



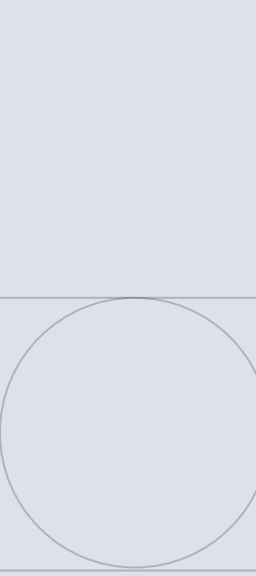
POLITECNICO
MILANO 1863

Universities in transition:

Inspiring Strategies for Sustainable Campuses

6th – 10th October 2025

International Staff Training Week



Plans for Environmental Sustainability: the role of the Environmental Sustainability Unit

7.10.2025 | Eleonora Perotto

PoliMI in figures (1)

Community (December 2024)

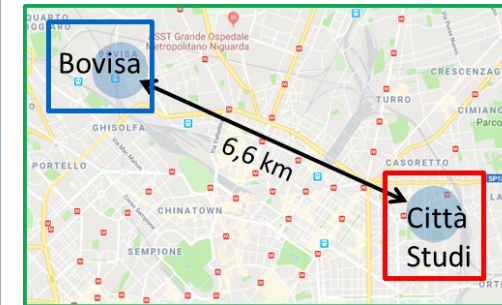
- **51.583 Students**
- **8.243** academic and administrative staff

Total: 59.826



6 campuses in Italy

- **Milano Città Studi**
- Milano Bovisa
- Cremona
- Lecco
- Mantova
- Piacenza



1 campus in China

- Xi'an (since 2019)

PoliMI in figures (2)

4 Schools

School of Architecture Urban Planning Construction Engineering

School of Design

School of Civil, Environmental and Land Management Engineering

School of Industrial and Information Engineering

12 Departments

- Architecture and Urban Studies
- Architecture Built Environment and Construction Engineering
- Chemistry, Materials and Chemical Engineering
- Design
- Electronics, Information and
- Bioengineering
- Energy
- Physics
- Civil and Environmental Engineering
- Management, Economics and Industrial Engineering
- Mathematics
- Mechanical Engineering
- Aerospace Science and Technology



PoliMI in the international rankings



QS World University
Rankings (2025)

1° 98°
in Italy in the world

6° 7° 21°
Art and Design Architecture and Built Environment Engineering and Technology



GreenMetric Rankings (2024)

6° 66°
in Italy in the world

Best results in **Waste Management** (1,800/1,800 points) and **Transportation** (1,750/1,800 points).

Polimi - Affiliations

International
Sustainable Campus
Network



The Italian Network of
Universities for
Sustainable Development



The Italian Network for
Symbiosis

Digital Sustainability
Foundation



Strategic alliance between five European
universities of science and technology



THE NETWORK OF UNIVERSITIES FOR SUSTAINABLE DEVELOPMENT

7

Officially established in 2016 by CRUI (Italian Conference of Rectors), but active since 2013 through a bottom-up approach.



Spreading the culture and good practices of sustainability

Thematic Working Groups



Technical working groups



First experience of information sharing and coordination among all Italian Universities committed to the topic of environmental sustainability and social responsibility.



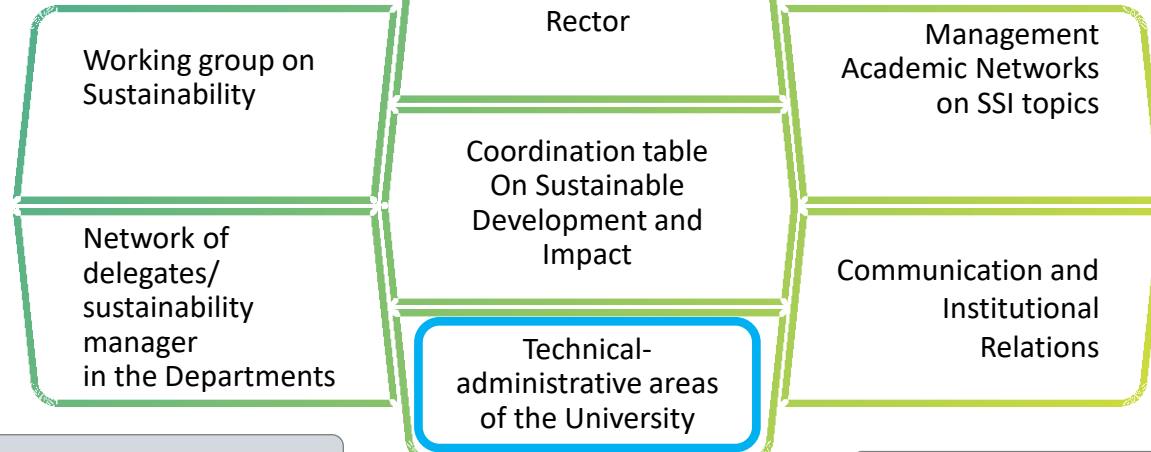
Sustainability@PoliMi

SUSTAINABILITY GOVERNANCE

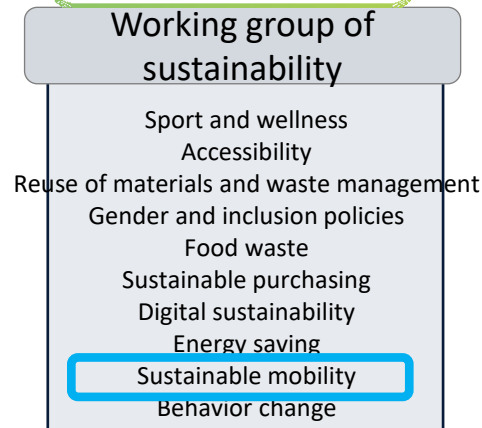
EXECUTIVE RESPONSIBILITY

WIDESPREAD INNOVATION AND ENGAGEMENT

EXTERNAL RELATIONS



Networks and collaborations



Sustainability at the PoliMi

Quality of life, health and well-being



Environmental Sustainability Unit – ESU (1)

2013

The *Environmental Sustainability Unit* (ESU) was created in 2013 to support the “*Città Studi Campus Sostenibile*” project, as a general administrative department office.



2022

Since January 2022, ESU is a Unit within the *Supplies & Facility Management* Division

2025

ESU Staff:

- **Eleonora Perotto** – Head of Environmental Sustainability Unit and Mobility Manager
- **Paola Baglione** – Climate Change referee
- **Chiara Minerva** – Sustainable Mobility referee
- **Maria Licia Zuzzaro** – Communication referee
- *Melissa Paris* – Circular Economy referee (internship)



PURPOSE: to contribute to the university's environmental sustainability strategy and manages the process aimed at improving environmental performance and creating a «sustainable campus».

Great interaction with internal and external stakeholders!



WHAT ACTIVITIES?



Environmental Sustainability Unit – ESU(2)

Main Areas of Responsibility (1):

- support for the definition of the University's general policies and objectives in terms of sustainable development, with particular reference to the issues of i) the **reduction of CO₂ emissions**, ii) the **promotion of sustainable mobility** and iii) the **sustainable management of waste, according to the principles of the circular economy and responsible consumption**;
- management, in collaboration with the Mobility Manager, of activities aimed at improving sustainable mobility and **writing the Home University Commute Plan (HUCP)**;
- management of relationships with municipalities and control bodies;
- management and monitoring of the University's CO₂ emissions inventory and **definition of the contents of the Mitigation plan and Adaptation plan**;



Environmental Sustainability Unit - ESU(3)

Main Areas of Responsibility (2):

- organization of events and training course to raise awareness and promote environmental sustainability;
- collection and processing, where available, data used for the environmental characterisation of the University (e.g. mobility habits, energy consumption, ...), also for participation in national and international networks (e.g. RUS, ...);
- **support to University structures** for mapping and managing activities with direct environmental sustainability implications, with particular attention to: **atmospheric and noise emissions, spills, water, energy and resource consumption, induced traffic, waste management from a circular economy perspective, management of green areas, “green” purchasing;**
- **mapping of the environmental aspects** linked to the activities carried out at the University having direct environmental sustainability implications and **definition of guidelines for carrying out the activities considered most significant** from the point of view of environmental implications.



Environmental Sustainability Unit – ESU(4)

and... MUCH MORE...

- support in writing the sustainability report;
- support the identification of indicators for monitoring environmental aspects;
- participation in relevant sustainability projects (national or international);
- participation in conferences/seminars/workshops;
- support to colleagues, upon request, on sustainability topics;
- collaboration with student and environmental associations, public service providers (water and waste management, etc.), other universities, etc.

...







**KEEP
CALM
AND
PLEASE BE
QUIET!**

KeepCalmAndPosters.com



Environmental Sustainability Unit and Strategic Plans

01

CO₂ Emissions Mitigation Plan



Paola Baglione
Giulia Cavenago
Francesco Silvestri
Samuel Tolentino



02

Climate Change Adaptation Plan



Eugenio Morello
Rachele Radaelli
Doruntina Zendeli



03

Home-Work/University Commute Plan

CO₂ Emissions Mitigation Plan

- 2019 ● First edition of the Plan
- 2024 ● Updated edition of the document
- 2025 ● A “light” version is currently being drafted

Based on Politecnico's CO₂ emission inventory

Two main focus **areas**:

- *energy emissions*
- *mobility emissions*

INDEX

1. Introduction and Purpose
2. Methodological Aspects in Defining Emission Reduction Commitments
3. Methodological Aspects in Estimating Emissions
4. Implementation of the 2019 Plan as of 2022 (PdM, 2019)
5. Proposed Actions for Achieving Decarbonization Targets
6. Summary Framework of Potential Reductions by 2025 and 2030



Paola Baglione
Giulia Cavenago
Francesco Silvestri
Samuel Tolentino



Cimate Change Adaptation Plan (first edition)

INDEX

1. Introduction: urgency and positioning of the Plan within the University
2. Analysis of the Climate Context
3. Assessment of Climate Risks for Politecnico di Milano
4. Toward an Adaptive University: Goals, Strategies, and Integration
5. From Strategies to Actions
6. Governance and Community Engagement
7. Priority Actions
8. Integration of Adaptation into Academic Activities
9. Monitoring and Evaluation
10. Conclusions



**Currently
being drafted**



Eugenio Morello
Rachele Radaelli
Doruntina Zendeli



Home University Commute Plan

4 Key Areas of Action



Agreements and Benefits

Funds for staff's public transport passes, agreements with sharing mobility services, carpooling, ...



Infrastructure improvement

Installation of bike racks and electric charging points, redesign of open spaces, ...



Communication and Awareness Campaigns

Events and seminars, workshops and pilot projects, test drives, citizen science projects, ...



Networking Activities

Participation local, national, and international working groups (RUS, U-MOB, ...)



→ Modal share is important to identify actions



Samuel
Tolentino



PolIMI Mobility Strategy – 1



How do people move? Overall modal share

Widely used local public transport (LPT):

- Exclusive use: 49% students; 47% staff;
- Combined use: 25% students; 13% staff.

Private vehicles used primarily by staff: 20%
(students 9%)

High percentage of active mobility (especially for the Città Studi campus), with staff using bicycles twice as often as students:

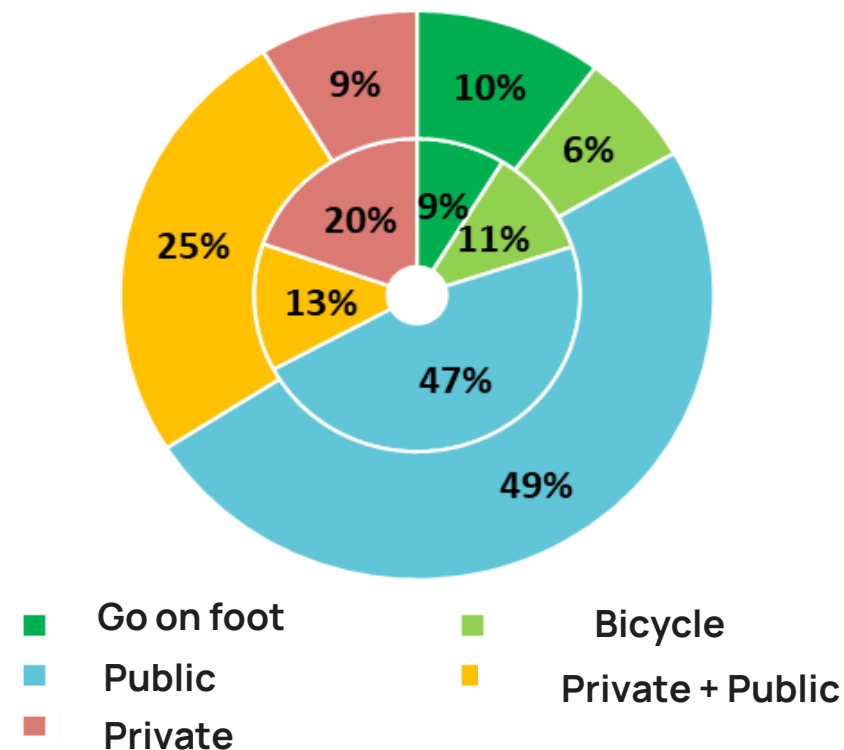
- Walking: 10% students; 9% staff;
- Bike/scooter: 6% students; 11% staff

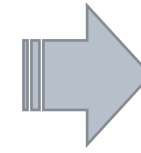


Modal share

19

Overall modal share
External ring: student
Internal ring: workers





Why POLIMI users move in this way?



➤ MOTIVATIONS FOR MODAL CHOICE

- **Speed** : *for those who use cars and/or bicycles;*
- **Affordability** : *for those who use public transport, bike or go on foot (PS: also for car users living in M3 and M4 bands, in relation to smart working);*
- **Autonomy**: *especially for those who use the car, and to a lesser extent also for those who use the bicycle or go on foot;*
- **Health**: *for those who use the bicycle or go on foot;*
- **Comfort**: *for those who use the car.*
- **There are no alternatives**: *for those who use the combination private + public transport*



Are POLIMI users open to change their mobility habits?

SAFETY

➤ OPEN TO USE THE BIKE...

- In the presence of an increase in cycle paths (requested by approximately 30% of respondents)

- Highlighted with decreasing percentages is the request for:

- more control over thefts (*especially students*)

Bike stations

- more agreements and parking spaces (*especially students*)

New bike parking spaces

- changing rooms and showers (*especially staff*)

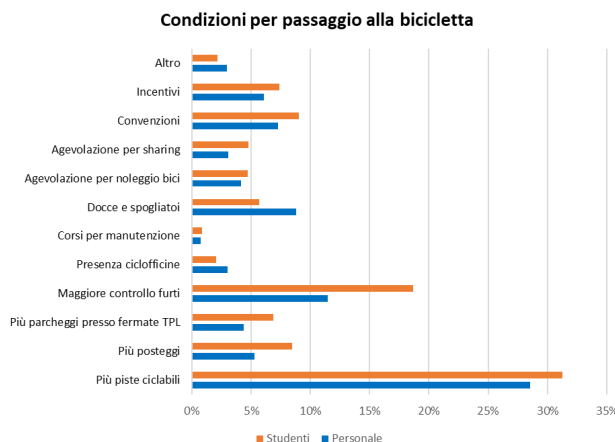
...Bike to Work

- mobility incentives/credits (*especially students*)

Collaboration with the Municipality, AMAT, Metropolitan City, and the Region is fundamental



The presence of the UNIVERSITY BIKE REPAIR CENTER is also an incentive, especially for the staff.



POLICICLO!





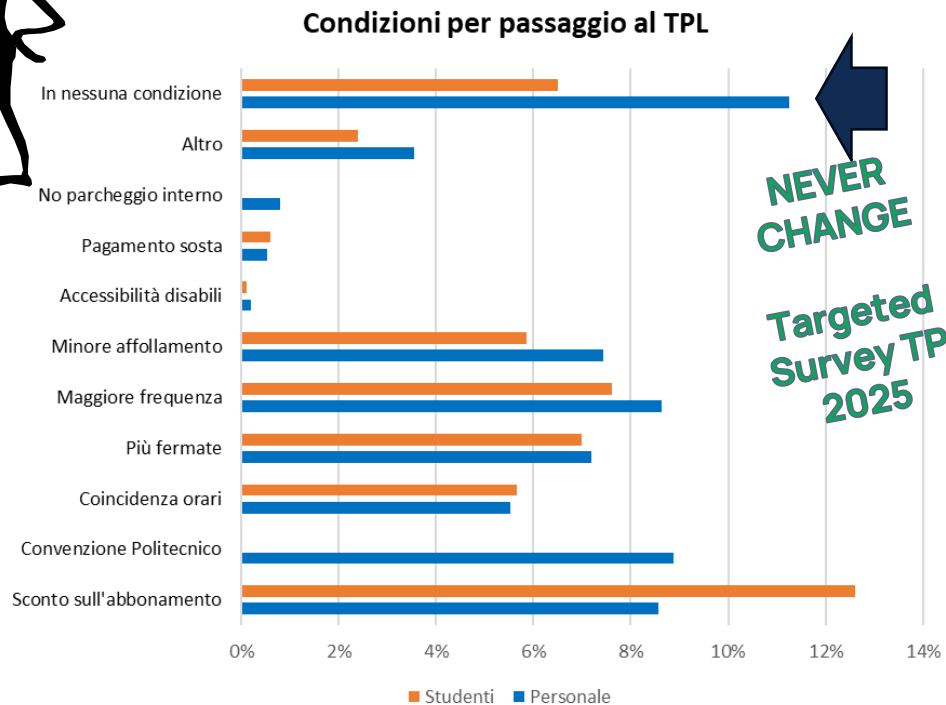
PoliMI Mobility Strategy – 3b



Propensity to change (2)

Are POLIMI users open to change their mobility habits?

OPEN TO USE PUBLIC TRANSPORT



Approximately 50% of staff (half of whom use private transport) and 40% of students (a quarter of whom use private transport) expressed willingness to shift to public transport.

In particular, the following improvements were requested:

- to improve quality and accessibility of the service, especially in terms of :
 - less crowding (staff and students);
 - more stops (staff and students)
- to increase the frequency of the trips/passages;
- to pay more attention to transport timetable connections;
- to introduce/increase discounts, especially for students.

Traspol Lab

Collaboration with the Municipality, AMAT, Metropolitan City, and the Region is fundamental



MaaS

Home University Commute Plan

4 Key Areas of Action



Agreements and Benefits

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Communication and Awareness Campaigns

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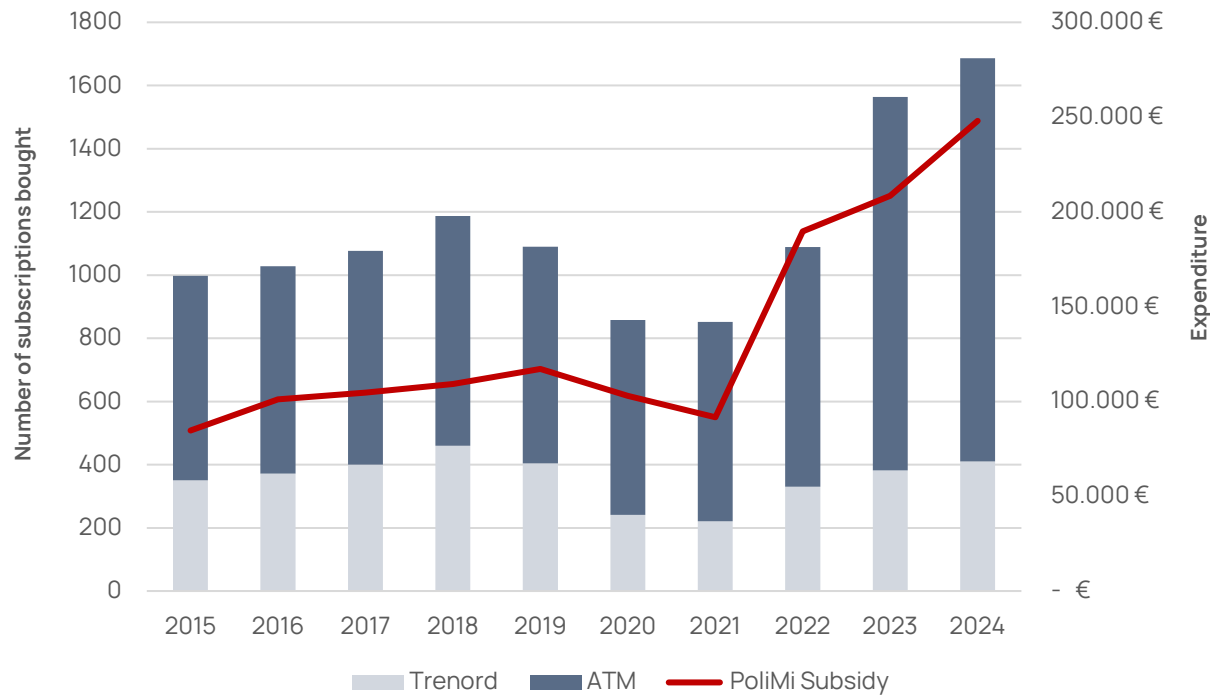


Networking Activities

Participation local, national, and international working groups (RUS, U-MOB, ...)

Agreements and Benefits

Public transport operators (PTO)



Sharing mobility services

- Bicycles
- Segways
- Cars
- Electric scooters
- Vans

some examples



Agreements with:

- Railway operators (Trenitalia)
- Bus operators Flibco & Flixbus

Infrastructure Improvement (1)

Three main bike stations:

Città Studi - *Leonardo*



Bovisa - *Durando*



Bovisa - *La Masa*



Coming soon:

«*Marie Curie*» residence hall (end of October) // Campus Bassini – **Building 41**

Infrastructure Improvement (2)

Over the past year, ESU has removed outdated bicycle facilities and installed modern infrastructures across the Milan campuses of Città Studi and Bovisa.

As part of the 2024 POLIMI HUCP, approximately 800 new bicycle parking spaces are being installed.

Construction is ongoing in the Bovisa-Durando and Città Studi-Bassini campuses.

In July 2025 the works have been completed at Bovisa-Lambruschini, & La Masa, Città Studi-Bonardi & Golgi Campuses.

in 2023
~1280
bicycle parking spaces

in 2025
~1780
bicycle parking spaces



Communication and Awareness Campaigns

A few examples

European Mobility Week 2025

16th-22 th September 2025

Sustainable mobility  Safe mobility



Visit to the DriSMi -
Driving Simulator Lab

Seminar on sustainable mobility
at the Bovisa District @Policiclo

+

Handover of a
refurbished bike



Seminar on road safety
with contributions of
two Polimi Professors
and the Mobility
Manager, in
colaboration with ACI
Milano, AC Milano, and
Sara Safe Factor Project



Networking Activities

A few examples

Sustainable mobility POLIMI Working Group



«Cities for sustainable mobility» project.

- aims to identify policies and measures to promote sustainable urban mobility by establishing permanent working groups and scientific observatories dedicated to specific issues (i.e. transport safety and service quality).



Periodic initiatives concerning *road safety* and *sustainable mobility*, in collaboration with **ACI Milano, Regione Lombardia, INAIL**.

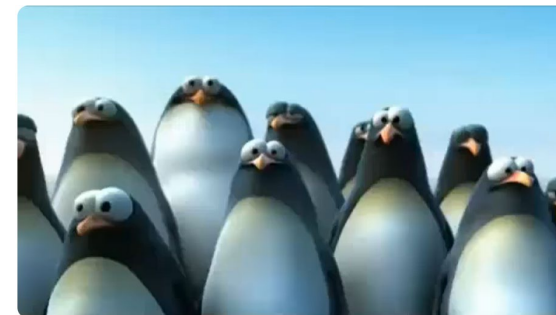


Automobile Club d'Italia

Partecipazione in the mobility working group of RUS



**TOGETHER FOR THE
CHANGE WE WANT!**



L'unione fa la forza!

<https://www.youtube.com/watch?v=KH-qlwAGQNk>

Thank you for your attention!

***AND SPECIAL THANKS TO CHIARA MINERVA FOR
THE SUPPORT IN PREPARING THE PRESENTATION***





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