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# MAPPING DEMAND IN ADVANCED DIGITAL SKILLS

Online

20th November 2023

Brendan Rowan  
BluSpecs



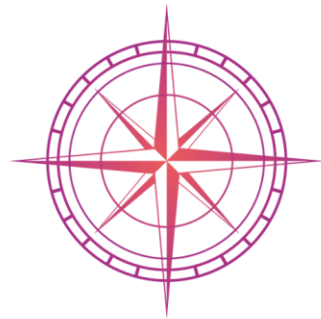
# ADVANCED DIGITAL SKILLS IN THE DIGITAL PROGRAMME



## Government

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

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



## Business

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

**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

## Advanced Digital Skills

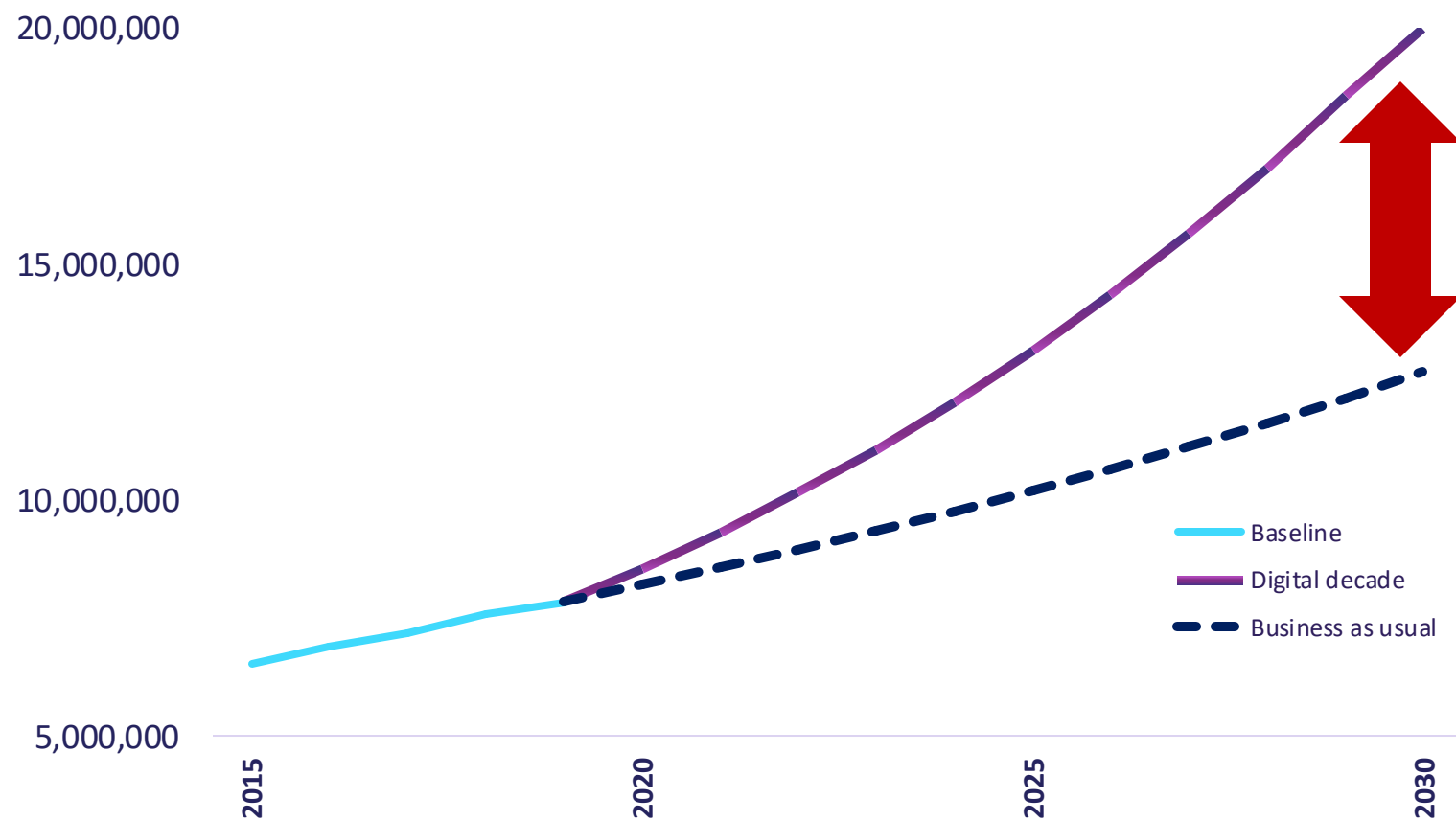


## Strategic Objective 4

“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



# ADVANCED DIGITAL SKILLS PROJECTS OVERVIEW

## CEF Funded Projects – Masters in AI



MAI4CAREU



## SPECIALISED First Call



## Short-term training courses



</becode>



## SPECIALISED Second Call

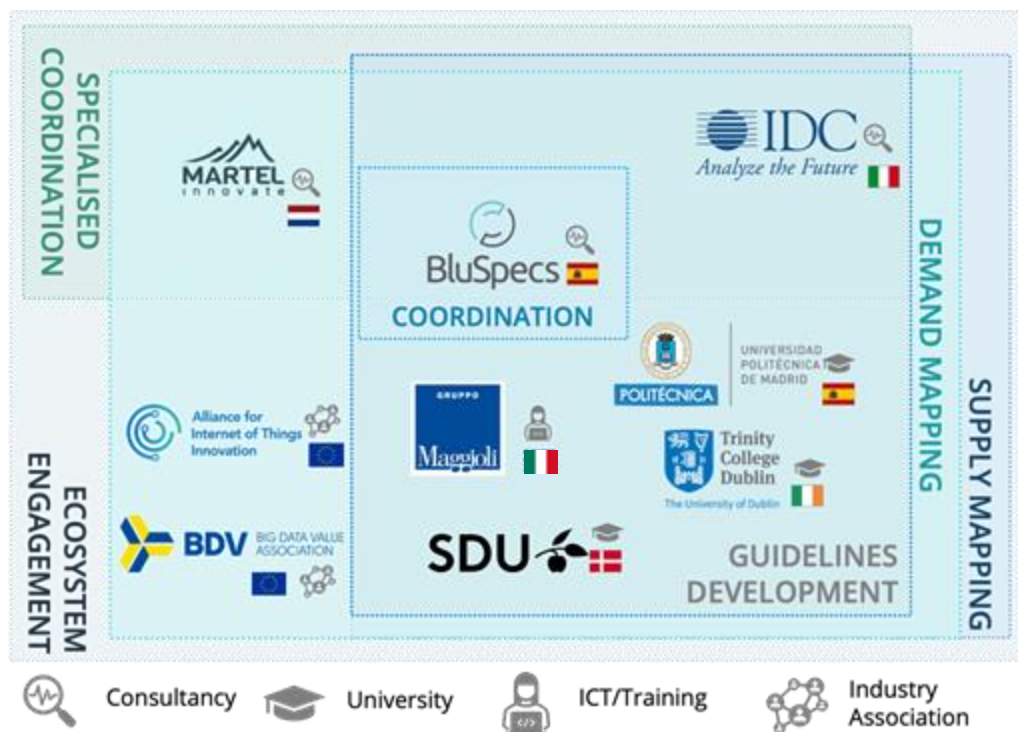
CYBERACTIONING

SPECTRO

Edu4Chip

GreenChips-EDU

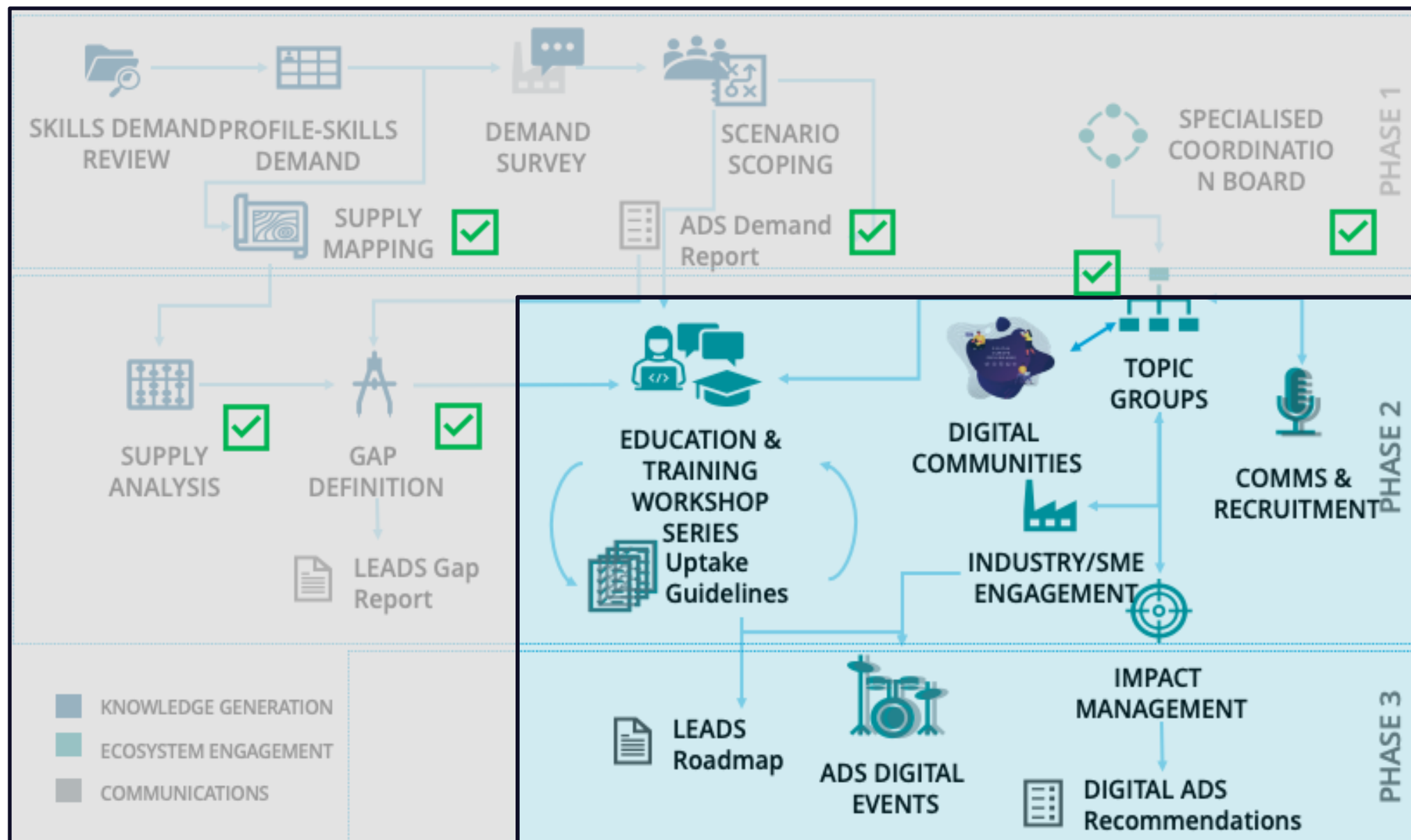
Digital4Security



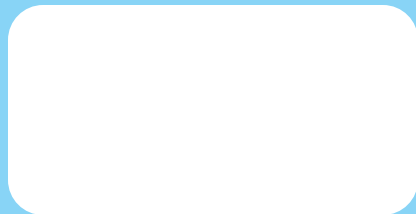
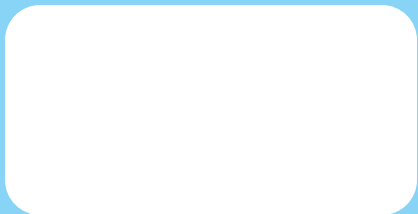
DIGITAL-2021-SKILLS-01-ANALYSIS  
October 2022 - March 2024

## 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



# ALL ADVANCED DIGITAL SKILLS WILL INCREASE IN DEMAND

4 X

Data analysis

AI Application Development

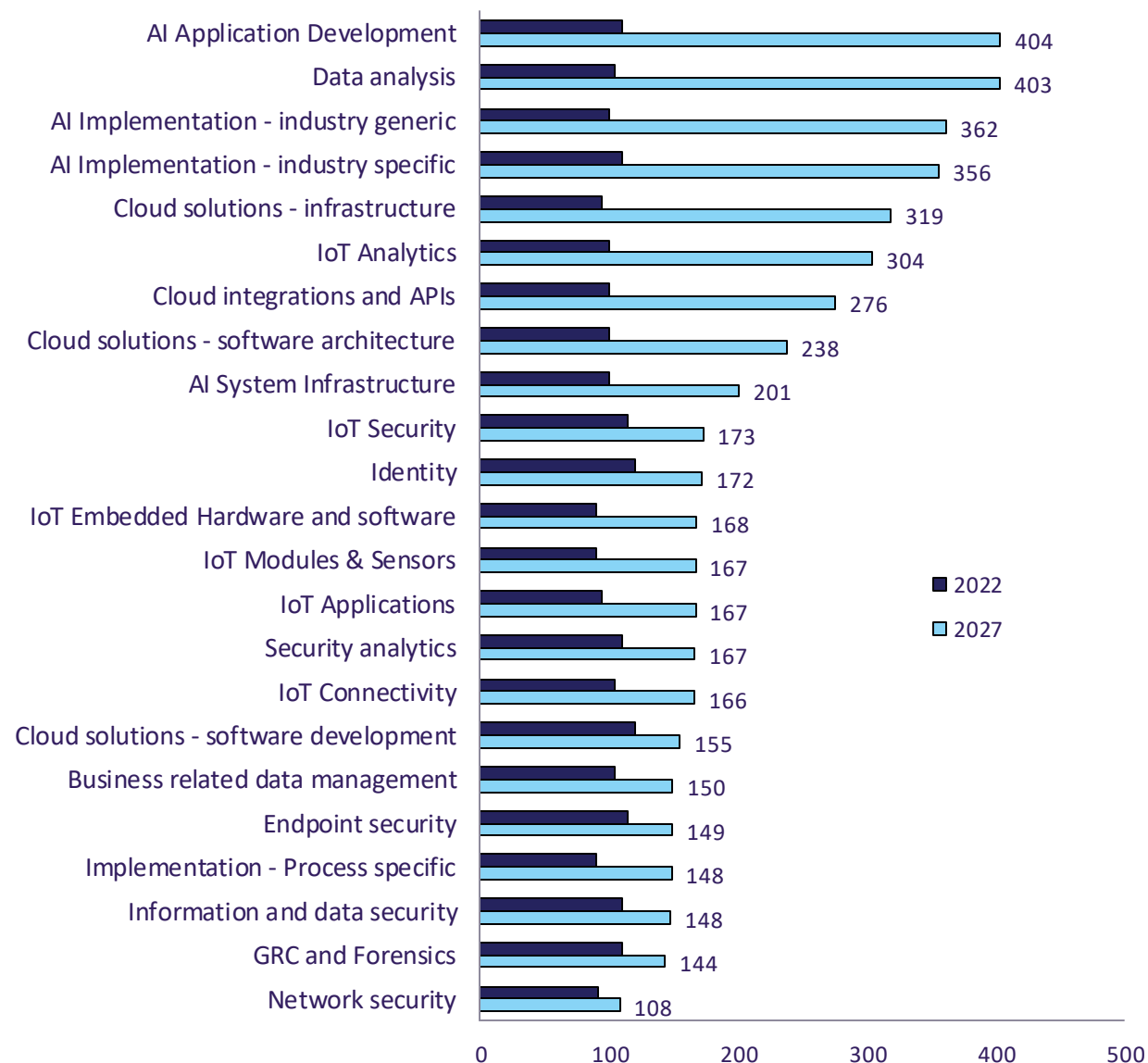
AI Implementation

3 X

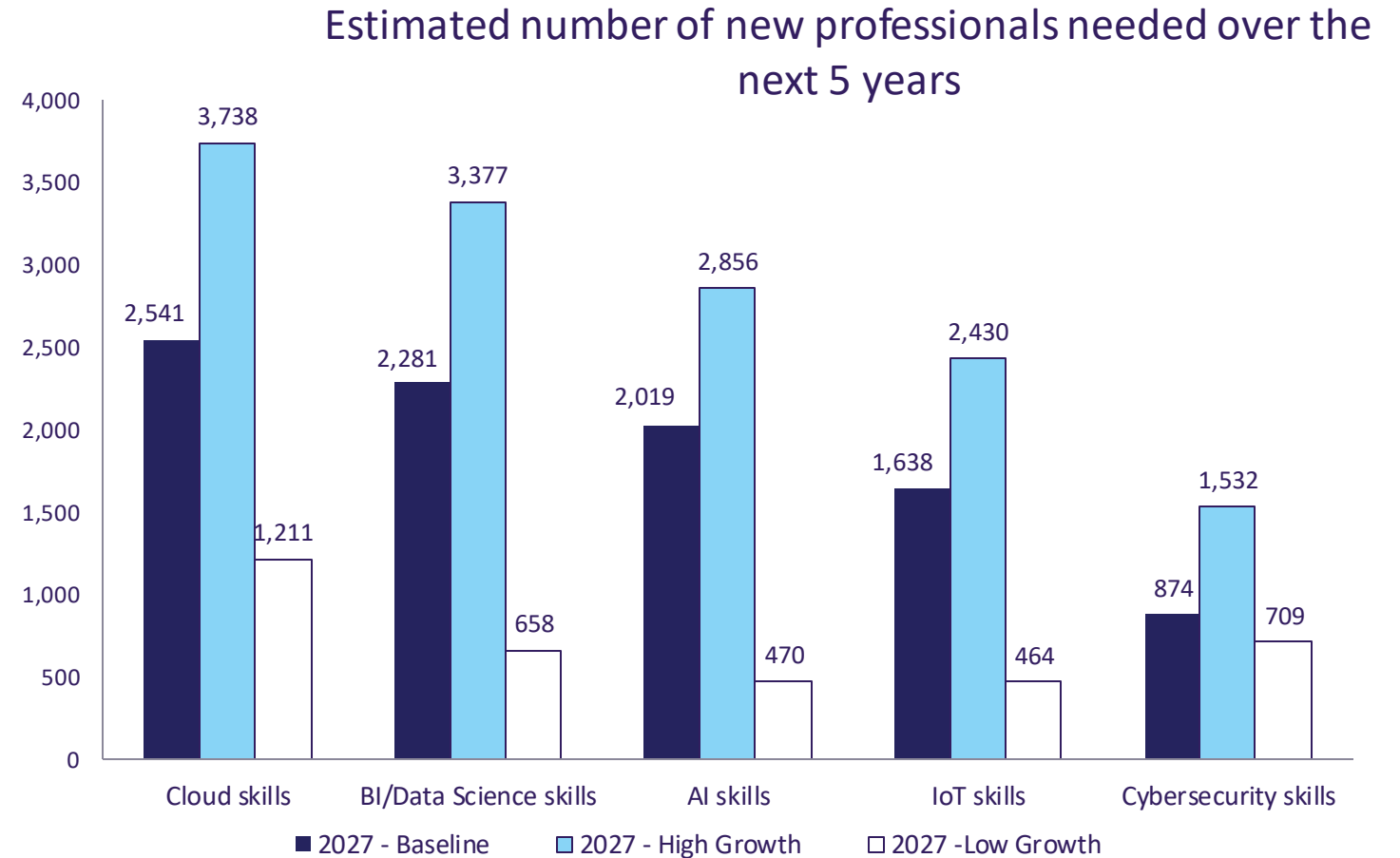
Cloud Infrastructure

IoT Analytics

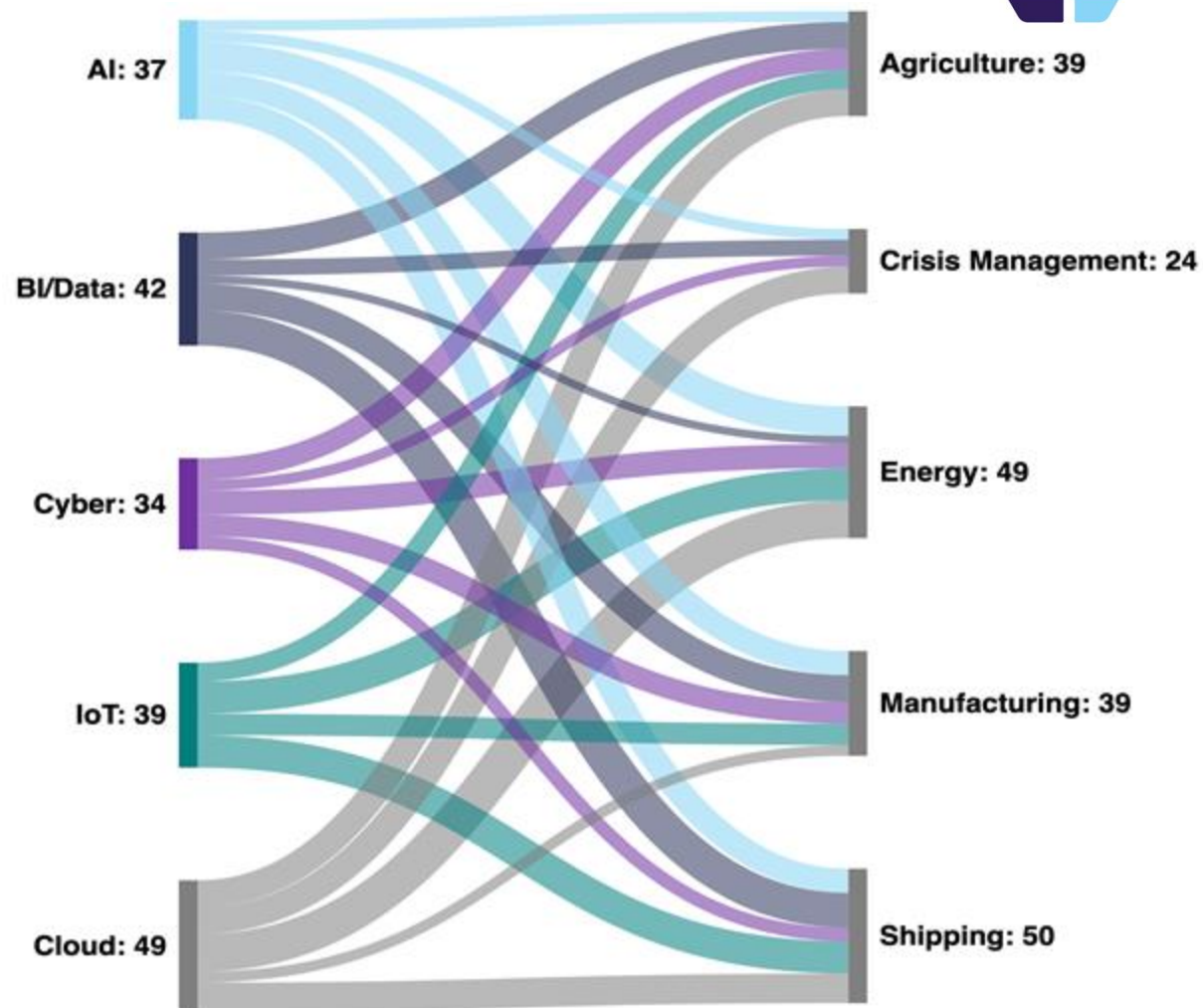
Cloud Integration & APIs



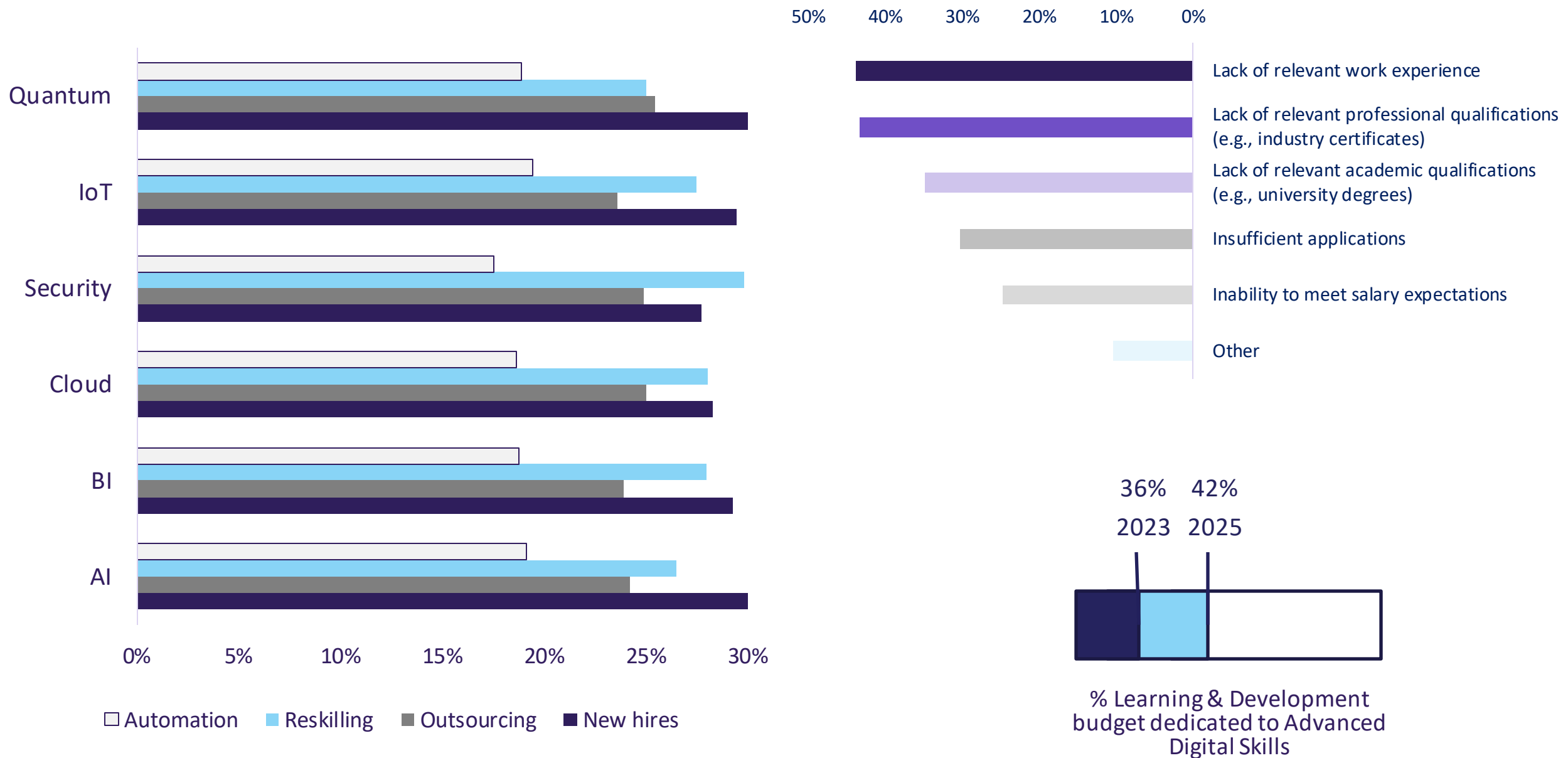
**WE WILL NEED  
BETWEEN 3.5  
MILLION AND 13.9  
MILLION OF NEW  
ADS PROFESSIONALS**



# TECH CONVERGENCE WILL SHAPE FUTURE DIGITAL ROLES



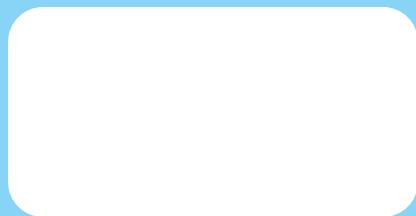
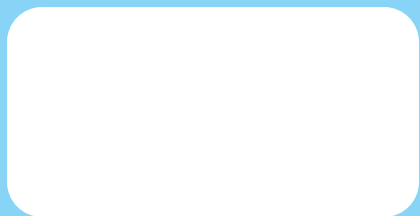
Source: On the Edge: Marking the Impact of the CEI Continuum on Skills Demands – LEADS/EU CEI



Source: LEADS Advanced Digital Skills Survey, April 2023, n=885



# UPCOMING EVENTS





**LEADS**  
ADVANCED DIGITAL SKILLS

**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 CET

[Register now](#)



 **Tech Talent**  
Funded by the  
European Union 

## 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 1<sup>st</sup>, 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

## USEFUL RESOURCES



## Reports



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

May 4<sup>th</sup>, 2023  
Trinity College Dublin

Revision: v.1.0

## Deliverables



## D2.2 LEADS GAP ANALYSIS

Revision: v.1.0



## D1.3 FINAL ADS DEMAND AND FORECAST REPORT

Revision: v.1.0





UNIVERSIDAD  
POLITÉCNICA  
DE MADRID

