



MAPPING DEMAND IN ADVANCED DIGITAL SKLLS

Online

20th November 2023



ADVANCED DIGITAL SKILLS IN THE DIGITAL PROGRAMME



THE EUROPEAN WAY FOR THE DIGITAL DECADE



Skills 20 million employed ICT specialists, more graduates + gender balance 80% of adults can **use tech** for everyday tasks

Government Key Public Services - 100% online Everyone can access health records online Everyone can use eID



Infrastructure Gigabit connectivity for everyone, high-speed mobile coverage (at least 5G) everywhere EU produces 20% of world's semiconductors 10 000 cloud edge nodes = fast data access EU quantum computing by 2025

Business 75% of companies using Cloud, AI or Big Data Double the number of unicorn startups 90% of SMEs taking up tech

Advanced Digital Skills



Strategic Objective 4

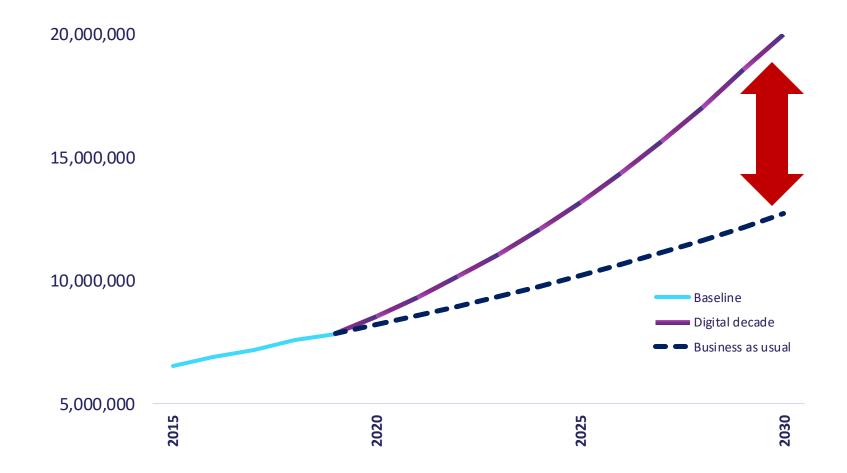
"Advanced Digital Skills shall support the development of advanced digital skills in areas covered by the Programme in order to contribute to increasing Europe's talent pool, bridge the digital divide and foster greater professionalism, especially with regard to high performance and cloud computing, big data analytics, cybersecurity, distributed ledger technologies, quantum technologies, robotics, AI, while taking gender balance into account."

REGULATION (EU) 2021/694





ICT Specialists EU27

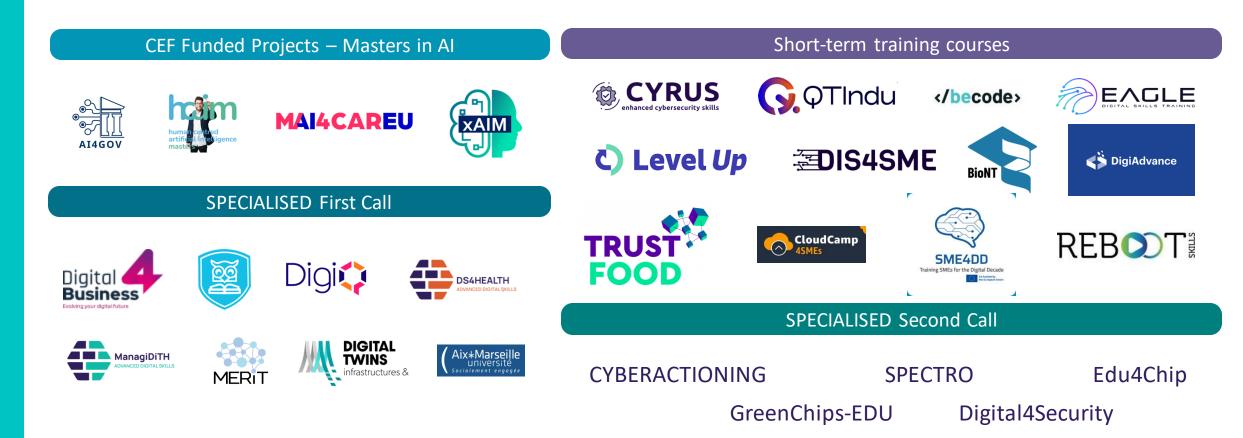


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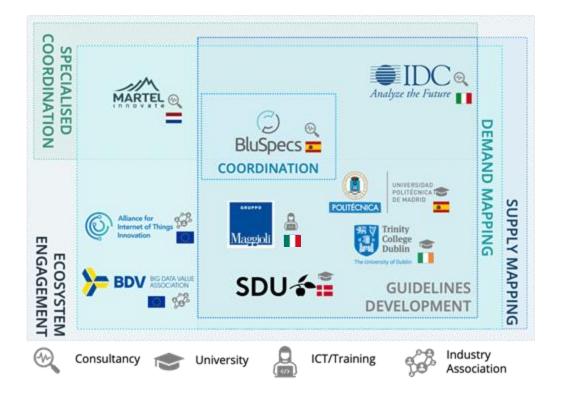




ADVANCED DIGITAL SKILLS PROJECTS OVERVIEW





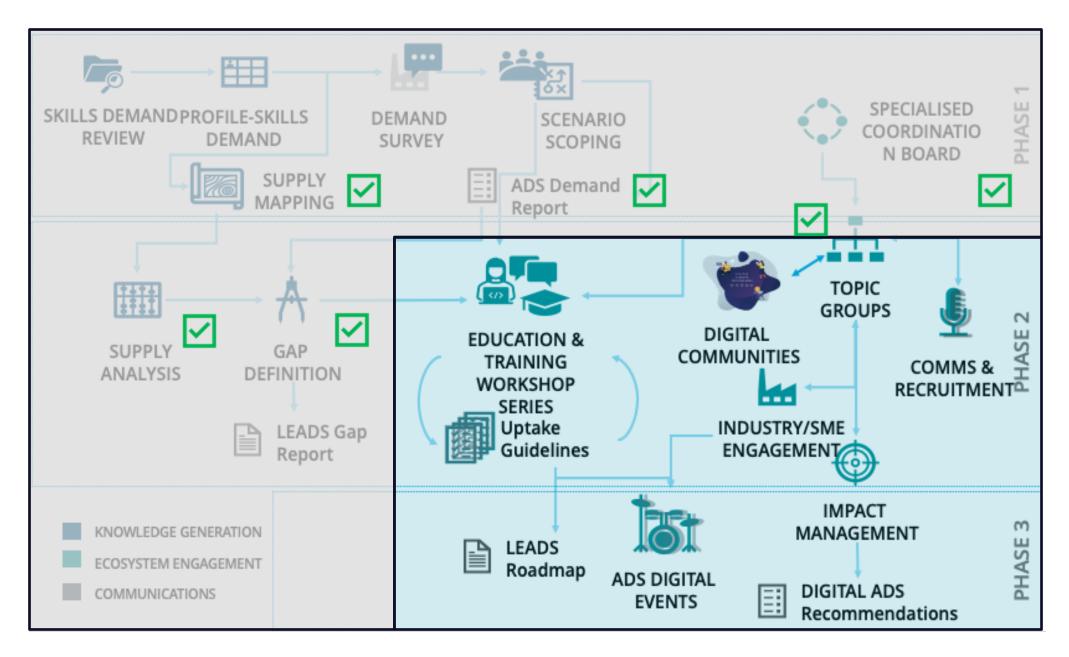


DIGITAL-2021-SKILLS-01-ANALYSIS October 2022 - March 2024

www.advancedskills.eu | @DigitalSkillsEU

Key objectives

- Detect the main trends in emerging skills needs per each technology area
- Define demand and supply gaps in education and training
- Develop specific guidelines for new approaches to course development, company wide practices, and talent pipeline development
- Provide insights to create an ecosystem between education institutions and companies
- Support the definition of the rest of the DIGITAL programme



WHAT YOU CAN FIND



11/20/2023 | 7 © Leading Europe's Advanced Digital Skills

ALL ADVANCED		Al Application Development Data analysis		404	
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DIGITAL SKILLS WILL		AI Implementation - industry specific		356	
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500



WE WILL NEED BETWEEN 3.5 MILLION AND 13.9 MILLION OF NEW ADS PROFESSIONALS

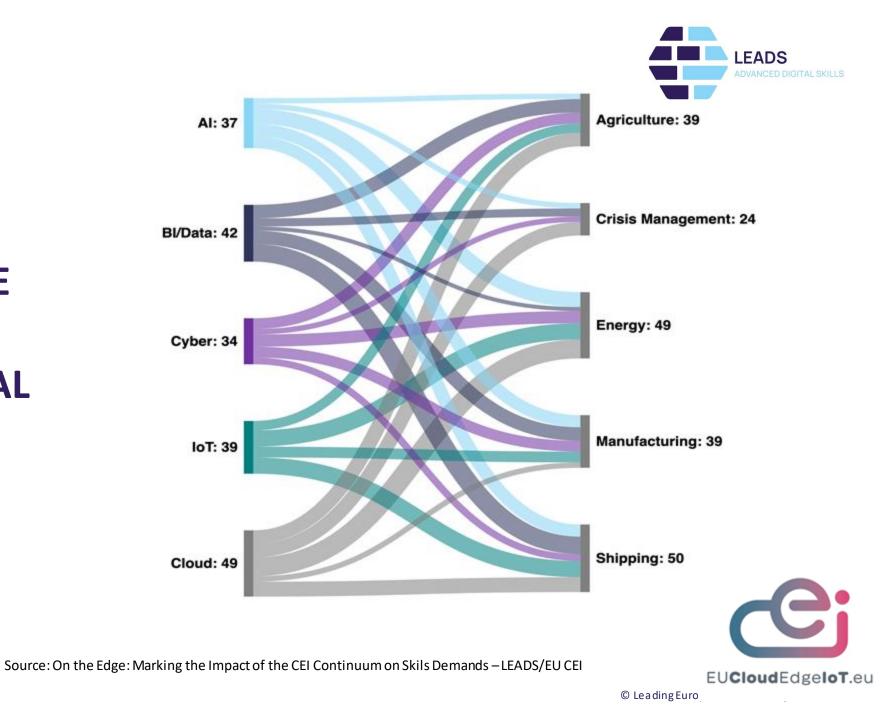
next 5 years 4,000 3,738 3,377 3,500 2,856 3,000 2,541 2,430 2,500 2,281 2,019 2,000 1,638 1,532 1,500 1,211 874 1,000 709 658 470 464 500 0 Cloud skills **BI/Data Science skills** IoT skills AI skills Cybersecurity skills 2027 - Baseline ■ 2027 - High Growth □ 2027 -Low Growth

Estimated number of new professionals needed over the

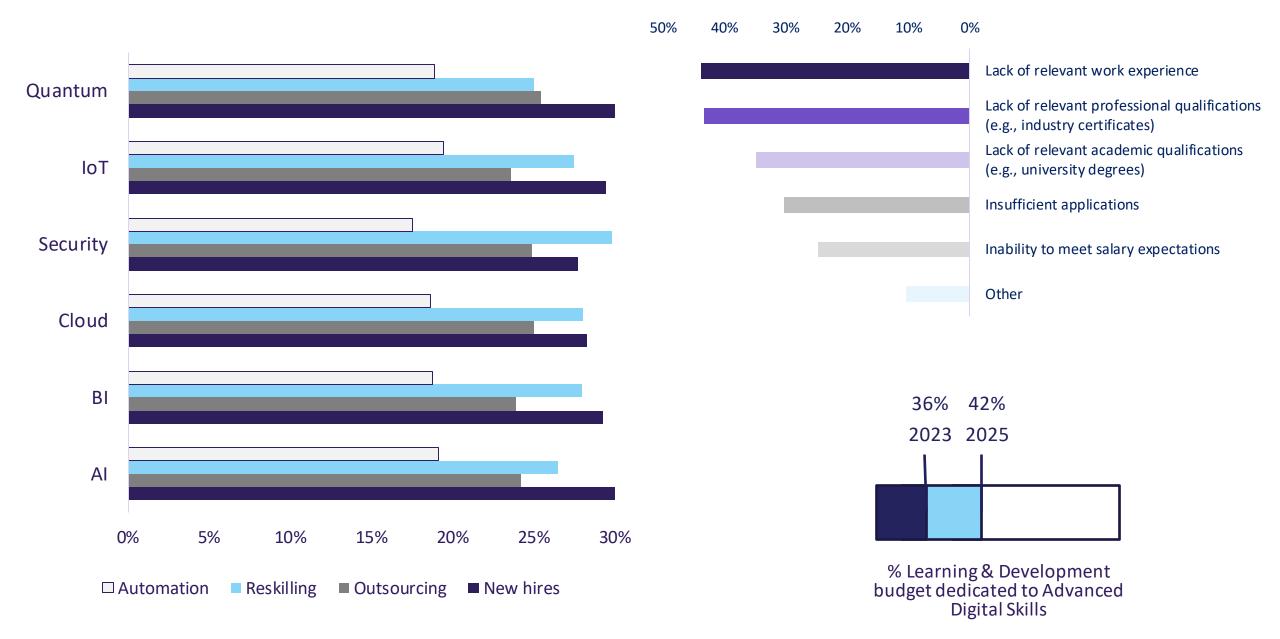


Source: LEADS ADS Market Study

TECH CONVERGENCE WILL SHAPE FUTURE DIGITAL ROLES







UPCOMING EVENTS



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LEADS 7TH WORKSHOP

VET-ORIENTED RESKILLING IN THE DOMAIN OF ADVANCED DIGITAL SKILLS LEVERAGING MICROCREDENTIALS AND MOOCS

ORGANIZED BY MAGGIOLI SPA

23 November 2023
11.00 - 12.00 CET
Online



TRAINING IN DEEP TECH

Best practices to build tomorrow's talent

Join us to celebrate and foster tomorrow's deep tech talent!

23 November | 18:00h CE

Register now







Advanced Digital Skills: Meeting the Education and Training Challenge

How can education and training meet demands for advanced digital skills?

Organised by Trinity College Dublin

December 1st, 2023

Dublin

Generative AI for ADS Curriculum Development and as a Learning Support System

How can Generative AI revolutionize ADS Curriculum Development and Learning Support Systems, propelling education into a new era?

Organised by University of Southern Denmark

December 2023

Online



LEADS

D1.2 FIRST DRAFT OF ADS DEMAND AND FORECAST REPORT





USEFUL RESOURCES

MEETING THE FUTURE TALENT CHALLENGES OF ADVANCED DIGITAL SKILLS NEEDS IN ORGANISATIONS

May 4th, 2023

Trinity College Dublin





D2.2 LEADS GAP ANALYSIS

Revision: v.1.0



D1.3 FINAL ADS DEMAND AND FORECAST REPORT

Revision: v.1.0













University of Southern Denmark



UNIVERSIDAD POLITÉCNICA DE MADRID POLITÉCNICA



Alliance for Internet of Things Innovation





GRUPPO Maggioli

