

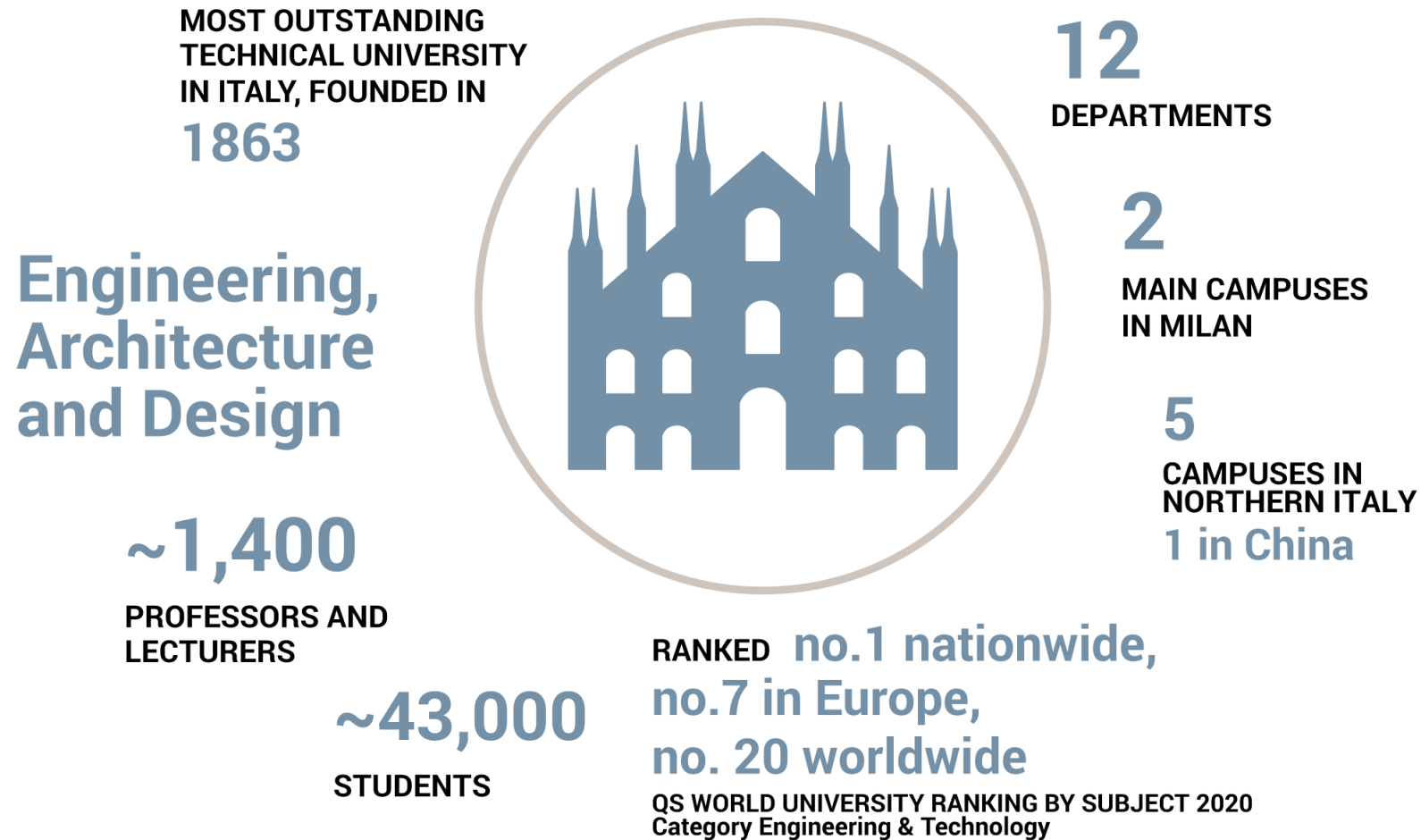


POLITECNICO
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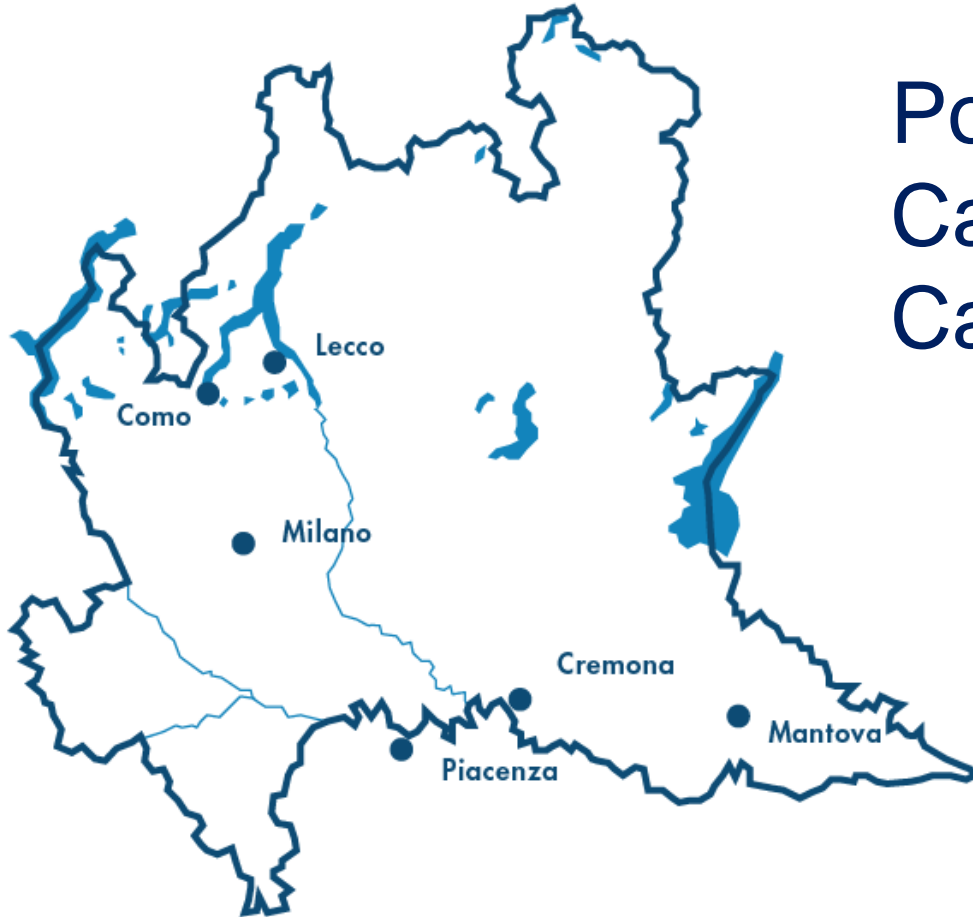


Politecnico di Milano

**The leading University in Italy for
Architecture, Design and Engineering**



The University Premises



Politecnico di Milano has **2** main Campuses in the city of Milan and **5** Campuses located in Northern Italy



Politecnico di Milano QS Rankings by Subject 2019/20

First in **Italy** in 10 research areas:

Architecture & Built Environment; Art & Design; Computer Science & Information Systems; Chemical Engineering; Civil & Structural Engineering; Electrical & Electronic Engineering; Mechanical, Aeronautical & Manufacturing Engineering; Environmental Sciences; Materials Science; Mathematics

In the top 10 **European** universities in 7 research areas:

Architecture & Built Environment; Art & Design; Computer Science & Information Systems; Chemical Engineering; Civil & Structural Engineering; Electrical & Electronic Engineering; Mechanical, Aeronautical & Manufacturing Engineering

In the top 50 universities in the **World** in 7 research areas:

Architecture & Built Environment; Art & Design; Computer Science & Information Systems; Chemical Engineering; Civil & Structural Engineering; Electrical & Electronic Engineering; Mechanical, Aeronautical & Manufacturing Engineering

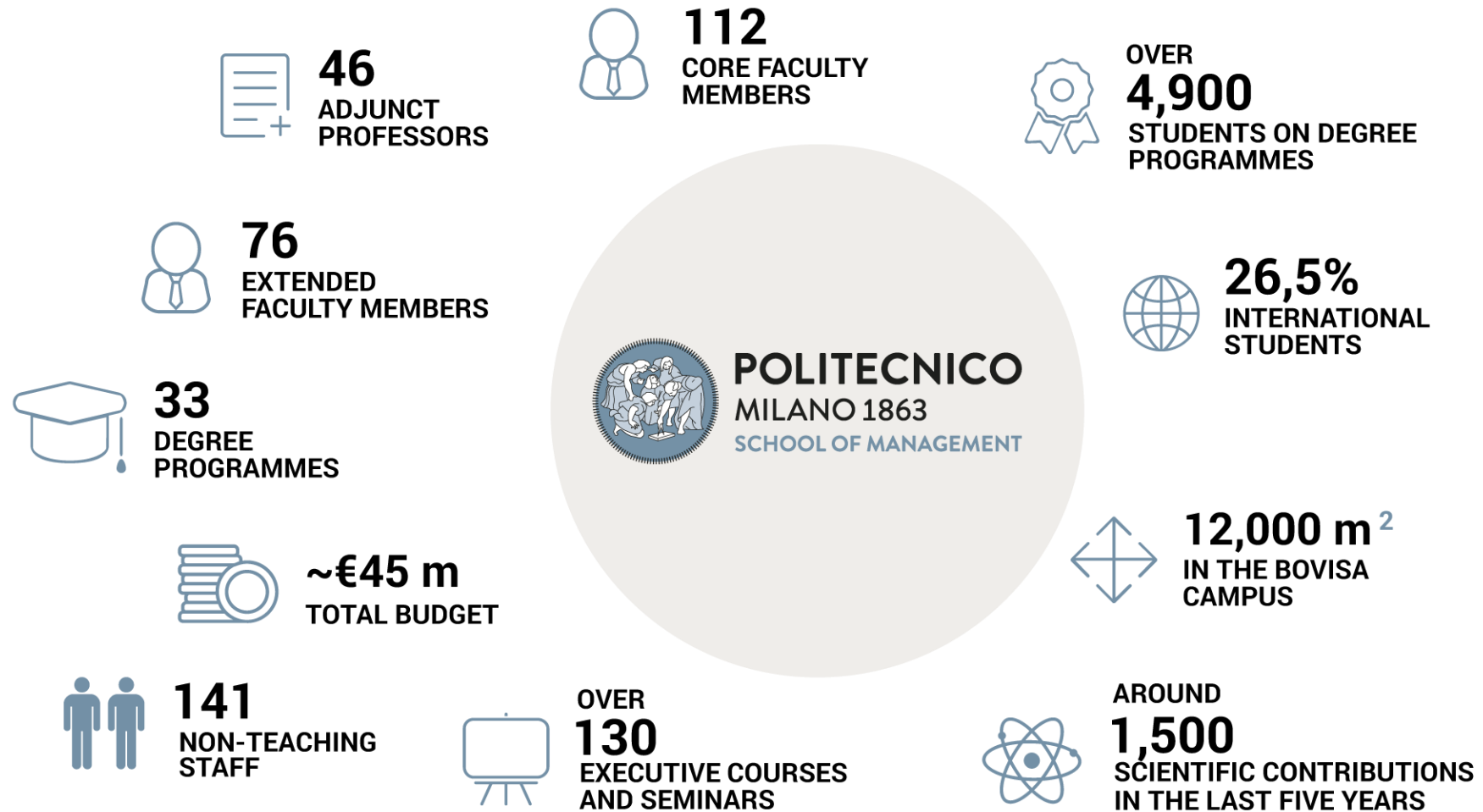


POLITECNICO
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The School of Management (SoM)



The School of Management



The SoM Vision and Mission



Vision

We envision a world where responsible leaders are driven by the search for collective benefit empowered by technological enlightenment.

Mission

The mission of the School of Management (SoM) is to contribute to the collective good through a critical understanding of the opportunities offered by innovation.

This mission is accomplished by creating and sharing knowledge through:

- High-quality education
- High-quality research
- Engagement with the community

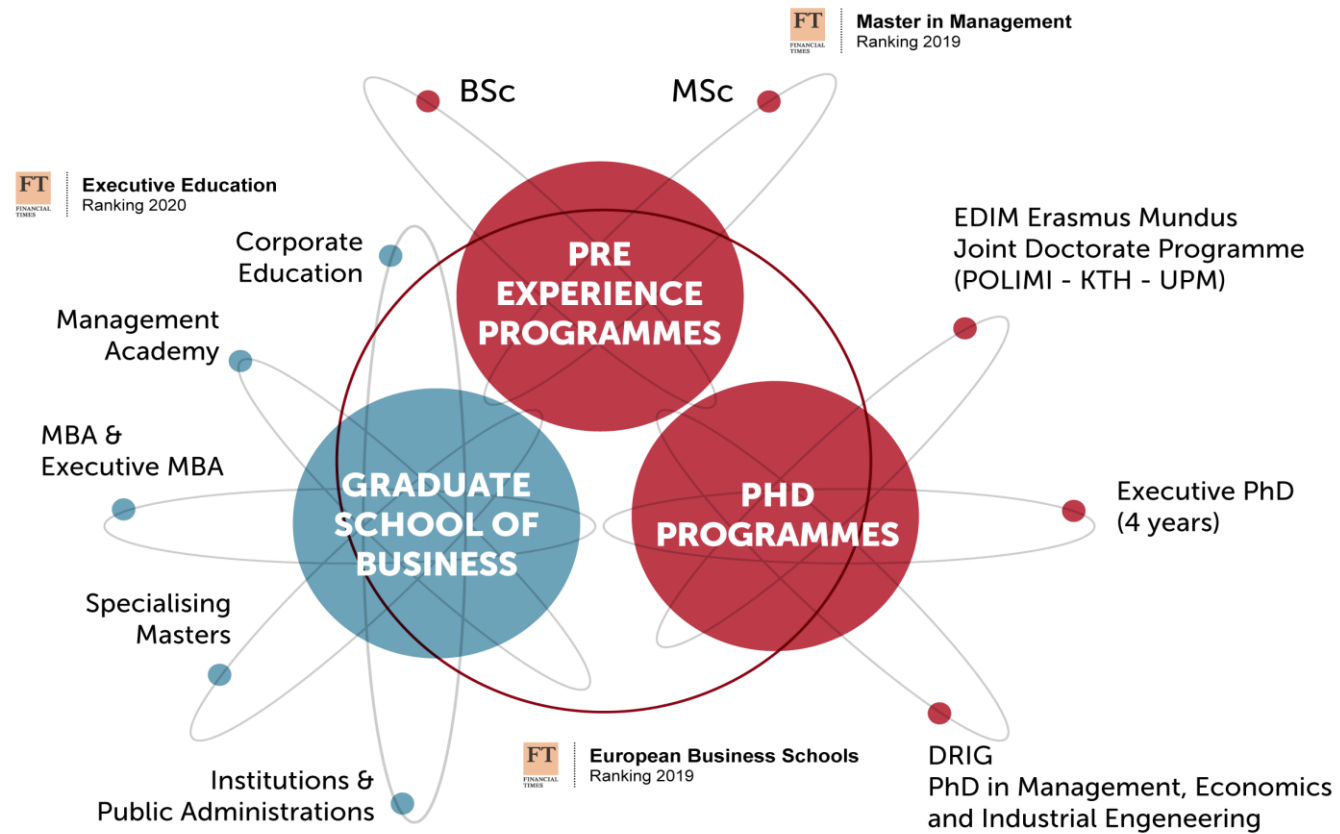
Accreditations, Rankings & Memberships



Online MBA Ranking 2020
Executive Education Ranking 2020
European Business School Ranking 2019
Master in Management Ranking 2019



The SoM Programme Portfolio



MIP - Politecnico di Milano School of Business

- Not-for-Profit Consortium Limited Company established in 1979
- Companies on board since its foundation
- Structure today:
 - ❑ Politecnico di Milano **40%**
 - ❑ Assolombarda **60%**
(Entrepreneurial Association) &
All other Companies



The SoM Research: Areas and Lines

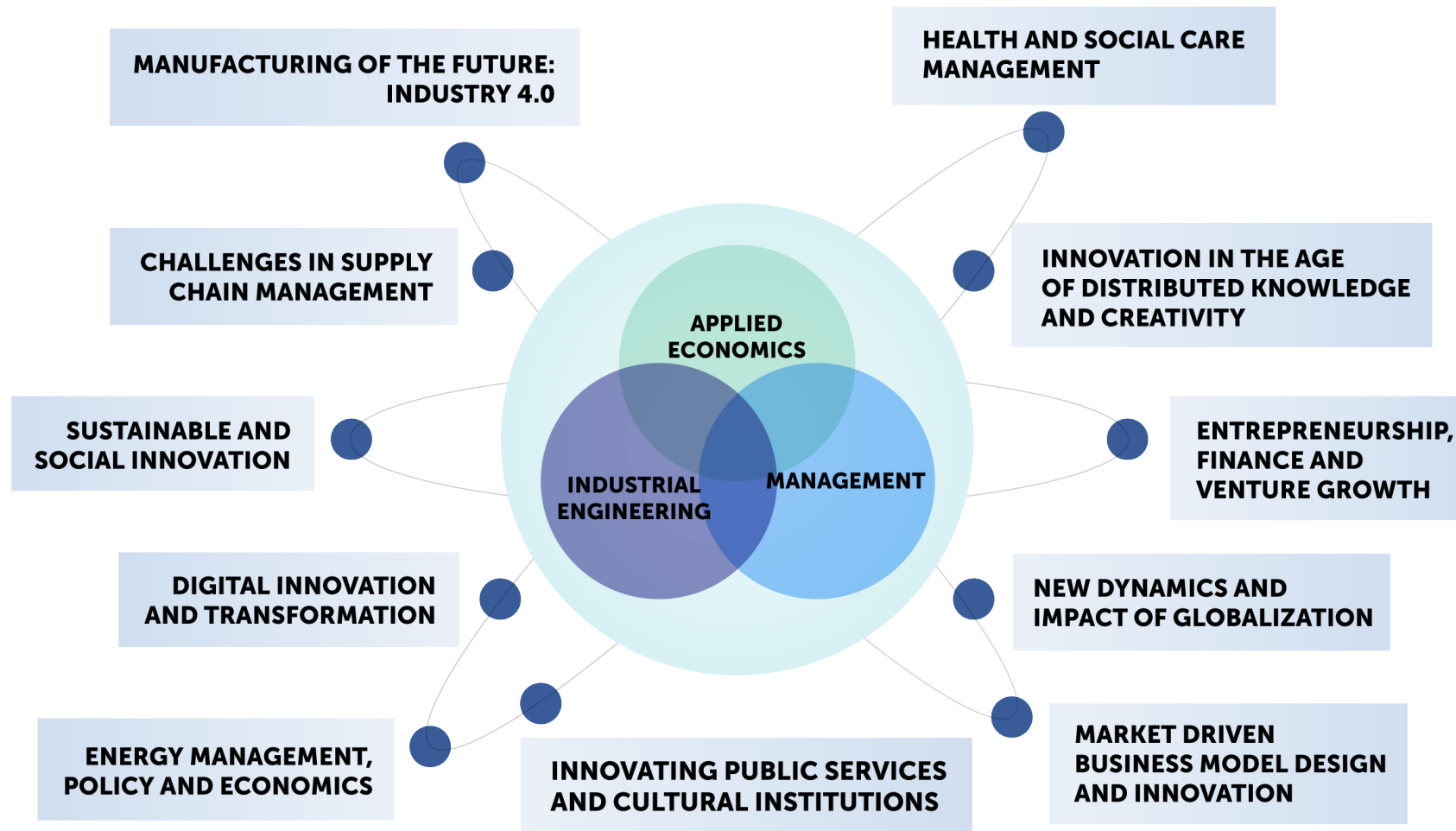
The SoM Research Strategy focuses on **three main areas** of research:

-  **Management**
-  **Applied Economics**
-  **Industrial Engineering**

Around these research topics, the School organizes **multi-disciplinary research activities** called **research lines**.

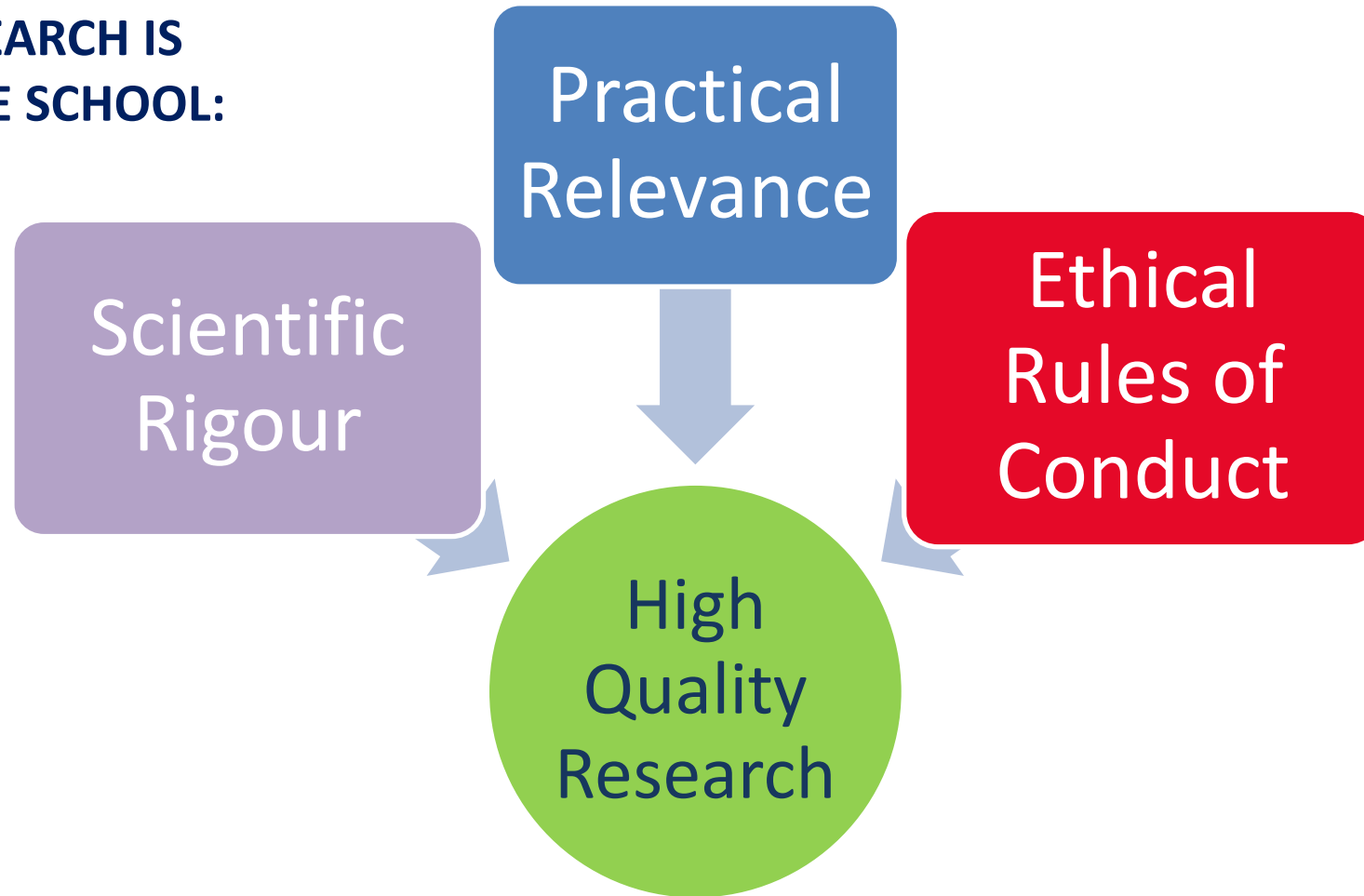
These address **emerging scientifically challenging issues of great practical and societal relevance**

The SoM Research: Areas and Lines



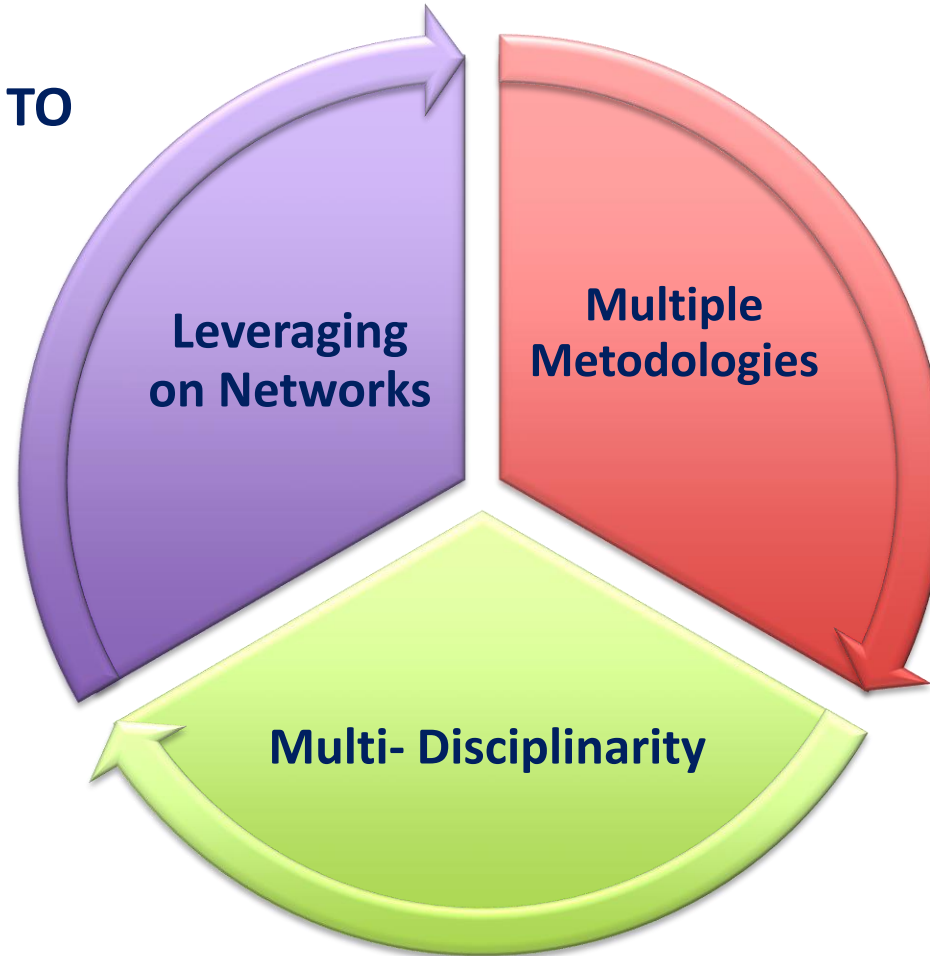
The SoM Approach to Research

**HIGH-QUALITY RESEARCH IS
A PRIORITY FOR THE SCHOOL:**



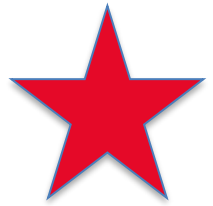
The SoM Approach to Research

**THE SCHOOL'S APPROACH TO
RESEARCH IS
CHARACTERISED BY:**



The Role of Research @ SoM

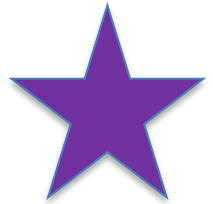
RESEARCH PLAYS A KEY ROLE IN:



Generating new **knowledge**

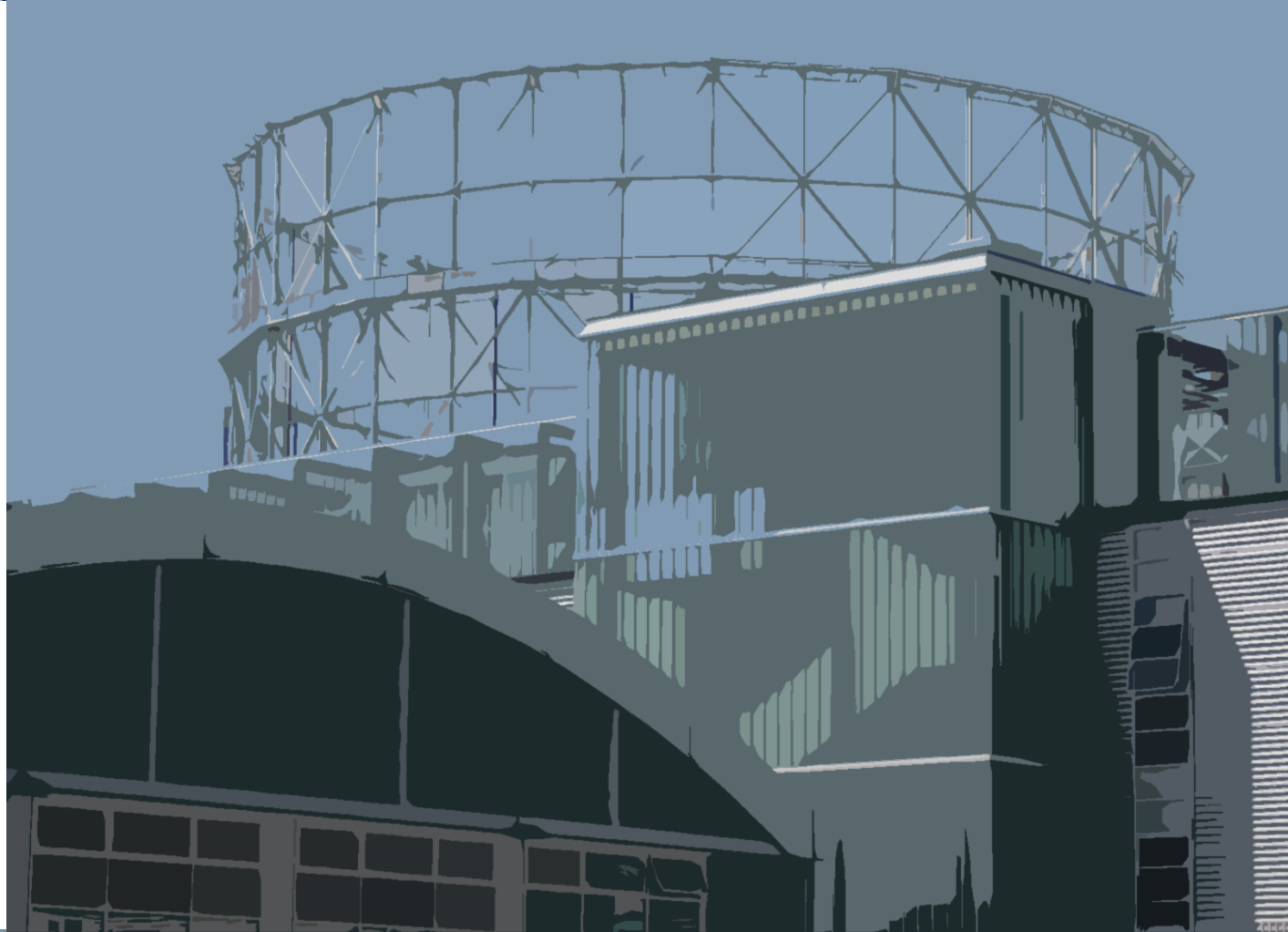


Enhancing the level of **teaching**



Establishing **effective relationships** with the corporate world, policy-makers & society

Research Labs @ SoM



Physiology, Emotion and Experience LAB



Objective:

Pheel combines the analysis of biological and physiological signals of the individual, expert evaluation and marketing skills to study in depth individual behaviours and reactions

Infrastructure:

A Lab equipped with:

Eye movement detectors (fixed and on the move), Electroencephalograph, Wearable of detection of heart rate and power, skin impedance, frequency and respiratory power, Detector of facial micro-expressions.

www.pheel.polimi.it

SoM Research Labs: IoT (Internet of Things)

The Lab is dedicated to **applied research** and **technological transfer** towards companies on topics revolving around the **Internet of Things (IoT)** paradigm, tackling both the underlying technology as well as emerging use cases and new business models.



It focuses on the **research and design of complex IoT systems**, serving as proving grounds for researchers and students, as well as being an **enabling asset for companies**, which are accompanied in their **evolution towards the IoT/connected model**.

Connected Product, Industrial IoT/Smart Manufacturing, Servitization, are just some of the focus areas.

www.iotlab/polimi.it

SoM Research Labs: Industry 4.0

I4.0 LAB is a **technology infrastructure** where research, development, deployment and testing on **Smart Factory themes**, sustainability of advanced manufacturing processes and relationship between all stages of the life cycle of both products and the factory are possible in an **open, hands-on environment** implementing the **most advanced digital technologies**.



Researchers and industry representatives collaborate in order to support the **digital transformation** of the **Italian industry** towards its global competitiveness.

The research covers various areas, such as: process energy efficiency, optimization, modelling, simulation; human/machine interaction utilizing VR/AR (virtual and augmented reality); new technologies adoption as cloud/fog computing, blockchain, machine learning, 5G, etc.



www.industry40lab.org

Digital Innovation Observatories



Digital Innovation Observatories

- Founded **to raise cultural awareness** in all the main areas of **digital innovation**
- They provide an **expert point of reference**, integrating work in **research, knowledge and communication**
- Purpose: **produce and spread knowledge** in regards to digital technology opportunities and to **impact** on companies, public authorities, and citizens

Digital Innovation Observatories: an Overview

DIGITAL TRANSFORMATION

Cross-analysis of the digital innovation processes that are transforming Italy

- Design Thinking for Business
- Digital Agenda
- Digital Transformation Academy
- Hi-tech Startups
- Startup Intelligence

DIGITAL SOLUTIONS

In-depth studies on specific fields of application and infrastructure for new digital technology

- Artificial Intelligence
- B2c e-Commerce
- Big Data Analytics & Business Intelligence
- Blockchain & Distributed Ledger
- Cloud Transformation
- Electronic Invoicing & B2b E-Commerce
- Information Security & Privacy
- Internet of Things
- Mobile B2c Strategy
- Mobile Payment & Commerce
- Multichannel
- Omnichannel Customer Experience
- Planning & PLM Management
- Smart Working

VERTICALS

Digital innovation analysed within specific sectors or processes

- Cloud in the Public Sector
- Contract Logistics “Gino Marchet”
- Digital Innovation in Healthcare; in Heritage & Culture; in Retail; in Sport Industry; in Tourism
- e-Government
- Export
- Fintech & Insurtech
- Food Sustainability
- HR Innovation Practice
- Industry 4.0
- Internet Media
- Kids & Toys
- Mobile Banking
- Online Gaming
- Professionals & Digital Innovation
- Smart Agrifood
- Supply Chain Finance
- Tech Company – ICT Channel Innovation

Digital Innovation Observatories: The Key Numbers

200 PUBLICATIONS

The most complete collection of analyses, data and conceptual frameworks on digital innovation to assist in decisions crucial for a company's success.

200 LIVE STREAM WORKSHOPS WEBINARS AND CONFERENCES

Analysts and experts explore key topics of digital innovation

400 PARTNERS AND SPONSORS

Research at the Observatories for Digital Innovation is supported by the most important offer-side companies

150.000 PROFESSIONALS

Managers and C-level executives are following the Observatories' work and the research findings

Digital Innovation Observatories: What they do

RESEARCH

100 professors, researchers and analysts working in **40** Observatories to address key matters of **digital innovation** in companies and public authorities.

KNOWLEDGE

The point of reference for professionals wishing to remain up to date on digital innovation. A **single source of information**, data and knowledge based on experts' publications, webinars and workshops, distributed over a **multi-media interactive platform**

Digital Innovation Observatories: What they do

COMMUNICATION

The Observatories spread **good practice**, experience and a **culture** of digital innovation through conventions, media and publications, issuing over **5.000** press releases and articles, and holding **200 public events** every year.

NETWORKING

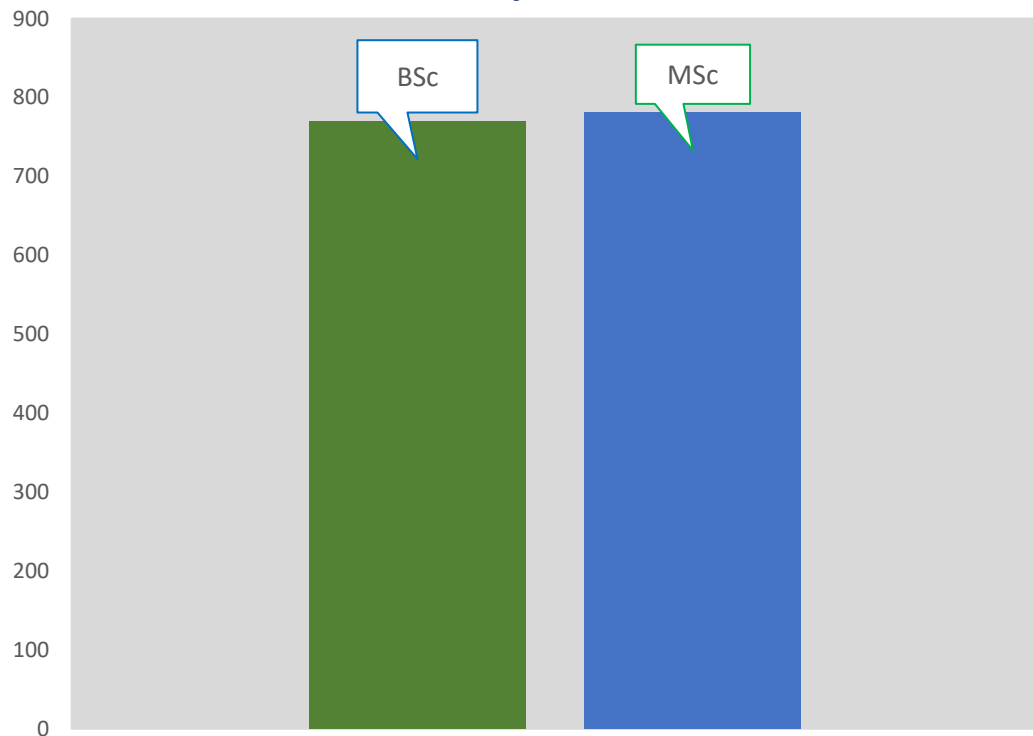
The Observatories gather together **a wider community** of offer-side and demand-side decision-makers and institutions, developing solid relationships and working together to help **spread digital innovation**.

Pre-experience and PhD Programmes

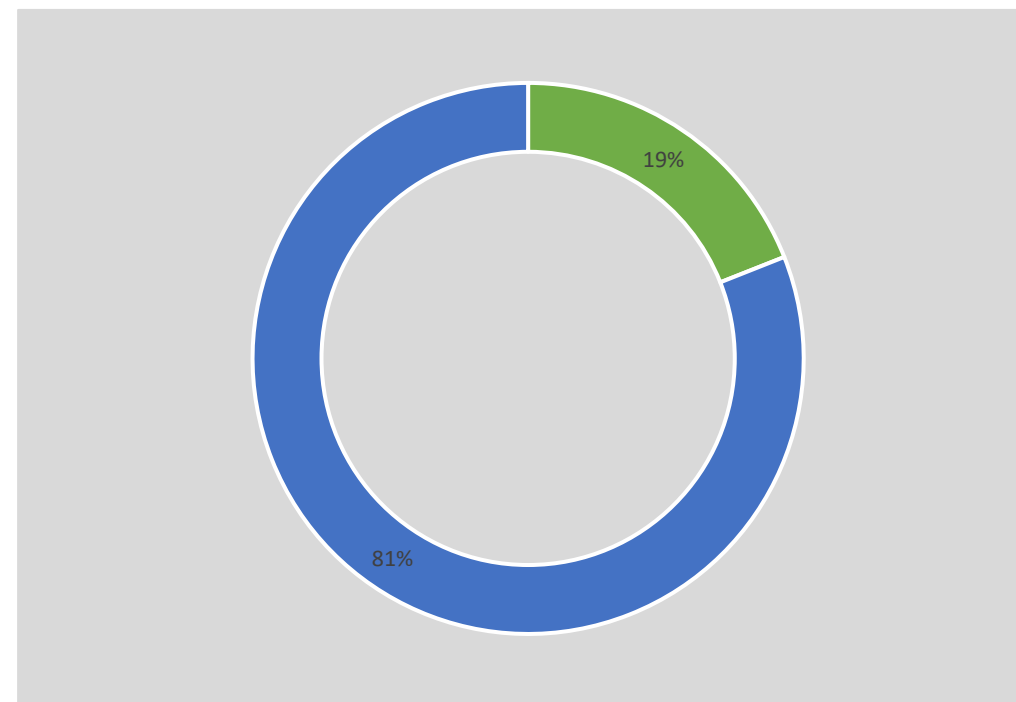


Bachelor & Master of Science in Management Engineering

**ME Degree Incoming students
AY 2018/19**

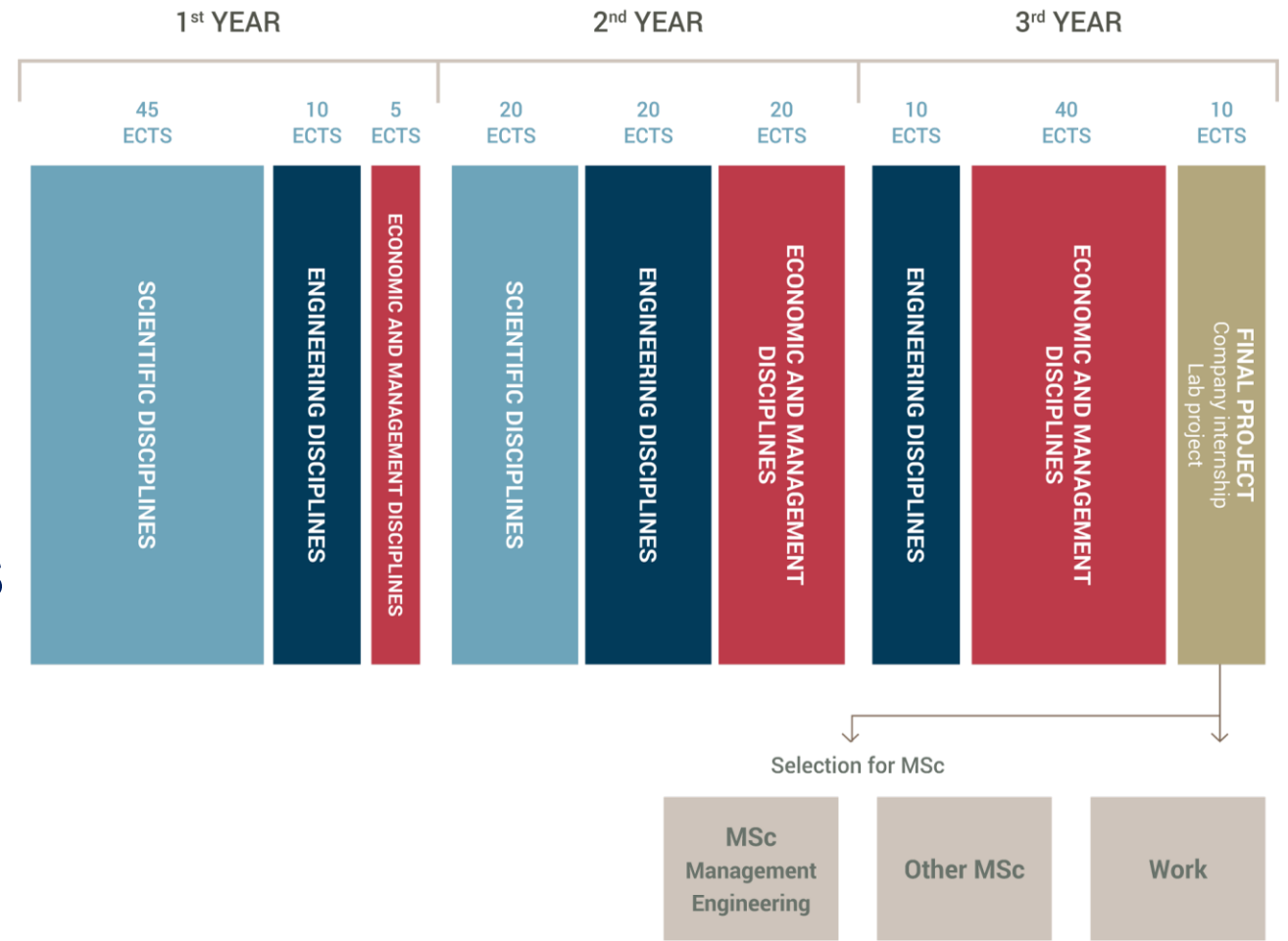


**International Students - MSc Degree
AY 2018/2019**



Bachelor of Science in Management Engineering

- ✓ BSc is a **3 year** (180 ECTS) degree
- ✓ Taught entirely in **Italian**
- ✓ A full course load is 30 ECTS/Sem
- ✓ Courses are mostly worth 5-10 ECTS
- ✓ **Exchange students** at the BSc level can enroll in MSc level courses

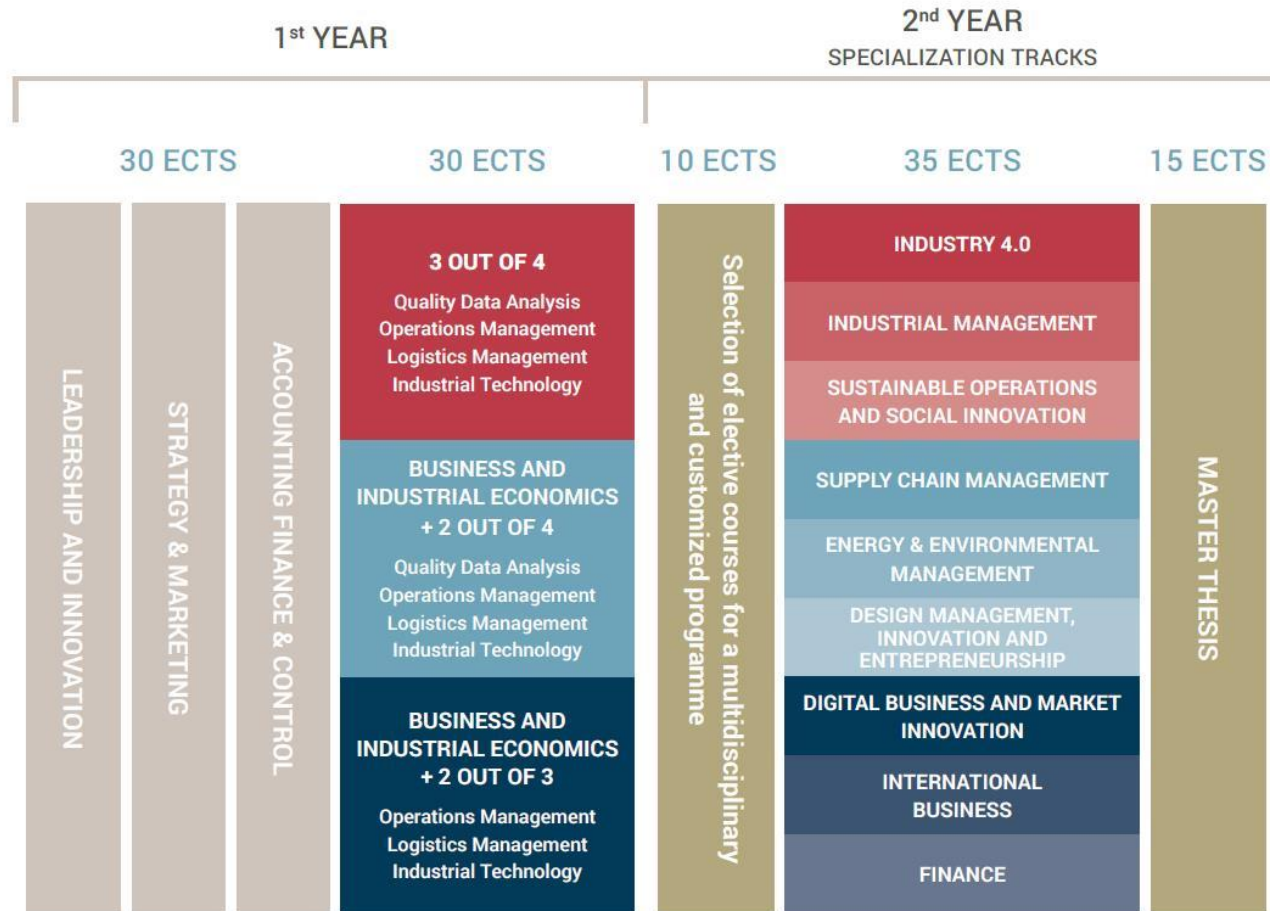


Master of Science in Management Engineering

- ✓ MSc is a **two year** degree, **120 ECTS** credits
- ✓ MSc in Management Engineering is taught in **English**
- ✓ Courses are mostly worth 5-10 ECTS credits
- ✓ **First year** focuses on building a **common body of knowledge** that characterizes the Management Engineer
- ✓ During the **second year** students select a **Concentration**

MSc in Management Engineering overall structure

First year focuses on building a common body of knowledge that characterizes the management engineer



Second year is dedicated to developing vertical competencies within specific streams

Every stream ends with a practice-based lab

First Year of the Master of Science in ME

- Acc.ting, Fin. & Control
- Strategy & Marketing
- Leadership & Innovation

30 ECTS CREDITS



Quality Data Analysis/ Operations Management/
Logistics Management/ Industrial Technologies

3 OUT OF 4 COURSES (30 ECTS CREDITS)

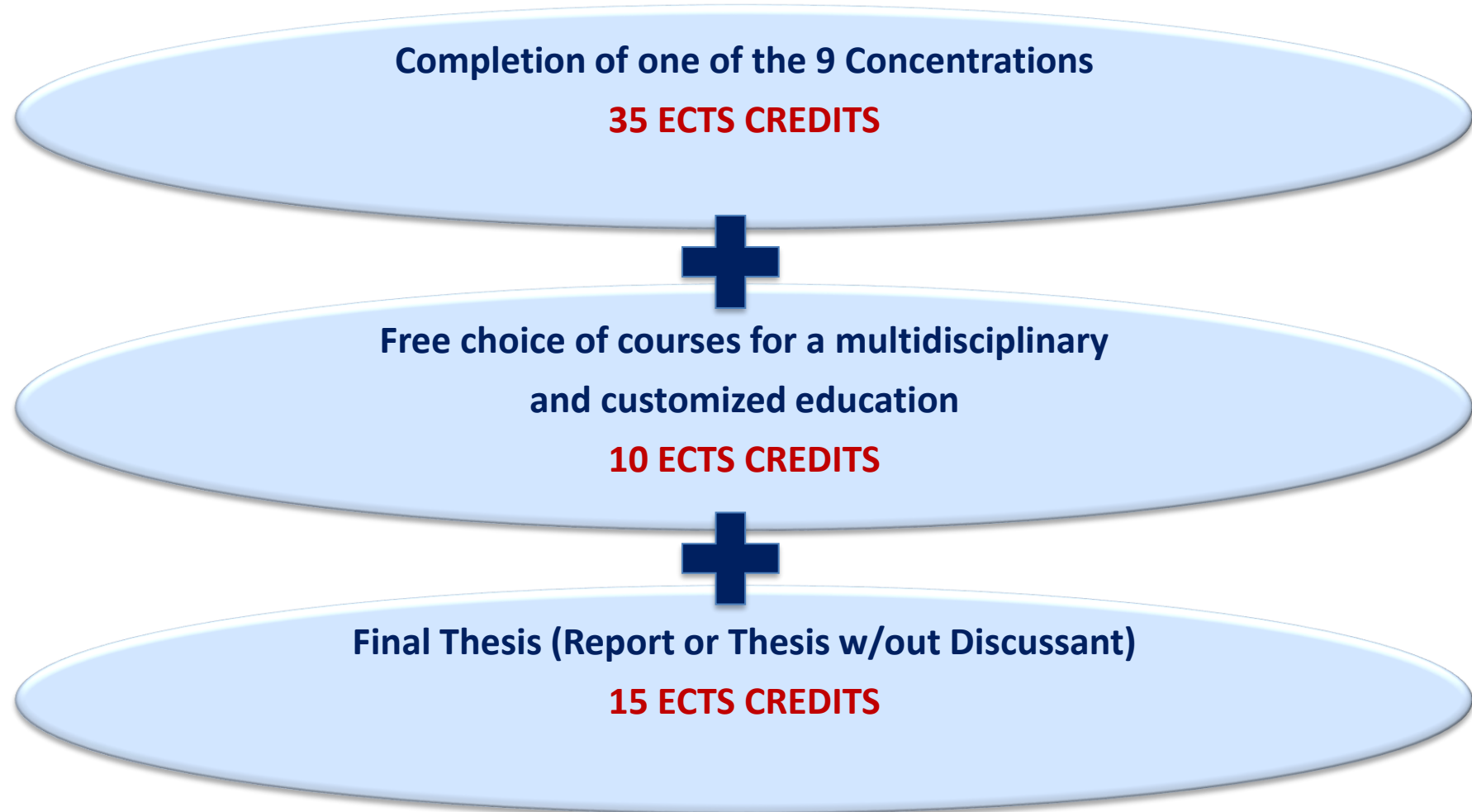
Business & Industrial Economics +
Quality Data Analysis/ Operations Management/
Logistics Management/ Industrial Technologies

2 OUT OF 4 COURSES (30 ECTS CREDITS)

Business & Industrial Economics +
Operations Management/Logistics Management/
Industrial Technologies

2 OUT OF 3 COURSES (30 ECTS CREDITS)

Second Year of the Master of Science in ME



9 STREAMS (CONCENTRATIONS) available to students

Industry 4.0 (I4.0)

Digital Business and Market Innovation (DBM)

Design Management, Innovation and Entrepreneurship (DMI)

Energy and Environmental Management (EEM)

Finance (FIN)

International Business (IB)

Industrial Management (IM)

Sustainable Operations Management and Social Innovation (OSI)

Supply Chain Management (SCM)

9 STREAMS (CONCENTRATIONS)

INDUSTRY 4.0	ECTS	ECTS
Smart Manufacturing Lab	10+5	15
Manufacturing Systems Engineering	5	5
Advanced Production Systems	5	5
Industrial Automation, Communication and Data Management	5	5
Additive Manufacturing	5	5
De-Manufacturing	5	
Safety Engineering and Management	5	
International Distribution	5	
Management of Design and Innovation Projects	5	

INDUSTRIAL MANAGEMENT	ECTS	ECTS
Industrial Management Lab and toolbox	15	15
Asset Lifecycle Management	10	10
Industrial Project Management A	10	
Operations Risk Management and Resilience	5	5
Quality Management	5	
Additive Manufacturing	5	5
De-Manufacturing	5	
Safety Engineering and Management	5	
International Distribution	5	
Digital Business Innovation	5	
Product Lifecycle Management	5	
Supply Chain and Purchasing Management	5	

9 STREAMS (CONCENTRATIONS)

SUSTAINABLE OPERATIONS MGT & SOCIAL INNOVATION	ECTS	ECTS
Business in Transformation: Social and Sustainability Challenges Lab	15	15
Advanced and Sustainable manufacturing	10	10
Social Innovation	5	5
Health Care Management	5	5
De-Manufacturing	5	
Economics of Network Industries	5	
International Distribution	5	
Operations Risk Management and Resilience	5	
Policy Analysis	5	

SUPPLY CHAIN MANAGEMENT	ECTS	ECTS
Supplier Relationship Management Lab	10	10
Advanced Supply Chain Planning Lab	10	10
Supply Chain Management	10	10
Digital Business Innovation	5	5
Operations Risk Management and Resilience	5	
Quality Management	5	
International Distribution	5	

9 STREAMS (CONCENTRATIONS)

ENERGY & ENVIRONMENTAL MANAGEMENT	ECTS	ECTS
Energy Management Lab	10	10
Management of Energy and Sustainability	10	10
Economics of Network Industries	5	5
Industrial Eco-efficiency	5	5
Fundamentals of Energy Technologies	5	5
Diritto dell'Energia	5	5
Financial Risk Management	5	
Industrial Project Management B	5	
Power Production from Renewable Energy C	5	
Operations Risk Management and Resilience	5	
Social Innovation	5	

DIGITAL BUSINESS AND MARKET INNOVATION	ECTS	ECTS
Designing Digital Business Innovation Lab	15	15
Multichannel Customer Strategy	10	10
Applied Statistics	5	5
Courses	5	
Digital Technology	5	
Additive Manufacturing	5	5
Branding and Communication	5	
Public Management	5	
Social Innovation	5	
Supply Chain and Purchasing Management	5	

9 STREAMS (CONCENTRATIONS)

DESIGN MANAGEMENT, INNOVATION & ENTREPRENEURSHIP	ECTS	ECTS
Design Management Lab	15	15
Design Strategy and Economics of Innovation	10	10
Additive Manufacturing	5	10
Management of Design and Innovation Projects	5	
Digital Business Innovation	5	
Entrepreneurship Economics and policy	5	
Product Life Cycle Management	5	
Branding and Communication	5	

FINANCE	ECTS	ECTS
Finance Lab + Corporate Finance	15	15
Financial Markets and Institutions + Macroeconomics of Finance	10	10
Financial Econometrics	5	5
Entrepreneurial Finance	5	
Financial Risk Management	5	
Investment Banking	5	5
Financial Econometrics	5	
Entrepreneurial Finance	5	
Entrepreneurship Economics and Policy	5	
Financial Risk Management	5	
Investment Banking	5	
Operations Risk Management and Resilience	5	

9 STREAMS (CONCENTRATIONS)

INTERNATIONAL BUSINESS	ECTS	ECTS
Investments in Foreign Markets Lab	15	15
International Economics	10	10
Economics and Management of Multinational Enterprises	5	5
International Markets and European Institutions	5	
Economics and Management of Multinational Enterprises	5	5
Global Supply Networks	5	
International Distribution	5	
International Markets and European Institutions	5	

The PhD Programme in Management Engineering (DRIG)

The PhD Programme (**DRIG**) provides advanced post-graduate Education in **Management, Economics and Industrial Engineering**.

- PhD students receive scholarships (funded by the Italian Government through the Ministry of Education and by firms/private/public institutions)
- Exchanges and visiting periods are a **mandatory requirement** in the programme
- The PhD **scholarship** increases by **50%** during the **semester** that students spend **abroad**. Moreover, **DRIG PhD students** have a **research and travelling budget**

Structure of the DRIG PhD Programme



DRIG Portfolio of Courses: Main Methodological Courses

LIST OF MAIN METHODOLOGICAL COURSES	ECTS
Mandatory methodological courses	
Literature review in social sciences and engineering	5
Academic publishing	5
Main methodological courses (2 out of a portfolio of 5)	
Advanced topics in econometrics (Methods for panel data, SEM)	5
Survey and experimental research methodology	5
Case study and content analysis research methodology	5
Modelling and analysis of complex systems	5
Advanced skills for academic professionals	5

DRIG Portfolio of Courses: Main Thematic courses

LIST OF MAIN THEMATIC COURSES	ECTS
A transdisciplinary perspective on Big Data	5
Entrepreneurship and entrepreneurial finance	5
Sustainability of industrial systems	5
Innovation economics & management	5
Research challenges in production & service operations management	5
Research challenges in global value chain	5



POLITECNICO
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**An open, International
University promoting
Global Education**

International Exchanges @ SoM

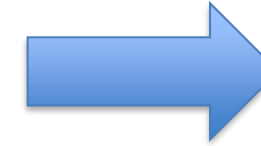
Strong commitment towards offering **ME** students diverse experiences abroad



- Incoming students:**
- **1120** students in the last 5 years
 - From **137** institutions



Our [International Network](#)



- Outgoing students:**
- **1034** students in the last 5 years
 - To **141** institutions

International Exchanges @ SoM

Standard “Erasmus” exchanges

Normally **1 semester** abroad (on average 30 ECTS credits)

More than **150** destinations worldwide

Both at **BSc** and **MSc** level

200+ outgoing students every year

International Alliances

Normally **1 year** abroad (depending on the programs), possibly in more sites

Alliance4Tech
UNITECH
QTEM

MS level

International Double/Dual Degrees

1,5 to 2 years abroad

- Intl. Double Degrees promoted by POLIMI (40+ programs), at BSc and MSc level
- Intl. Dual Degrees promoted by **SoM**-POLIMI, **only MSc** level

International Dual Degrees promoted by POLIMI-SoM

- **Dedicated programmes** for Mgt. Engineering MSc degree
- **5 positions** for each institution every year
- Approx **1 ½ years abroad** (80-90 credits)



International Alliances – UNITECH

- Up to **1 year** abroad, 1 site
- **3 weeks** through the year of shared experiences (in 3 other sites)
- Approx. **20 extra credits** to be done, in addition to standard credit load
- UNITECH **standard paths** in place, based on the partners' academic offerings
- Approx. 1-2 students from ME per year, based on **internal competition**



International Alliances – Alliance4Tech

- “**Free mobility**” idea: students can move among European campuses, while earning credits
- Based on a **2 semester abroad** approach
- Up to **10 positions for ME at MSC level**

ALLIANCE  TECH



International Alliances – QTEM

QTEM, Quantitative Techniques for Economics and Management: global **network** which aims to bring together outstanding students, Academic Partners and International Corporations.

Focus on developing skills in **analytical and quantitative techniques** to support decision making in an international context.

Based on a **two semester** international experience (different sites) + an **internship** in a partner company



Being an Exchange Student at Politecnico di Milano

Student Welcome and Support

- Exchange and double degree students are greeted at Politecnico during the **Welcome Week** through which they are initiated to their student experience at Politecnico <https://www.polimi.it/en/exchange-students-incoming/welcome-activities/>
- The **Studesk Office** supports them for their course registration and for any related matter
- Intl. Double degree students meet their Polimi **Academic advisor** available throughout their study period for guidance



Being an Exchange Student at Politecnico di Milano

Course Registration and Structure:

- In order to register for classes, students must fill out their **Study Plan on line**
- Exchange students' Study Plan must follow their **Learning Agreement**.
- Students **register for classes once they arrive**, not before
- Courses run by semester (Sept/Jan – Feb/July)
- Exchange students can enroll in **most Polimi classes**
- A full-time student enrolls for approx. **30 ECTS** credits
- **Attendance** is for the most part **not mandatory**
- Most ME courses are **open** (no caps on courses)
- Students must pay attention to class **location** – 7 Campuses



Being an Exchange Student at Politecnico di Milano

Final Examinations

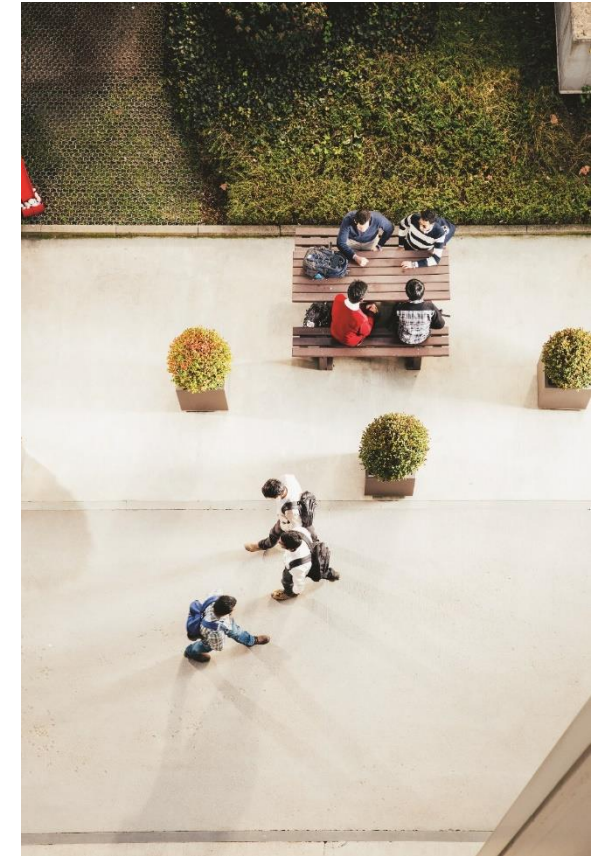
- Students **cannot** take exams for courses that are not included in their study plan
- In order to take an exam, students **must sign up** for it in advance.
- Exam Sessions take place five times a year: January, July, September, December, April
- Exams can be written, oral, or a mix. Some courses (e.g. labs) evaluate also assignments given during the semester
- A student can **refuse a grade** and try the exam again (following the provided exam calendar)
- Some courses might have a mid-term exam (Nov - May)



Being an Exchange Student at Politecnico di Milano

Exchange students find many ways of becoming part of the **Polimi Community**

- The **Buddy System** provides new intl. students with **peer support** for 3 months, helping them adapt to a new academic environment, and to a culture and traditions often distant from their own.
- There are numerous and diverse **Student Organizations**
<https://www.youtube.com/watch?v=No6ELD7aDmw>
- **ESN** Erasmus Student Network: provides information and support, organizes events, trips and more for exchange students



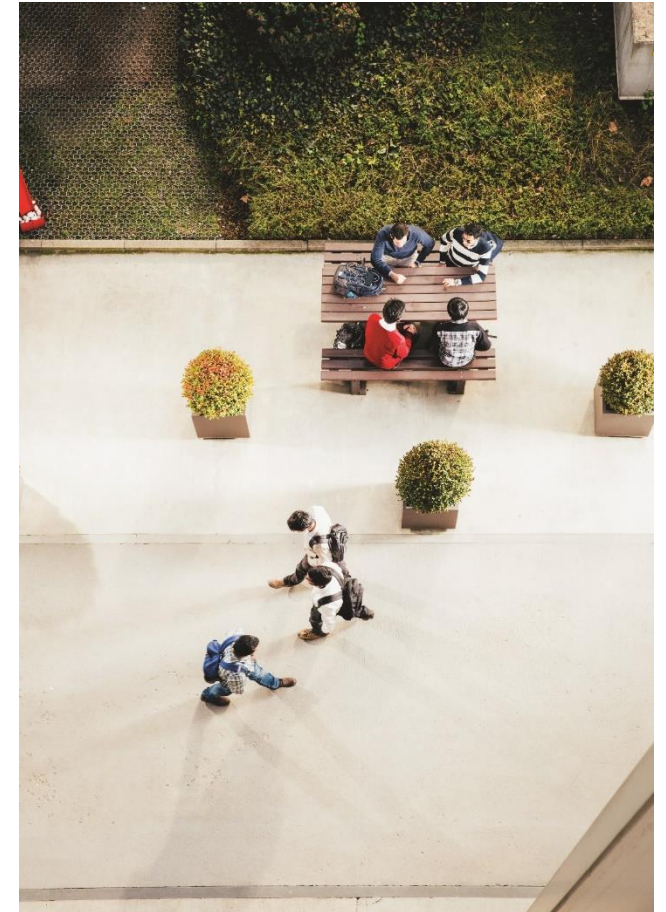
Being an Exchange Student at Politecnico di Milano

- Exchange students can also apply for **Housing at Politecnico (Residence Halls)**, offering multiple types of accommodations (limited spots available)

<http://www.residenze.polimi.it>

- **Polimi SPORT**: playgrounds, teams, tournaments. Strong participation and community spirit

<http://www.sport.polimi.it/>

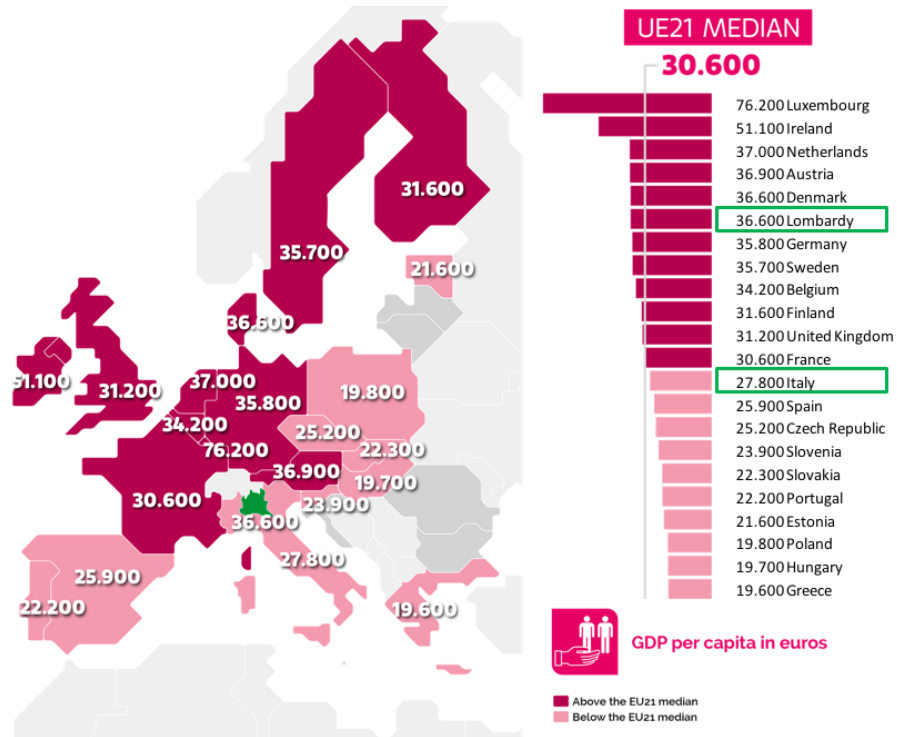


Being an Exchange Student at Politecnico di Milano

Students will have different living habits, so costs in Milan will vary significantly. The following prospect should therefore serve as a broad indication:

COST OF LIVING (MONTHLY)	
Housing	€ 350/650
Food	€ 150/200
Books & Study Materials	€ 40
Sports & Social Life	€ 80
Transportation (local)	€ 20
Phone	€ 10/30
GRAND TOTAL	€ 650/1020

Milan Today



Main city of the **Lombardy** region, described as the «Locomotive of Italy», at the heart of the **manufacturing system** that produces **21%** of Italy's GDP.

One of Europe's most important **financial** hubs, also the capital of **fashion** and **design**.

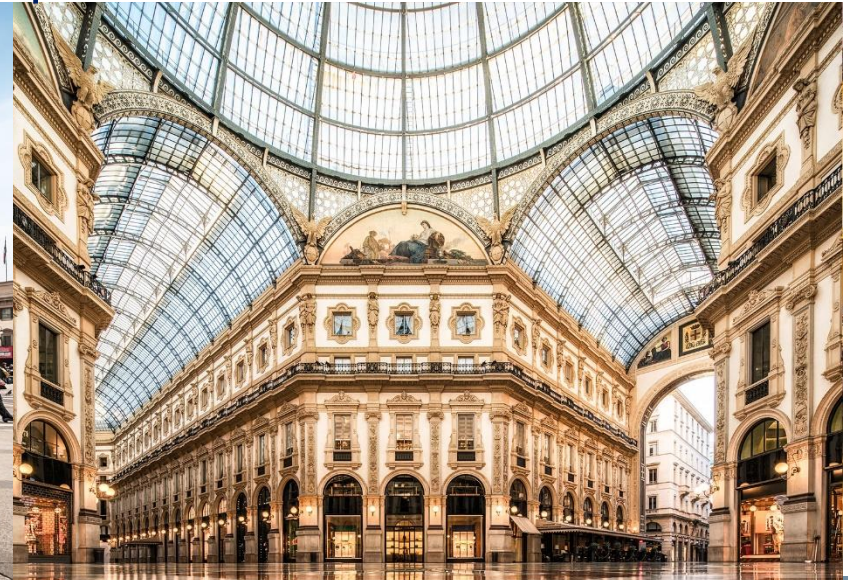
Today a force of **innovation** and experimentation, the best environment for **start-ups** and excellent technical innovation centre.

Milan Today



Living in Milan also means being exposed to a constant stream of **artistic** and **cultural** initiatives, along with an intense calendar of **entertainment** events

Milan today is one of the richest, most dynamic, multicultural cities in Europe



Contact us @

SoM - Department of Management Engineering International Exchanges and Mobility

exchangemanagement-dig@polimi.it

