by the scientific community that the use of fossil fuels and deforestation have led to an unprecedented increase in atmospheric CO₂ levels in terms of scale and speed; in parallel to the impacts caused directly and indirectly by the global warming, the diffusion in the oceans of the CO₂ accumulated in the atmosphere is increasing seawater acidity, already posing high risks to marine ecosystems, in particular coral reefs. The DEcreasing Seawater Acidification Removing Carbon (DESARC-MARESANUS) project aims at studying and assessing a process for removing CO₂ from the atmosphere and simultaneously counteract ocean acidification. This process is based on biomass gasification to produce lime which is spread in the oceans to decrease their acidity, also generating decarbonized energy by-products such as hydrogen. The research activity of the project aims to study more in detail the technical and economic feasibility of the process, and the benefits for the marine sector, with a focus on the Mediterranean.



→ SDG15

LIFE ON LAND



PROJECTS AND INITIATIVES

COLTIVANDO PROJECT

The Coltivando project is an urban agriculture laboratory initiated by the Polimi DESIS Lab within the Department of Design. It operates as a shared urban garden, managed by residents of the Bovisa neighborhood and people from the Politecnico community. In this space, approximately 50 varieties of fruits, vegetables, and aromatic plants are cultivated, promoting local biodiversity, community collaboration, and a sense of social responsibility toward food sustainability. Initially funded by the Human Cities and Nutrire Milano research projects, along with support from the Politecnico di Milano, Coltivando distributes its harvest regularly and equitably among the members who help care for the garden, designating part of the yield to food assistance for vulnerable groups in the neighborhood.

Furthermore, the project actively contributes to reducing food waste by producing compost from organic waste and coffee grounds collected from the campus café. In this way, Coltivando supports soil regeneration and the promotion of sustainable agricultural practices within an urban context, contributing to the preservation and appreciation of local ecosystems and fostering a culture of respect for nature.

NATIONAL BIODIVERSITY FUTURE CENTER

Politecnico di Milano, together with Milano Bicocca University, is a spoke leader in the NRRP National Center on Biodiversity. The university coordinates Spoke 5 - Biodiversity of urban and peri-urban environments, that aims to map urban biodiversity, develop urban greening plans, and compile a catalog of urban Nature Based Solutions for the Mediterranean. In addition, the activities of this spoke are focusing on the development of plant nursery supply chains from an urban Restoration Ecology perspective by integrating a blockchain to track materials for forestation and on the development of phytotechnologies for urban soil remediation.



SDG15

LIFE ON LAND



PROJECTS AND INITIATIVES

ICOSHELLS - INNOVATIVE CO-CREATION SOIL HEALTH LIVING LABS

The research and innovation project iCOSHELLS, funded by Horizon Europe – Mission Soil, aims to improve soil health across the European Union. Through Living Labs located in the Basque Country, Bulgaria, Greece, Italy, Spain, and Sweden, the project engages various local stakeholders in co-designing and testing effective strategies for soil health. The geographical and climatic diversity of the six Living Labs facilitates the replicability of innovative solutions, addressing specific challenges such as agricultural soil health in Sweden and the restoration of contaminated land in Western Macedonia.

Soil health is essential for life on Earth, yet 60%-70% of soils in the EU are considered unhealthy due to pollution, urbanization, and intensive agriculture, issues exacerbated by climate change. This degradation poses significant economic, social, and environmental challenges, impacting agricultural productivity and biodiversity. iCOSHELLS aims to ensure healthy soils by 2030. The project will contribute to reducing soil pollution, enhancing its resilience, optimizing soil structure to promote biodiversity, and raising awareness of soil health within society.

THE NEW LERICI BUILDING

The new Leric building, covering an area of 1,278 m² in Città Studi Campus, replaces the former buildings dating back to the 1940s-50s. Designed to support urban biodiversity and environmental quality, the structure incorporates three levels of green roofs, where nine forest trees have been planted, contributing to the ecological regeneration of the area. The façade facing via Celeria is a vibrant green, extending the vertical continuity with the garden terraces and promoting sustainable terrestrial ecosystems. The building features curtain walls with glass and opaque panels, exposed concrete masonry blocks, and colored plaster finishes, creating a harmonious aesthetic within its surroundings.



SDG15

LIFE ON LAND



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
<p>SUSTAINABLE CONSTRUCTION AND GREEN SPACES</p>	<p>LAND RECOVERY AND NATURE-BASED SOLUTIONS</p> <p>15.000 25.000 m² of land restored with green areas and/or de-impermeabilisation</p> <p>UPDATE</p>	<p>Restoration of land consumption - Soil de-impermeabilisation of the Durando Campus</p> <p>Green areas - Revision/renewal of existing green areas in order to maximise the number of trees, increase biodiversity, increase drainage capacity</p>	<ul style="list-style-type: none"> • De-impermeabilisation of the new green area at Durando Campus • Redevelopment of Leonardo Campus Building 26 external park, including redevelopment of the walkway, creation of safety conditions, replacement of removed trees and planting of new trees • Redevelopment and enlargement of Durando Campus green areas • Redevelopment of the Sport Park at Bovisa Nord Campus 	<ul style="list-style-type: none"> • Work started on 10,500 m² • Redevelopment of 3,835 m² green area • Work started on 6,300 m² • Work started on 12,000 m² of existing greenery

SDG16

PEACE, JUSTICE AND STRONG INSTITUTIONS



PROJECTS AND INITIATIVES

A NEW COURSE ON SCIENCE DIPLOMACY FOR THE PHD SCHOOL

In 2023, the course “Science Diplomacy for researchers. Filling the gap between science and policy within the global challenges” was designed. This is the first educational offer in the field of Science Diplomacy at Politecnico di Milano, which will be followed by three more. The university is able to generate innovation and high-level knowledge that can provide important input to policymakers for addressing global challenges and responding to shared needs for sustainable and equitable development. The course is part of the PhD School’s permanent offer and will be provided annually from 2024.

UN-HABITAT AND DASTU TOWARDS A HUB ON METROPOLITAN VULNERABILITY

In 2023, a Memorandum of Understanding was signed for an important new collaboration between the Department of Architecture and Urban Studies (DAStU) and UN-HABITAT, with the common goal of tackling major global challenges by joining forces in science and policymaking. DAStU - which has been appointed Department of Excellence for Local Fragilities for the 2023-2027 five-year period - is committed to the construction of a Me-troHUB for the creation of a collaborative research and training space that aims to contribute to the growing demand for experimental and innovative solutions for complex territorial contexts.



SDG16

PEACE, JUSTICE AND STRONG INSTITUTIONS



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
GENDER BALANCE	<p>GENDER BALANCE IN OUR COMMUNITY</p> <p>40% women representation</p> <ul style="list-style-type: none"> • in new entries of researchers • in University governance bodies <p>30% gender-balanced courses</p>	<p>Gender Equality Plan - Drafting of the new Gender Equality Plan for the 2024-2026 period so that it is organic and structural to the gender dimension presented in the D&I area in the Sustainability Plan</p> <p>Mentorship programmes - Launch of female mentorship programmes for female PhD students and researchers, with mentors chosen from within the University and from the alumni community</p>	<ul style="list-style-type: none"> • Verification of regulatory guidance for the new edition of the GEP • GEP 2021-23 specific reporting • Design and implementation of the first mentorship programme for female PhD students 	<ul style="list-style-type: none"> • Working group identified and activities launched (within the related Sustainability Working Group) • 19 female PhD students participating and 8 mentors involved
PROXIMITY INNOVATION	<p>A 'SUSTAINABLE MODEL' OF PROXIMITY SOCIAL INNOVATION</p> <p>Strategic plan for 'sustainable' development</p>	<p>Organisational model - Strengthening coordination of initiatives and activity planning actions</p> <p>Economic model - Identification of funding sources and design of Polisocial Award competitions with focus on proximity social innovation</p> <p>Evaluation and recognition of impact - Consolidation of an impact evaluation model and identification of forms of recognition and incentives for faculty and students engaged in the activities</p>	<ul style="list-style-type: none"> • Meetings for advancement and strengthening of the Off Campus Coordination Group • Working Group established and project launched for determining the Off Campus initiative sustainability model • Realisation of Polisocial Award 2023 at Off Campuses • Launch of identification of impact assessment competences at Politecnico and application in Off Campus activities and new Bovisa Nord Campus 	<ul style="list-style-type: none"> • Organisational alignment of the 4 Off Campuses • 5 funded research projects for Polisocial Award 2023 at Off Campuses (€ 500,000 funding)
ETHICAL AND RESPONSIBLE RESEARCH	<p>COMPETENCES ON ETHICS AND PHILOSOPHY OF SCIENCE</p> <p>A researcher on ethical and social themes in each Department</p>	<p>Strengthening of resources – Inclusion of a resource in each department of the University to develop interdisciplinary research on scientific and technological innovation with respect to humanities and social sciences</p>	<ul style="list-style-type: none"> • Allocation by the Academic Senate of resources for adding professors and researchers with the required profiles 	<ul style="list-style-type: none"> • Approval from the Academic Senate

SDG16

PEACE, JUSTICE AND STRONG INSTITUTIONS



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
SCIENCE DIPLOMACY	<p>COOPERATION AND DEVELOPMENT (RESPONSIBLE RESEARCH AND INSTITUTIONAL CAPACITY BUILDING)</p> <p>6 12 international initiatives in cooperation with other Universities and/or local actors in critical areas in the three-year period</p> <p>UPDATE</p>	<p>Funding - Enhancing the attractiveness of funding for research projects from cooperation agencies, development banks and international organisations</p> <p>Allocation of funds - Allocation of funds to foster the collaboration of Politecnico researchers in developing areas (focus on Africa)</p> <p>Management of previous initiatives – Continuation of initiatives already in place in the Cooperation area</p> <p>NEW</p>	<ul style="list-style-type: none"> Continuation of Polisocial Award project planning activities in the field of cooperation, with reconnaissance of the main funding channels to allow for follow-up Maintenance of the OECD-DAC/ Cooperation on Departments mapping to support evidence of Polimi's expertise on the theme Participation in two MUR 'Transnational Education' NRRP calls with focus Africa Implementation of the action lines and projects of 2020-23 initiatives and monitoring of new initiatives: 3 institutional training projects (MUR funding to FONDAZIONE IHEA-Italian Higher Education with Africa for projects in Ethiopia and Tunisia, 2 Erasmus+ projects in Kenya and Ghana); 4 Polisocial Award 2022 research projects for local development 	<ul style="list-style-type: none"> Support to a 4 Polisocial Award 2022 projects and 2 Departments 2023 mapping 2023 closed and 2024 mapping started 2 NRRP projects presented 9 cooperation activities active in 2023
	<p>COLLABORATION WITH INTERNATIONAL ORGANISATIONS</p> <p>6 structured and continuous relations in the three-year period</p>	<p>Relations with the diplomatic front - Consolidation of relations with the Italian and international diplomatic front</p> <p>International organisations - Collaboration with international entities in a multi-stakeholder perspective including institutional stakeholders to address major global challenges</p>	<ul style="list-style-type: none"> Participation in the preparation day for the 2023 meeting of Italian scientific attachés at VIU-Venice International University (scientific and diplomatic attachés, Italian Universities, companies, research centres) Support to open relations: 2 UNESCO Chairs renewals (Mantova Campus and Department of Energy), UNHABITAT - DASTU Metropolitan Vulnerability, IAEA - DENG Nuclear energy education, UNIDO - DIG sustainable finance Conceptualisation of a structured collaboration model with international bodies 	<ul style="list-style-type: none"> 2 strategic meetings with the diplomacy system 1 Memorandum of Understanding to be signed soon 2 relationships in an advanced development status 2 relationships under renewal

SDG16

PEACE, JUSTICE AND STRONG INSTITUTIONS



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
SCIENCE DIPLOMACY	TRAINING IN SCIENCE DIPLOMACY 60% of young researchers and PhD students trained in science diplomacy over the three-year Period	Training of young researchers - Implementation of at least one training activity per year on science diplomacy with internal and external, national and international lecturers	<ul style="list-style-type: none"> • Identification of possible educational and training strategies: launch of the design of a MOOC module 	<ul style="list-style-type: none"> • 20 lecture hours prepared for a 'zero' module, with >10 possible lecturers
	ADVOCACY NETWORKS FOR SCIENTIFIC DIPLOMACY Active participation in 3 6 networks or advocacy actions to inform international policies	PhD students - Activation of a permanent (annual) course in Science Diplomacy in the PhD School	<ul style="list-style-type: none"> • Activation of the course and its addition to the educational offer of the PhD School (1st edition in January 2024) 	<ul style="list-style-type: none"> • Projected course: 11 lecturers involved (4 Italian, 3 EU, 2 external experts, 2 diplomats)
		Participation in networks/think tanks - Consolidation of the University's participation in international networks and projects linking research, education and policymaking	<ul style="list-style-type: none"> • Participations in EU Science Diplomacy Alliance activities • Participations in initiatives in support of MUR, MAECI, CRUI on science diplomacy themes for the internationalisation of research and local development 	<ul style="list-style-type: none"> • 2 formal relationships • 4 advocacy activities

SDG17

PARTNERSHIPS FOR THE GOALS



PROJECTS AND INITIATIVES

COLLABORATION AGREEMENT BETWEEN POLIMI AND LINK2007

Politecnico di Milano and the LINK2007 - Cooperazione in rete have started the process for concluding a framework agreement by which they undertake to promote activities and projects of mutual interest. LINK2007 is an aggregator of the non-profit sector. The agreement focuses on the themes of awareness and education, through the organisation of meetings and conferences to improve the exchange of knowledge and experience, on research for sustainable development cooperation, policy advice and the design and operation of a platform to identify the results and impacts of cooperation projects and programmes.

MAPPING SOCIAL INNOVATION AND ACTIVITIES IN COLLABORATION WITH THE NON-PROFIT SECTOR AT POLIMI

As a preparatory activity to the Polimi4nonProfit project, a survey was conducted on the University's positioning with respect to the theme of social innovation and current relations with the non-profit Sector. This experimental mapping focused on the three Departments where competences related to social innovation are most present (Department of Architecture and Urban Studies, Department of Design and Department of Management, Economics and Industrial Engineering). The mapping covered the themes of curricular education, funded research projects and scientific publications: starting with the University databases, the correlation between these activities and social innovation was investigated with reference to the SDGs most closely related to the theme (SDG1, SDG8, SDG10, SDG11 and SDG16). The map identified 281 courses (A.Y. 2022-23), 83 research projects (A.Y. 2022-23) and more than 500 publications (2022) related to the social innovation in the three Departments. At the same time, an in-depth study was carried out on existing activities in collaboration with non-profit sector organisations: 57 projects were identified as involving more than 150 nonprofit organisations, which means that Politecnico is already in a strong position to formulate a structured offer for the non-profit Sector within the Polimi4nonProfit project.

NEW SPECIALISING MASTERS WITH A FOCUS ON SUSTAINABILITY

In 2023, postgraduate education providers at Politecnico di Milano developed a number of new Specialising Masters courses on sustainability themes. Among them, 'Design and Art for Responsible Social Transformation', proposed by the POLI.design consortium, offers an innovative approach that integrates the techniques and methods of design with the sensitivities of art in order to disseminate social and environmental commitment in every profession. The Department of Architecture, Built Environment and Construction Engineering (DABC), in collaboration with the University of Parma, presented the Specialising Master 'Landscape Architecture and Water: Crisis from Droughts to Floods', which deals with project management in open spaces, considering landscape resources as exhaustible. The new Specialising Master 'MOUNTAIN-ABLE Master: Planning and Design for Sustainable Mountain Development' by the Poliedra consortium focuses on the need to pursue the values of beauty, sustainability and inclusiveness in mountain areas. The Certification Programme 'Impact and Sustainability Strategist', designed by POLIMI Graduate School of Management (GSoM), offers skills and tools to measure social and environmental impact and to improve the strategic vision in order to generate value for the society and stakeholders.

SDG17

PARTNERSHIPS FOR THE GOALS



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
PEOPLE GROWTH AND WELFARE	CONTRIBUTION TO THE NON-PROFIT SECTOR 10% of staff involved	Participation guidelines - Definition of opportunities for teaching and technical and administrative staff to contribute to the non-profit sector activities with their time and skills according to their preferences	<ul style="list-style-type: none"> Review of rules and regulations in place Recognition of the involvement of Politecnico's staff in activities with the non-profit sector 	<ul style="list-style-type: none"> >100 teaching staff involved in projects with the non-profit sector
SUSTAINABLE DEVELOPMENT IN RESEARCH TOPICS	INTERDISCIPLINARY RESEARCH 60 funded PhD scholarships on SDG topics over the three-year period	SDG Scholarships - Funding of interdisciplinary PhD scholarships for fundamental research with SDG focus	<ul style="list-style-type: none"> Publication of 7 calls for a total of 26 PhD interdisciplinary scholarships on SDGs 	<ul style="list-style-type: none"> Granting of 26 PhD scholarships with an investment of approx. € 2 mln 10 SDGs covered
SUSTAINABILITY IN CURRICULAR TEACHING	'ZERO LIBRARY' OF COURSES ON SUSTAINABILITY TOPICS FOR STUDENTS Implementation of the library of courses Adoption of the library in 100% of study programmes	Design of the library architecture - Design of the overall offer of contents from the needs arising from the Schools	<ul style="list-style-type: none"> Establishment of a working group on the theme Design of a proposed architecture for the Library: type of contents, intended users, methods for integration with curricular teaching through innovative technologies (MOOCs -Massive Open Online Courses and/or podcasts) 	<ul style="list-style-type: none"> Determination of contents and launch of the working group
		Development of MOOC modules - Identification of faculty to be involved and implementation of teaching modules in MOOC format (open courses, online fruition)	<ul style="list-style-type: none"> Analysis of current offer of sustainability-related MOOCs Planning the realisation of a minimum of 6 MOOCs for the Academic Year 2024-2025 	<ul style="list-style-type: none"> 32 pre-existing MOOCs identified on sustainable development-related themes
		Involvement of Schools and Study Programmes - Involvement of Politecnico's Schools in the adoption of the library within study programmes, so that each programme has at least one course adopting the library	<ul style="list-style-type: none"> Dialogue in progress with the Deans of the Schools: feedback and suggestions collected 	<ul style="list-style-type: none"> Dialogue with Schools launched
	CROSS-DISCIPLINARY PROGRAMMES RELATED TO SUSTAINABLE DEVELOPMENT Development of 2 cross-disciplinary Programmes	Design of the educational offer - Design and implementation of cross-curricular programmes with a focus on sustainability	<ul style="list-style-type: none"> Mapping of curricula teaching sustainability contents through self-declarations from professors and use of textual analysis tools 	<ul style="list-style-type: none"> >4,000 courses analysed Approx. 50% with at least one reference to SDGs

SDG17

PARTNERSHIPS FOR THE GOALS



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
LIFELONG LEARNING	MASTERS ON SUSTAINABILITY 2,500 hours dedicated to sustainability in postgraduate Masters 1,000 participants in Masters and courses with a focus on sustainability	Enhancement and consolidation of the existing offer - Redesigning of the educational offer in all Politecnico-credited postgraduate programmes to train responsible sustainability professionals	<ul style="list-style-type: none"> • Analysis of sustainability contents in the current postgraduate sustainability training offer • Mapping of current postgraduate programmes focused on sustainability, starting from Masters 	<ul style="list-style-type: none"> • 2,377 hours devoted to sustainability in Masters and postgraduate courses with ECTS • >30 Masters on sustainability mapped
		Design of new masters - Further development of postgraduate courses (Masters and courses) with a prevailing focus on sustainability issues	<ul style="list-style-type: none"> • Approval of new Masters and lifelong learning focused on sustainability themes from the Academic Senate 	<ul style="list-style-type: none"> • 6 new Masters focused on sustainability themes
PROXIMITY INNOVATION	PLATFORM FOR COLLABORATION WITH LOCAL COMMUNITIES 200 organisations engaged in Off Campus over the three-year period	Milan University Network and Higher Education - Consolidation of collaborations with universities involved in Off Campus activities or working contexts	<ul style="list-style-type: none"> • Establishment of a collaboration with Università Statale di Milano 	<ul style="list-style-type: none"> • Drafting of framework agreements
		Strengthening of relations and agreements - Dialoguing with institutions with which collaboration agreements on the project can be activated	<ul style="list-style-type: none"> • Activation of partnerships in funded research projects: FAMI (Migration asylum and integration fund), PRIN (research projects of relevant national interest), NRRP, Polisocial Award • Activation of partnerships in projects (OUT II cortile sociale; ReverseLab; Collaboratioin agreements with the Municipality of Milan) • Establishment and activation of collaboration agreements 	<ul style="list-style-type: none"> • More than 70 organisations Engaged in Off Campus

SDG17

PARTNERSHIPS FOR THE GOALS



THEME	GOALS AND 2025 TARGET	2023-2025 ACTIONS	2023 ACTIVITIES	2023 ACTIVITIES RESULTS
COLLABORATION WITH THE NON-PROFIT SECTOR	MAPPING THE EXPERTISE SYSTEM ON SOCIAL INNOVATION Complete mapping (100%) of activities across the University	Definition of mapping - Definition and testing of mapping methodology of social innovation expertise by SDGs (teaching, competitive research and consultancy) Relations Polimi-non-profit Sector – Mapping of Polimi-non-profit Sector projects NEW	<ul style="list-style-type: none"> Proposal for an operational definition of 'social innovation' Mapping of social innovation expertise at Politecnico with reference to SDGs Mapping of relations and services in place with the non-profit sector 	<ul style="list-style-type: none"> PEBA completed >50 projects mapped >150 nonprofit sector entities mapped
	BUILDING THE NETWORK OF PARTNERS AND PARTICIPANTS 50 stakeholders involved in the process of defining challenges	Promotion and development of collaborations – Network construction activities by co-designing the action plan Launch of initiatives and public engagement plan – Launch of initiatives to promote P4NP and create connections between non-profit sector organisations and the Politecnico community	<ul style="list-style-type: none"> Identification of target entities of Polimi4nonProfit Identification of needs and potential demand of the non-profit sector Involvement of internal actors and alignment with rector's Delegations 	<ul style="list-style-type: none"> Reference framework established 3 Departments, 2 Central Administration units, 7 Rector's Delegations and 11 professors/researchers involved
	DEFINITION AND CO-DESIGN OF THE ACTION PLATFORM POLIMI4NONPROFIT 50 stakeholders involved in the development process	Definition of the Action Platform - Co-design of mission, management structure, activities, service offer, partnership building criteria and access to service offer	<ul style="list-style-type: none"> Development of a first proposal of activities and services offered by the Platform 	<ul style="list-style-type: none"> 6 types of services identified as actionable

