Digital Skills and Jobs Coalition Workshop

Monitoring the Effectiveness of National Digital Skills Strategies & Action Plans

The Italian experience of successful digital skills strategy monitoring and evaluation

Giuseppe lacono

Repubblica Digitale - Italian Coalition for Digital Skills - Coordinator

18 October 2021





Digital exclusion in Italy

EUROSTAT 2019

26 million

16-74 year-old citizens without at least basic digital skills

(58% of population vs 42% EU average)

including

11 million +

citizens who do not use the Internet

17 million

16-74 year-old citizens with **at least basic digital skills**

(42% of population vs 58% EU average)

including

9 million citizens with advanced digital skills

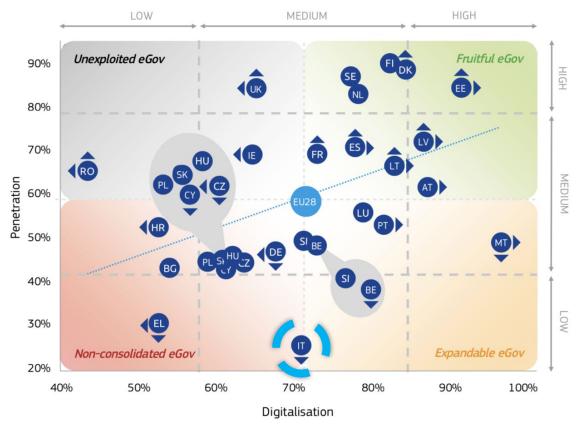




Digital exclusion in Italy

eGovernment benchmark









Repubblica Digitale

Roadmap of the national initiative for digital skills

2019			2020		2021				2022
May	December	April	July	December	February	May	October	November	Spring
Publication of the Manifesto and launch of the Call for Action	Adhesion of the first 50 initiatives "Italia 2025" plan	Expansion of activities perimeter Start of Italian Strategy for Digital Skills development with the institutional team Membership of the European Digital Coalition Over 100 initiatives and	Establishment of the Technical Steering Committee Approval of the Italian Strategy for Digital Skills Kick-off of Operational Plan development for the implementation of the strategy	Approval of the first version of the Operational Plan	Over 200 initiatives	Launch of the Pilot Call for the Digital Civil Service Actions of the Operative Plan in National Resilience and Recovery Plan	Operational Plan monitoring report	Italian Coalition Assembly New Operational plan updated version	Launch of ACCEDI platform for digital skills self assessment and learning
·D		data dashboard definition							 ₹ ₽ D





Repubblica Digitale

Governance and actors involved

with representatives of

Ministries, Regions, Provinces, municipalities, universities, research institutes, companies, professionals, the National Public Broadcasting, associations and the various public sector organizations, organizations belonging to the National Coalition, EU Code Week Coordinator

with the collaboration of

Observatories on Digital Skills and on Digital Agenda from Universities and ICT Business and the National Statistics Institute, Experts 200+

businesses, public entities and NGOs

ITALIAN COALITION

250+ local and national initiatives in line with the Italian Strategy objectives

4+ million trained citizens (students, teachers, workers etc.)

TECHNICAL STEERING COMMITTEE

coordinated by Minister for Technological Innovation and Digital Transition the value is created by the **network**



EUROPEAN COALITION
DIGITAL SKILLS AND JOBS
PLATFORM

Network with the other

24 national coalitions



CITIZENS

Citizens contribute to Repubblica
Digitale and to the implementation
of the Italian Strategy through
public consultations on the
ParteciPA platform





4 strategic objectives, 4 intervention axis

The Italian Strategy for Digital Skills has been approved in July 2020

ICT specialist **Higher Education** Citizens Active and Training workforce skills for the development of e-skills to ensure adequate e-skills in both to enhance the country's ability to to develop the digital skills needed develop skills for new markets and for young people within the the private and public sectors, to exercise citizenship rights and including e-leadership skills mandatory education cycles new jobs, with a specific focus on promote active participation in the emerging technologies and key democratic life competencies for future jobs coordinated by the Ministry of coordinated by the Ministry of coordinated by the Ministry of coordinated by the **Minister for** Education and the Ministry of **Economic Development** and the **University and Research** and the technological innovation and University and Research Minister for Public Administration Ministry of Economic Development **Digital transition**





Operational Plan: actions and indicators

The Operational Plan has been **published in December 2020**



Operational Plan: actions impact evaluation

It provides for the proposed actions **six-monthly progress and results verification**, measuring the general impact that these have on the intervention axis priorities

How is actions impact assessed?

achievement of each action specific **target values**

measurement of a **set of performance indicators**, prepared starting from the indicators included in the *Digital Economy and Society Index* (DESI) of the *European Commission and the Digital Maturity Indexes* (DMI)

Enabling factors

enable citizens and workers to participate in the digital economy and society



Results to be achieved measure the effective participation of citizens and workers in the digital economy and society



Selection of indicators, benchmark and target values identification



Indicators selection

The selection of indicators was made from a catalog of 217 indicators elaborated by Politecnico di Milano Digital Agenda Observatory, based on the priorities and the lines of action defined by the National Strategy for digital skills, for each of the 4 intervention axis.

The 4 intervention axis working group selected **65 indicators** based on the monitoring needs of the more than 100 actions described in the Operational Plan.

Among these, **24 final indicators** have been selected for the **monitoring dashboard**.



Benchmark

The indicators allow a **benchmarking activity** with European countries that have the socio-demographic characteristics most similar to Italy: France, Spain, Germany, Poland and the United Kingdom.

For each indicator, a **trend analysis** allow to identify the growth rate of each indicator for each of the countries analyzed, **forecasting year 2025 values**. These projections allow us to give an initial indication of the **minimum target values that Italy has to reach to fill the gap with other European countries**.

The forecast consider factors such as: indicators trend in the **past years**, impact of **COVID-19 pandemic** (digitalization process), impact of **digital skills policies** and **generational shift**.



Target values identification

The following aspects were considered for target values identification:

- reducing the gap with other European countries and reaching one of the first three positions compared to the countries most similar to Italy in socio-economic and demographic characteristics;
- the objectives defined by the European Commission (e.g., European Agenda for Digital Skills and the Action Plan for European Digital Education 2021-2027);
- the need to identify challenging target values that can be concretely reached with the resources available (with a "validation analysis").





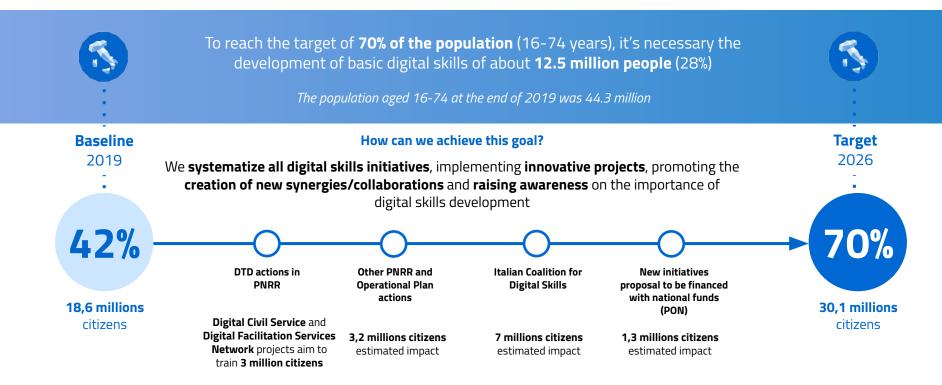
Some of 2026 objectives







70% of citizens with basic digital skills - *target value validation analysis*

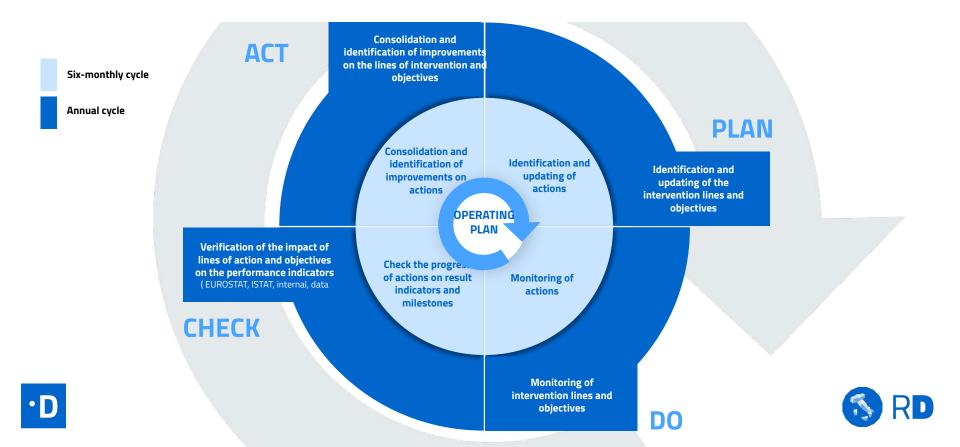






Monitoring the Italian Strategy for Digital Skills

Six-monthly and annual cycle



Monitoring the Italian Strategy for Digital Skills

Two monitoring levels





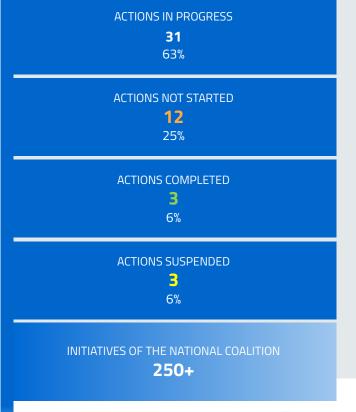


Monitoring the Italian Strategy for Digital Skills - specific action

Operational Plan actions' state of progress

% Detection progress	44%
Actions' sheet received	49
Total actions' sheet	111

Coordinator	Action-sheets
Ministry of Education	42
Ministry of University and Research	19
Ministry for Economic Development	19
Ministry for technological innovation and digital transformation	15
Minister of Public Administration	16







Monitoring the Italian Strategy for Digital Skills - specific action

First findings







Monitoring the Italian Strategy for Digital Skills - specific action

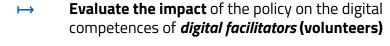
Effectiveness assessment pilot action: Digital Civil Service project

Objective





Quantify the impact (complementing with qualitative evidence) and **support the employability of volunteers**





Quantify the impact (complementing with qualitative evidence) and **identify channels that improve effectiveness**

Evaluate the impact of the policy on the digital competences of (marginalized) citizens



Collect and systematize evidence for **policy** readjustment and innovation

 Compare the structural characteristics of the DCS programs and projects, to identify potential sources of impact



Sustain the employability of volunteers at the end of the Civil Service

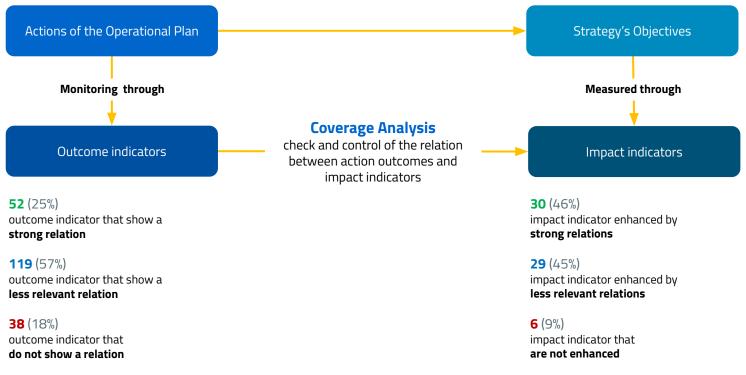
+ incentivize effort and training during the program

 Develop a centralized certification scheme for the digital competences acquired by digital facilitators (volunteers)





Indicators coverage analysis







Indicators values coverage analysis Average level Most covered Least covered of coverage indicator indicator Individuals (16-19 year-old) **Higher Education** 10 STEM Graduates (per 1000 using internet for learning of population aged 20-29) and Training activities Employed in public/private Unemployed who use Active sector with advanced digital internet for job search workforce skills (%) activities % ICT specialist **Enterprises that recruited** or tried to recruit ICT **ICT Graduates** skills specialists Individuals who never used Individuals with at least Citizens internet basic digital skills



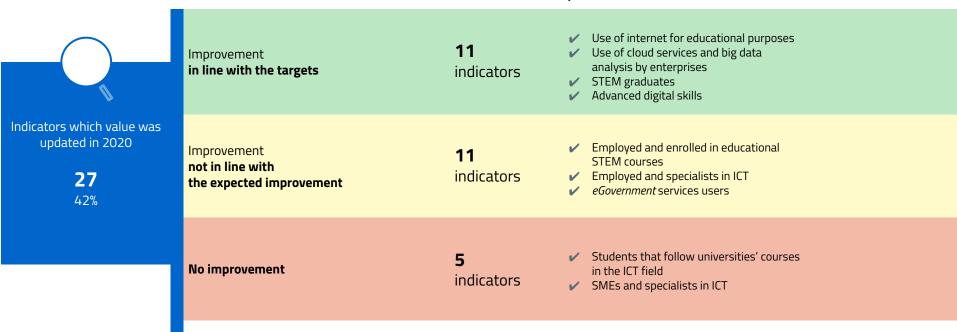


Indicators values analysis vs target - Example: Axis 4 - Citizens (based on Eurostat 2020 data)

Impact indicators	EU 27 Operational Plan	EU 27 Last updated value	ITALY Operational Plan	ITALY Last updated value	EU 27 progress	ITALY progress	Average annual progress to reach the target	Target
Individuals who use the Internet at least once a week	85% (2019)	86% (2020)	74% (2019)	76% (2020)	+1%	+2%	+4%	94% (2025)
Individuals who have never used the Internet	9% (2019)	9% (2020)	17% (2019)	14% (2020)	=	-3%	-2,8%	3% (2025)
e-Government services user (who sent completed forms to PA in the last 12 months)	38% (2019)	38% (2020)	14% (2019)	17% (2020)	=	+3%	+10%	64% (2025)
Individuals 25 to 64 with low formal education who have used the internet in the past 3 months	73% (2019)	77% (2020)	64% (2019)	70% (2020)	+4%	+6%	+5%	89% (2025)
Individuals 65 to 74 who have used the internet in the past 3 months	61% (2019)	61% (2020)	42% (2019)	45% (2020)	=	+3%	+8,4%	84% (2025)

Indicators values analysis vs target

Update of 2020 EUROSTAT indicators







First evidences



Impact indicators **not covered enough**



Values of the impact indicators that are **not in line with expectations**

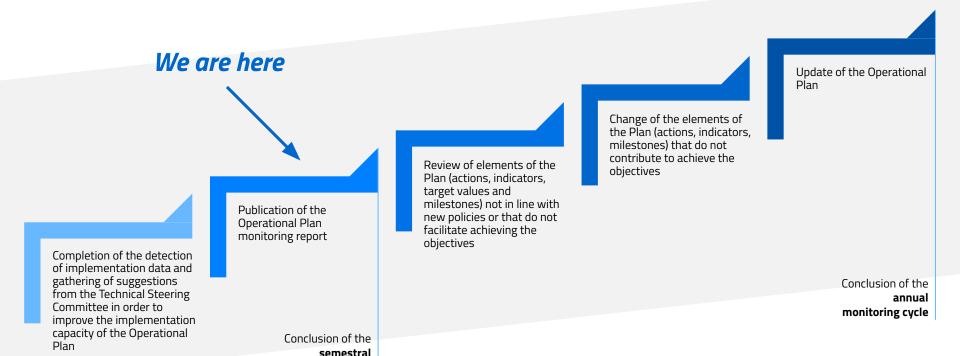
What to do

- new actions
- expansion of the impact of the already active actions (i.e. with increased integration with the initiatives of the Coalition)
- ✓ launch of co-projecting focus groups





Next steps







monitoring cycle

Thanks for your attention!



