

FUTURA

 **LA SCUOLA
PER L'ITALIA DI DOMANI**

PNRR ISTRUZIONE



Unione Europea
NextGenerationEU



*Ministero dell'Istruzione
e del Merito*

WHAT IS

PNRR

ITALY IN THE FUTURE NATIONAL PLAN FOR RECOVERY AND RESILIENCE

Italia Domani is name of the Italian National Recovery and Resilience Plan (PNRR), **a plan aiming at transforming the country** and leaving a valuable legacy to future generations, thus empowering a more solid, sustainable and inclusive economic growth.

Italia Domani is part of the Next Generation EU scheme, the economic regeneration program activated by the European Union and addressed to member states. With Italia Domani, our country will have a more efficient and digitized public administration, a more sustainable and widespread transportation system, a more modern public health system, one closer to people's needs, a more balanced territorial cohesion, a more dynamic labour market and without gender or generational discrimination, an increased investment in research, a more innovative and inclusive education system.

The National Recovery and Resilience Plan is **a unique opportunity for the growth of the country and for an economic recovery, thus benefiting future generations**. PNRR is also an important challenge for the public administration and for each single ministry, called to implement an articulated and ambitious plan.

ACTIONS FOR EDUCATION

FUTURA EDUCATION FOR THE ITALIAN FUTURE

Six reforms and ten plans of investment: this is the scheme of the interventions provided for by **the Italia Domani resilience and recovery plan**, for what concerns the competences of the **Ministry of Education**. The program's main engine is represented by "**Futura - Education for the Italian Future**", a scheme connecting all the different actions activated thanks to national and European resources for an **innovative, sustainable, safe and inclusive school system**. The goal is to create a new educational system to guarantee the right to education, digital competences and the necessary skills to face the challenges of the future, hence overcoming all inequalities and contrasting early school leaving, educational poverty and territorial gaps. Thanks to an **investment of €17.59 billion**, a sum comprehensive of the so-called "existing projects", the Italian school ecosystem has the opportunity to concretely play **ra strategic and educational role for the growth of our country**. School is, in fact, the place where students, supported in the process of structuring their own competences and acquiring their own skills, train for their future lives. What we want to achieve with PNRR, with Futura, is **a school that trains citizens in their full awareness**, a school resulting to be decisive in the processes of digital and ecological transition for the Italy of tomorrow.

**TOTAL
INVESTMENT**

17,59
Billion

12,66
Billion

4,9
Billion

6 RIFORMS FOR FUTURE EDUCATION

Technical and professional institutes, ITS, guidance, recruitment of teachers, reorganization of the school system, school of higher education for teachers and school staff (budget 34 M).



6 PLANS OF INVESTMENT FOR INFRASTRUCTURES

New schools, nursery and early age schools, school canteens and sport structures, school safety and schools 4.0.



4 PLANS OF INVESTMENT FOR COMPETENCES

Reduction of territorial disparities, ITS, digital education, new competences.

3,024 SCHOOL BUILDING PROJECTS AND 44,362 PROJECTS ON DIGITAL INNOVATION, ALREADY AUTHORIZED AND IN DUE COURSE OF IMPLEMENTATION ARE ALSO INCLUDED IN THE INVESTMENTS

THE REFORMS

The six reforms shall contribute to make the school system the core engine of the country's growth, so to be fully integrated to European standards. The measures relate, in fact, to the most strategic aspects of education: the reorganization of the school system, the training of staff, recruitment procedures, the guidance system, the reorganization of technical and professional institutes and Higher Technical Institutes (ITS). In accordance with the guidelines of the European Commission and EU Regulation no. 241/2021, all reforms will be adopted by 2022.

REFORM OF THE TECHNICAL AND PROFESSIONAL INSTITUTES

OBJECTIVE

The reforms aim **to adequate the curricula of technical and vocational institutes to the demand for skills that comes from the productive fabric of the country**, with a particular focus to innovation as provided for by the national plan "Industry 4.0" and considering the profound digital innovation taking place in all sectors of the labour market.

The high **quality of the curriculum offered will encourage employability**, thanks to also the harmonization of training schemes on the basis of the needs of each single territory.

This reform invests in human capital taking into consideration the geographical, economic and social conditions of each local context, with direct short- and long-term benefits on growth potential of the country.



TIMING

2022

reform action

2024

ex-post
monitoring of
the institutions
involved

REFORM OF ITS (HIGHER TECHNICAL INSTITUTES)

OBJECTIVE

The reform aims to simplify the organizational and pedagogical system, **increase the number of enrolling students**, improve the process of interface with local entrepreneurs, in order to **correct the unbalance between labour demand and supply**.

ITSs, thanks also to partnerships with companies, universities, research centers and local authorities, will be able to offer **increasingly advanced job-oriented tertiary education courses** for the training of technicians who manage high-quality systems and highly complex processes in six fields: energy efficiency, sustainable mobility, new life technologies, new technologies to boost Italian products in the world, innovative technologies for the development of cultural heritage, information and communication technologies. Full implementation of the reform, which will be adopted in the first semester of 2022, is expected in 2025.



TIMING

2022

adoption of the
reform

2025

full implementa-
tion of the
reform

REFORM OF SCHOOL AND ACADEMIC GUIDANCE



TIMING

2022

adoption of the reform

OBJECTIVE

The reform shall introduce actions of guidance for secondary school students (not less than 30 hours per module for students of the 11 and 12 grade). A digital platform to facilitate students' orientation to the tertiary educational offer provided by universities and ITSs will also be implemented. **The synergy between the school system, the university system and the job market** will favour students' awareness in the choice of their future course of study or vocational training, thus contrasting early school leaving the emergence of NEETs.

The reform will also provide for an **extension of the four-year high and technical schools experimentation**, with an additional 1,000 classes in as many schools (the current experimentation involves 100 classes in as many schools).

The reform will be adopted by 2022.



RECRUITMENT OF TEACHERS



TIMING

2022

adoption of the reform

2024

recruitment of 70,000 teachers with the new method

OBJECTIVE

The reform aims at revising the current procedure of teacher recruitment, rethinking their initial and in service training throughout their entire career. The goal is to **bring about a significant improvement the quality of educational paths** in order to offer students higher levels of content, life competences and innovative and hands-on learning methodologies. Another key objective is stability: to **grant the school stable recruitment of long term contracted teachers**. Training and experimentation with innovative methodologies will allow a selection process based not only on the level of knowledge, but also on teaching methods acquired, as well as the ability to relate to the educational community.

Once the reform will be approved, recruitment with the new system is expected to benefit 70,000 teachers by 2024.



HIGHER EDUCATION FOR SCHOOL LEADERS, TEACHERS AND SCHOOL STAFF

BUDGET
34 M

OBJECTIVE

The reform will ensure continuous professional development with the establishment of a **School of Higher Education and life-long education** for school leaders, teachers and school staff. INDIRE (National Institute for Documentation, Innovation and Educational Research), INVALSI (National Institute for the Evaluation of the Education System) and Italian and foreign universities will be involved, with the aim of granting a quality and continuous training system, in line with European standards. The aim is to provide pedagogical and educational training that, together with an in-depth knowledge of the subject, will allow teachers, school leaders and staff to effectively face the challenge of master methodological, digital and cultural competences in the context of high-quality teaching.

This is the only reform with a budget, amounting to €34 M.



TIMING

2022

adozione riforma

2025

1.000.000
personale
scolastico
formato

REORGANIZATION OF THE SCHOOL SYSTEM

OBJECTIVE

Two strategic aspects represent the core of the reform: **the number of students per class and the sizing of the school network.**

The number of students is going to decrease in the coming years due to the falling birth rates, which will lead to a reduction in the need for school personnel: such scenario suggests an opportunity to rethink the organization of the school system.

The final outcome will be a reduction in the average number of students per class, enhancing the quality of teaching and learning.



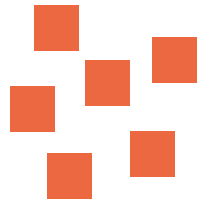
TIMING

2022

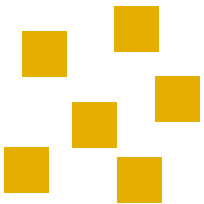
Adoption of the
reform

INVESTMENT PLANS

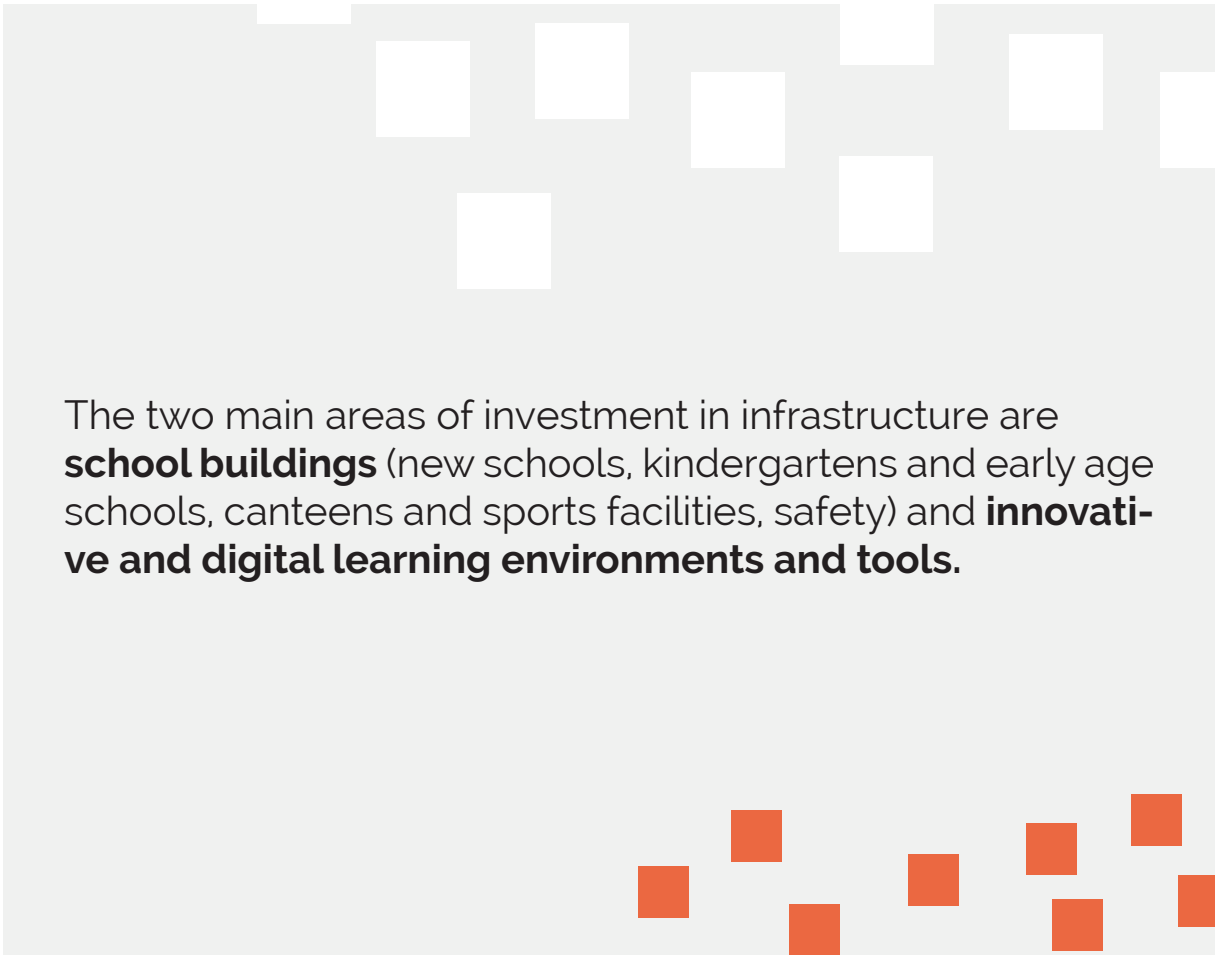
INFRASTRUCTURES



COMPETENCES



INFRASTRUCTURES



The two main areas of investment in infrastructure are **school buildings** (new schools, kindergartens and early age schools, canteens and sports facilities, safety) and **innovative and digital learning environments and tools**.

NURSERY AND EARLY AGE SCHOOLS

BUDGET
€ 4,6 B

increase the educational offer age 0-6 in all regions

1.800
building interventions

264,480
new jobs

OBJECTIVE

This line of investment is aimed at increasing the educational offer for children from 0 to 6 years of age throughout the national territory, by building new nurseries and new kindergartens or securing the existing ones, in order to **improve the quality of service, facilitate families and therefore women's work, increase the birth rate.**

The aim is to **achieve the European target of 33% for early childhood services**, bridging the existing gap for both the 0-3 and the 3-6 age group, recognizing the right to education for girls and boys since birth and guaranteeing a unitary educational path adapted to the characteristics and training needs of that age group, also thanks to innovative learning spaces and environments.

TIMING

2021

public calls addressed to local institutions

2022-2023

award procedures and starting of works

2024-2025

carrying out of works

2026

conclusion of works

BUDGET
€ 960 M

SCHOOL CANTEENS

increase
the availability
of **canteens**

1.000 new or
redeveloped **facilities**
and **spaces** to be used
as **canteens**

OBJECTIVE

The objective of this investment plan is to ensure a development of the spaces dedicated to school canteens, by building new canteens or refurbishing the existing ones, in order to narrow a historic gap between the north and south of the country.

The aim is also to increase the training offer and to support the contrast to early school leaving, thanks to the activation of full-time in the schools where it is not provided.

TIMING

2021

public calls
addressed to
local institutions

2022-2023

award procedures
and starting of works

2024-2025

carrying out of works

2026

conclusion of
works

DEVELOPING SPORT INFRASTRUCTURES TO FAVOUR SPORT ACTIVITIES AT SCHOOL

BUDGET
€ 300 M

increase the offer of sports activities

400 new or restored buildings, used as **school gyms or sports facilities**

230,400 sqm. to be built and/or redeveloped

OBJECTIVE

This investment plan aims to **increase the offer of sports activities, since grade 1 throughout the national territory**, also after the curricular school time, through the development of the infrastructures dedicated to sport activities in the schools, which will be equipped with all modern and innovative sports equipment, including, where possible, innovative sport high technologies.

The creation of more extended sports facilities also represents an investment for school communities, allowing school premises to be opened to the territories after curricular school hours. It is crucial to support the development of the skills related to motor and sports activity as they are considerably valuable in terms of fostering healthy lifestyles, ensuring social inclusion, promoting well-being, developing awareness towards and orienting personal attitudes, eventually for the full development of the potential of every student.

Building sports facilities and gyms also represent an investment for school communities, allowing premises to be opened to the territories after curricular school hours.

TIMING

2021

public calls addressed to local institutions

2022-2023

award procedures and starting of works

2024-2025

carrying out of works

2026

conclusion of works

BUDGET
€ 3,9 B

SCHOOL SAFETY AND REDEVELOPMENT

making schools more
innovative, sustainable
safe and inclusive

2,158
building
interventions

2,400,000
sqm.
to secure
and redevelop

OBJECTIVE

Aim of this investment plan is to **make the state-owned buildings used as schools for the first and second cycle of education innovative, sustainable, safe and inclusive**. The main interventions shall concern safety, seismic adaptation, energy efficiency and building replacement. School building represents a high priority not only to ensure the safety of school premises, but also to ensure a real and effective usability of teaching environments, seen as actual educational resources contributing to the growth of students.

The investment shall focus on school buildings' redevelopment, securing and energetic re-qualification, also aiming to reduce emissions and improve energy classes of buildings, increase seismic safety and digitize learning environments.

TIMING

2021

identification
of local author-
ities within the
three-year nation-
al programming

2022-2023

procedures for the award
and start of works

2024-2025

carrying out of works and
their monitoring

2026

conclusion of
works

BUILDING NEW SCHOOLS

BUDGET
€ 800 M

build more **innovative, sustainable, safe and inclusive** schools

195 new schools

OBJECTIVE

This investment line aims to **create new safe, inclusive, innovative and highly sustainable school buildings**, thus lowering the national nZEB parameters by 20%. School physical environments are a key factor to guarantee quality and innovative teaching and learning. The planned interventions are aimed at **creating spaces that can guarantee teaching based on innovative methodologies**, stimulating students' creativity and making them and their growth at the center of a future-oriented educational perspective.

TIMING

2020

public call for local authorities

2022-2023

design contest and award procedures

2024-2025

carrying out of works and their monitoring

2026

conclusion of works

BUDGET
€ 2,1 B

SCHOOLS 4.0: INNOVATIVE SCHOOLS AND LABORATORIES

carry out the
**digital transition of the
Italian school system**

100,000 classrooms
**transformed into
innovative learning
environments**

**laboratories
for digital
professions**

OBJECTIVE

Supporting and guiding the digital transformation of the Italian school system, turning the classrooms that were previously dedicated to frontal teaching into innovative, connected and digital learning environments, also strengthening the laboratories for the digital professions: this is the objective of this investment line, in order to complete the modernization of all Italian school environments by equipping them with technologies useful for digital teaching. **Transforming the physical spaces of schools, laboratories and classrooms by merging them with virtual learning spaces** is a key factor in fostering changes in teaching and learning methodologies, as well as for the **development of digital competences fundamental** for a successful access to the new jobs available in the field of digitalization and artificial intelligence.

TIMING

2020

improvement of the
access to individual
digital devices

2021-2022

procedures for administrative
implementation
(public calls, decrees,
purchases)

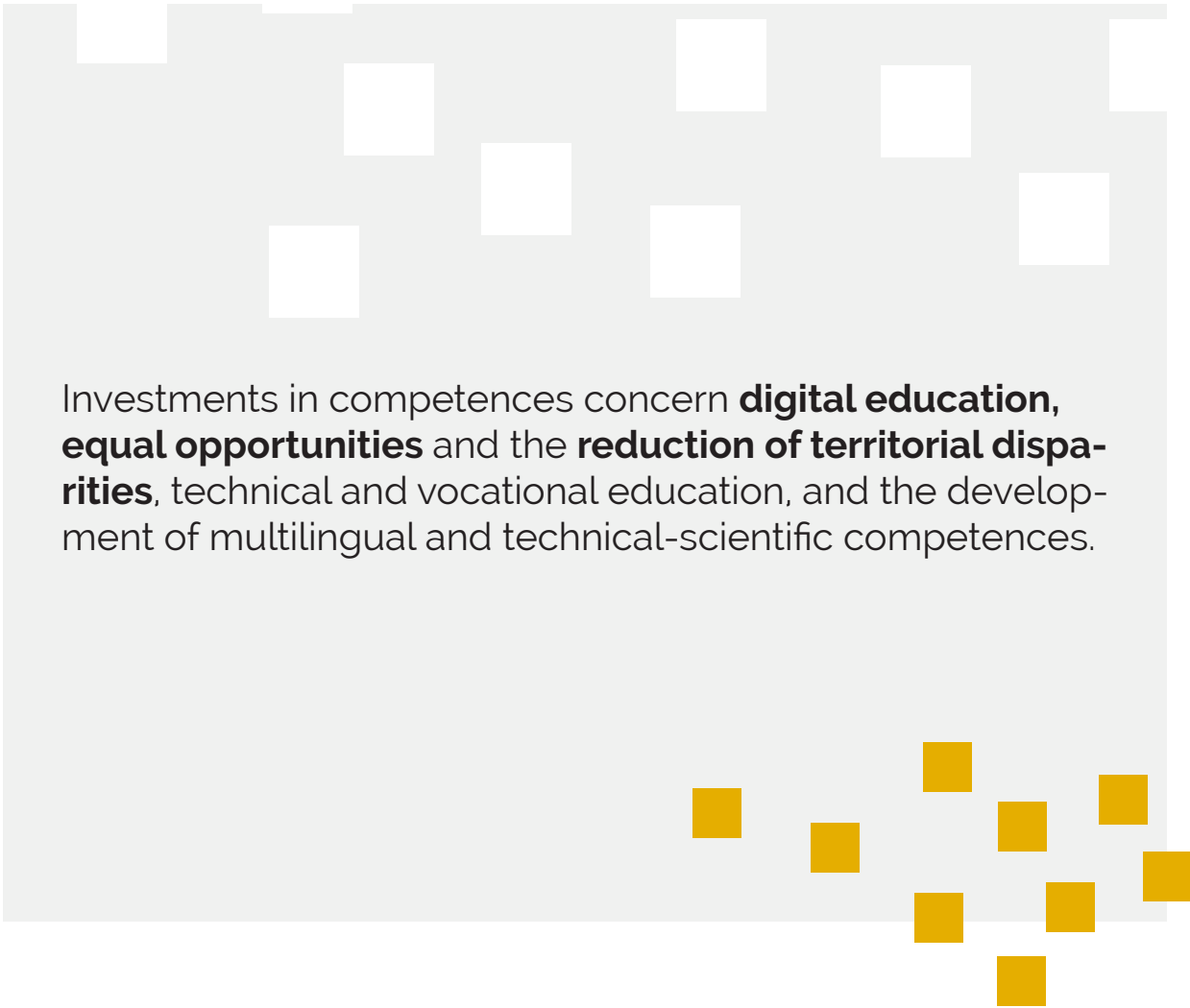
2022-2023-2024

preparation of environments,
laboratories, digital secretariats

2025

reporting and
certification

COMPETENCES



Investments in competences concern **digital education**, **equal opportunities** and the **reduction of territorial disparities**, technical and vocational education, and the development of multilingual and technical-scientific competences.

BUDGET
€ 1,5 mld

REDUCTION OF TERRITORIAL DISPARITIES

mentoring initiatives to
enhance competences
and **contrast** early
school drop-out

820,000
students to be involved

OBJECTIVE

With this investment plan we want **potentiate the basic competences of students and contrast early school leaving**, with actions tailored on territorial contexts and students' needs. Interventions will be developed in a 4 year span, promoting academic success and social inclusion. A special focus shall be given to schools experiencing particular difficulties with educational and academic performances.

The plan provides for actions specifically aimed at contrasting school drop-out, promoting educational success and social inclusion, with programs and initiatives aimed at **tutoring, counseling and active and professional guidance**. A national portal for online training with courses for teachers shall also be developed.

TIMING

2021

Implementation
of the platform

2022

mentoring
activities and
launch of
post-diploma
courses

2024

implementation
of mentoring
activities

2025

820,000 students
participated in the
activities

2026

reaching 10.2%
abandonment
rate

DEVELOPMENT AND REFORM OF ITS (HIGHER TECHNICAL INSTITUTES)

BUDGET
€ 1,5 M

increase
the educational
offer of the
institutes

+100%
students to enroll
in ITSs

Laboratories 4.0
and networks
with private
companies

OBJECTIVE

The goal is to increase the educational offer of higher technical institutes, investing on teacher training, **allowing the ITS system, in synergy with the relative reform, to double the number of professionals trained**, developing the infrastructures in laboratories tailoring them to the new training needs required by the **green transition** (Energy 4.0, Environment 4.0, etc.) and the **digital transition** (Enterprise 4.0), increasing the training offer and professional paths, creating a national platform comprehensive of all the Institutes and active courses, that allows students to know the job offers for those who acquire a professional qualification.

Thanks to such an improved offer, the aim is to increase the number of ITS subscribers (+100%).

TIMING

2021

start of the
interventions

2025

implementation of
monitoring system and
creation of new ITS

BUDGET
€ 800 M

**BLENDED AND DIGITAL LEARNING, TEACHERS
AND SCHOOLS STAFF TRAINING ON DIGITAL TRANSITION**

developing
**digital education
and training for the
digital transition**

training
820,000
teachers and
school staff

20,000
active courses
with territorial
training hubs

OBJECTIVE

This investment line aims to **promote digital teaching practices and training of school personnel on the digital transition**, two key elements to improve learning quality and accelerate innovation in the education system. More in depth, the **development of an Italian national training centre for teachers and school staff on digital education**, the creation of an integrated network of territorial training hubs, the activation of a catalogue of about 20,000 training courses in all the disciplines of the school curricula; the creation of a platform to host the contents of digital education and innovative teaching methodologies for teachers, students and families and the realization of " inclusive and sustainable "Pacts for digital education and skills for the future" are the measures planned.

TIMING

2021

executive planning of
the interventions and
activation of the
national hub

2022

start-up
territorial
initiatives

2023-2024-2025

hands-on training and territorial activities

2026

evaluation
and reporting

NEW COMPETENCES AND LANGUAGES

BUDGET
€ 1,1 B

ensuring **equal opportunities and gender equality**

encourage the study of **STEM subjects**

increase **multilingual knowledge**

OBJECTIVE

The objective of the present plan of investment is to ensure **equal opportunities and gender equality**, in education and guidance in the choice of **STEM** subjects (science, technology, engineering and mathematics), computer science and multi-language skills, for all school cycles, from early age school to secondary school, in a multi-disciplinary perspective and with a particular attention on female students.

The goal is to foster scientific culture and the necessary mindset in schools to favour a different approach to the development of computational thinking since the early stages of the learning process. In addition, the plan aims to strengthen the internationalization of the school system and the multilingual skills of students and teachers through the extension of Erasmus+ counselling and information programmes.

TIMING

2021

implementation of the digital platform

2025

certification of competences adoption of STEM guidelines in schools



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FUTURA


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