

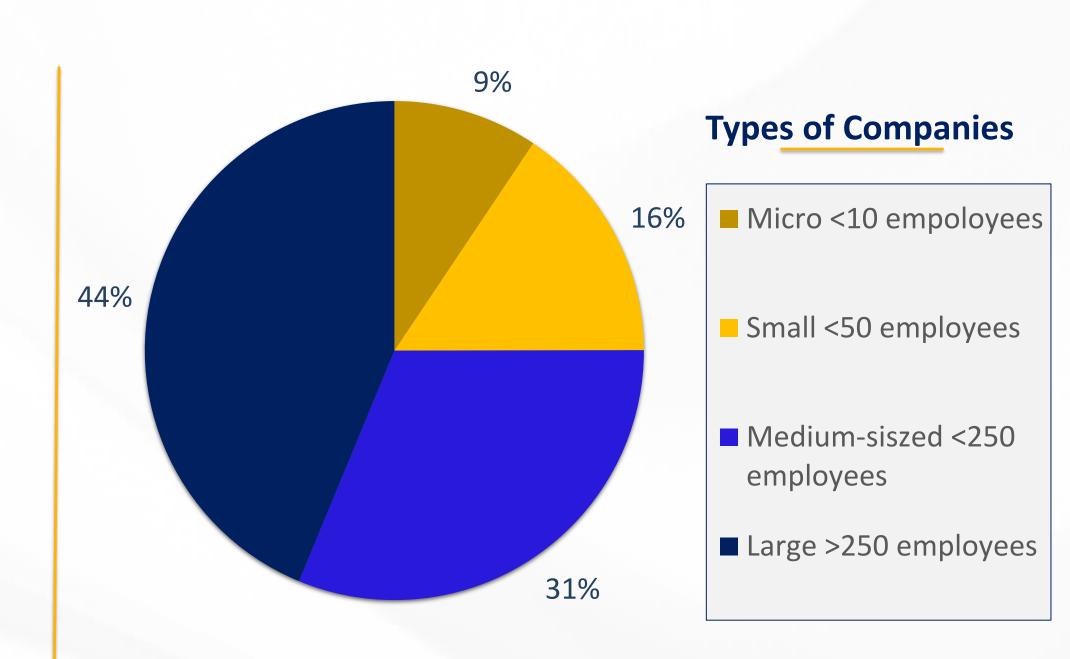


CECIMO SKILLS SURVEY



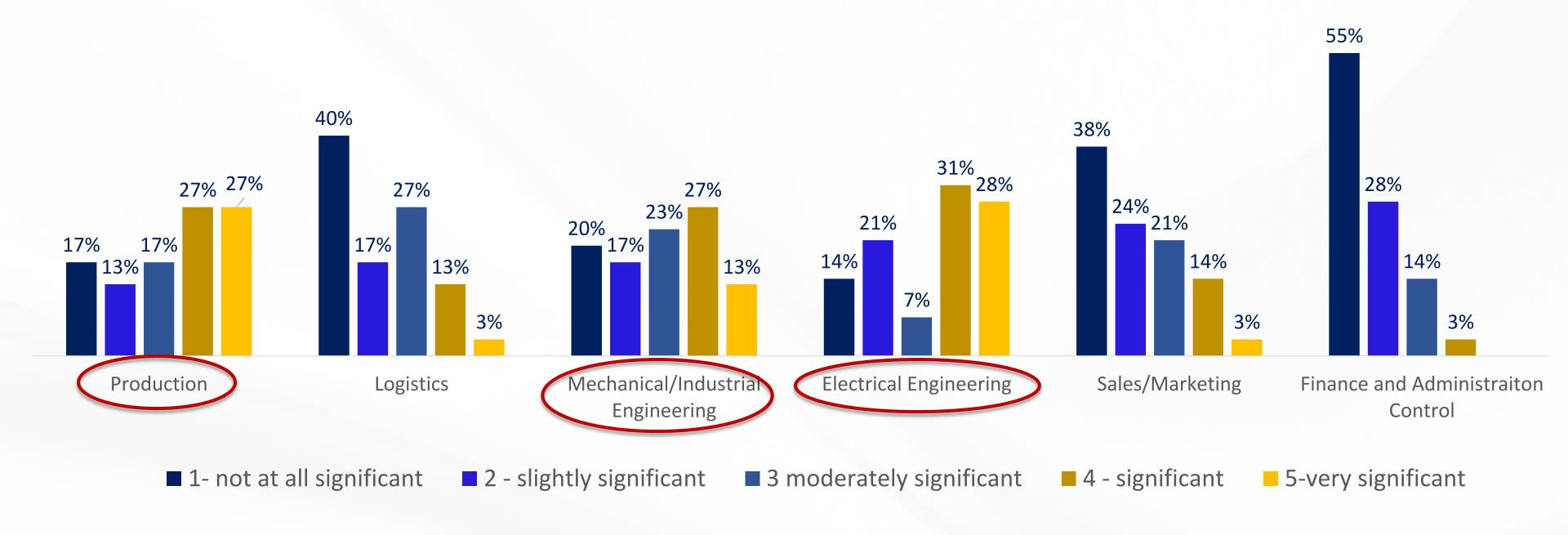
Objectives

- Establish an **Up-to-date Skills Database** for industrial stakeholders, education centers and policymakers to track evolving landscape of skills demands and emerging professional profiles. This will help us to:
 - ✓ Align Educational curricula with market needs to combat skills mismatches.
 - ✓ Attract a diverse workforce in the manufacturing sector, with a focus on younger generation and women to alleviate labor shortages.
 - ✓ Coordinate within European institutions for increased training opportunities.





CURRENT SKILLS SHORTAGES



Most Skills Shortages are felt in:

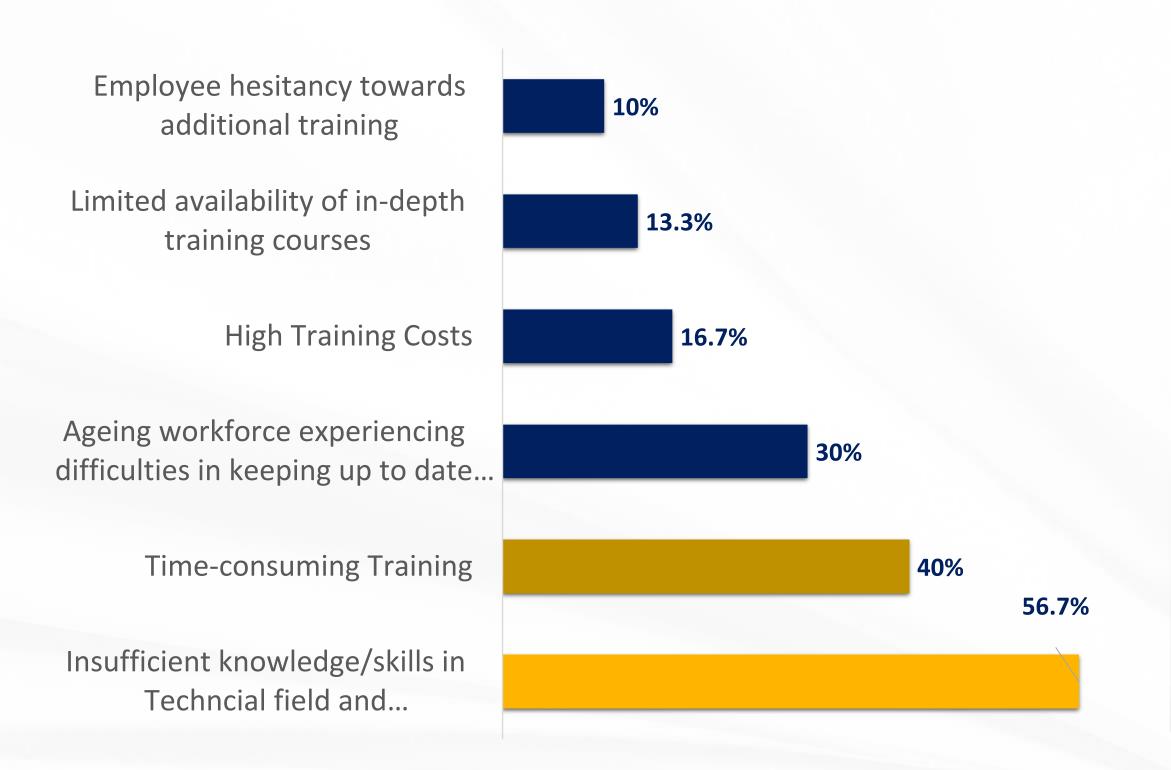
- Electrical Engineering 59%
- Production 54%, and
- Mechanical/Industrial Engineering 40%

Skills Shortages with moderate significance in:

- Logistics
- Sales/Marketing, and
- Finance & Administration Control



WHY THE SKILLS GAP PERSIST?

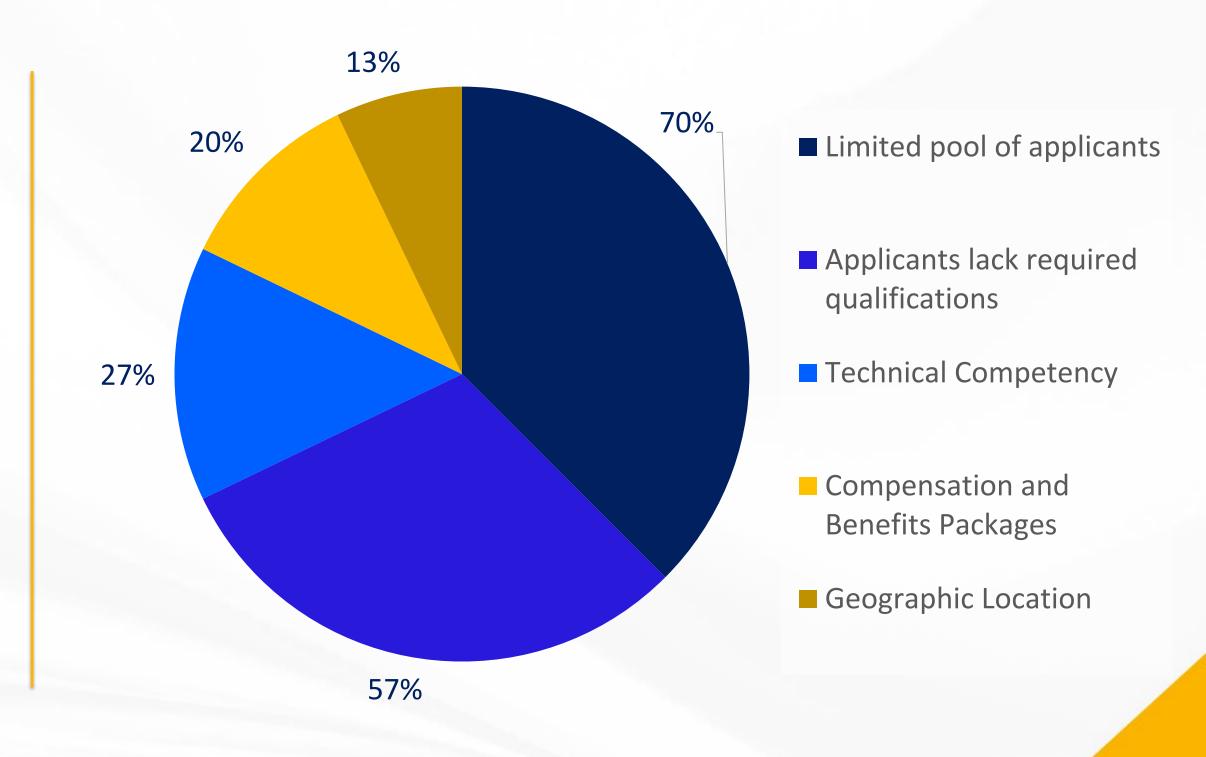


- Around 57% of companies consider lack of knowledge/skills in Technical field and Automated/Digital technologies.
- 40% perceive training as time-consuming.
- 30% consider the ageing workforce and its struggle to keep pace with new technological advances.
- Nearly 17% express concerns about high training costs.
- Other Factors:
 - Difficulty in replacing Experienced Staff
 - Protracted Time for attaining required experience
 - Heavy workload impact on teams



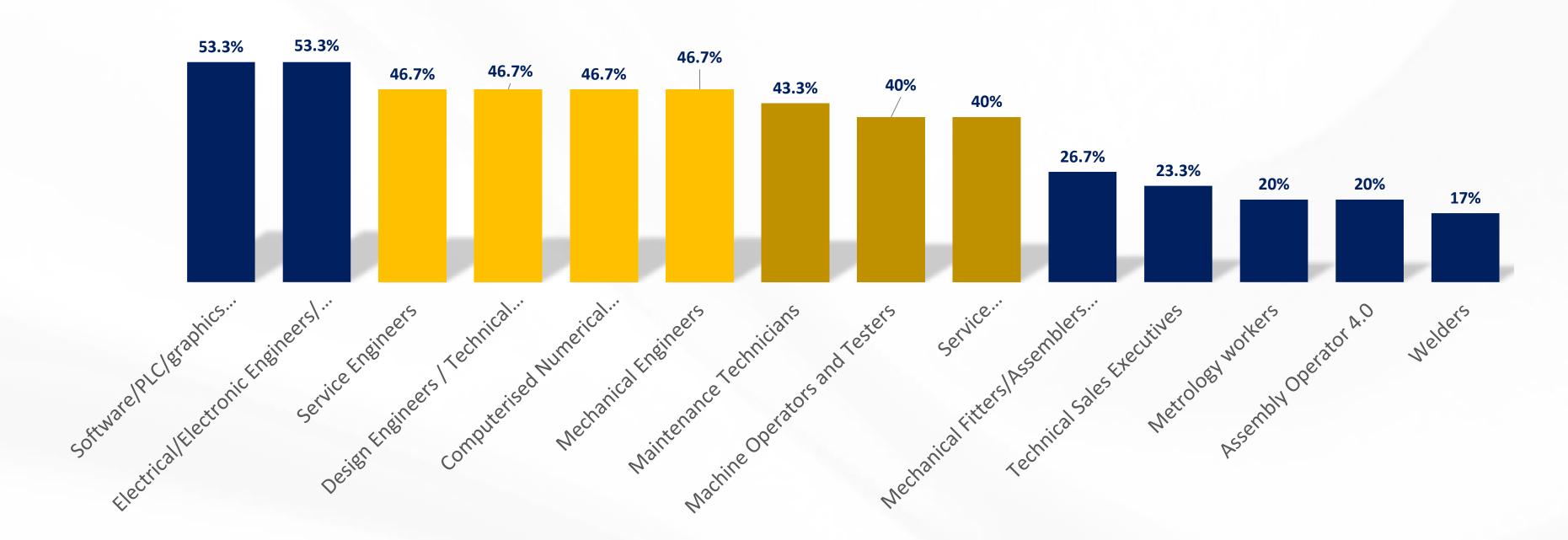
WHICH ARE THE RECRUITMENT CHALLENGES?

- 70% of companies experience labour shortages due to a limited number of applicants. This is mainly attributed to the fact that advanced manufacturing is seen as "outdated" and less "prestigious/attractive" among youngsters.
- Roughly 60% of industries face the qualification gap due to a lack of required skills in finding candidates.
- Around 30% of companies identify a lack of technical competencies and 20% low compensation/benefits packages.
- Other: extensive travel requirements (e.g. machine maintenance) has also been flagged.





PROFESSIONAL PROFILES



53% of companies face difficulties in hiring:

- Software/PLC/Graphics Developer
- Electrical Engineers/ Electrotechnicians

Nearly 50% of industries face difficulties in hiring:

- Service Engineers
- Design Engineers / Technical Draftsman
- CNC Operators/Machinists
- Mechanical Engineers

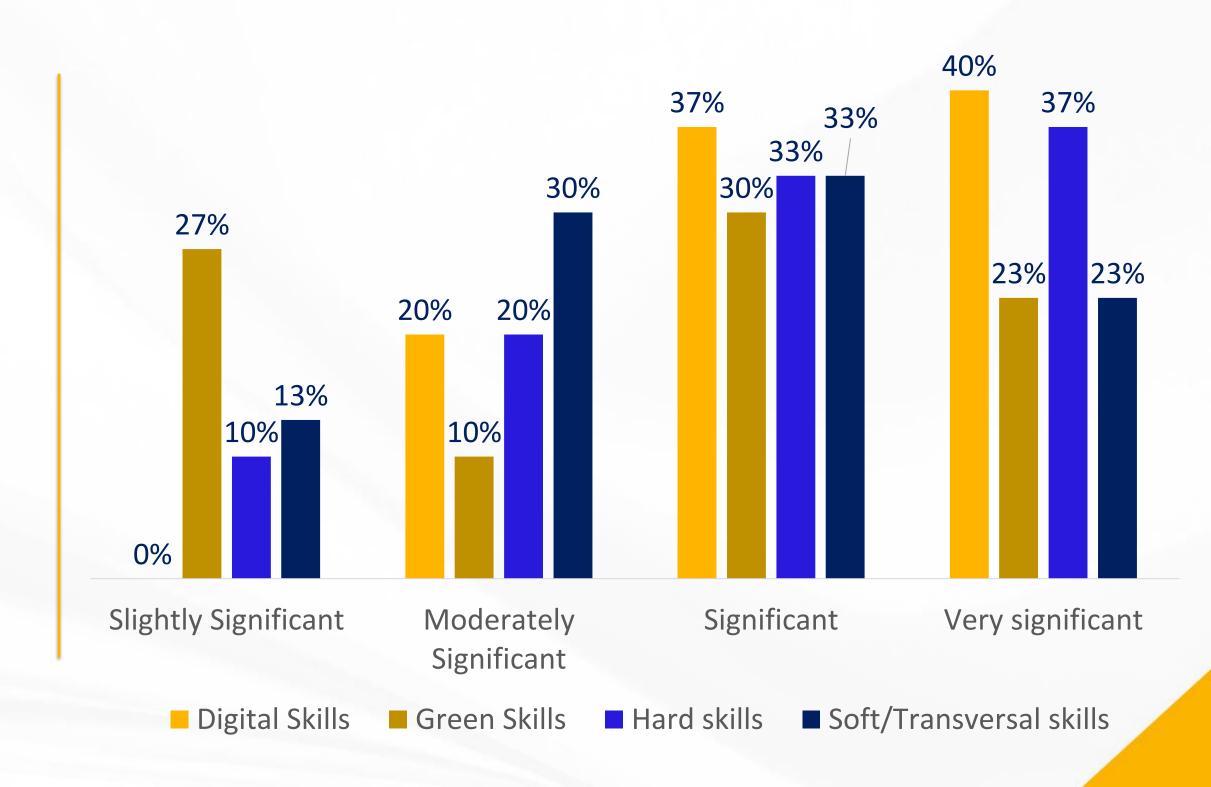
Around 40% experience difficulties in hiring:

- Maintenance Technicians
- Machine Operators and Testers
- Service Technicians/Relocators/Installers



FUTURE SKILLS IMPORTANCE

- Significant/Very Significant future Skills:
 - ☐ **Digital** skills with 77%
 - ☐ Hard skills with 70%
 - □ Soft/Transversal skills with 56%
 - ☐ Green skills with around 53%



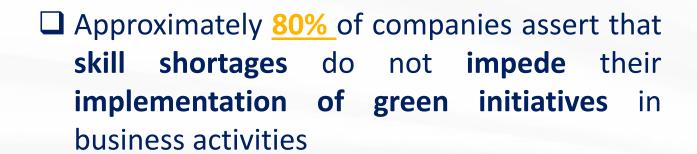


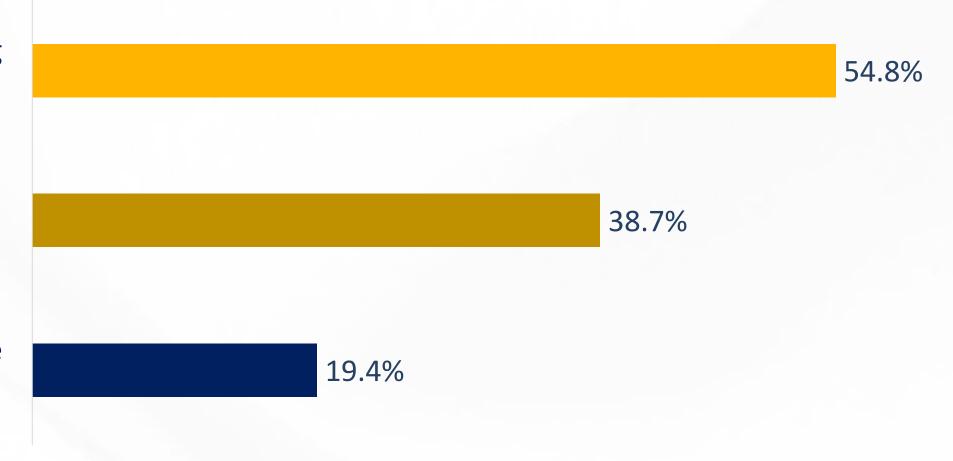
IMPACT OF DIGITISATION AND GREENIFICATION OF MANUFACUTURING ON SKILLS LANDSCAPE

Existing roles will undergo significant changes, potentially impacting my company positively.

New roles will immerge, either replacing or complementing traditional roles, resulting in a positive impact on my company.

Skills requirements for existing roles will evolve without major role changes and my company may not be significantly impacted.





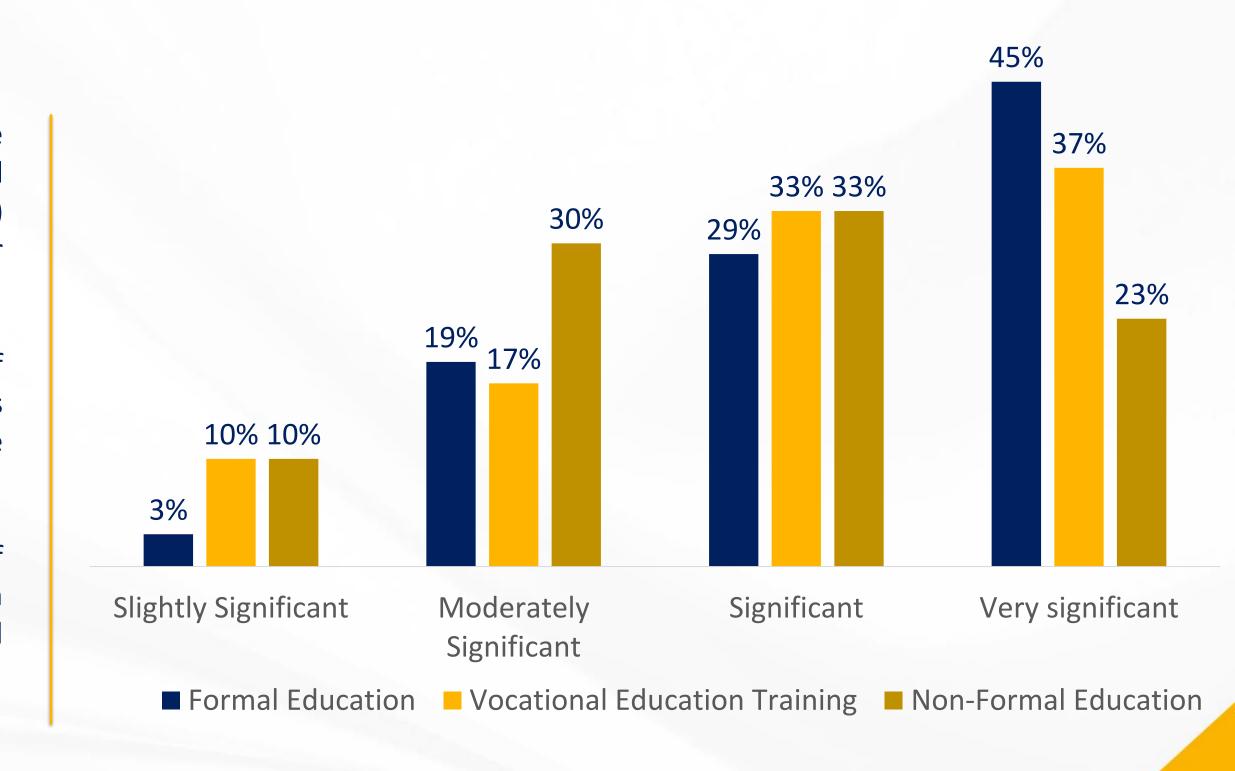
☐ In contrast, 65% of industries cite skills shortages as an obstacle to digital technology adoption, while only 32% do not view it as a barrier



IMPORTANCE OF EDUCATION

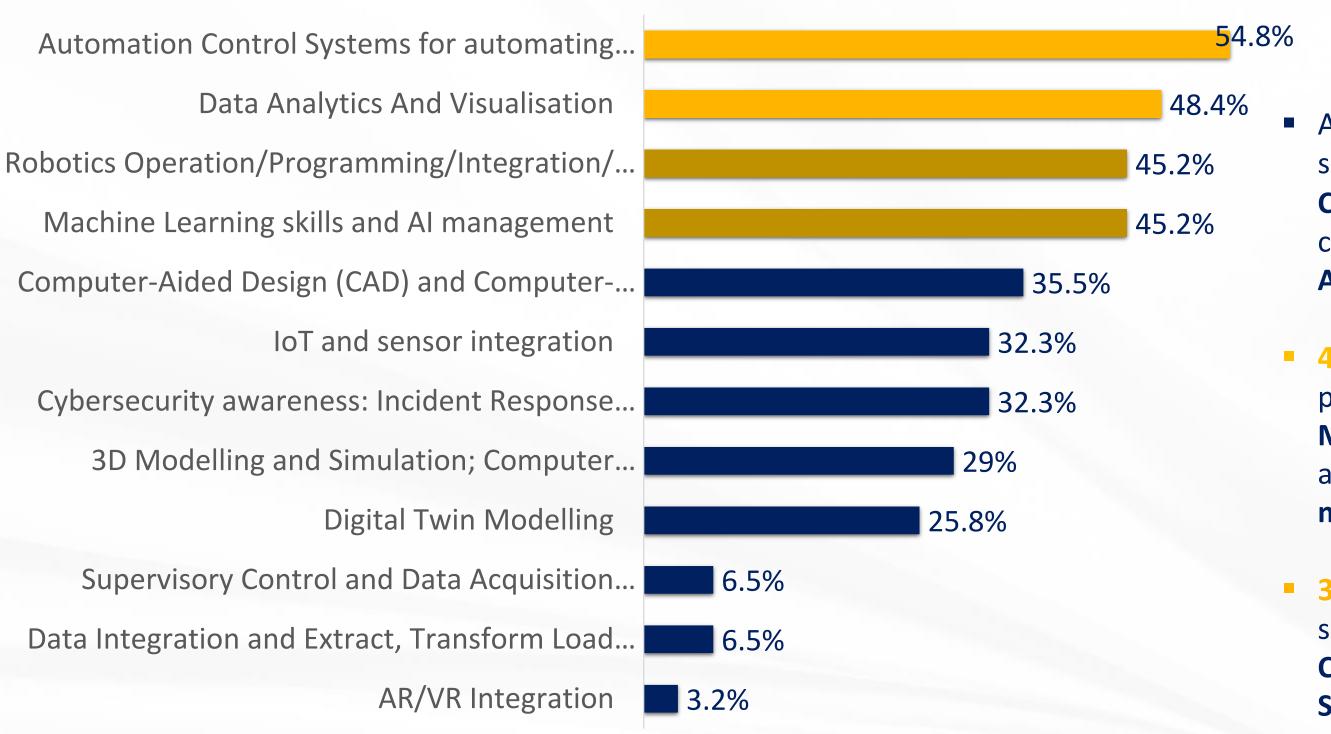


- □ 74% and 70% of companies acknowledge the significance of both Formal Education and Vocational Education and Training (VET) essential skills development, and 56% consider Non-formal Education important.
- ☐ In terms of moderate significance, 30% of industries consider Non-formal Education as slightly important, while roughly 20% attribute similar importance to Formal Education and VET.
- Understanding the varying degrees of importance assigned to different education approaches is pivotal for shaping effective and tailored educational/training programmes.





DIGITAL SKILLS - NECESARY IN INDUSTRY'S PRODUCTION PROCESSES





- Almost 55% of companies acknowledge the significance of Manufacturing Automation
 Control Systems. Whilst around 50% of companies affirm the importance of Data Analytics and Visualisation skills.
- 45% companies recognise the necessity of proficiency in Robotics Operations and Maintenance, including Cobots skills as well as in Machine Learning skills and Al management
- 35.5% of companies consider important skills in Computer-Aided Design (CAD) and Computer-Aided Manufacturing (CAM) Software.



GREEN SKILLS - NECESARY IN INDUSTRY'S PRODUCTION PROCESSES

Awareness of environmental/energy regulations and green thinking

Life Cycle Assessment (LCA) to evaluate environmental impact; Environmental...

Circular economy skills

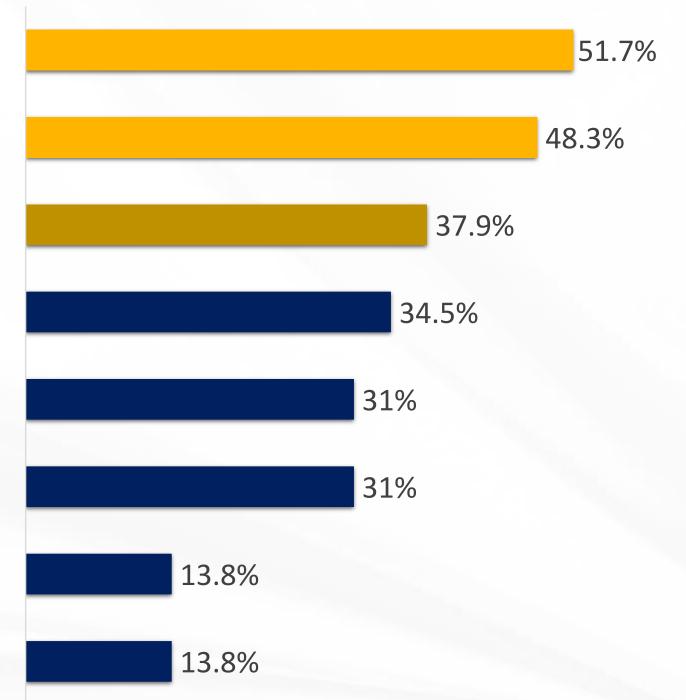
Sustainability design; green material selection

Energy auditing

Renewable Energy Technologies

Green product certification

Regenerative manufacturing practices

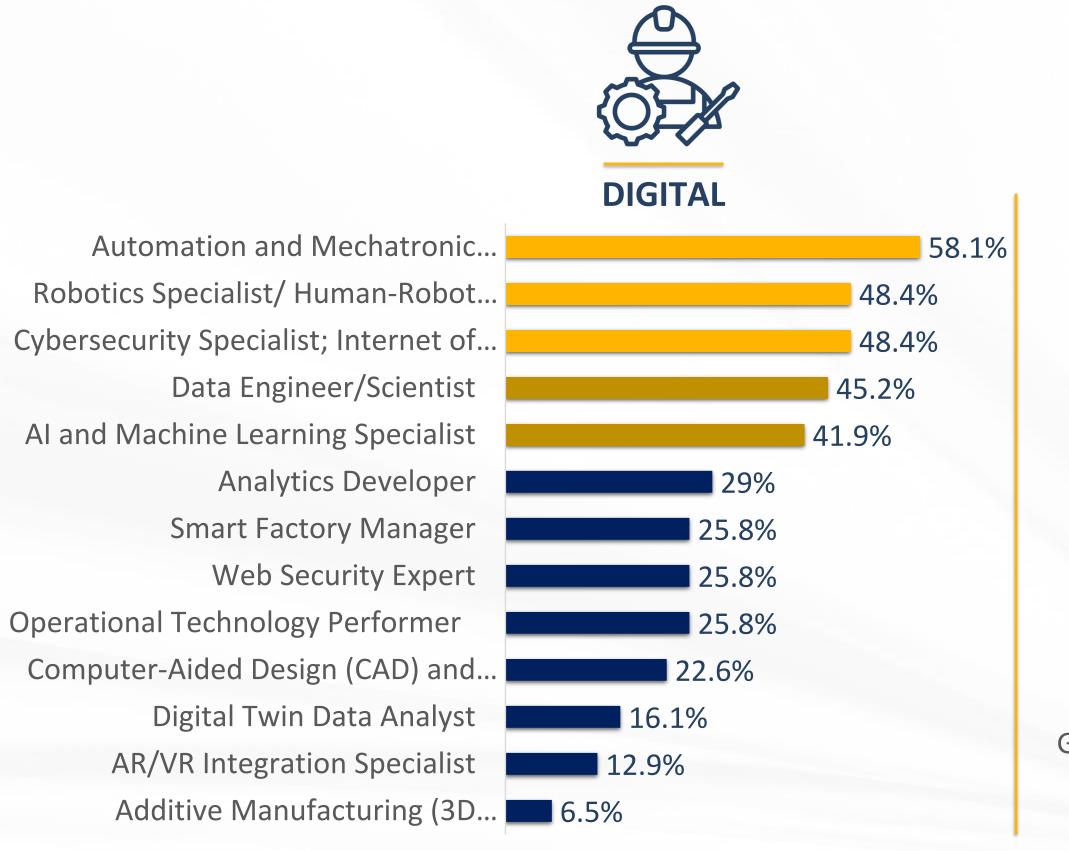


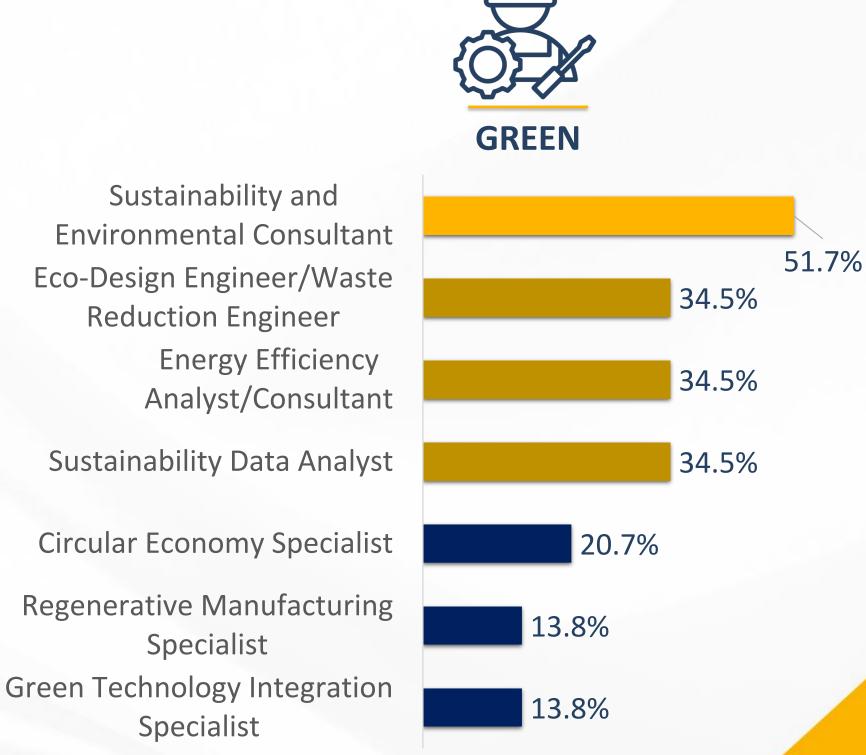


- Nearly 52% of companies acknowledge the importance of Environmental and Energy Regulation Awareness in their operations.
- 48% of companies recognize the importance of Life Cycle Assessment (LCA) for thorough Environmental Impact Analysis
- Almost 38% companies affirm the importance of Circular Economy skills
- Approximately 35% of companies endorse the incorporation of Sustainable Design and Green Material Selection within their business activities.



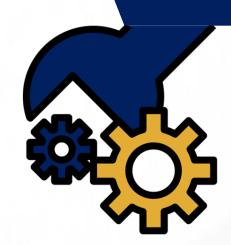
DIGITAL – GREEN PROFESSIONAL PROFILES







KEY TAKEAWAYS



1. Key skills shortages identified in:

- ☐ Electrical Engineering,
- Production and
- ☐ Mechanical Industrial Engineering across diverse companies.

2. A Dual Shortage is prevalent:

- □ labour shortages (70%) due to a limited pool of qualified applicants (manufacturing sector is perceived as less attractive and "prestigious" and seen as outdated.
- skills shortages (60%) due to mismatches between market demand and available skill sets.
- 3. Digital and Hard skills take precedence, while Soft/Transversal skills are gaining prominence.
- 4. The Digitized and Green era has the potential to **reshape existing roles**, positively impacting companies and giving rise to **new complementary roles**.
 - **❖** The Full Report will be shared with you in <u>January 2024</u>.

THANK YOU!



FOLLOW US



\+32-2-502.70.90

≥ information@cecimo.eu

www.cecimo.eu