



‘MADE **AND EDUCATED** IN ITALY’



ITS High Technological Academies

An excellent alternative to university for tertiary education.





WHAT IS A HIGHER TECHNOLOGICAL INSTITUTE?



Istituto Tecnico Superiore

ITS

MOBILITÀ SOSTENIBILE.
AEROSPAZIO/MECCATRONICA

Higher Technological Institutes (known in Italy with the acronym ITS Academy) are **schools of excellence characterized by high technological specialization** in areas considered strategic for national economic development and competitiveness. .

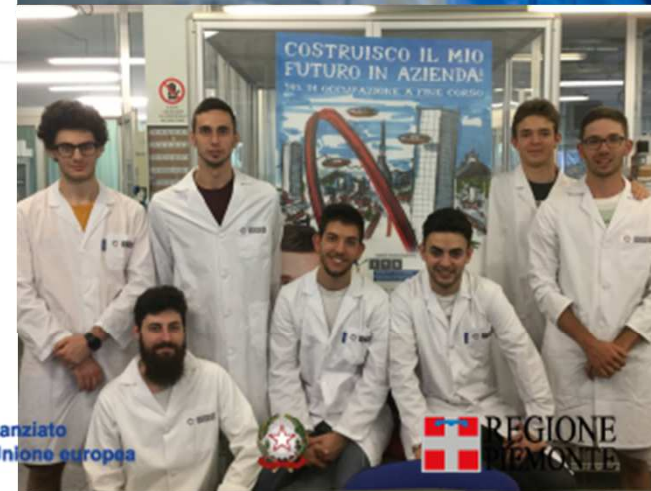
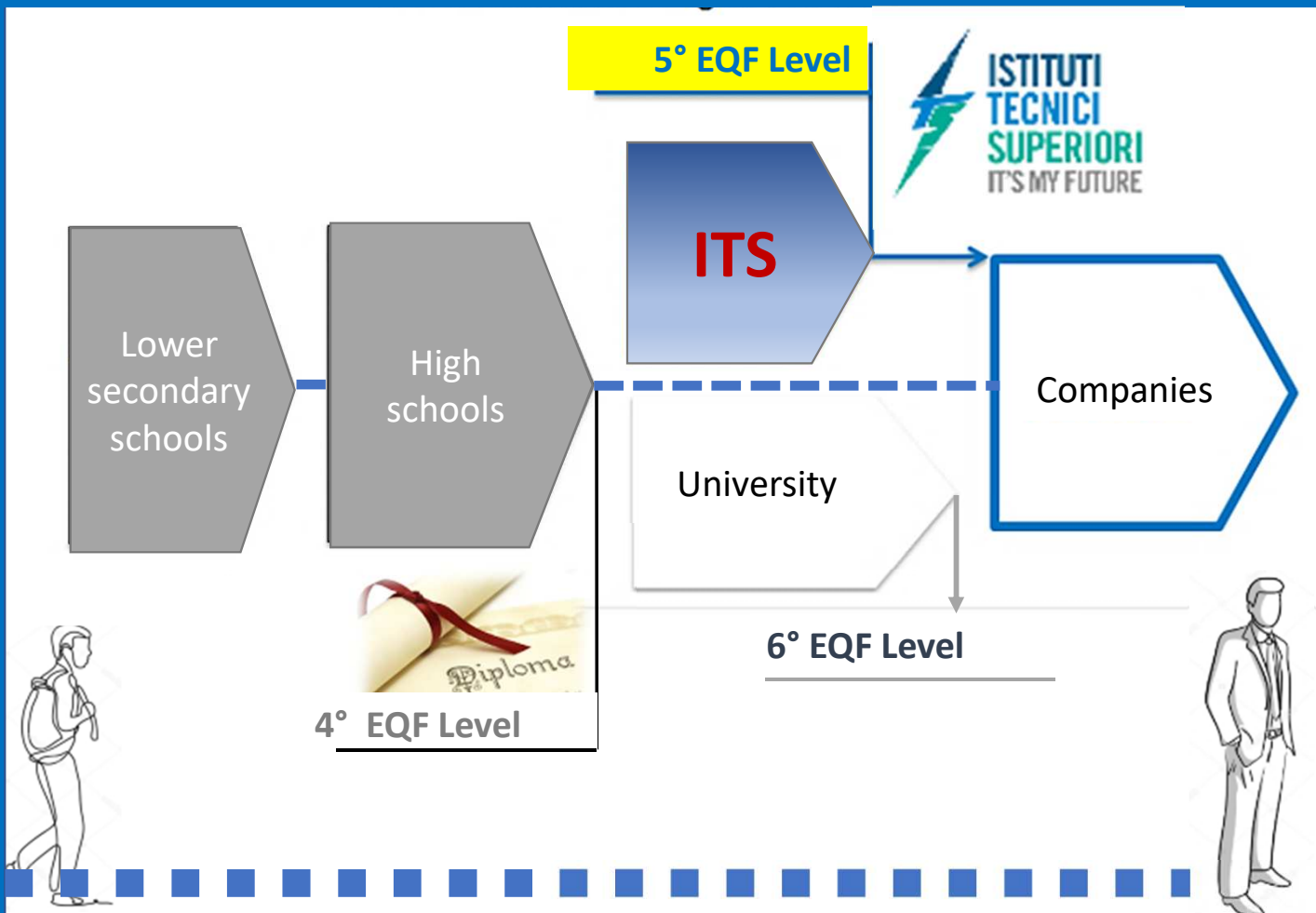


They represent an **opportunity of utmost importance** in the Italian education system as an expression of **a new strategy** that combines education, training and work policies with the country's industrial policies.

They are the response to the current demand for new and advanced technical skills needed by companies to apply innovation and technology transfer processes, summarized by the concept of **“Smart Specialization”**



Postgraduated Technological Specialisation



Age



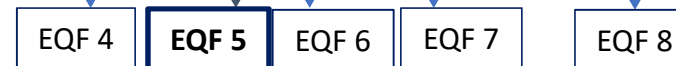
5 YEARS	3 YEARS	5 YEARS	5 YEARS	3 YEARS
PRIMARY SCHOOL <i>Scuole Elementari</i>	MIDDLE SCHOOL <i>Scuole Medie</i>	HIGH SCHOOL <i>Scuola Superiore</i>	UNIVERSITY <i>Laurea Magistrale</i>	PHD <i>Dottorato</i>
			3 YEARS <i>Laurea Triennale</i>	
			2 YEARS ITS	



5 YEARS	3 YEARS	5 YEARS	5 YEARS	3/6 YEARS
PRIMARY SCHOOL <i>Ecole Primaire</i>	MIDDLE SCHOOL <i>Collège</i>	HIGH SCHOOL <i>Collège technique/Lycée</i>	UNIVERSITY <i>Master</i>	PHD <i>Doctorat</i>
			3 YEARS <i>Licence</i>	
			2 YEARS BTS	



4 YEARS	9 YEARS		5 YEARS	3 YEARS
PRIMARY SCHOOL <i>Grundschule</i>	MIDDLE SCHOOL- HIGH SCHOOL <i>Gymnasium</i>		UNIVERSITY <i>Master</i>	PHD <i>Promotion</i>
	4/6 YEARS <i>Realschule</i>		3 YEARS <i>Bachelor</i>	
	5 YEARS <i>Hauptschule</i>		2 YEARS <i>Fachhochschule</i>	



TECHNOLOGICAL AREAS

Higher Technological Institutes train Engineering

Technicians in **the 6 Technological Areas**

considered strategic for national

economic development and

competitiveness



- Energy



- **Logistics and Sustainable Mobility.**



- Chemistry and new life technologies.



- Agri-food systems.



- Home and Built Environment System.



- **Services for enterprises and non-profit institutions.**



- **Mechatronics**



- ICT Technologies

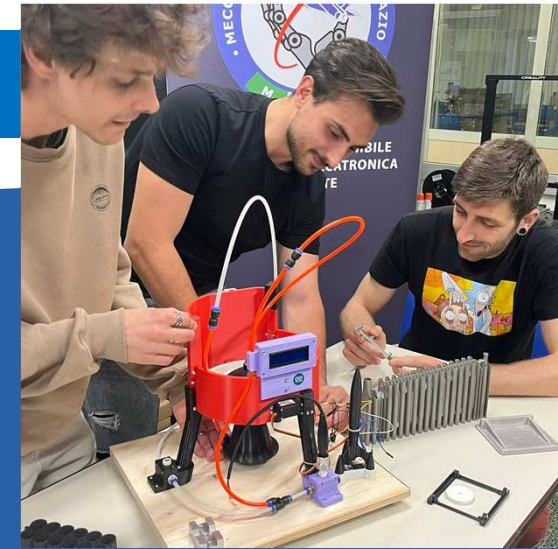


- Culture and Tourism



- Fashion.

HOW IT WORKS



IT'S ACADEMY

2 YEARS

1800/2000
(900 hours/year)

LIMITED ENROLEMENT

(30 students max/course)

ATTENDANCE

Mandatory

DAYTIME

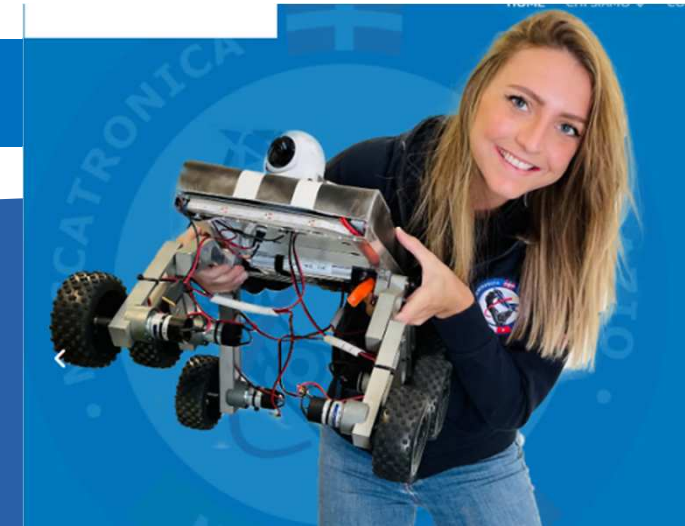
8h/day
Monday-Friday

EXPERIENCE IN COMPANIES

- high apprenticeship
- Curricular internship
- ERASMUS

HOW TO ACCESS

IT'S ACADEMY



HIGH SCHOOL DIPLOMA

ADMISSION TEST

CURIOSITY, PASSION,
DISCIPLINE

ITS – System of Funding

ITS courses are funded by the European Social Fund, the Ministry of Education, and individual Italian regions.

In Piedmont ITS Courses are totally free of charges for participants as they're entirely financed by the Ministry of Education and the Piedmont Region through POR FSE.

Top Tips
A minimum of 30 per cent of costs must be financed by the regions, **but the Piedmont region has financed up to 90 per cent of its own.**

PNRR

National Recovery and Resilience Plan - measures for Education -, starting with the 2024/2026 biennium, cover entirely costs for students

ENGINEERING TECHNICIAN DIPLOMA

After passing the final exam, students obtain the **Specialization Diploma for Applied Technologies**, a certificate corresponding to level V/VI of the European Qualifications Framework (EQF), which allows access to public competitions (pursuant to the Decree of the President of the Italian Council of Ministers 25/01/2008).

Moreover, some of the training modules can be translated into **University Credits**, in case a student wishes to continue their study career.

To facilitate circulation at national and European level, the diploma is issued together with the **EUROPASS diploma supplement**.





SUSTAINABLE MOBILITY-AEROSPACE-MECHATRONICS *Since 2010*



Istituto Tecnico Superiore

I T S

MOBILITÀ SOSTENIBILE.

AEROSPAZIO/MECCATRONICA

1°
ITS
IN ITALIA



Stefano Serra - PRESIDENT of the Foundation
Chief Executive Officer & Managing Director - TESEO S.p.A - EES CLEMESSEY Italy,

Vice President of FEDERMECCANICA – (Italian federation of metallurgical and mechanical trade unions), President of Takeoff Accelerator





Members of our ITS

ITS Academies are not-for-profit organizations in the legal form of Foundations that count among their members companies, universities/research centres, local authorities, education and training institutions.

Local Authorities
Corporate Association



Universities and
High Technical Institutes



Companies

VET providers
Innovation Hubs





Some numbers...

650 Students → **12** Courses I Year, **11** Courses II Year

+450 companies have collaborated with us

→ **+250** companies currently collaborates with our students

+90% Corporate teaching **98%** of employment at the end of the course





Training Areas

MECHATRONICS, AEROSPACE, E-MOBILITY



Industry 4.0 and Robotics
Embedded Mechatronics



Aeronautics



E-mobility



Space Testing and Systems

INTEGRATED PRODUCTION SYSTEMS

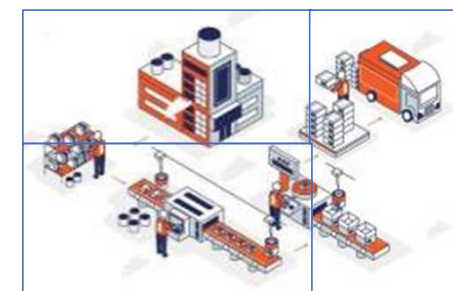


Digital manufacturing



Additive manufacturing

SUSTAINABLE MOB., TECHNICAL SALES



Logistics and Sustainable Mobility

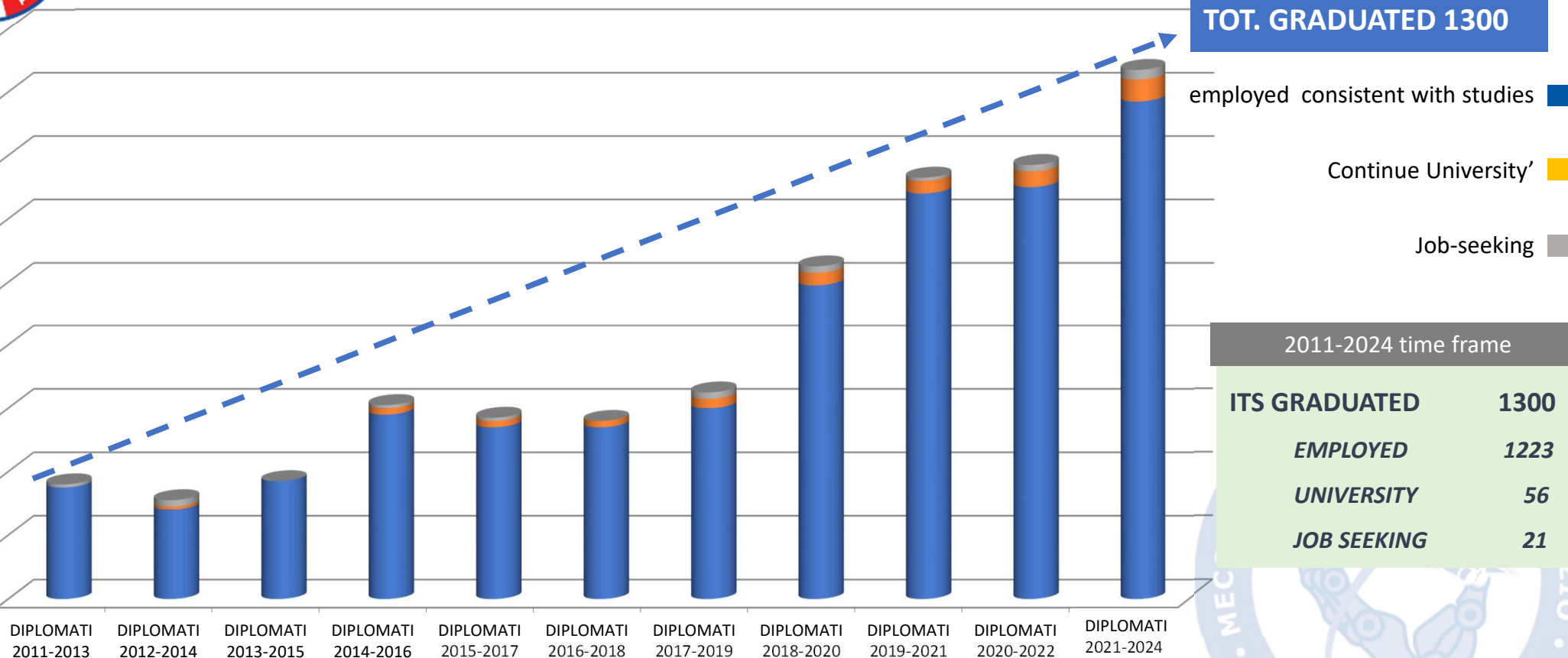


Marketing and Internationalisation



ALUMNI DATA OVER YEARS 2011-2024

TOT. GRADUATED 1300



2011-2024 time frame

ITS GRADUATED	1300
<i>EMPLOYED</i>	<i>1223</i>
<i>UNIVERSITY</i>	<i>56</i>
<i>JOB SEEKING</i>	<i>21</i>





1st YEAR Course – 900 hours

900 hours of Course/Training + **150** hours *'EMPOWERMENT PROGRAMS'*

Specific Insights propedeutic to enter the company (Internship or AAF)



October 2024

Dec 2024

Feb 2025

July 2025

Basic Training

Specialized Training

- EDUCATIONAL REALIGNMENT
- ENTRY COMPETENCES TESTS

LAB AND WORKSHOP BY AND IN CO-OPERATION WITH COMPANIES

MULTIDISCIPLINARY PROJECT

*WE GIVE YOU CONTENTS BUT YOU HAVE THEN TO APPLY THEM TO A REAL PROJECT
From CONTENT to CONTEXT*

PILLARS:

- WORKSHOPS
- 'GODMOTHER' Company
- Technical MENTOR
- Corporate Teaching





2nd YEAR Course – 900 hours

250 hours of Course + **650** hours **INTERNSHIP** or **750** hours **Higher Education Apprenticeship**





2nd YEAR Course



**Higher Education
Apprenticeship**



A successful experience of Dual
Apprenticeship





Higher Education Apprenticeship in Italy



Higher Education Apprenticeship is an **open-ended employment contract** aimed at training and employing young people between 18 and 29 years of age



In view of the need to **provide companies with highly qualified young people**, capable of improving their innovation drive, we plan advanced training apprenticeships for the acquisition of the professional degree programmes, 5th level Diploma



This learning path feature **an intense cooperation between ITS and companies**. By emphasising work as a learning process, it contributes to the development of skills that really meet the specific needs of the economic system, in line with the skill requirements expressed by companies in Piedmont.



Our Experience

2018 -----> 2024

+ 400

Higher Education Apprenticeship Contracts completed

+ 380

Companies have confirmed successfully at the end of AAF



1----Companies: *a long-lasting legacy*



UNIONE INDUSTRIALI
Torino



ASSOCAM
SCUOLA CAMERANA



A 60-year-long history in Piedmont



Industrial Union Turin



Promote, and protect: The interests of industry, representing and assisting it vis-à-vis the Authorities, Administrations and Economic and Trade Union Organizations

Let it know: To the public the point of view and the appraisals of the entrepreneurial world

Promote: Dissemination of business and market culture.

Ensure: The best services of advising and assistance to the enterprises, also in coordination with the other components of the confederal system

Cooperate: With other public and private bodies, to promote economic and social development in the province of Turin, protecting the role of local industry and the interests of entrepreneurs.



ASSOCAM Scuola Camerana Turin



ASSOCAM SCUOLA CAMERANA is a key player in the regional VET system of Piedmont Region, with the **historical role of supporting skilling, up-skilling and re-skilling workers** from large to medium sized companies in the automotive industry, more recently also with the avionics and aerospace sector, in line with regional smart-specialisation strategies.

Since 1959, the School has been operating with the aim of providing a concrete contribution to the development of professional skills for both employed and unemployed individuals (young and adults).

It mainly conducts vocational training activities in the field of technologies applied to industrial processes, based on a planning **closely aligned with the training needs of local production facilities.**



Companies → +90% Corporate Teaching

A successful Higher Education Apprenticeship

starts

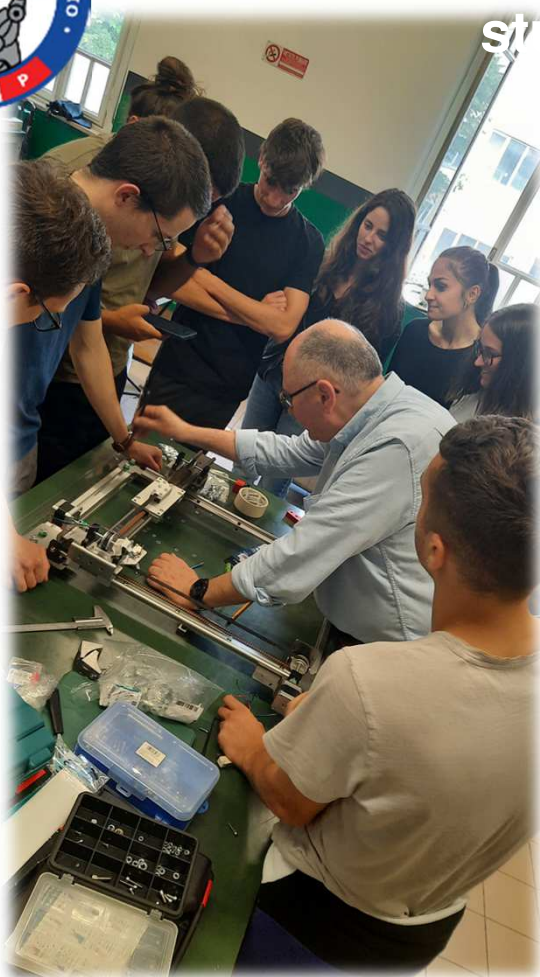
CO-DESIGNING with companies!

We work side by side with companies every year to design the best training path for both our students and industries.





... **continues** in the classroom with



Assessment in a non-evaluative context.

Teaching, Workshops, Empowerment programs allow assessment of the student in a non-evaluative interview context

Matching training and skills needed.

Possibility to verify that skills taught really match what companies need.



... and **ends** with a **COMMON SUCCESS!**



Those who teach learn twice

Forcing technicians or employees to also become trainers!



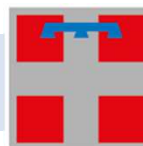
Learning to monitor and evaluate

Teachers become skilled at assessing learning.



Involvement from the territory thanks to REGIONE PIEMONTE

Value for the territory



REGIONE
PIEMONTE

The tool of high apprenticeship is a formidable opportunity to encourage collaboration with all actors in the territory because it really promotes innovation of business practices and **contributes to the creation of medium-long-term job opportunities.**

The theme of 'Education and Relationship with the Productive World' is centralized because of the stable and structural connections with over 250 companies in Piedmont, which enables many young people enrolled in our programs **to train directly on the enabling technologies of companies and experience innovation 4.0.**



Finanziato
dall'Unione europea





Students → supporting inclinations and potential

Students-attitude centered

For years our Foundation has been carrying out a training aimed at **exploring and supporting the inclinations of the student to obtain a passionate and specialized resource** in one or more of the areas of the ITS courses we provide (Sustainable Mobility and New Technologies for Made in Italy) and has always been committed to **cultivate and pursue the ability to innovate** and train new talents/ profiles of the future.





Students → sustainable transformation

New methodologies.

Working in a structured manner with companies and students is necessary because **users have changed and new generations have come along.**

Approaching young people for employment requires **new methodologies**

The new generation pays attention **not only to technological changes but also to the sustainable transformation of the environment, economy, and society.**



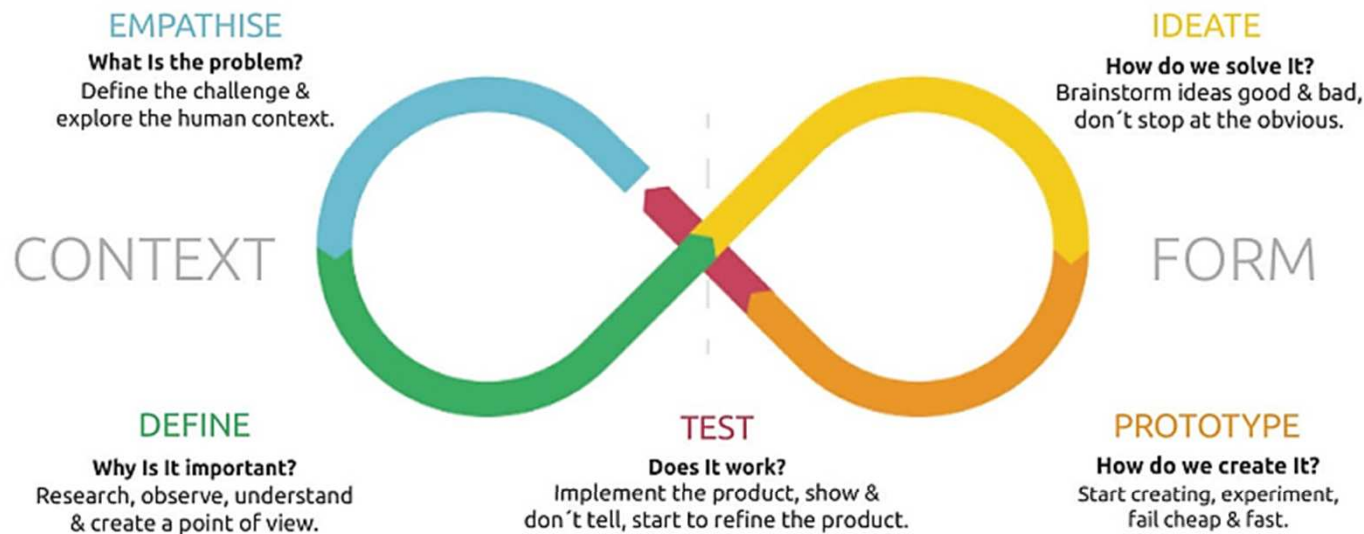


Students → human centered methodologies

Students need to be trained in a **multidisciplinary perspective** where they develop

DESIGN THINKING A FRAMEWORK FOR INNOVATION

not only technical but also personal and social skills according to innovative human-centered methodologies.





Students → Lean Methodology

Lean methodology facilitates an ongoing process of incremental **adjustment**, significantly accelerating product delivery by optimizing resources and effort and allowing teams to work efficiently and effectively

