

# Greece 2024 Digital Decade Country Report Recommendations

## 1 Introduction

The European Commission's "Greece 2024 Digital Decade Country Report"<sup>1</sup> published on July 2024 includes a set of recommendations regarding the National Digital Decade Strategic Roadmap<sup>2</sup> submitted by the Greek government in October 2023. To this end, the Ministry of Digital Governance (MDG) has taken specific actions with respect to the proposed recommendations which are discussed in the present document.

## 2 Overview of follow-up actions

**The MDG is considering the digital decade objectives as a national priority.**

The MDG is in the process of revising the current national digital strategy (Digital Transformation Bible – DTB 2020-2025) to establish the alignment of digital transformation strategic priorities with the Digital Decade (DD) targets as a national policy, in line with the analysis, justification and metrics presented in the national roadmap.

More specifically, in July 2024, the draft version of the **revised** DTB (2026-2030) which comprises of a core strategic document complemented with a set of Measures/Actions that contribute to the respective digital targets, was communicated to the members of the Executive Network of Digital Transformation (ENDT)<sup>3</sup>. The objective was on one hand to receive initial feedback regarding the aforementioned Measures/Actions (specific scope, expected outputs, project data, etc) and on the other hand to gather newly proposed measures that could further contribute to the digital decade objectives.

Furthermore, in July 2024, the Ministry organized two workshops regarding specifically the Digital Decade targets with members of the so-called "core Working Group" of the ENDT, i.e. with representatives of the organizations that are responsible for implementing the majority of the digital transformation

---

<sup>1</sup> <https://digital-strategy.ec.europa.eu/en/factpages/greece-2024-digital-decade-country-report>

<sup>2</sup> [https://digitalstrategy.gov.gr/website/static/website/assets/uploads/digital\\_decade\\_national\\_roadmap.pdf](https://digitalstrategy.gov.gr/website/static/website/assets/uploads/digital_decade_national_roadmap.pdf)

<sup>3</sup> A network of more than 400 public sector employees involved in digital transformation across the administration

actions, in order to validate and further specify the set of measures included in the national roadmap.

Subsequently, following-up on the results initial feedback assessment received from responsible organizations, the MDG organized between September and November 2024 more than 15 bilateral meetings in order to define the Digital Transformation Portfolio and designate the digital decade measures.

Last but not least, the MDG has conducted 2 meetings dedicated to Digital Decade in November (one for Digital Skills, and one for digital transformation of Enterprises) in order to gather supporting information for the measures that are already part of the national roadmap as well as the new ones proposed by the stakeholders.

## 3 Recommendations for the Roadmap

### 3.1 Recommendations on TARGETS

*Consider in due time reviewing all the national targets that are not aligned with the EU's 2030 targets*

#### 3.1.1 Take up of cloud, data analytics and AI by enterprises, the target for which is currently low on ambition.

The rationale of setting this national target is strongly dictated by the particularities of the Greek business ecosystem, as presented in the national roadmap. More specifically, based on our analysis, there are almost 1.4 million enterprises operating in Greece, of which a particularly high percentage are solo (72.38%) and micro enterprises (23.97%), resulting in an overall total percentage of 91.80%. The European Union Survey on ICT usage and e-commerce in enterprises only accounts for the enterprises with economic activity in sections C-J, L-N and Group 95.1 of NACE 2 whereas the inclusion of enterprises with a number of employees between 0 and 9 and self-employed persons is optional. **This means that the digital transformation of the majority of companies contributing to Greek economy (solo and micro enterprises, and companies operating for example in the agricultural domain) is not measured under DD targets (Cloud, Data analytics, AI as well as Digital Intensity).**

Undisputedly, the country's measures for digitally transforming the Greek economy have to target horizontally **the whole spectrum of SMEs**, rather than focusing only on the subset measured by the Digital Decade which constitutes of less than 40 thousand companies and this was the reason for establishing the target in the national roadmap.

However, taking into account the recommendation received by the European Commission we further examined the flagship measures for this digital target in

order to monitor progress of the respective indicator and its expected projections in order to potentially review the target.

One of the flagships examined is the 135 million EUR “Digital Tools for SMEs Program” of the Ministry of Digital Governance (already included in the roadmap), the first phase of which has been completed in September 2024, under a total budget of 97 million EUR. The program provided subsidies to 46 thousand Greek enterprises for the following technologies:

Technology	Cost (M EUR)	Digital Intensity Index (even or odd years)	CC services (sophisticated or intermediate)
Have ERP software package to share information between different functional areas	8.39	✓	
Buy CC services used over the internet	2.00	✓	
Used any computer networks for sales (at least 1%)	1.00	✓	
Use at least 3 ICT security measures (IAM, SOC)	0.22	✓	
Any of the persons employed having remote access to any of the following: e-mail, documents, business apps	0.50	✓	
Enterprises where web sales are more than 1% of the total turnover and B2C web sales more than 10% of the web sales	4.20	✓	
Enterprise with document(s) on measures, practices or procedures on ICT security	1.66	✓	
Finance or accounting software applications	16.52		✓
ERP software applications	34.59	✓	✓
Customer Relationship Management (CRM) software	6.31	✓	✓
Computing Platform providing a hosted environment for application development, testing or deployment	1.25		✓
Hosting for the enterprise's database	3.57		✓

Supporting costs (training, consulting, installation)	6.63	✓	✓
Other Technologies (GDPR, Interoperability, HR, Digital Signatures, Project Management tools)	10.41		

Table 1. Eligible technologies (under DD targets) of the measure “Digital Tools for SMEs”

However, almost 40% of the subsidies (an amount of 38 million EUR) was allocated to 38 000 micro enterprises (80% of the total participating companies), i.e. companies which are not included in the DD target measurements.

## 3.2 Recommendations on MEASURES

### 3.2.1 Review and reinforce the strategy and measures to contribute to the Targets that are challenging to reach

#### 3.2.1.1 Digital Infrastructure

In the Digital Decade report 2024, Greece registered an increase of 37.9% in both VHCN and FTTP, demonstrating a strong commitment towards the projected trajectory of the national roadmap. In order to further contribute to the achievement of the national target, a new measure with a total budget of 80 million EUR has been launched in November 2024 (see Annex 1) under the title “Gigabit voucher” providing a 200 EUR subsidised coupon for two years to an expected number of 400 000 beneficiaries. This measure complements a previously reported Measure (“Smart Readiness”) which subsidises costs required for the creation of the necessary infrastructure in the buildings and is expected to accelerate convergence to the digital objective.

#### 3.2.1.2 ICT specialists

Increasing the number of ICT specialists remains admittedly one of the biggest challenges faced at both national and European levels. Particularly in Greece, confronted an unprecedented “brain drain” problem during the economic crisis, finding and retaining talent is of particular importance.

**Primary and secondary education constitute a critical stage in motivating children towards obtaining an ICT degree**, therefore enhancing digital skills of pupils as early as possible implies a higher chance of becoming ICT professionals.

To this end, the Ministry of Education, Religious Affairs and Sports, in cooperation with the Institute of Educational Policy, has launched a

comprehensive package of measures aimed at enhancing digital skills for pupils in Greece and orientating them towards ICT related degrees:

- Transformation of conventional curricula and educational content into open source, interactive, universally accessible digital environments with embedded artificial intelligence, provision for dynamic upgrading and opportunities for developing synergies with communities of educators (Development of Digital Content in Schools)<sup>4</sup>
- Creating New Computer Science Curricula/Multiple Book with Digital Learning Objects (Writing, Evaluation and Inclusion of textbooks in the Textbook Register and the Digital Textbook Library)<sup>5</sup>
- Supply and Installation of Interactive Learning Systems (36 264 interactive systems) in primary and secondary schools<sup>6</sup>
- Integrated Digital Information System for Primary and Secondary Education - Digital Services for Schools (eSchools)<sup>7</sup>
- Implementation of the innovative action "Competence Labs - 21+ Skills Workshops"<sup>8</sup>
- Skills Workshops: robotics and STEM - Supply of robotics and STEM equipment for primary and high school education<sup>9</sup>
- Teacher Training Actions<sup>10</sup>
- Development of Model Digital Centres in all regions<sup>11</sup>

Last but not least, the **development of an IT Certificate** in collaboration with academic institutions, an innovative certificate is being designed to recognise students' skills at a global level, encouraging the cultivation of digital competences.<sup>12</sup>

### **Low graduation rates in ICT students means less ICT professionals than expected**

According to Eurostat data, 2.2 million of the total population (10.5 million) are enrolled in the various levels of public education under the following distribution<sup>13</sup>:

---

<sup>4</sup> <https://www.iep.edu.gr/el/tameio-anakampsis-erga/digital-development> RRF total budget ~80M EUR

<sup>5</sup> [https://espa-anthropinodynamiko.gr/wp-content/uploads/2024/04/ae\\_6010165\\_orthi\\_ada.pdf](https://espa-anthropinodynamiko.gr/wp-content/uploads/2024/04/ae_6010165_orthi_ada.pdf) NSRF Human Resources and Social Cohesion total budget ~30M EUR

<sup>6</sup> <https://greece20.gov.gr/?projects=psifiakos-metaschimatismos-tis-ekpaideysis-16676> RRF total budget ~152M EUR

<sup>7</sup> [https://greece20.gov.gr/wp-content/uploads/2022/07/370\\_tropopoihsh-e-schools\\_16676\\_5163941.pdf](https://greece20.gov.gr/wp-content/uploads/2022/07/370_tropopoihsh-e-schools_16676_5163941.pdf) RRF total budget ~13M EUR

<sup>8</sup> [https://empedu.gov.gr/wp-content/uploads/2021/08/prosklhsh\\_SKILLS\\_EDVM175\\_ADA.pdf](https://empedu.gov.gr/wp-content/uploads/2021/08/prosklhsh_SKILLS_EDVM175_ADA.pdf) NSRF ΕΔΒΜ175 Human Resources Development, Education & Lifelong Learning 2014-2020) total budget ~35M EUR

<sup>9</sup> <https://greece20.gov.gr/?projects=psifiakos-metaschimatismos-tis-ekpaideysis-16676-3> total budget ~30M EUR

<sup>10</sup> <https://www.iep.edu.gr/el/tameio-anakampsis-erga/sub-8-teacher-training-actions-5180858> RRF total budget ~16M EUR

<sup>11</sup> <https://greece20.gov.gr/?projects=anaptyxi-kentron-kainotomias-se-13-perifereiakes-dieythynseis> RRF 5200665 total budget ~5M EUR

<sup>12</sup> <https://www.minedu.gov.gr/ypapegan/anakoinoseis/60039-12-11-24-icils-2023-proteraiotita-i-enisxysi-ton-psifiakon-deksiotiton-sta-sxoleia>

<sup>13</sup> [https://ec.europa.eu/eurostat/databrowser/view/EDUC\\_UOE\\_ENRA02\\_custom\\_13843570/default/table?lang=en](https://ec.europa.eu/eurostat/databrowser/view/EDUC_UOE_ENRA02_custom_13843570/default/table?lang=en)

- 600 000 pupils in primary education
- 700 000 pupils in lower & upper secondary education
- 80 000 students in post-secondary education
- 700 000 in tertiary university education (the equivalent of a bachelor's degree)
- 90 000 attending a postgraduate degree at masters level
- 30 000 working towards obtaining a PhD degree.

Each year around 50 000 students enrol for a Bachelor degree (out of 90 000 who take the National Exams), of which 3 300 in ICT related degrees and 26 250 in STEM degrees<sup>14</sup>.

However, each year only 1 650 students manage to graduate and get an ICT related degree, i.e. only 46,65% of the number of new students, in contrast to STEM graduates who amount to 14 700 per year (56,02% of new students correspondingly)<sup>15</sup>.

From the above data, it becomes apparent that ICT education at higher levels presents a challenge for the students and the Ministry of Education, having recognized the problem, is taking measures to increase the percentage of ICT students who manage to obtain their degree.

To this end, the Hellenic Authority for Higher Education (ETHAAE) has established a formal cooperation with Universities offering ICT degrees and the Association of Greek ICT Enterprises (SEPE) aiming to increase the number of ICT graduates from Greek Universities. Four working group meetings were held in 2023 resulting in a set of formally submitted proposals to strengthen the Study Programs and improve the graduation rate in the Departments of Informatics & Computer Engineering.

### **More ICT Graduates**

There were no programmes in Greece covering ISCED 5 (short-cycle tertiary education)<sup>16</sup>. The law 5082/2024 changed this, with the Schools of Advanced Vocational Training (SAEK) - former Institute of Vocational Training (IEK), which is a 2-year adult post-secondary vocational education and training and 960 hours at a work placement (experiential learning, practicum). EOPPEP organization is the body responsible for the Certification of Qualifications for the SAEKs. The SAEK awards Diploma of Vocational Education and Training, which is Level 5 after qualifying examinations of the National Accreditation Examinations. Among others 9 professions of ICT graduates (SAEK specialties) are introduced. Furthermore, the establishment and operation of private Higher Education Institutions (HEIs) is now permitted.

### **Re-skilling of non-ICT graduates in acquiring digital competences increases the number of ICT professionals**

---

<sup>14</sup> Estimated 5-year average.

<sup>15</sup> [https://ec.europa.eu/eurostat/databrowser/view/educ\\_uae\\_grad02\\_custom\\_13847299/default/table?lang=en](https://ec.europa.eu/eurostat/databrowser/view/educ_uae_grad02_custom_13847299/default/table?lang=en)

<sup>16</sup> [https://ec.europa.eu/eurostat/cache/metadata/EN/educ\\_uae\\_enr\\_esqrs\\_el.htm](https://ec.europa.eu/eurostat/cache/metadata/EN/educ_uae_enr_esqrs_el.htm)

A 168 million EUR upskilling and reskilling program by the Public Employment Service organization (DYPA) aiming to upgrade knowledge, competences, and skills of private sector workers according to the skills required from modern workplace trends **with emphasis on digital** (an “inspiring practice” according to the Vocational education and training compendium 2024)<sup>17</sup> is a measure that reorientates professionals towards the ICT industry.

We are currently processing the relevant data to estimate the contribution of these measures to creating new ICT professionals, according to the Digital Decade target definition.

### ICT graduates in other professions

Despite the very positive prospects of employment in Greece during the same period, about 86 thousands of ICT graduates (64%) are employed not as ICT professional,

Occupation/Level of Studies	ISCED-06 Information and Communication Technologies (ICT)				
	Sum of 2020	Sum of 2021	Sum of 2022	Sum of 2023	% 2023
<b>ICT Specialists</b>	<b>30 859</b>	<b>41 617</b>	<b>40 472</b>	<b>47 847</b>	<b>35.75%</b>
Bachelor Degree (ISCED 6)	6 515	22 809	21 599	35 419	74.03%
Master's Degree (ISCED 7-8)	19 536	14 550	13 438	9 616	20.10%
Technical Degree (ISCED 4)	4 808	4 258	5 435	2 812	5.88%
<b>Other</b>	<b>73 307</b>	<b>77 165</b>	<b>70 155</b>	<b>85 985</b>	<b>64.25%</b>
Bachelor Degree (ISCED 6)	17 228	37 718	21 252	39 363	45.78%
Master's Degree (ISCED 7-8)	26 274	10 780	10 955	16 573	19.27%
Technical Degree (ISCED 4)	29 805	28 667	37 948	30 049	34.95%
<b>Grand Total</b>	<b>104 166</b>	<b>118 782</b>	<b>110 627</b>	<b>133 832</b>	<b>100.00%</b>

Figure 1. Employed Graduates of ICT for the last 3 years, Digital Strategy Department - Data from the Mechanism of Labour Market Diagnosis

It is apparent that there is a need of people with ICT knowledge in other professions. However, these are not measured under Digital Decade target.

### Official projections regarding demand for ICT professionals seem optimistic

Official data from the Mechanism of Labour Market Diagnosis regarding ICT professionals indicate a positive trend for the following years. More specifically, there is increasing demand for the following ICT professionals:

<sup>17</sup> <https://op.europa.eu/en/publication-detail/-/publication/563e7699-7ae8-11ef-bbbe-01aa75ed71a1>



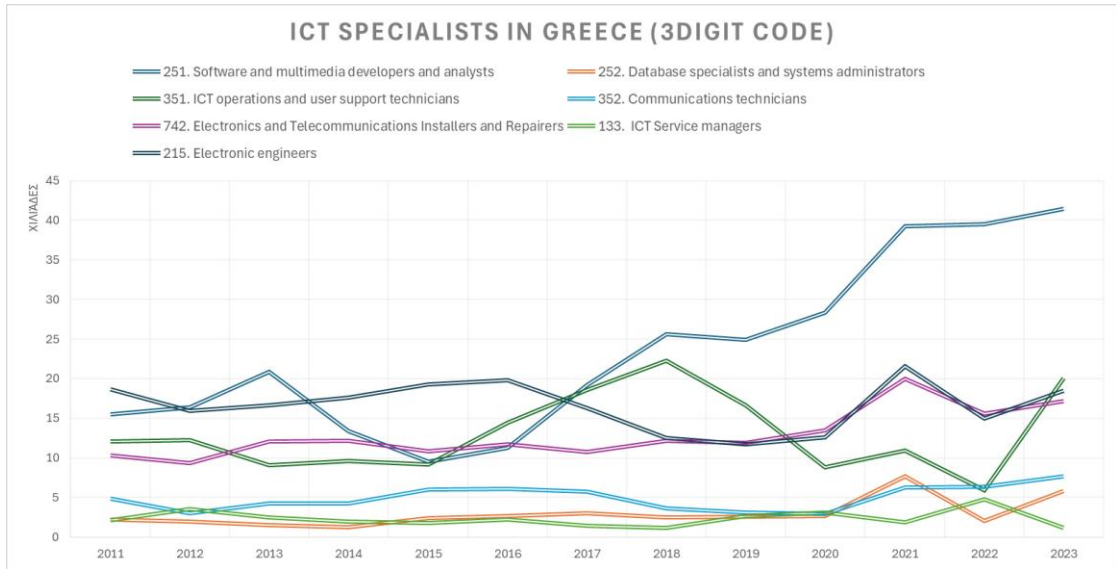


Figure 2. ICT Specialists in Greece, Digital Strategy Dept., Data from the Mechanism of Labour Market Diagnosis

The national trajectory of ICT Specialists in Greece, is based on in-depth analysis of the underlying data, which are presented in the following,

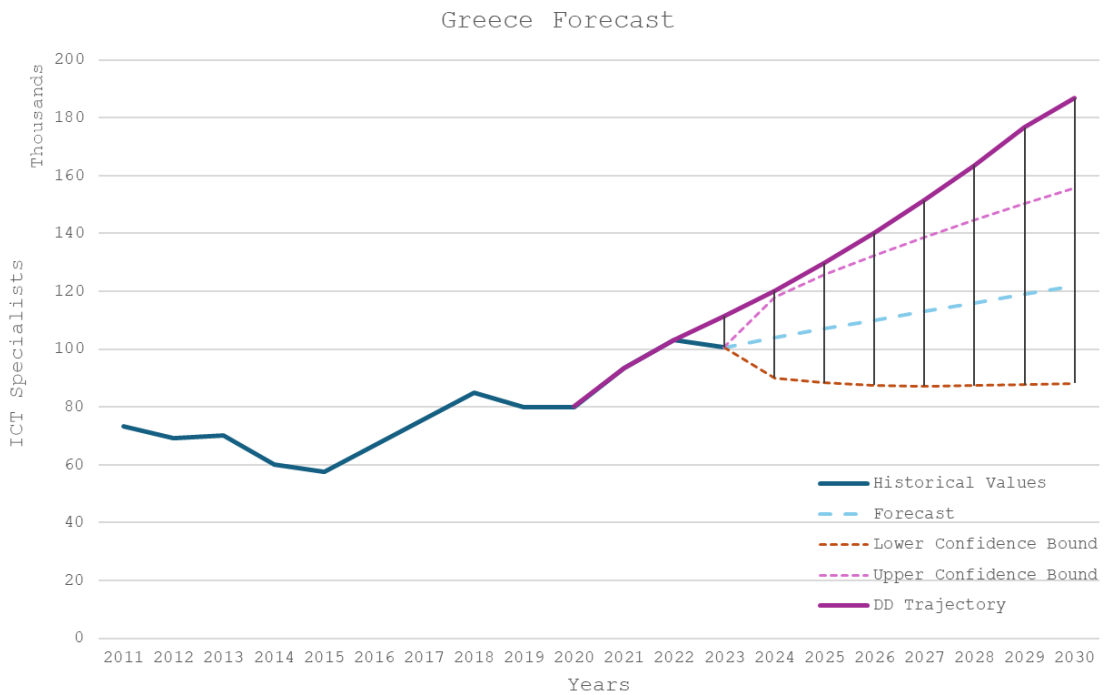


Figure 3. Forecast based on historical data (Eurostat), Digital Strategy dept, Ministry of Digital Governance

The aforementioned data constitute the justification for the setting of the national trajectory.

Finally, it is expected that implementation of almost 1 billion EUR worth of digital transformation projects funded by the Recovery and Resilience Fund will attract new talents in the ICT market and retain them for the subsequent years, where the need to support and maintain the new systems will remain high.



At this stage we are in the process of examining the respective data to assess how upskilling and reskilling actions affect the number of ICT professionals.

### 3.2.2 Review and reinforce the strategy and measures to contribute to the Targets with low level of ambition, the take up of Cloud, data analytics and AI for enterprises

As part of the follow-up actions described in chapter 2, we present the following additional details on a) the main Measures (as presented in the national roadmap) and b) new Measures discovered during the above process which are expected to contribute to the achievement of the digital transformation of enterprises objective by 2030.

Measure	budget (MEUR)	2023	2024	2025	2026	2027	2028	2029	2030
Creation of a National Network of Digital Innovation Hubs	34,30 €					672			
Development of Digital Products and Services	100,00 €	X	X	X					
Research - Create - Innovate 2014 - 2020*	602,36 €			200					
Research - Innovate 2021 - 2027*	300,00 €	123	108						
Smart manufacturing	75,23 €			84					
Digital Transformation of SMEs Programme- Action 3: Edge Digital Transformation of SMEs	60,00 €				125				
Digital Transformation of SMEs Programme- Action 2: Advanced Digital Transformation of SMEs	15,00 €				18	50			
Digital Transformation of SMEs Programme- Action 1: Basic Digital Transformation of SMEs	90,00 €			79	1 909				
Research Excellence Partnerships	128,42 €								
Programme "Digital Tools for SME's"	180,00 €		45 976						
Programme "Digital Transactions"	162,44 €								
Programme Digitalization (Co-Financing Loans)									
Equifund*	292,00 €	X	X						
InnovateNow									
National strategy for the development of artificial intelligence	Reform		N/A						
Law 4961/2022: Emerging ICT technologies and enhancement of Digital Governance	Reform		N/A						
Law 4887/2022 Development Law - Greece Strong Development	Reform		N/A						
Enhancement of the creation and operation of new SMEs (ANT07INM)*	190,00 €					2 636			
Enhancement of the creation and operation of new SMEs in the tourism sector (ANT06INT)*	160,00 €					5 749			
Pharos – The Greek AI Factory for accelerating AI Innovation	30,00 €			X	X	X	X	X	X

Table 2. Measures under the DD targets for Digital Transformation of enterprises (projected information)<sup>18</sup>

\* Only part of the budget applies to digital transformation activities.

The above table presents the number of enterprises (including micro / solo) that are expected to benefit from the listed Measures (new Measures are displayed in purple background and are included in Annex 1).

As discussed in chapter 3.1.1, the DD targets for digital transformation of enterprises do not fully reflect the actual needs of the Greek economy, since the majority of Greek businesses is excluded by definition. However, since the enterprises that contribute to the target are also beneficiaries of the measures undertaken by the government, an increase to the DD objective is also expected. To further demonstrate this, the MDG is planning to specifically include reporting on the DD KPIs in a new round of subsidies for the Digital Transformation of enterprises (part two of Measure Digital Tools for SMEs).

Especially regarding the data analytics dimension, Greece managed to exceed the projected target for 2024 and we are currently evaluating the noted trend.

<sup>18</sup> We noted X where not specific information exists.

The Ministry of Digital Governance gathered analytical output/outcome data (specific for the technologies measured under DD) from businesses for the table 2 measures. It is worth mentioning that Greek businesses demonstrate digital dynamic. This dynamic, and the value creation that accompanies it can be maintained, strengthened and further developed, through central initiatives for an orderly business environment that promotes digital interaction practices, cooperation with the state and contributes to the systematic updating of businesses for the capabilities and integration of technologies.

These results are taken into account for new measures.

### 3.2.3 Implementation of digital rights and principles

The measures proposed in the national digital roadmap are fully aligned with the digital rights and principles, as presented in annex 1.

Apart from that the upcoming national strategy of Greece for the protection of minors online, will be the basis of our efforts to safeguard the online world and provide children and minors with a trustworthy online environment where they are given the same rights, they enjoy everywhere else in their lives. Online activities provide important opportunities for socialization, learning, entertainment, creative expression, and democratic participation.

Alongside the initiatives at EU level to develop advanced age verification and assurance tools, it is imperative to address the root causes of the issue. This includes the deliberate design of algorithmic systems (as seen especially on major social networking platforms) that encourage addictive behaviours through automated profiling, the exploitation of personal data, and the implementation of manipulative persuasive design strategies, leading sometimes to significant health risks for them. This happens without the knowledge of those directly affected and even more so without any consent from parents and those who legally exercise custody over them.

## 4 A competitive, sovereign and resilient EU based on technological leadership

### 4.1 Connectivity Infrastructure

#### 4.1.1 Closely monitor the progress on the gigabit coverage to identify early enough any remaining investment gaps to reach the target for 2030

The availability of VHCN networks continue the positive trend and it is estimated that it now exceeds 50% (2024Q3).

A new telecom infrastructure service provider (Public Power Company) has started the deployment of its own wholesale network, aiming to provide access to VHCN to 1.7 million households by 2025, which is a significant contribution towards reaching the connectivity targets.

The Ministry of Digital Governance monitors the progress of VHCN development, aiming to identify any potential connectivity gaps.

#### 4.1.2 Ensure sufficient access of new players to spectrum for innovative business-to-business (B2B) and business-to-consumer (B2C) applications and encourage operators to speed up the deployment of 5G stand-alone core networks

In the terms of use for radio spectrum licenses granted in 2020, in the frequency bands designated as pioneer 5G bands, the following provision is included:

##### Provision of Access to Vertical Market Enterprises

1. Upon a request from an enterprise/entity operating in a vertical market, the Radio Frequency Use Rights Holder shall negotiate in good faith with such enterprise regarding the provision of any type of access to its Network (such as, by way of example, capacity leasing) or the leasing of frequencies and shall provide such access on reasonable terms for its own use, subject to the provisions on the protection of competition. To ensure this purpose, the EETT may also exercise its regulatory authority, as provided for in the applicable legislation.
2. For the resolution by the EETT of disputes arising from the application of the preceding paragraph, the provisions of EETT Decision 732/4/11-9-2014.
3. The Radio Frequency Use Rights Holder shall inform the EETT, within twenty (20) days of the signing of any relevant contract.”

Furthermore, there are provisions in the legislation since 2020, for the allocation of 10MHz in the 3,5GHz and at least 200MHz in the 26GHz 5G bands, for innovative projects.

In addition, we are exploring the use of 5G network slicing for governmental purposes and evaluating the creation of 5G private networks across various verticals. This approach aims to unlock opportunities for SMEs in these scenarios while encouraging operators to accelerate the deployment of 5G standalone core networks. We are also looking forward for the European Commission's decision on the harmonized use of the 3.8-4.2 GHz band, including for innovative industrial applications, at the upcoming Radio Spectrum Committee meeting in December 2024. This decision is expected to facilitate local connectivity solutions, further supporting our initiatives.

Measure	budget (MEUR)
Smart Readiness	100,00 €
Gigabit Voucher	79,99 €
Sea Spine	24,39 €

Table 3. New measures under the DD targets for Connectivity infrastructure

Regarding the updated 5G coverage rates of the providers, we have asked the providers to send us the updated data, which will be forwarded when we receive it.

## 4.2 Cybersecurity: Continue the implementation of the 5G Cybersecurity Toolbox to ensure secure and resilient 5G networks

The NIS2 directive (EE 2022/2555) was successfully transposed into national legislation on 28<sup>th</sup> of November 2024 (law 5160/2024), resulting in a set of measures that promote cybersecurity across the country. In the following months several measures (many of which as part of secondary legislation) will be deployed in order to facilitate the implementation of NIS2.

## 4.3 Semiconductors, Quantum Technologies, edge nodes

Develop additional measures in due time to accelerate the deployment of digital and data infrastructure and promote the use of digital capabilities and the access to digital technologies.

### 4.3.1 Edge nodes

The respective measures towards edge nodes are:

Measure	budget (MEUR)
A catalyst for European CLOUD Services in the era of data spaces, high-performance and edge computing (NOUS)	0,65 €
Autonomous, scalable, trustworthy, intelligent European meta	0,55 €
Open Autonomous programmable cloud appS & smart Edge Sensors	0,84 €
IoT to Cloud Operating System (ICOS)	0,47 €

Table 4. New measures under the DD targets for edge nodes

### 4.3.2 Quantum computing

The MDG is currently considering incorporation of KPIs included in the [KPI booklet of the Quantum Flagship’s Strategic Advisory Board \(SAB\) and the European Commission](#).

The respective measures towards quantum technology are:

Measure	Budget (MEUR)
Deploying advanced national QCI systems and networks in Greece (Hellas QCI)	9,90 €
PQ-REACT - Post Quantum Cryptography Framework for Energy Aware Contexts	1,50 €
Hellenic Quantum Technology Research Infrastructure (Q-Labs)	4,00 €

Table 5. New measures under DD target for Quantum computing

## 4.4 Transformation of businesses

### 4.4.1 Less digitally mature SMEs

*Consider reinforcing the framework conditions to enable less digitally mature SMEs to adopt digital transition*

The 7 EDIHs of Greece (4 receiving 50% DEP funding) are funding under NSRF programme. In the national call for the funding, the Ministry of Digital Governance put in place the underlying evaluated technologies under Digital Intensity Index as guideline for measuring the actions of the EDIHs.

The 3 EDIHs (seal of excellence) are in the preliminary phases (set up during the last 6 months) and do not have any results at the moment.

For the 4 EDIHs funded under DEP programme, the following table presents data from the three responses received as of the time of writing (30 November 2024).

EDIH	Micro/Solo	Small	Medium
SmartAttica	148	52	6
SmartHealth	22	11	2

DigiAgrifood	342	83	6
digigoV-innoHUB	8	5	2

Table 6. EDIHs operating in Greece

#### 4.4.2 Cloud, AI and Data analytics uptake

*Consider reinforcing the framework conditions to enable all enterprises to benefit from the data economy by a rapid adoption of advanced technology (AI, cloud, data analytics) as a competitive advantage*

Measure	budget (MEUR)
Angel investor Common Ministerial Decision 39937/2021	Reform
Multiannual Funding Plan for Research Infrastructures	73,00 €
Reshaping the Research Infrastructure Roadmap	120,00 €
Industrial Data Platforms	145,00 €
Enhancement of national research infrastructures and digital services	207,42 €
Platform for start-ups (spin-offs)	3,31 €
Networks of Technology Transfer Networks 2021-2027	25,00 €
Co-Working Spaces	1,80 €

Table 7. Major Research and Innovation measures in Greece

The Research & Development (R&D) Expenditure Intensity in Greece is increasing, where the expenditure of the government sector is steadily above EU average since 2015, in contrast of the business enterprise sector which is almost half of the EU<sup>19</sup>. Furthermore, there are two issues with the Intramural R&D expenditure (GERD)<sup>20</sup> in Greece.

42.77% for the Government Sector is above the EU Average (30.29%)  
37.91% for the Business sector is below the EU Average (57.67%).

### Regarding Artificial Intelligence

The study [Generative AI Greece 2030](#) was carried out in the autumn of 2023 by the National Centre for Social Research and the National Research Centre for Natural Sciences “Demokritos”, with the support of the Special Secretariat

<sup>19</sup> [https://ec.europa.eu/eurostat/databrowser/view/tsc00001\\_custom\\_14300896/default/table?lang=en](https://ec.europa.eu/eurostat/databrowser/view/tsc00001_custom_14300896/default/table?lang=en)

<sup>20</sup> [https://ec.europa.eu/eurostat/databrowser/view/tsc00031\\_custom\\_14300946/default/table?lang=en](https://ec.europa.eu/eurostat/databrowser/view/tsc00031_custom_14300946/default/table?lang=en)

for Strategic Foresight. It is the first empirical research approach of strategic foresight for the use of Generative Artificial Intelligence in Greece. The aim of the study is to formulate a framework of strategic initiatives and policy recommendations, as derived through the findings, regarding the impact of the domestic ecosystem of Generative Artificial Intelligence, with a time horizon of 2030.

On the 25<sup>th</sup> of November 2024, Greece published the “Plan for the transition of Greece to the Artificial Intelligence Era” elaborated by a high-level committee appointed by the Prime Minister<sup>21</sup>. This policy proposal aims not only at the development of the Greek economy and society, but also at shielding them against the risks inherent in the unregulated use of IT and includes a special chapter on how AI can boost innovation and enhance the business ecosystem.

The Special Secretariat of Strategic Foresight is also promoting the use of AI through a video series addressed to citizens and businesses<sup>22</sup>.

In addition, the MDG is planning to motivate adoption of AI technologies by enterprises which is expected to also facilitate access to AI infrastructures, To this end:

- a new TSI 2024 program funded by DG Reform for the period of 2025-2027 by establishing a governance framework and tools.
- Three focus groups have already been organized by the MDG regarding facilitation of data sharing, as a potential source of developing AI solutions (under the TSI 2022 program “22EL03 Next Generation of Digital Public Services”).
- One proposal for the creation of an AI Factory in Greece has been accepted in December 2024 in the context the relevant call of the European Commission in September, aiming to be a “one-stop-shop” where businesses and organizations can get expertise and support for the development of artificial intelligence applications, data and tools, and even support for their business viability.

Furthermore, Greece is participating in

- the “Accelerate the regulation compliance of European AI solutions” proposal in the framework of Digital Europe Program,
- the LLM Booster for Regional Innovation and Digital Growth in Europe programme, regarding an MCP project which meet all the requirements set out in Article 11 of the Digital Decade Policy Programme 2030 and which are necessary to the achievement of the general objectives over time due to emerging social and economic development reusing European common data infrastructure and services that will be offered by the ALT-EDIC and the European high performance computing.

---

<sup>21</sup> [https://foresight.gov.gr/wp-content/uploads/2024/11/Sxedio\\_gia\\_tin\\_metavasi\\_TN\\_Gr.pdf](https://foresight.gov.gr/wp-content/uploads/2024/11/Sxedio_gia_tin_metavasi_TN_Gr.pdf)

<sup>22</sup> <https://foresight.gov.gr/deltia-typou/1522/texniti-noimosyni-to-mellon-einai-edo-deite-tin-seira-ton-ekpompon-20240926>



Regarding KPI for Data Analytics, Greece is already achieving the trajectory targets, however we are also proceeding with further work on the following measures:

- Data Governance & Sharing practices
- Big Data project results dissemination

One of Europe's first Artificial Intelligence (TN) factories will be built in Greece, as the proposal submitted by the Ministry of Digital Governance "Pharos – The Greek AI Factory for accelerating AI innovation" was approved, in the framework of the European AI Factories Initiative of the EuroHPC Joint Undertaking.

#### 4.4.3 Cloud only uptake

- Stimulate the adoption of next generation cloud infrastructure and services by companies of all sizes, including by liaising with the Cloud IPCEI Exploitation office and/or the coordinators and the Member States participating in the IPCEI-CIS.

Following the above the recommendation, the Ministry of Digital Governance already conducted a meeting on 14.11.2024 to be informed about CISERO project (part of which is University of Piraeus) and any further possibilities on collaboration. The setup of the project seems to be in early stages and we will be in touch for further discussions.

## 5 Protecting and empowering EU people and society

### 5.1 Basic Digital Skills

- Review and consider whether additional targeted measures to train the population are sufficient to reach the target, boost the resilience of the economy and society and achieve inclusive growth.

The country's first participation in 2023 in the International Computer and Information Literacy Study (ICILS) survey offers very useful conclusions on the use of digital technologies in schools as well as on the policies that need to be implemented in order for Greece to move up to digital speed at all levels of education.

Measure	budget (MEUR)	2023 2024 2025 2026 2027 2028 2029 2030								
National Academy of Digital Capabilities and the creation of an integrated information system for the development of Digital Skills	4,22 €					50 000				
Development of Model Digital Centers in all regions	5,57 €			6 515	116 675	168 675	168 675	168 675	168 675	
Development of digital skills for recruits	71,79 €									
Upgrade of the Digital Skills of Civil Servants and Local Government Employees	20,00 €									
Cisco International Centre of Digital Transformation and Digital Skills			379							
Microsoft initiative "GR for Growth"										
Re-skilling and up-skilling in the tourism sector by the Ministry of Tourism	45,04 €									
Teacher Training Actions	16,52 €			155 000						
Adaptation of workers in private sector companies by upgrading their digital knowledge and skills, in specialities of the Blue Economy activities	12,57 €									
Promotion of employment through Programs Public Beneficial Character (Training voucher)	6,86 €									
A New Strategy for Lifelong Skilling: Modernising and Upgrading Greece's Upskilling and Reskilling System	2,23 €									
Measure "e Twinning Greece"		16 557	19 740	23 688	28 426	32 689	37 593	41 352	45 487	
MySchool										
Integrated Training and Employment Action for unemployed people aged 25 to 45	49,73 €		1 810 (4 449)							
Upskilling or reskilling in basic and digital skills for a diverse set of social groups and sectors	5,55 €									
Horizontal upskilling/reskilling programs to targeted populations	168,24 €	21 625 (77 258)								
DYPA grant for the implementation of Project "Horizontal upskilling/reskilling programs to targeted populations" and implementation of publicity actions by Executive Unit NSRF of Ministry of Labor & Social Affairs	504,07 €	16 869 (49 231)								
Upskilling/reskilling programmes in high-demand sectors, with particular emphasis on digital and green skills, for unemployed people and private-sector employees through Universities (KEDIVIM)	11,88 €									
Certified distance training programme for 30 000 unemployed people via digital platform	28,45 €			30 000						
Enhancing the digital skills of judicial staff	32,48 €									
Upskilling or reskilling for a diverse set of social groups in high demand sectors	103,74 €									
Scale-up of open-framework pilot programs for 35 thousand people (30 600 unemployed)	54,79 €				35 000					

Table 8. Measures under the DD targets for Basic Digital Skills (projected information)

\* Only part of the budget applies to digital transformation activities.

Please note that the measures under DD target “Basic Digital Skills” also contribute to the target ICT Specialists, and visa versa.

## National Portal of Digital Skills for citizens

The National Academy for digital Competencies of the Ministry of Digital Governance currently offers 33 lessons covering basic skills (Level A1-A2) and 81 above basic (Levels B-D). Furthermore, a lot of lessons are for ICT Specialist training.

## Basic Digital Skills Competences (not measured)

According to the law 5029/2023 (A55) "We live together in harmony - Breaking the silence" which provides regulations for the prevention and treatment of violence and bullying in schools, the platform stop-bullying.gov.gr was launched in April 2024. This platform is an one-stop service point for members of the school community, for the prevention and response to inter-school violence. It provides reporting of an incident of domestic violence and bullying by parents or by pupils. Already 751 (691 parents/guardians, 60 pupils) reports have been submitted. From May until September anonymized surveys were conducted among members of the school community to determine the status of the phenomenon of domestic violence and bullying (participation Students: 50 364, Parents: 13 672, Teachers: 10 028).

In addition, a teacher training platform <https://stop-bullying.gov.gr/learn> is included, where so far they have registered:

750 members in the four-member action teams of the Directorates of Education

25 450 members in the two-part special teams of the school units.

This action is of great importance for the Greek government and although it is included in the Use of Information and Communication Technologies by households and individuals (ICT) (DigComp - competence area 4.3)<sup>23</sup>, which practically concerns cyberbullying, it is not measured under the Digital Decade (DD) target for basic digital skills. Furthermore, “Green Technologies” (DigComp - competence area 4.4)<sup>24</sup> are also measured under the same survey, but not included in the DD target.

## Upskilling/Reskilling (not measured)

The advanced digital skills refer to population having more than one competence per competence area.

However, no measurement is made towards the market need or foresight of the jobs of the future in order to further guide the digital transformation.

## 5.2 ICT Specialists

- Reinforce the strategy and the measures to increase the number of ICT specialists and retain the best talents.

Measure	budget (MEUR)	2023 2024 2025 2026 2027 2028 2029 2030								
		2023	2024	2025	2026	2027	2028	2029	2030	
The "Rebrain Greece" initiative										
Vocational Education & Training Reform	131,00 €									
New Institutional Framework for Lifelong Learning and skills development	2,23 €									
Innovation Hubs and Data Centers by Private Sector	1.000,00 €									
Industrial PhDs*	36,23 €									
Implementation of digital skills upskilling programmes in the exploitation and management of innovative digital technologies	62,50 €			26 500	26 500	26 500				
Visa for Digital Nomads ( Law 4825/2021)	Reform									
Project "Choose Greece"	Reform									
Creating New Computer Science Curricula/Multiple Book with Digital Learning Objects (Writing, Evaluation and Inclusion of textbooks in the Textbook Register and the Digital Textbook Library)	30,97 €		X	X	X					
Integrated Digital Information System for Primary and Secondary Education - Digital Services for Schools (eSchools)	12,95 €	X	X	X						
Implementation of the innovative action "Competence Labs - 21+ Skills Workshops"	34,99 €									
Transforming conventional curricula and educational content into open source, interactive digital environments accessible to all with built-in artificial intelligence	79,76 €	X	X	X						
Skills Workshops: robotics and STEM - Supply of robotics and STEM equipment for education	30,12 €	X	X							
Supply and Installation of Interactive Learning Systems	152,37 €									
Post-Secondary Academic Year - Apprenticeship Class of EPA.L	25,00 €	206	237	272	313	360	414	476	548	
Schools of Advanced Vocational Training (SAEK)	80,75 €	994	1 000	1 000	1 000	1 000	1 000	1 000	1 000	
Upgrading Vocational Education and Training (VET): Supply of laboratory equipment for Laboratory Centres	110,78 €									
Oracle Academy		X	X	X	X	X				
National Coalition for Digital Skills and Jobs (NC) - MyLearn Oracle University			1 000	800	500	500				

Table 9. Measures under the DD targets for ICT Specialists (projected information)

\* Only part of the budget applies to digital transformation activities.

## ICT Skills needed

<sup>23</sup> DigComp competence area 4.3: To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.

<sup>24</sup> DigComp competence area 4.4: To be aware of the environmental impact of digital technologies and their use.

According to the Mechanism of Labour Market Diagnosis, businesses in the ICT sector present the highest staff proficiency in digital skills. The most important digital skills needed for the ICT sector were assessed as:

- a) Protecting devices and digital content, as well as Understanding risks and threats in digital environments,
- b) Organizing, storing and retrieving data, information and content in digital environments,
- c) Identifying technical problems when handling devices and using digital environments and
- d) Creating and managing one or multiple digital identities, ability to protect personal and corporate reputation.

Summarizing, as the country moves forward and becomes more stable, enhancing basic digital skills for everyone is crucial. The Greek government, taking into account the observations of the European Commission, has implemented actions (table 8 & 9) that help improve and align the country with the Digital Decade (DD) objectives. This includes teaching people how to use computers and the internet safely and effectively. By integrating digital skills into school curriculums and ensuring access to technology and the internet across both urban and rural areas, Greece aims to prepare its citizens for jobs in today's digital world. It's not just about learning to use technology, but also understanding how to find reliable information online and communicate effectively using digital tools. Through collaboration with businesses and community organizations, the country strives to ensure that everyone, regardless of their location or background, can acquire these essential skills, thereby fostering economic growth and success in the global market.

### 5.3 Digital Identity

- Greece should notify to the Commission an e-ID scheme under the eIDAS Regulation.

Hellenic Police is currently issuing new IDs to the citizens, which will include the unique Personal Number, replacing the TIN, Social Security Number (AMKA) and the current number of police identity card. The unique Personal Number is planned to be the base of the eIDAS scheme. Since September 2023 about 1 million people have received the new ID. Given the fact that Greece has 6.5 million adults citizens, Ministry of Digital Governance in October 2024 published a new service to book an appointment, in order to provide more freedom to the citizens on the selection of the police station as well as automating the process and reducing the service time.

Furthermore, Greek Gov Wallet will soon be upgraded to hold online valid information about the documents. A new measure (New eID Infrastructure and integration with Gov.gr Wallet and the new ID cards) is introduced to upgrade and expand the Gov.gr Wallet application that will consider the compliance with the European eIDAS 2.0 and EUDI Wallet standards.

Last but not least, Greece and Cyprus cooperated so that Cypriot identities and documents are recognized and identified in Greece as national and vice versa. We are currently working and planning to pre-notify in due time.

## 5.4 e\_Health

- Make the data types of medical imaging reports and medical images available to people through the online access service
- Ensure that the online access service complies to web accessibility guidelines.

As already noted above, the above aspects of the eHealth KPI, are documented in the national roadmap. The measure Digital Transformation of the Health Sector is funded by RRF and is expected to contribute towards the indicator by the end of 2025 – measurement in 2026. Currently no further action is required.

More specifically, the new Measure “Installation of RIS/PACS systems and transcription of medical acts and opinions in public hospitals and PHC structures of the country” is being implemented and the medical imaging reports and medical images will be available to doctors and citizens.

Based on the implementation timeline, the Section 1 and 2 (75 hospitals) will be integrated by the end of November 2024, the Section 3 by the end of December 2024 (13 hospitals), while the last 22 hospitals will be integrated in May 2025.

Furthermore, via the Electronic Personal Health Record (AIFI)<sup>25</sup>, citizens can access already tests results of haematology and biochemistry laboratories from public hospitals and many private laboratories. The project “National Electronic Health Record” (EHRF) (under the DD Measure 4B01M Digital transformation of the health sector), the results will be enriched with the pathology laboratories by the end of December 2024 and will also get data from 'Installation of RIS/PACS and medical transcription systems and opinions in the public hospitals and PHC structures of the country'.

---

<sup>25</sup> <https://www.gov.gr/en/ipiresies/ugeia-kai-pronoia/phakelos-ugeias/atomikos-elektronikos-phakelos-ugeias-aephu-gia-polites>

# 6 Leveraging digital transformation for a smart greening

## 6.1 Twinning Digital and Green Transitions

- Develop a coherent approach to twinning the digital and green transitions. First, promote improvements in energy and material efficiency of digital infrastructure, in particular data centres.

Workshop software quality assurance – with environmental dimension

Ministry of Digital Governance is promoting (held a Workshop software quality assurance), in order to evaluate the programming results (efficient coding to reduce the energy consumption).

Below there are some examples from Greece that focus on Green and Digital Transformation.

### 1) Participants in the European Code of Conduct for the Energy

#### **Efficiency of Data Centers (<https://e3p.jrc.ec.europa.eu/node/575>)**

The General Secretariat of Information Systems and Digital Governance of the Ministry of Digital Governance (GSISDG- [www.gsis.gr](http://www.gsis.gr)) manages one of the largest Public Administration data centers (**G-Cloud Moschato**) in Europe. GSISDG is the first public Greek Authority and one of the first in the European Union, which has been included as a Participant in the European Code of Conduct for the Energy Efficiency of Data Centers (European Union Code of Conduct – EU DC CoC).

Another important participant is the company Digital Realty Hellas (<https://www.digitalrealty.com/>) that operates two data centers in the Region of Attica in Greece.

### 2) Green Data Center on river Louros

The National Infrastructures for Research and Technology, in Athens, Greece, operating under the auspices of the Greek Ministry of Digital Governance (GRNET) has installed a Green Datacenter on river Louros in Epirus. This data centre is based exclusively on renewable energy sources. The data centre is located close to the artificial hydroelectric dam of the PPC (DEH) station in Filippiada. It uses water from the river for the operation of the air conditioning system and the cooling of the IT systems.

### 3) Data & Services Center for the Health Sector

GRNET has also installed and operates a data and services center that serves hospitals. The data center is housed at the University of Crete in

Heraklion and hosts cloud computing services for the 31 connected hospitals in 8 regions of the country. A 100 KWp photovoltaic system has been installed and used.

**4) New European World-Class Supercomputer in Greece (DAEDALUS)**

The National Infrastructures for Research and Technology, in Athens, Greece, operating under the auspices of the Greek Ministry of Digital Governance is implementing a new Supercomputer that will be located in new data centre located in the building of the former Power Station of the Lavrion Technological Cultural Park of the National Technical University of Athens. This new data center is part of the European High Performance Computing Joint Undertaking (EuroHPC JU) and it will be powered by renewable energy systems and modern cooling systems will be used, so that there is a low energy cost and minimal environmental burden.

**5) CBDC powered Smart PerFORrmance contractTs for Efficiency, Sustainable, Inclusive, Energy use (FORTESIE)**

General Secretariat of Information Systems and Digital Governance of the Ministry of Digital Governance (GSISDG) and the Decision Support Systems Laboratory (DSSLab) of National Technical University of Athens participate in a horizon project FORTESIE (<https://fortesie.eu/>) that goes towards the implementation of a reference architecture and pool of components which can be synthesised in various services, exchanged with other components implemented differently but most importantly expanded with the addition of new ones to serve new business services for other actors.

Installation of energy saving or metering equipment worth half million € is also included:

- Autonomous photovoltaic system (net metering) with a supplied power of up to 85kW
- Power inverters (inverters) in air conditioning-ventilation equipment (HVAC)
- Sensors measuring temperature, humidity, carbon dioxide (CO<sub>2</sub>) in office and common areas
- Multi-instruments for measuring consumption of the air conditioning-ventilation system (CCV) and lighting
- Energy consumption management and energy netting platform

**6) Green Public Procurement**

The General Secretariat of Commerce of the Ministry of Development has prepared the National action plan for Green and Innovative public procurement. In this regard specific guidelines have been produced for the public sector bodies.

**7) Framework for the provision of Digital Public Services**

General Secretariat of Information Systems and Digital Governance of the Ministry of Digital Governance (GSISDG) is preparing a set of guidelines for the efficient implementation of public services considering the computational power required for the operations and, therefore, the energy consumption requirements.

**8) Mobilization of private investments for Data Centres**



The Greek government stimulates Private Investments in Green Data Centers and Edge Computing. Prominent examples include the recent data centre deployment agreements with Amazon, Google and Microsoft. Tax incentives, and government support enhance its appeal for cloud investment and digitalisation. The Greece 2.0 recovery plan allocates over 6.4 billion euros for tech advancements, reinforcing its leadership in the regional tech sector.

#### **9) International collaboration**

The Ministry of Digital Governance of the Hellenic Republic (Greece) and the Ministry of Investment of the United Arab Emirates (UAE) have signed a Memorandum of Understanding (MoU) to create a framework for investments in digital infrastructure with a focus on data centre projects in Greece. The MoU will enable UAE to help Greece develop data centres that can reach a capacity of 500 MW.

## **6.2 Monitor and quantify the emission reductions of the deployed digital solutions**

- Second, support the development and deployment of digital solutions that reduce the carbon footprint in other sectors, such as energy, transport, buildings, and agriculture, including the uptake of such solutions by SMEs.

Greece is participating in the GR-HDAB project which aims at creating the national Health Data Access Body Infrastructure and its interconnection with the European central cross-border infrastructure HealthData@EU.

## **7 Conclusions**

We need two more weeks for elaborating all the information that we have collected towards the Digital Decade Targets. The final conclusions will be extracted in the end of this process.

## 8 Annex 1 – List of new Measures

This annex will be revised in the next two weeks.

### Measure - Smart Readiness ([link to RRF 16818](#))

<p><b>Short description of the measure</b></p>	<p>The project aims to upgrade in-building cabling infrastructures to enable VHCN connectivity, as well as to support smart services, e.g. interconnection with smart meters of public utility networks.</p> <p>In the framework of the action, it is foreseen to subsidize part of the costs of the works corresponding to the above-mentioned works. The total amount of aid per building is determined based on the number of floors, horizontal properties and the category of work to be carried out.</p> <p><i>Link to the target:</i> The programme will contribute to the increase of the adoption of VHCN services, as well as it will upgrade smart readiness of the existing buildings.</p> <p><i>Tentative timeline:</i> The programme started in 2023 and it will be implemented until 31/10/2025.</p>
<p><b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b></p>	<p>Total: €100.000.000,00 (RRF)</p>
<p><b>Expected impact and related timing:</b></p>	<p>The schemes aim to facilitate VHCN services adoption by households and SMEs, as well as to upgrade smart readiness of the buildings.</p> <p>The vouchers should have been redeemed by 31.10.2025.</p>

### Measure - Gigabit Voucher ([link to RRF 16818](#))

<p><b>Short description of the measure</b></p>	<p>The project aims to subsidize, through vouchers, households and SMEs which are connected to internet with lower than 100 Mbps speed, to obtain VHCN services, of at least 250 Mbps download speed.</p> <p>The total value of a voucher is 200 EUR and it covers part of the connection cost and/or part of the service cost.</p> <p><i>Link to the target:</i> The programme will contribute to the increase of the adoption of VHCN services.</p> <p><i>Tentative timeline:</i> The programme started in November 2024, and it will be implemented until 31/12/2025.</p>
------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	Total: €79.999.921,00 <ul style="list-style-type: none"> <li>• National: allocated</li> <li>• RRF: €22.875.390,00</li> </ul>
<b>Expected impact and related timing:</b>	To foster the adoption of VHCN services by households and SMEs.  The measure is complementary to the Smart Readiness Vouchers scheme and it will be implemented in 4 phases, namely: <ol style="list-style-type: none"> <li>1. Phase A: 200.000 Gigabit vouchers &amp; 60.000 Smart Readiness vouchers.</li> <li>2. Phase B: 100.000 Gigabit vouchers &amp; 30.000 Smart Readiness vouchers.</li> <li>3. Phase C: 50.000 Gigabit vouchers &amp; 15.000 Smart Readiness vouchers.</li> <li>4. Phase D 50.000 Gigabit vouchers &amp; 15.000 Smart Readiness vouchers.</li> </ol> The vouchers should have been redeemed by 31.12.2025.

### Measure - Sea Spine

<b>Short description of the measure</b>	SEA-SPINE's overall objective is to construct 7 new submarine optical fiber links in the Aegean Sea, along with the required terrestrial and fiber optic networking works. In particular, the submarine links involve 11 Greek islands, namely Amorgos, Astypalea, Kos, Sifnos, Folegandros, Euboea, Chios, Lesvos, Limnos, Thasos, and Skyros, while the overall length of the newly deployed submarine backbone infrastructure will extend across 563 km for the submarine segment and 231 km for the terrestrial one that will interconnect the submarine links to the respective exchange points.  <i>Link to the target:</i> The project aims to increase availability and resilience of connectivity services in the islands.  <i>Tentative timeline:</i> The project started in 01.01.2024 with 3 years duration.
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	Total: €24.394.000,00 CEF: €7.776.900,00 Private: €16.617.100,00
<b>Expected impact and related timing:</b>	The project is expected to substantially increase network capacity, reduce network latency for critical applications and to ensure traffic protection.  The project started in 01.01.2024 with 3 years duration.

### Measure – Pharos – The Greek AI Factory for accelerating AI innovation

<b>Short description of the measure</b>	"FAROS" will be the meeting point of the academic and research community, the public and private sector. The aim is to produce new
-----------------------------------------	------------------------------------------------------------------------------------------------------------------------------------

	<p>services using AI with emphasis on the following three areas: Health, Greek Language and Culture, as well as Sustainable Development. In this context, it will contribute decisively to the development and continuous support of an innovative and competitive ecosystem of start-ups and SMEs. This is a project with a total budget of ECU 30 million. 50% funded by the EuroHPC Joint Undertaking and 50% by National Funds, while its launch is scheduled for March 2025, with a total duration of 36 months.</p> <p>It is part of the flagship projects of the Plan for Greece's Transition to the AI Era, formulated by the High-Level Advisory Committee on AI. It will use the high-performance computing infrastructure of the supercomputer "DAIDALOS", allowing seamless cooperation with other European infrastructures. The collaboration of AI Factories of all countries will enable the total results produced to be used for the benefit of all citizens of Europe.</p> <p><i>Link to the target:</i></p> <p><i>Tentative timeline:</i> The programme started in 2025, and it will be implemented until 2027</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	Total: 30.00 MEUR
<b>Expected impact and related timing:</b>	

**Measure – A catalyst for European CLOUD Services in the era of data spaces, high-performance and edge computing (NOUS)**

<b>Short description of the measure</b>	<p>NOUS will develop the architecture of a European Cloud Service that allows computational and data storage resources to be used from edge devices as well as supercomputers, through the HPC network, and Quantum Computers. NOUS will be an Infrastructure-as-a-Service (IaaS)/Platform-as-a-Service (PaaS) cloud provider, harnessing edge computing and decentralisation paradigms to incorporate a wide array of devices and machines in its computational flow to provide leaps in Europe's capability to process vast amounts of data.</p> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in 2024, and it will be implemented until 2027.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<p>Total: 0,65 MEUR</p> <ul style="list-style-type: none"> <li>● National: allocated</li> <li>● EU: MEUR allocated through</li> <li>● Private: MEUR</li> </ul>
<b>Expected impact and related timing:</b>	

**Measure – Deploying advanced national QCI systems and networks in Greece (Hellas QCI)**

<b>Short description of the measure</b>	<p>The main objective of HellasQCI project is to deploy advanced National QCI systems and networks. Its architecture comprises of three metropolitan test sites located at major cities of Greece namely: HellasQCI-Central (Athens), HellasQCI-North (Thessaloniki) and HellasQCI-South (Heraklion-Crete). Each test-site is divided into Governmental and Industrial testbeds, which allow the project to investigate the field deployment of QKD technologies in a plethora of realistic scenarios and use cases addressing National Security, Public Health, Critical Infrastructure and ICT sector.</p> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in 2023, and it will be implemented until 2026</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<p>Total: 9,99 MEUR</p> <ul style="list-style-type: none"> <li>● National: allocated</li> <li>● EU: (50%) MEUR allocated through</li> <li>● Private: MEUR</li> </ul>
<b>Expected impact and related timing:</b>	<p>Hellas QCI cross border terrestrial connection with Italy and Bulgaria, as well as space cross border connection through satellite with MS such as Cyprus, the Netherlands, Germany, Italy.</p> <p>It will submitted under the current EUROQCI CEF call (still open)</p>

### Measure – Hellenic Quantum Technology Research Infrastructure (Q-Labs)

<b>Short description of the measure</b>	<p>Q-LABS is new distributed RI that aims to fill the lack of a national entity focused on QTs. The goal is to unify under the same umbrella Groups from five scientific Institutions distributed across the Country with excellence and proven leadership in QTs. Responsible Authority: National Centre for Scientific Research "Democritos"</p> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in 2025, and it will be implemented until 2027.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<p>Total: 4,00 MEUR</p> <ul style="list-style-type: none"> <li>● National: allocated</li> <li>● EU: NSRF 2021-2027 MEUR allocated through</li> <li>● Private: MEUR</li> </ul>
<b>Expected impact and related timing:</b>	<p>The scientific objectives of Q-LABS are set under the QT-pillars of (i) Quantum Computing, (ii) Quantum Materials, and (iii) Quantum Devices &amp; Circuits. They implicitly cover quantum simulation, communication, and sensing &amp; metrology as well. It is the vision and mission of Q-LABS to connect fundamental scientific research conducted mostly in public academic institutions with applied research driven by industry's needs.</p>

### Measure – PQ-REACT - Post Quantum Cryptography Framework for Energy Aware Contexts

<b>Short description of the measure</b>	<p>The main objective of PQ-REACT project is to design, develop and validate a framework for a faster and smoother transition from classical to post-quantum cryptography for a wide variety of contexts</p>
-----------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>and usage domains, while leveraging Europe's most powerful Quantum infrastructure (IBM Quantum Computer from Fraunhofer FOKUS). This framework will include PQC migration paths and cryptographic agility methods and will develop a portfolio of tools for validation of post quantum cryptographic systems, that will allow users to switch to post-quantum cryptography, taking under consideration their individualities and various contexts and a wide variety of real world pilots, i.e., Smart Grids, 5G and Ledgers. The project will also foster a series of open calls for SMEs and other stakeholders to bring and test their PQC algorithms and external pilots on the PQ-REACT, Quantum Computing Infrastructure.</p> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in 2023, and it will be implemented until 2026.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<p>Total: 1,50 MEUR</p> <ul style="list-style-type: none"> <li>● National: allocated</li> <li>● EU: MEUR allocated through</li> <li>● Private: MEUR</li> </ul>
<b>Expected impact and related timing:</b>	

### Measure – Autonomous, scalable, trustworthy, intelligent European meta Operating System for the IoT edge-cloud continuum (aerOS)

<b>Short description of the measure</b>	<p>aerOS aims at transparently utilising the resources on the edge-to-cloud computing continuum for enabling applications in an effective manner while incorporating multiple services. The overarching goal of aerOS is to design and build a virtualized, platform-agnostic meta operating system for the IoT edge-cloud continuum. aerOS will enable distributed computing and storage, by orchestrating services on heterogeneous (hardware) nodes running various operating systems.</p> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in 2023, and it will be implemented until 2025.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<p>Total: 0,55 MEUR</p> <ul style="list-style-type: none"> <li>● National: allocated</li> <li>● EU: MEUR allocated through</li> <li>● Private: MEUR</li> </ul>
<b>Expected impact and related timing:</b>	

### Measure – Open Autonomous programmable cloud appS & smart Edge Sensors (OASEES)

<b>Short description of the measure</b>	<p>The goal of the OASEES project is to create an open, decentralized and intelligent programmable framework for edge and swarm architectures, which will enable the development of next-generation applications across multiple locations and platforms. The approach is based on the utilization of smart edge nodes, decentralized autonomous organizations (DAOs) and blockchain technologies to enhance transparency, security and efficiency. The expected impact includes improving data management in decentralized environments, reducing reliance on centralized infrastructure, and driving innovative applications in various sectors, such as health, renewable energy, and security.</p> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in 2023, and it will be implemented until 2025.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<p>Total: 0,84 MEUR</p> <ul style="list-style-type: none"> <li>● National: allocated</li> <li>● EU: MEUR allocated through</li> <li>● Private: MEUR</li> </ul>
<b>Expected impact and related timing:</b>	

### Measure – IoT to Cloud Operating System (ICOS)

<b>Short description of the measure</b>	<p>The ICOS project aims at covering the set of challenges coming up when addressing this continuum paradigm, proposing an approach embedding a well- defined set of functionalities, ending up in the definition of an IoT2cloud Operating System (ICOS). ICOS expects to design, develop and validate a meta operating system for a continuum, by addressing the challenges of: i) devices volatility and heterogeneity, continuum infrastructure virtualisation and diverse network connectivity; ii) optimised and scalable service execution and performance, as well as resources consumptions, including power consumption; iii) guaranteed trust, security and privacy, and; iv) reduction of integration costs and effective mitigation of cloud provider lock-in effects, in a data-driven system built upon the principles of openness, adaptability, data sharing and a future edge market scenario for services and data.</p> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in 2023, and it will be implemented until 2025.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<p>Total: 0,47 MEUR</p> <ul style="list-style-type: none"> <li>● National: allocated</li> <li>● EU: MEUR allocated through</li> <li>● Private: MEUR</li> </ul>
<b>Expected impact and related timing:</b>	



**Measure – Creating New Computer Science Curricula/Multiple Book with Digital Learning Objects (Writing, Evaluation and Inclusion of textbooks in the Textbook Register and the Digital Textbook Library) MIS 6010165 NSRF Human Resources and Social Cohesion**

<p><b>Short description of the measure</b></p>	<p>The project concerns the inclusion of textbooks in the Register of Textbooks and the Digital Library of Textbooks, aiming at the digitization and availability of teaching materials for all levels of education (Kindergarten, Primary School, Secondary School, High School). The books will be organised in teaching packages and will be available in digital format, while school units will choose the packages to receive the books in printed form.</p> <p>The Act comprises two main strands of action:</p> <ol style="list-style-type: none"> <li>1. Creation of a Register of Evaluators: Establishment of four-member Scientific Evaluation Committees to evaluate the submitted books, which must meet specific quality criteria.</li> <li>2. Compensation for use: Payment of compensation to beneficiaries for the use of the teaching packages, based on the percentage of use of the books in each classroom.</li> </ol> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in, and it will be implemented until.</p>
<p><b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b></p>	<p>Total: 30 965 142.80 EUR</p> <ul style="list-style-type: none"> <li>• National: allocated</li> <li>• EU: MEUR allocated through</li> <li>• Private: MEUR</li> </ul>
<p><b>Expected impact and related timing:</b></p>	<p>The project provides for the establishment of some 340 Scientific Evaluation Committees and the evaluation of 688 teaching packages and 72 000 digital learning objects. It is being implemented through a sub-project involving the establishment of the Register of Evaluators, the support of the Scientific Committees and the payment of allowances to the beneficiaries.</p>

**Measure – Integrated Digital Information System for Primary and Secondary Education - Digital Services for Schools (eSchools) (RRF 5163941)**

<p><b>Short description of the measure</b></p>	<p>The project concerns the upgrade and expansion of the information systems for Primary and Secondary Education in Greece, aiming at the creation of an integrated and interoperable digital system. This will include the redesign of existing systems or their replacement, if necessary. The new system will incorporate sophisticated Business Intelligence services, which will provide Ministry of Education executives with the necessary information for strategic decisions.</p> <p>The structure of the new information system includes the following subsystems:</p> <ul style="list-style-type: none"> <li>• Ecosystem Member (students, parents, teachers, administrators),</li> <li>• e-Application, e-Assessment and e-Communication,</li> <li>• Interoperability, and</li> <li>• Business Intelligence for Primary and Secondary Education.</li> </ul> <p>The project also includes training and information dissemination actions for users of the new systems.</p> <p>In terms of architecture and security, all applications and systems will be installed in the Government Cloud, such as RE-CLOUD, which will ensure the compatibility and security of the systems.</p>
------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>In order to achieve the objectives of the project, consultancy and design services are required and will be contracted to the Contractor.</p> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in, and it will be implemented until.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	Total: 12 954 483.36 EUR
<b>Expected impact and related timing:</b>	

### Measure – National Coalition for Digital Skills and Jobs (NC) - MyLearn Oracle University

<b>Short description of the measure</b>	<p>Provision of free online digital skills training courses for citizens - Three year Memorandum of Understanding between the Ministry of Digital Governance and Oracle Hellas.</p> <p>MyLearn is a customizable, personalized training portal that enhances and speeds your learning of Oracle Cloud.</p> <p><i>Link to the target:</i> <a href="https://mylearn.oracle.com/ou/home">https://mylearn.oracle.com/ou/home</a></p> <p><i>Tentative timeline:</i> The programme started in, and it will be implemented until</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	
<b>Expected impact and related timing:</b>	2,500 learners (of which Year 1: 500) until 2027

### Measure – Oracle Academy

<b>Short description of the measure</b>	<p>Oracle Academy, Oracle’s global philanthropic educational program, is open to educators around the world to advance technology education, skills, innovation, and diversity and inclusion. We offer academic institutions and their educators free teaching and learning resources—including curriculum, cloud, software, and professional development—that help them prepare students with knowledge, hands-on practice, and career-relevant skills.</p> <p>Oracle Academy continues Oracle’s commitment to education, which spans more than 25 years and is a part of the company’s legacy.</p> <p>With Oracle Academy, students receive hands-on experience with the latest technologies, helping make them career ready in the era of cloud computing,</p>
-----------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>artificial intelligence, machine learning, data science, the Internet of Things, and beyond.</p> <p><i>Link to the target:</i> <a href="https://academy.oracle.com/en/oa-web-overview.html">https://academy.oracle.com/en/oa-web-overview.html</a></p> <p><i>Tentative timeline:</i> The programme started in, and it will be implemented until</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	
<b>Expected impact and related timing:</b>	2,500 learners (of which Year 1: 500) until 2027

**Measure – Implementation of the innovative action "Competence Labs - 21+ Skills Workshops" (NSRF EΔBM175 Human Resources Development, Education & Lifelong Learning 2014-2020)**

<b>Short description of the measure</b>	<p>The "21+ Skills Workshops" introduced since 2021 (according to the Ministerial Decision No. F.7/79511/GD4/24-6-2020), in specific school units of the country, in order to strengthen the cultivation of soft skills, life skills and technology and science skills in students in the official curriculum of schools (Kindergarten, Primary School, Secondary School) are of great research interest for teachers, students and the educational community. The Skills Workshops are an innovative, dynamic, didactic, educational activity with a focus on skills, which are integrated in the compulsory curriculum of Kindergarten, Primary School and High School that aim through various thematic units to cultivate and develop skills necessary for the 21st century.</p> <p>LIVING BETTER - WELL-BEING</p> <ul style="list-style-type: none"> <li>• Health – Nutrition, Self-care, Road Safety</li> <li>• Mental and Emotional Health - Prevention</li> <li>• Knowing my body - Sex Education</li> </ul> <p>CARING FOR THE ENVIRONMENT</p> <ul style="list-style-type: none"> <li>• Ecology - World and Local Natural Heritage</li> <li>• Natural Disasters, Civil Protection</li> <li>• World &amp; Local Cultural Heritage</li> </ul> <p>INTEREST AND ACT (Social Awareness &amp; Responsibility)</p> <ul style="list-style-type: none"> <li>• Human Rights</li> <li>• Volunteerism mediation</li> <li>• Inclusion: Respect, diversity</li> </ul> <p>CREATE &amp; INNOVATE - Creative Thinking &amp; Initiative</p> <ul style="list-style-type: none"> <li>• STEM - Educational Robotics</li> <li>• Entrepreneurship - Career Education</li> </ul> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in, and it will be implemented until.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	Total: 34 990 217.00 EUR
<b>Expected impact and related timing:</b>	The updated curriculum "Active Citizenship Activities" for Kindergarten, Primary School, Secondary School and High School

**Measure – Transformation of conventional curricula and educational content into open source, interactive, universally accessible digital environments with embedded artificial intelligence, provision for dynamic upgrading and opportunities for developing synergies with communities of educators (Development of Digital Content in Schools) (RRF 5174140)**

<p><b>Short description of the measure</b></p>	<p>The project focuses on the transformation of traditional curricula and educational material into interactive, open educational content, accessible to all and incorporating artificial intelligence technology. The new digital content developed under the project will enable collaboration with educational communities and support the personalisation of learning processes based on the learning outcomes of the Curricula. Open Educational Resources (OER) will facilitate the sharing, adaptation and redistribution of materials at no cost, enhancing accessibility and flexibility in teaching.</p> <p>The project aims to contribute to the digital reform of the education system through the creation of an open and innovative digital education model in Greece. The action is part of the broader strategic objective for the digital transformation of education and the enhancement of interoperability between national and international education systems. The project is funded by the Recovery Fund and is linked to the Open Source Software Strategy, promoting the use of globally deployed technologies and the development of skills for a resilient economy.</p> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in, and it will be implemented until.</p>
<p><b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b></p>	<p>Total: 79 758 815.96 EUR</p> <ul style="list-style-type: none"> <li>● National: allocated</li> <li>● EU: MEUR allocated through</li> <li>● Private: MEUR</li> </ul>
<p><b>Expected impact and related timing:</b></p>	<p>The main components of the project include the creation of digital content and equipment for schools, professional development for teachers and the provision of digital services.</p>

**Measure – Skills Workshops: robotics and STEM - Supply of robotics and STEM equipment for education (RRF 5161711)**

<p><b>Short description of the measure</b></p>	<p>The object of the project is to finance the supply of robotics kits to primary (kindergartens and primary schools) and secondary (secondary schools) schools throughout the country.</p> <p>Schools are equipped with robotics kits and supported with STEM activities from the earliest grades of education, helping students to become familiar with programming and robotics</p> <p>The robotics kit consists of building blocks and software, allowing construction and programming, forming a complete project.</p> <p>The indicative distribution and price of the robotics kits by level of education are as follows:</p> <ul style="list-style-type: none"> <li>- Pre-school robotics kits: 30 407 total, 5 009 school units, 133 €/per kit,</li> <li>- Robotics set 1 primary education (A-D primary school): 30 279 total, 4 370 school units, 168€/set,</li> </ul>
------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>- Primary 2a robotics kits (E-F primary school): 28 932 total, 4 357 school units, 240€/per kit,  - Primary 2b robotics kits (E-Fifth grade): 28 932 total, 4 357 school units, 198€/per kit,  - 3a secondary school (high school) robotics kits: 21 093 total, 1 903 school units, 203€/per kit,  - Robotics set 3b secondary school (high school): 21 093 total, 1 903 school units, 99€/per set,  - Robotics set 3c secondary school (high school): 16 376 total, 1 903 school units, 119€/per set.</p> <p><i>Link to the target:</i>  The programme will contribute</p> <p><i>Tentative timeline:</i>  The programme started in, and it will be implemented until.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	Total: 30 122 049 EUR
<b>Expected impact and related timing:</b>	The aim of the project is the interaction and use of innovative robotics equipment for the young students of the country, with the ultimate goal of learning new technologies and developing their knowledge.

**Measure – New eID Infrastructure and integration with Gov.gr Wallet and the new ID cards (RRF 5224118)**

<b>Short description of the measure</b>	<p>The project aims to upgrade and expand the Gov.gr Wallet application, in order to enhance the digital identification and authentication of citizens. New digital services, documents and data standards will be integrated, facilitating the secure and efficient interaction of citizens with the state and private entities. At the same time, compliance with the European eIDAS 2.0 and EUDI Wallet standards will be ensured.</p> <p>What the project involves:</p> <ol style="list-style-type: none"> <li>1. Digital Identification and Authentication Services: Development of infrastructure for electronic identification and authentication of users, enhancing security in digital transactions.</li> <li>2. Digital Documents and Data Standards: creating and supporting new digital documents and defining data standards for their secure and flexible management.</li> <li>3. Supporting Horizontal Services: Provide generic support services for the operation of new digital services.</li> <li>4. Facilitation and support services: Development of services to facilitate and support users in the new functions and infrastructure.</li> <li>5. Integration of the EUDI Wallet European Standard: Harmonisation with the EUDI Wallet European Standard to ensure full compatibility with European requirements.</li> </ol> <p><i>Link to the target:</i>  The programme will contribute</p> <p><i>Tentative timeline:</i>  The programme started in 2024, and it will be implemented until 2026.</p>
-----------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	Total: 15 875 100.00 EUR
<b>Expected impact and related timing:</b>	To create a flexible and secure infrastructure to support public sector digital services, to comply with the European eIDAS 2.0 and EUDI Wallet standards, and to provide an integrated solution for the secure interaction of citizens with the state and private entities.

### Measure – Supply and Installation of Interactive Learning Systems

<b>Short description of the measure</b>	<p>The scope of the project is to supply and install 36 264 interactive systems in primary and secondary schools (general and vocational) throughout Greece. The purpose is to upgrade educational infrastructure and support digital transformation in education.</p> <p>What the project involves:</p> <ol style="list-style-type: none"> <li>1. Interactive projection screen.</li> <li>2. Computer with the necessary software for the creation and projection of interactive courses, which includes: <ul style="list-style-type: none"> <li>o Course design software with up to 5 licenses per installation.</li> <li>o Digital hourly lesson plans with interactive enrichment, in accordance with current curricula.</li> <li>o Training material for learning the software.</li> </ul> </li> <li>3. Installation of the interactive system.</li> <li>4. Interfacing the equipment with the required cabling (power, network, USB, image and audio) where required.</li> <li>5. Installation of networking in rooms that do not already have a network.</li> <li>6. Three-year warranty on equipment and software support.</li> </ol> <p>Support and Training: the project includes the creation of a helpdesk to serve the needs of users when using the interactive systems and educational equipment, such as robotic and STEM equipment.</p> <p><i>Link to the target:</i></p> <p><i>Tentative timeline:</i> The programme started in, and it will be implemented until.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<p>Total: 152 MEUR</p> <ul style="list-style-type: none"> <li>● National: allocated</li> <li>● EU: MEUR allocated through RRF 5149224</li> <li>● Private: MEUR</li> </ul>
<b>Expected impact and related timing:</b>	Upgrade educational systems, enhance digital skills and modernize the educational process to achieve the digital transformation of education in the country.

### Measure – Supply and Installation of Interactive Learning Systems

<b>Short description of the measure</b>	<p>The scope of the project is to supply and install 36 264 interactive systems in primary and secondary schools (general and vocational) throughout Greece. The purpose is to upgrade educational infrastructure and support digital transformation in education.</p> <p>What the project involves:</p> <ol style="list-style-type: none"> <li>1. Interactive projection screen.</li> <li>2. Computer with the necessary software for the creation and projection of interactive courses, which includes: <ul style="list-style-type: none"> <li>o Course design software with up to 5 licenses per installation.</li> </ul> </li> </ol>
-----------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<ul style="list-style-type: none"> <li>o Digital hourly lesson plans with interactive enrichment, in accordance with current curricula.</li> <li>o Training material for learning the software.</li> </ul> <ol style="list-style-type: none"> <li>3. Installation of the interactive system.</li> <li>4. Interfacing the equipment with the required cabling (power, network, USB, image and audio) where required.</li> <li>5. Installation of networking in rooms that do not already have a network.</li> <li>6. Three-year warranty on equipment and software support.</li> </ol> <p>Support and Training: the project includes the creation of a helpdesk to serve the needs of users when using the interactive systems and educational equipment, such as robotic and STEM equipment.</p> <p><i>Link to the target:</i></p> <p><i>Tentative timeline:</i> The programme started in, and it will be implemented until.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<p>Total: 152 MEUR</p> <ul style="list-style-type: none"> <li>• National: allocated</li> <li>• EU: MEUR allocated through RRF 5149224</li> <li>• Private: MEUR</li> </ul>
<b>Expected impact and related timing:</b>	Upgrade educational systems, enhance digital skills and modernize the educational process to achieve the digital transformation of education in the country.

**Measure – Boosting the creation and operation of new SMEs in the tourism sector (ANT06INT)**

<b>Short description of the measure</b>	<p>The Action concerns the strengthening of tourism entrepreneurship through the creation of new micro, small and medium enterprises of selected tourism activity codes (KAW), encouraging the creation of new enterprises that, apart from contributing to the increase of the capacity of the Greek tourism industry, will offer quality and reliable services and will contribute to the enrichment of the tourism product, as well as to the increase of employment.</p> <p><i>Link to the target:</i></p> <p><i>Tentative timeline:</i> The programme started in, and it will be implemented until.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	Total: 160,00 MEUR
<b>Expected impact and related timing:</b>	5 749

**Measure – Higher Vocational Training Schools (EKII31 - NSRF 2021-2027)**

<b>Short description of the measure</b>	DYPA's SAEKs operate in more than 20 cities across Greece. Interested parties can choose from 35+ cutting-edge specialties, the one that suits their professional aspirations.
-----------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>These are modern specializations, which are adapted every year to ensure graduates high rates of absorption by the labor market, in professions in high demand.</p> <p>The SAEKs of DYPA provide graduates with a Level 5 Vocational Specialty Diploma after passing initial vocational training certification exams.</p> <p>The DYPA operates Professional Development and Career Offices (G.E.A.S.), which connect the schools with the labor market.</p> <p>The main task of the G.E.A.S. is to inform students about the possibility of carrying out a "workplace learning program" within the framework of the dual Apprenticeship system. They also inform graduates about employment prospects.</p> <p><i>Link to the target:</i></p> <p><i>Tentative timeline:</i> The programme started in, and it will be implemented until.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<p>Total: 80,75 MEUR</p> <ul style="list-style-type: none"> <li>● National: allocated EDF</li> <li>● EU: MEUR allocated through ESF, NSRF</li> </ul>
<b>Expected impact and related timing:</b>	7 994 until 2030

**Measure – Post-Secondary Academic Year - Apprenticeship Class of EPA.L (EKII05 – NSRF 2021-2027)**

<b>Short description of the measure</b>	<p>The Post-Secondary Year - Apprenticeship program begins on September 1st of each year and ends on August 31st of the following year. The laboratory course delivery period may start on October 1st, while the on-the-job learning period may take place from October 1st to August 31st of each year. The program is considered complete upon completing the hours of the specialty laboratory course and the days of learning in the workplace as specified in the Training Guide for each specialty. The allocation between laboratory course and workplace learning program is specified in the Training Guide of each specialty. The compensation rate for apprentices is set at ninety-five percent (95%) of the legal, statutory, minimum wage of an unskilled worker, regardless of age. Apprentices, during the "Workplace Learning Programme", are entitled to 12 days of Ordinary Leave and are covered by both the Sickness Benefits in Kind and Sickness Benefits in Cash insurance. And the insurance period is pensionable, because contributions are paid for the respective branches of the main and auxiliary pension. Upon completion of the program and after successfully participating in certification exams, they upgrade their degree to level 5.</p> <p><i>Link to the target:</i> <a href="https://e-mathiteia.minedu.gov.gr/">https://e-mathiteia.minedu.gov.gr/</a></p> <p><i>Tentative timeline:</i> program begins on September 1st of each year and ends on August 31st of the following year.</p>
<b>Budget allocated or planned and, if relevant, other</b>	<p>Total: 25,00 MEUR</p> <ul style="list-style-type: none"> <li>● National: allocated EDF</li> <li>● EU: MEUR allocated through ESF, NSRF</li> </ul>



<b>resources – including human resources - allocated]</b>	<ul style="list-style-type: none"> <li>• Private: MEUR</li> </ul>
<b>Expected impact and related timing:</b>	2 826 until 2030

### Measure – Boosting the creation and operation of new SMEs (ANT07INM)

<b>Short description of the measure</b>	<p>The measure concerns the support of investment projects of start-up and newly established SMEs (except for SMEs in the retail trade, catering and tourism sectors), which will invest their own resources in the activity they intend to carry out and create new jobs.</p> <p><i>Link to the target:</i></p> <p><i>Tentative timeline:</i> The programme started in, and it will be implemented until.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<ul style="list-style-type: none"> <li>• Total: 190,00 MEUR</li> </ul>
<b>Expected impact and related timing:</b>	2 636

### Measure – Installation of RIS/PACS systems and transcription of medical acts and opinions in public hospitals and PHC structures of the country (NSRF 6016480)

<b>Short description of the measure</b>	<p>The project's objective is the complete coverage of the country's Health Units with RIS PACS applications. In each unit special equipment for the operation of the applications and diagnostic equipment will be installed in each health care unit so that the beneficiary health care units will be equipped to operate the applications in order to enable them to manage electronically the X-ray diagnostic series and images.</p> <p>In addition to the installation of the RIS system.</p> <p>At the same time the project is designed to provide all health units with the initial equipment and infrastructure to be able to transfer all the procedures for the management of radiological diagnostic laboratories electronically and to store all the information both locally and centrally through the VNA cloud-based system that will be provided by the State.</p> <p><i>Link to the target:</i> The programme will contribute</p> <p><i>Tentative timeline:</i> The programme started in 2023, and it will be implemented until 2025. In September 2023 a national call under NSRF “Installation of RIS/PACS systems and transcription of medical acts and opinions in public hospitals and PHC structures of the country” with total budget 19.06 MEUR.</p>
<b>Budget allocated or planned and, if relevant, other resources – including human resources - allocated]</b>	<p>Total: 19.06 MEUR</p> <ul style="list-style-type: none"> <li>• National: allocated</li> <li>• EU: MEUR allocated through</li> <li>• Private: MEUR</li> </ul>

**Expected impact and related timing:**

The System will be an integrated Equipment-Software-Licensing-Customization Services solution and Support, of a turnkey solution type and will not require additional equipment or other resources from equipment and no additional hardware or other resources from the operator, except for the network infrastructure and workstations. It will include licenses, equipment and services.