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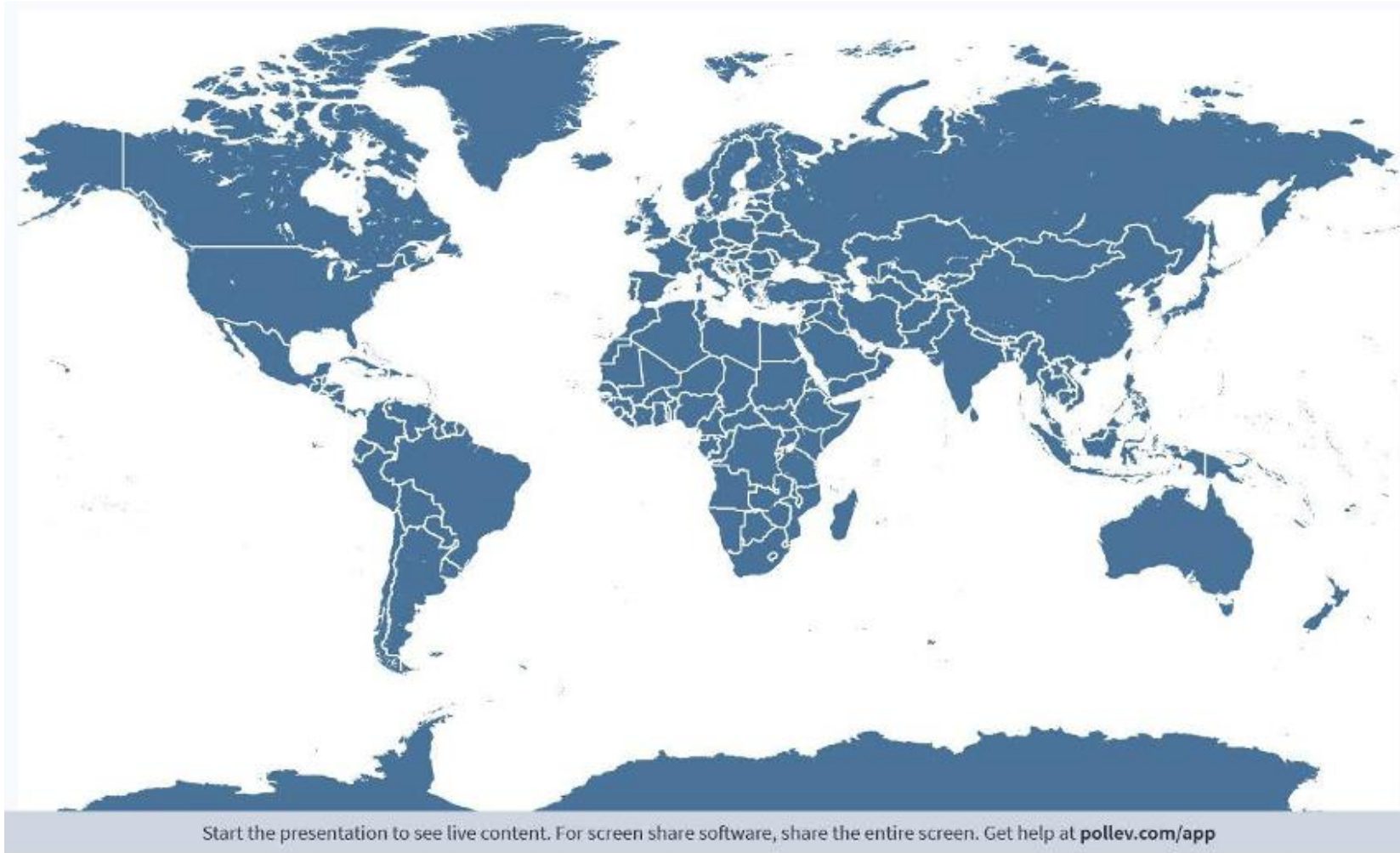
Mission

«To be a "European Leading University", capable of guiding research and scientific and technological innovation to improve human life in a sustainable and responsible way»

Over **1.500** professors and **1.200** administrative staff

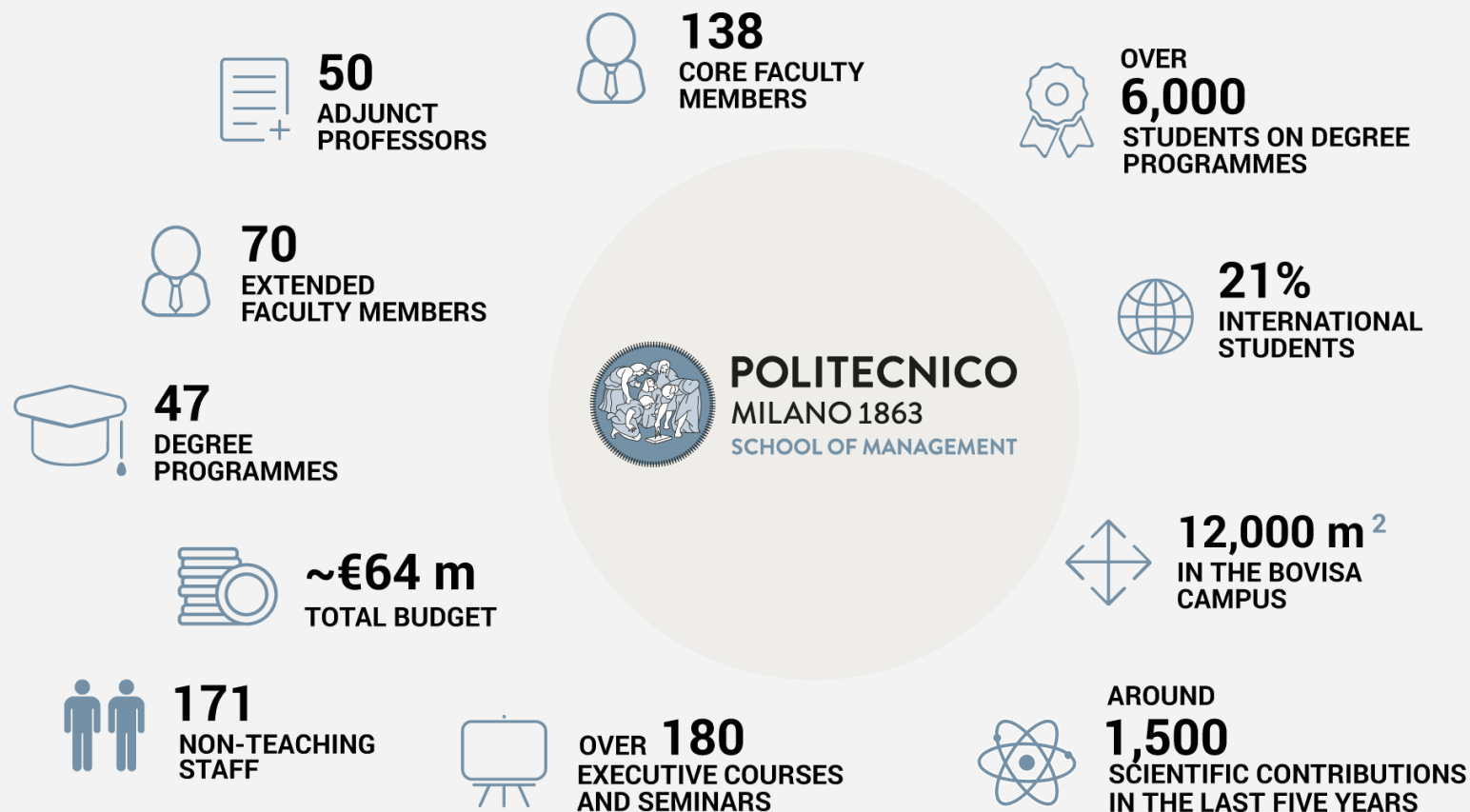Over **45.000** students

12 Departments

Schools of **Architecture, Design, Engineering**

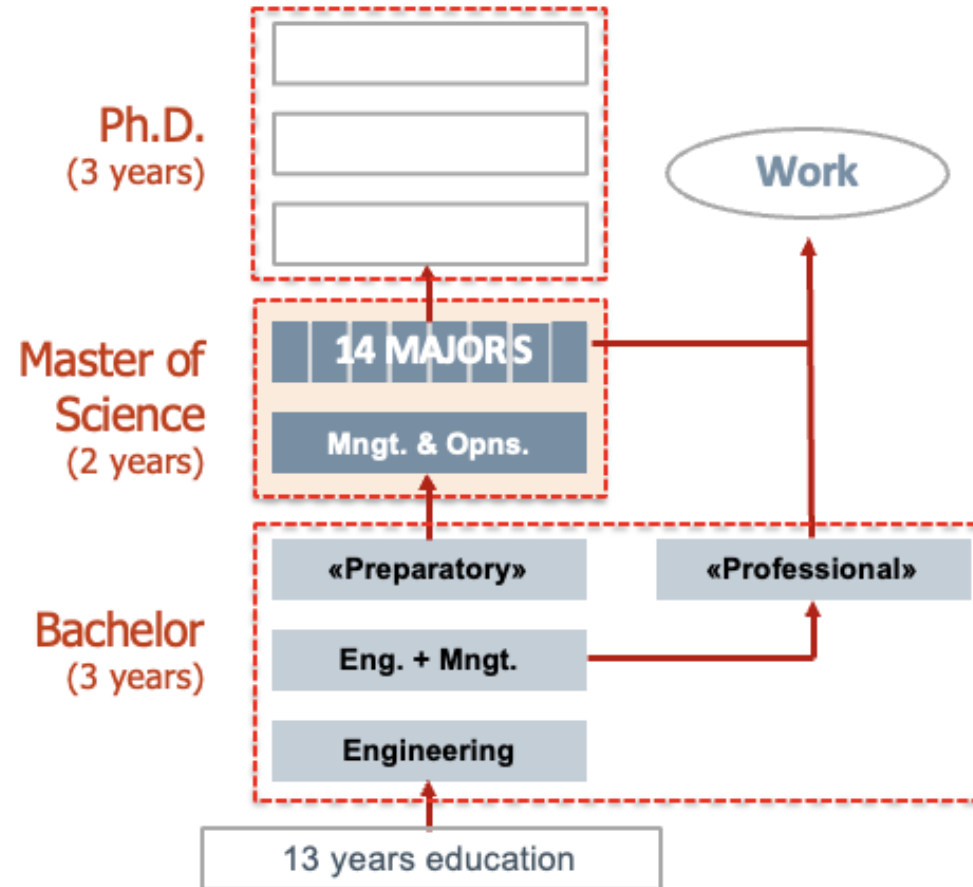Ranked **1st in Italy**, **7th in Europe**, **20th Worldwide**
QS World University Ranking 2021- Engineering & Technology

School of Management:

Mission: «To impact on society by creating and sharing knowledge at the intersection between engineering, management and economics»

50 ADJUNCT PROFESSORS

138 CORE FACULTY MEMBERS

OVER **6,000** STUDENTS ON DEGREE PROGRAMMES

70 EXTENDED FACULTY MEMBERS

21% INTERNATIONAL STUDENTS

47 DEGREE PROGRAMMES

POLITECNICO MILANO 1863 SCHOOL OF MANAGEMENT

~€64 m TOTAL BUDGET

12,000 m^2 IN THE BOVISA CAMPUS

171 NON-TEACHING STAFF

OVER **180** EXECUTIVE COURSES AND SEMINARS

AROUND **1,500** SCIENTIFIC CONTRIBUTIONS IN THE LAST FIVE YEARS

Management Engineering within the Italian Education context

Ph.D.
(3 years)

Master of
Science
(2 years)

14 MAJORS

Mngt. & Opns.

Work

Bachelor
(3 years)

«Preparatory»   «Professional»

Eng. + Mngt.

Engineering

13 years education

Duration	2 years
Calendar	Sept/Dic – Feb/Jun
Course size	5-15 ECTS
Workload	120 ECTS
Enrolments (≈)	850

Notes:
- Specific managerial competences based on a solid scientific and engineering background
- 15.000 graduates since the constitution in 1982
- Entirely taught in English
- Over 20% of International students
- Huge opportunities for experiences abroad through exchanges and double degree programs: over 25% of our students have experiences abroad
- Double degrees with other departments and other international universities

A number of different opportunities

- Access to one of the top universities worldwide
- A real international environment
- Campus and sport life (e.g. Hub of Student Activities - HSA)
- Deep-dive into concrete business   problems (Labs): interaction with industry
- Double Degrees with other deparments and other universities
- Opportunity to access our «Honours Programme»

Multimedia classroom to facilitate project activities on real problems proposed by companies (MEL1 & MEL2)
- Flexible layout and sofas to support both standard classes and group work activities
- Wi-Fi and Bluetooth video beamers to show multimedia contents of both teacher and students at the same time through computers, tablets, smartphones…
- Writable walls all over the room from floor to ceiling to stimulate creativity and expression
- Moving whiteboards to create cubicles

A number of different opportunities

- **Erasmus** and **extra-UE** agreements (Europe, USA, China, Australia, etc.)
- **Double Degree** programs (T.I.M.E.)
- **UNITECH:**
  - Politecnico di Milano (Italia)
  - Chalmers University of Technology (Svezia)
  - ETH Zurich (Svizzera)
  - INSA Lyon (Francia)
  - Loughborough University (Inghilterra)
  - RWTH Aachen University (Germania)
  - Trinity College (Irlanda)
  - Universitat Politecnica de Catalunya (Spagna)
- **IDEA League:**
- Politecnico di Milano (Italia)
- ETH Zurich (Svizzera)
- TU Delft (Olanda)
- Chalmers University of Technology (Svezia)
- RWTH Aachen University (Germania)

- **Alliance4Tech:**
  - Politecnico di Milano (Milano)
  - Technische Universitat Berlin (Berlino)
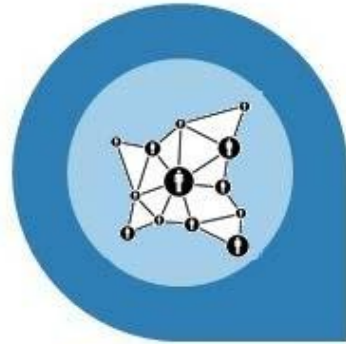 - CentraleSupelec (Parigi)
  - University College London (Londra)

Mentorship programme: The four pillars

Networking
Participate and build a network of friendly people who share your interests

Senior Mentorship
Develop a one-on-one relationship with a top professional of our SOM

Civic Responsibility
Learn to participate and become an agent for change in your community
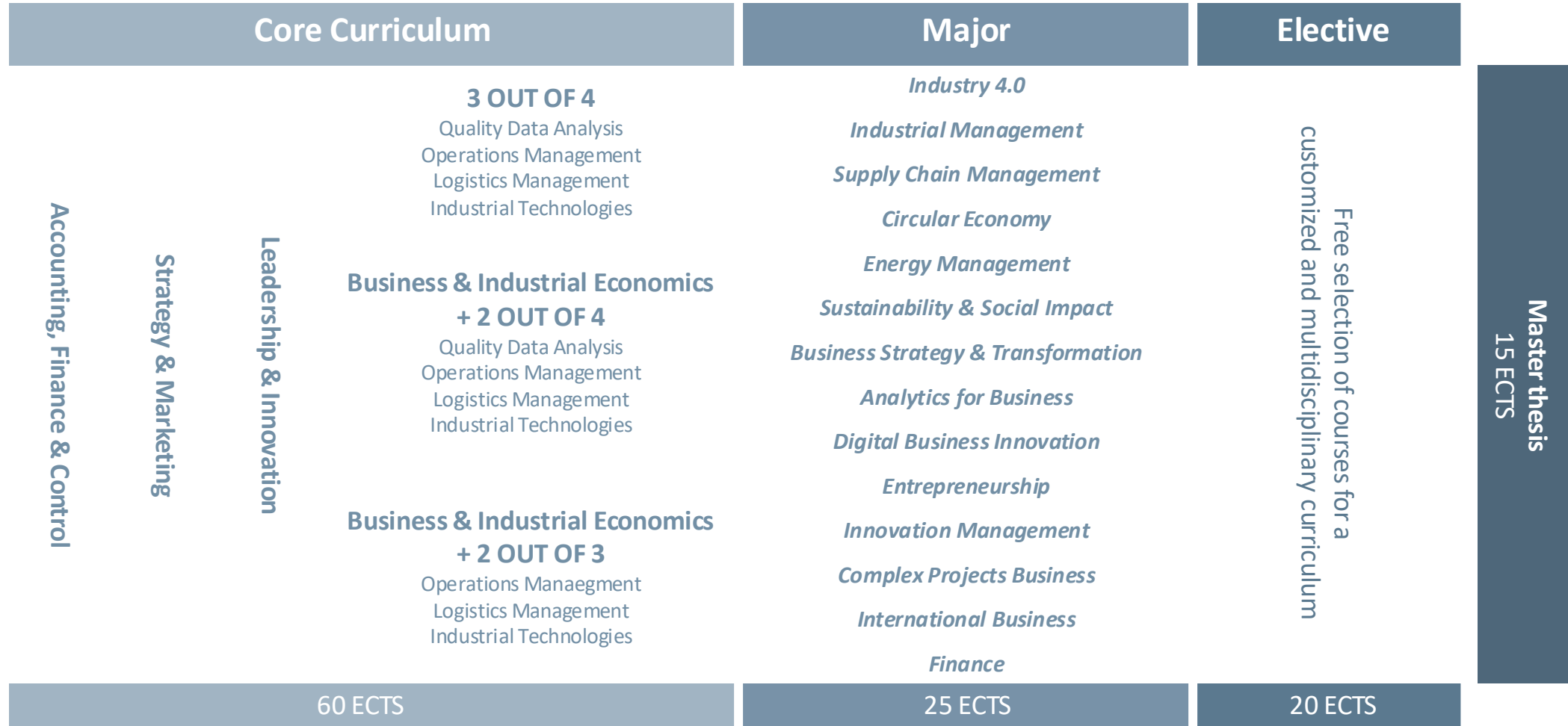
Active learning
Experience how to teach bachelor students while growing skills to equip you for your career

Intended Learning outcomes:
MASTER OF SCIENCE IN MANAGEMENT ENGINEERING

1. **Understand** challenges, functions, processes in a business and industrial environment and their mutual effects on business, economy, environment and society

2. **Identify** trends, technologies, key methodologies and stakeholder needs in a specific domain (specialization majors)

3. **Design** solutions applying a scientific and engineering approach (Analysis, Learning, Reasoning, and Modeling capability deriving from a solid and rigorous multidisciplinary background) coupled with participatory approaches to face problems and opportunities in a business, industrial and societal environment

4. **Develop** new ideas and transformative solutions to deliver positive impact on business, industrial and societal scenarios evolving over time

5. **Interact** in a professional, responsible, inclusive, effective and constructive way in a working environment, also motivating group members

MSc in Management Engineering overall structure

Core Curriculum	Major	Elective
3 OUT OF 4 Quality Data Analysis Operations Management Logistics Management Industrial Technologies **Business & Industrial Economics + 2 OUT OF 4** Quality Data Analysis Operations Management Logistics Management Industrial Technologies **Business & Industrial Economics + 2 OUT OF 3** Operations Manaegment Logistics Management Industrial Technologies	*Industry 4.0* *Industrial Management* *Supply Chain Management* *Circular Economy* *Energy Management* *Sustainability & Social Impact* *Business Strategy & Transformation* *Analytics for Business* *Digital Business Innovation* *Entrepreneurship* *Innovation Management* *Complex Projects Business* *International Business* *Finance*	Free selection of courses for a customized and multidisciplinary curriculum
60 ECTS	25 ECTS	20 ECTS

Accounting, Finance & Control

Strategy & Marketing

Leadership & Innovation

Master thesis 15 ECTS

MAJOR: Industry 4.0

The Major Industry 4.0 aims to provide students with a set of advanced competences to understand and leverage the connections between manufacturing, management and digital technologies. Students will have the opportunity to learn how to deal with the 4th industrial revolution in terms of technologies, markets, management and business models.

Lab:	
• Smart Manufacturing Lab (ING-IND16/17)	10
• Digital Manufacturing (ING-IND17) • Industrial Automation and Robotics (ING-INF/04)	10
• Manufacturing Systems Engineering I (ING-IND16) • Additive Manufacturing (ING-IND16)	5
Total	**25**

Contact Details
Prof. Marco Taisch: marco.taisch@polimi.it
Prof.ssa Bianca Maria Colosimo: biancamaria.colosimo@polimi.it

MAJOR: Industrial Management

Contact Details
Prof. Alberto Portioli: alberto.portioli@polimi.it

The Major Industrial Management aims to provide students with a systemic and integrated view of the industrial processes of a service or manufacturing company, including the relationships with customers and suppliers. Students will learn how to deal with production, planning, purchasing, quality, logistics etc. in order to create and maintain competitive advantage.

Lab: • Industrial Management Lab and Toolbox (ING-IND17)	15
• Smart Maintenance Management (ING-IND17) • Operations Risk Management and Resilience (ING- IND17)	5
• Industrial Asset Management (ING-IND17) • Agile Project Management (ING-IND17) • Quality Management (ING-IND17)	5
Total	**25**

MAJOR: Supply Chain Management

Contact Details
Prof. Andrea Sianesi: andrea.sianesi@polimi.it
Prof. Federico Caniato: federico.caniato@polimi.it

The Major Supply Chain Management aims to provide students with the set of advanced competences and skills required to manage global supply chains, from the definition of the strategy to its execution, through the processes of plan, source, make, and deliver. Students will learn how to manage sustainability, innovation and finance from a supply

•Advanced Supply Chain Planning Lab (ING-IND/17) • Supplier Relationship Management Lab (ING-IND/35)	10
• Supply Chain Management (ING-IND/17-35)	5
•Purchasing and Supply Management (ING-IND/35) •Global Supply Chain Planning (ING-IND/17) •International Distribution (ING-IND/17) •Supply Chain Innovation (ING-IND/17) •Global Supply Chains and Networks (ING-IND/35) •Green Logistics (ING-IND/17)	10
Total	**25**

MAJOR: Circular Economy

The Major Circular Economy aims at introducing students to circularity as a strategic framework to induce a transition towards sustainable production and consumption in the context of climate change mitigation strategies. Students will learn how to model, analyse, restructure and develop new industrial systems leveraging on circular economy strategies.

Lab: • Circular Economy Lab (ING-IND/ 17 e 35)	10
• Circular Industrial Systems (ING-IND/17) • Circular Economy Business Models (ING-IND/35) • Sustainable Manufacturing (ING-IND/17) • Green Logistics (ING-IND/17)	15
Total	**25**

Contact Details

Prof. Paolo Trucco: paolo.trucco@polimi.it

Prof. Davide Chiaroni: davide.chiaroni@polimi.it

MAJOR: Energy Management

The Major Energy Management aims to provide students a systemic view of the profound transformation of the global energy sector, in the transition from fossil-based to zero-carbon. Students will learn how to deal with current trends and future scenarios in energy production and consumption, and their implications for the long-term competitiveness of companies.

Lab: • Energy Management Lab (ING-IND/ 17 e 35)	10
• Management of Energy (ING-IND/35)	5
• Fundamentals of Energy Technologies (ING-IND/10) • Circular Economy Business Models (ING-IND/35) • Technology Risk Governance (ING-IND17) • Strategic Innovation (ING-IND/35) • Diritto dell'Energia (IUS/10)	10
Total	**25**

Contact Details
Prof. Vittorio Chiesa: vittorio.chiesa@polimi.it
Prof. Paolo Trucco: paolo.trucco@polimi.it

MAJOR: Sustainability and Social Impact

The Major Sustainability and Social Impact aims to get students acquainted with the societal challenges, the new economic paradigms and the technological breakthroughs that are giving rise to the purpose-driven economy. Students will learn how to develop and implement managerial and innovation models, strategies, finance and investing solutions for purpose, sustainability and impact.

Contact Details
Prof. Raffaella Cagliano: raffaella.cagliano@polimi.it
Prof. Mario Calderini: mario.calderini@polimi.it

Lab: • Sustainable and Social Innovation Lab (ING-IND/35)	10
• Management for Sustainability and Impact (ING- IND/35) • Collaborative Innovation for Sustainability and Impact (ING-IND/35)	10
• Sustainable Manufacturing (ING-IND/17) • Innovation in Health and Social Care (ING-IND/35) • Policy Design and Evaluation (SPS/04) • Global Environmental Challenges (ING-IND/35)	5
Total	**25**

MAJOR: Business Strategy & Transformation

The Major Business Strategy and Transformation aims to provide students the required competences and tools to deal with corporate and business transformations portraying strategic innovation and organizational change. Students will learn how to addresses these complex processes, through a design mindset that enacts sense making through problem solving.

Lab:	
• Business Design and Transformation Lab (ING-IND/35 e ICAR/13)	10
• Strategic Innovation (ING-IND/35)	5
• Agile Innovation (ING-IND/35) • Corporate Finance (ING-IND/35) • Design Thinking for Business (ING-IND/35) • Digital Business (ING-IND/17) • New Forms of Organization (ING-IND/35)	10
Total	**25**

Contact Details

Prof. Tommaso Buganza: tommaso.buganza@polimi.it

Prof. Federico Frattini: federico.frattini@polimi.it

MAJOR: Analytics for Business

Contact Details
Prof. Michela Arnaboldi: michela.arnaboldi@polimi.it
Prof. Giuliano Noci: giuliano.noci@polimi.it

The Major Analytics for Business approaches general management with an enhanced data-powered and market-oriented perspective. Students will learn how to analyze data through the proper tools and models, detect, organize and communicate indicators and dashboards for decision support, and turn the information into a solid, accountable, value-driven business strategy.

Lab: • Analytics for Business Lab (ING-IND35 e SECS-S01)	10
• Applied Statistics (SECS-S01) • Marketing Analytics (ING-IND35) • Advanced Performance Measurement (ING-IND35)	15
Total	**25**

MAJOR: Digital Business Innovation

Contact Details

Prof. Andrea Rangone: andrea.rangone@polimi.it

Prof. Mariano Corso: mariano.corso@polimi.it

Prof. Riccardo Mangiaracina:
riccardo.mangiaracina@polimi.it

The Major Digital Business Innovation aims to provide students with a comprehensive and critical understanding of the business impact of Digital Technologies, from the strategic, entrepreneurial and organizational perspectives. Students will learn how to interpret current trends and future scenarios regarding Digital Technologies and identify and leverage on the related business opportunities.

Lab: • Digital Business Lab (ING-IND 35)	10
• Digital Business (ING-IND 17)	5
• Digital Manufacturing (ING-IND/17) • New Forms of Organization (ING-IND/35) • Omnichannel Marketing Management (ING-IND/35) • Economics of Innovation and New Technologies (ING-IND/35) • Agile Innovation (ING-IND/35) • Machine Learning (INF/01) • Digital Technology (ING-INF/05)	10
Total	**25**

MAJOR: Entrepreneurship

Contact Details
Prof. Massimo Colombo: massimo.colombo@polimi.it
Prof. Andrea Rangone: andrea.rangone@polimi.it

The Major Entrepreneurship aims to provide students with a comprehensive understanding of the challenges and success factors in launching a new business (i.e., a new venture, a new business unit within an existing corporations). Students will learn how to develop the business model of an entrepreneurial idea, and how to launch and manage a new business.

Lab: • Entrepreneurship Lab (ING-IND/35)	10
• Digital Business (ING-IND/17) • Entrepreneurship Economics (ING-IND/35) • Entrepreneurial Finance (ING-IND/35) • Patents and Intellectual Property Management (ING- IND/35) • Family Business (ING-IND/35) • Design Thinking for Business (ING-IND/35)	15
Total	**25**

MAJOR: Innovation Management

The Major Innovation Management aims to provide students with the competences required to design, develop, test and implement innovation projects for seizing new business opportunities and facing emerging trends. Students will learn how to use skills of agile project management, Intellectual Property management, corporate finance, product lifecycle management needed to manage innovation.

Contact Details
Prof. Massimo Colombo: massimo.colombo@polimi.it

Lab: • Innovation in Action Lab (ING-IND/35+17)	10
• Economics of Innovation and New Technologies (ING- IND/35)	5
• Agile Project Management (ING-IND/17) • Patents and Intellectual Property Management (ING- IND/35) • Product Life Cycle Management (ING IND/17) • Corporate Finance (ING-IND/35) • Digital Business (ING-IND 17) • Design Thinking for Business (ING-IND/35)	10
Total	**25**

MAJOR: Complex Projects Business

Contact Details
Prof. Paolo Trucco: paolo.trucco@polimi.it

The Major Complex Projects Business aims to introduce students to the Project Economy, developing a holistic background about the selection, planning and delivery of Complex projects. Students will learn how to deal with stakeholder involvement, cost and benefit evaluation, technology and operations-related decisions along the project lifecycle.

Lab: • Complex Projects Lab (ING-IND/17)	10
• Project Management (ING-IND/17)	5
• Financing Complex Projects (ING-IND/35) • Knowledge Management in Infrastructure Projects (ICAR/11) • International Markets and European Institutions (SECS- P/02) • Industrial Asset Management (ING-IND/17) • Technology Risk Governance (ING-IND17)	10
Total	**25**

MAJOR: International Business

Contact Details
Prof. Lucia Piscitello: lucia.piscitello@polimi.it
Prof. Lucia Tajoli: lucia.tajoli@polimi.it

The Major International Business aims to introduce students to the challenges related to globalization and international competition. Students will learn how to manage firms operating in the global market and understand the different internationalization processes of an enterprise within the international socio-economic and business environment.

Lab: • Invest in Foreign Markets Lab (ING-IND/35)	10
• International Economics (SECS-P/02) – C.I. 5+5 • Economics and Management of Multinational Enterprises (ING-IND/35) • International Markets and European Institutions (SECS- P/02) • Development Economics (ING-IND/35, SECS-P/01)	15
Lab: • Invest in Foreign Markets Lab (ING-IND/35)	10
Total	**25**

MAJOR: Finance

Contact Details
Prof. Marco Giorgino: marco.giorgino@polimi.it
Prof. Giancarlo Giudici: giancarlo.giudici@polimi.it

The Major Finance will provide students with comprehensive understanding of the financial systems and the role of finance within industrial and financial corporations. Students will develop advanced knowledge about corporate financing practices and strategies, financial markets, institutions and intermediaries, financial securities and their evaluation tools, fintech and sustainable finance.

Lab: • Finance Lab (corso integrato 5 + 5 ING-IND/35)	10
• Corporate Finance (ING-IND/35) • Macroeconomics of Finance (SECS/P01) • Financial Markets & Institutions (ING-IND/35)	15
Lab: • Finance Lab (corso integrato 5 + 5 ING-IND/35)	10
Total	**25**

PoliMI Ambassador in Green Technologies

Starting with the 2021-2022 academic year, the professional profiles in **Green Technologies** will be active as part of the MSc in Management Engineering
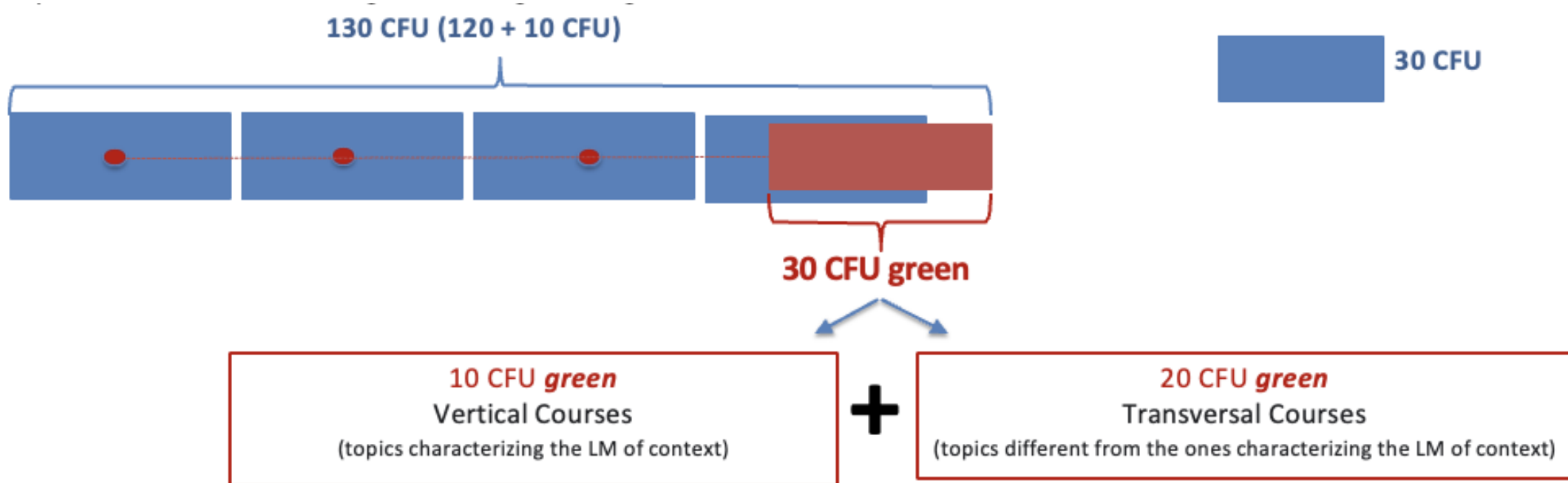
The PoliMI Ambassador in **Green Technologies** certification will be reported in the Student's Diploma Supplement and an electronic badge will be issued by Politecnico di Milano.

Admissions

The   application process is performed through the   online   system   (servizi   on line):
https://www.polimi.it/en/international-prospective-students/

- Admission requirements:
  - Graduation at the Bachelor in no more than four academic years from initial enrolment, i.e. before April 30th of the fifth year after the first enrolment (e.g. October 2016 - April 30th 2021)
  - Adjusted admission threshold* (some integrative exams might be due for students coming from the applicative curriculum):
  - Engineers graduated from PoliMI: 23 + (N-3)/2
  - Architects and Designers graduated from PoliMI: 26 + (N-3)/2
  - Engineers from other Italian universities: 26 + (N-3)/2
  - Other graduates from other Italian universities: 27 + (N-3)/2

  N = number of years required to achieve the Bachelor starting from the first enrollment
  (e.g. 7 semesters ▤ N=3,5)

- Timeline and procedure for application: https://www.polimi.it/en/international-prospective-students/laurea- magistrale-programmes-equivalent-to-master-of-science/application-procedures/application/

- Please, make 1 application only for management engineering (there is no difference in the application process for the different majors)

Main employers
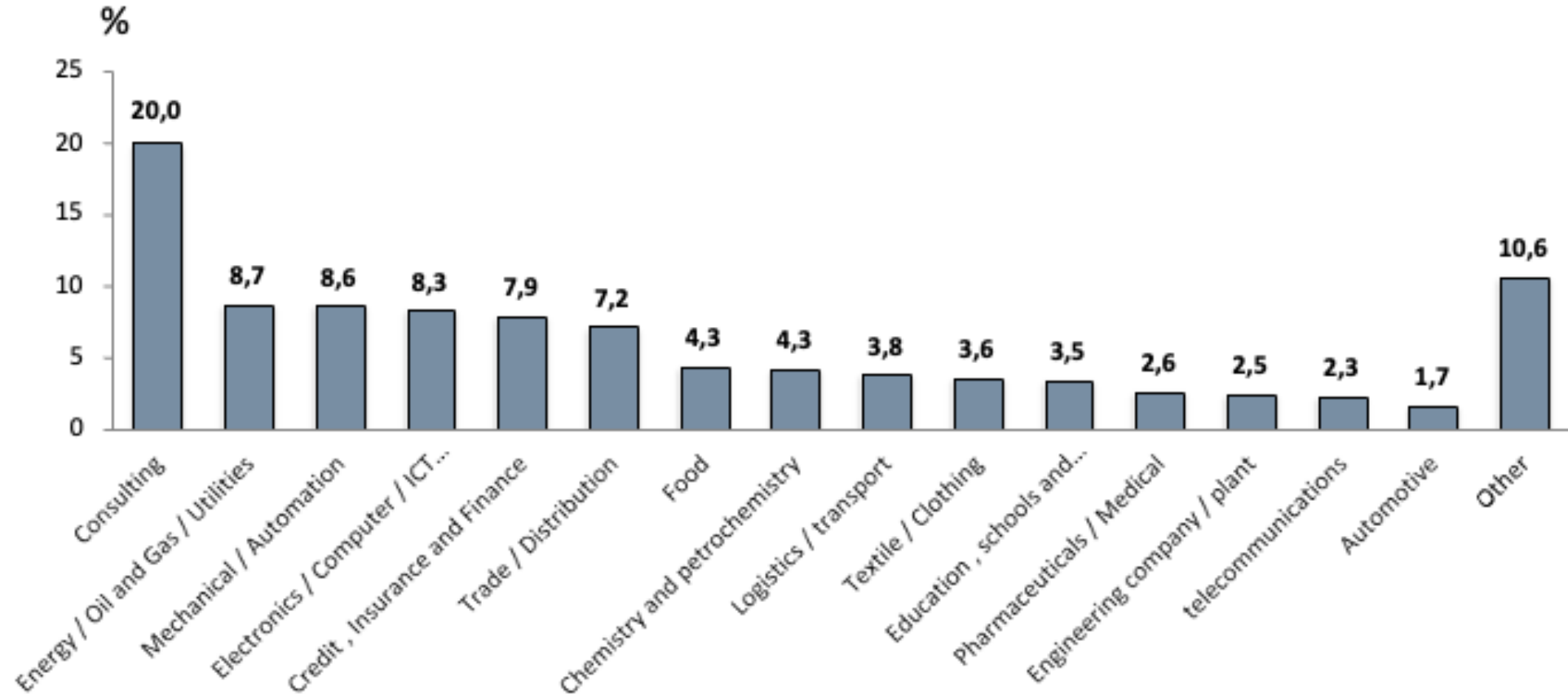
Main jobs
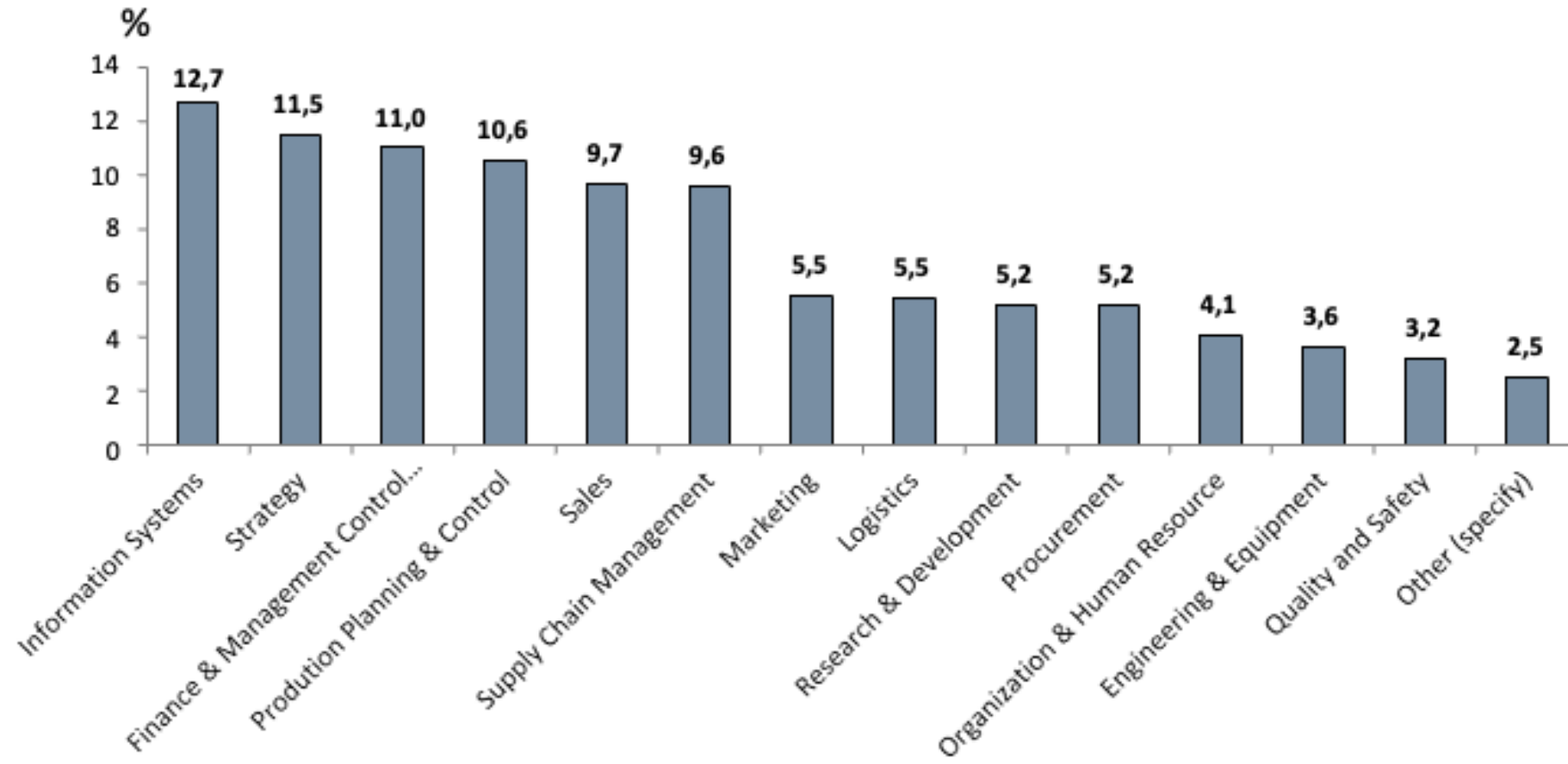
Placement data

MANAGEMENT ENGINEERING

WHAT IS THE EMPLOYMENT SITUATION OF MANAGEMENT ENGINEERING GRADUATES 5 YEARS AFTER GRADUATION?

The following data has been extracted from the 2020 Employment Survey on 2014 Graduates, inteviewed 5 years from graduation. Full details on the website **http://cm.careerservice.polimi.it/en/employment-statistics/**
In 2014, 435 Italian students obtained a Master's degree in Management Engineering at Politecnico di Milano. Total respondents to the survey were 234 (coverage rate 54%).

EMPLOYMENT RATE

100% HAS INCREASED BY 7%*

NET MONTHLY SALARY

€2,301

HAS INCREASED BY €681*

PERMANENT CONTRACT

95% HAS INCREASED BY 40%*

WORK IN ITALY

85% HAS DECREASED BY 9%*

SATISFIED WITH SPECIFIC DEGREE: 92%
Education and training acquired at the university is adequate for the current job

DEGREE FITS WORK: 88%
In order to carry out their job, they need their qualification or an equivalent one

* Compared to data from survey submitted 1 year from graduation
** Standard deviation 630

WHAT HAVE MANAGEMENT ENGINEERING GRADUATES DONE IN THESE 5 YEARS?

26%
HAVE WORKED ABROAD FOR AT LEAST 6 MONTHS (UK, SWITZERLAND, GERMANY)

14%
HAVE OBTAINED A NEW DEGREE WHILE WORKING OR BEFORE
9% POST MASTER DEGREE | 5% PHD

4%
HAVE FOUNDED A START-UP

THEY HAVE CHANGED THEIR JOB AN AVERAGE OF 1.7 TIMES

MAIN REASONS:

PROFESSIONAL GROWTH	47%
BETTER PAY	20%
TO CHANGE SECTOR/ PROFESSION	15%

THEY HAVE IMPROVED THEIR PROFESSIONAL SITUATION:

ECONOMICALLY	87%
BY DEVELOPING SOFT SKILLS	79%
BY ACCESSING A BETTER POSITION IN THE ORGANIZATION	71%

Grazie per l'attenzione