



An Introduction

Dirk BOCHAR
Secretary General

website : www.engineerseurope.com



I. OUR OBJECTIVES

ENGINEERS EUROPE (previously FEANI) strives for a **single voice of the engineering profession** in Europe and wants to affirm and develop the professional identity of engineers.

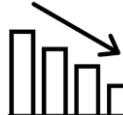
ENGINEERS EUROPE issues and promotes the **EUR ING Certificate**, a document which facilitates the cross-border mobility of engineers and the mutual recognition of engineering qualifications in Europe.

ENGINEERS EUROPE is Project Leader of the EU funded “**Engineers for Europe**” (E4E) ERASMUS+ Project (2022-2025), which has established a “European Engineering Skills Council” as a multi-stakeholder think-tank.

Founded in
1951

National Members
in 33 EHEA
Countries

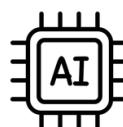
II. OUR CONCERNS



Europe is likely to face a **critical shortage of engineers** for the following years. This poses a significant concern for the **future competitiveness of Europe** in terms of innovative and technical capacities. Companies also face demographic changes with an aging workforce.



The structural problem of **skills mismatches** and the newly evolving and emerging skills, requires a more resilient review process of educational curricula to prepare the next generation of engineers. Systemic and critical thinking are key competencies to support the green and digital transition, next to soft and entrepreneurial skill sets.



The engineering profession is going through a **rapid evolution** with the development of the virtual world and Artificial Intelligence (AI), which causes the disappearance of old concepts and the appearance of new ones. **Up-skilling and reskilling** are important elements to maintain future employability.

± 350 National
Engineering
Associations

Representing
± 6 million
engineers



III. OUR ACTIONS



National Members from 33 EHEA countries meet to **exchange best practices** in Regional Group Meetings and at the National Members' Forum every six months. ENGINEERS EUROPE is also a founding member of the **World Federation of Engineering Organizations (WFEO)**.



We developed a **Position Paper** on **“The Role of the European Engineering Community with Regard to the UN Sustainability Goals”** and in particular on SDG 7, “Affordable and Clean Energy”.



Since September 2023, ENGINEERS EUROPE established the **European Engineering Skills Council**, a think-tank for the engineering profession and a multi-stakeholder exchange platform, consisting of high level academic and business representatives, professional engineering organizations and policy makers.



Based on the EU Commission's Competence Frameworks of DigComp, Entre Comp, LifeComp and GreenComp, ENGINEERS EUROPE developed four (4) **Micro-Credential Courses** relating to those topics and skills.



ENGINEERS 4 EUROPE

An Introduction

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website : www.engineers4europe.eu



ENGINEERS 4 EUROPE

An Erasmus + funded Project 2022-2025

Major Goal

How to close the Skills Gap ?

Major Objectives

1. Establish a European Engineering Skills Strategy
2. Establish a European Skills Council
3. Develop 4 Microcredentials
4. Disseminate Results

website : www.engineers4europe.eu

Discover our free online courses on **Green, Digital, Entrepreneurial and Transversal** skills. Get started here!

Engineers 4 Europe Learning Platform

Project

- › [Project Introduction](#)
 - ↳ [Project Summary](#)
 - ↳ [Consortium Partners](#)
 - ↳ [E4E Methodology](#)
- › [E4E Skills Strategy](#)
 - ↳ [E4E Skills Strategy 2024](#)
 - ↳ [E4E Skills Strategy 2023](#)
 - ↳ [Best Practice Examples](#)
- › [Research Results for the E4E Skills Strategy](#)
- › [Skills Council Rules of Procedure](#)
 - ↳ [Skills Council Rules of Procedure](#)
- › [Roadshow Events](#)
 - ↳ [Ordem dos Engenheiros & FEUP, 17 September 2024, Lisbon](#)
 - ↳ [Newport Group, 7 November 2024, Bratislava](#)

Dissemination

- › [Published articles](#)
 - ↳ [Engineers Europe: Un'iniziativa per rafforzare la professione ingegneristica in Europa](#)
 - ↳ [VDI Newsletter February 2025](#)
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 - ↳ [VDI Interview with E4E Project Leader](#)

Gallery

- › [Second Skills Council Meeting Brussels, 16-17 May 2024](#)
 - ↳ [Group picture](#)
- › [Third E4E Meeting Madrid, 14-15 March 2024](#)
 - ↳ [Group picture](#)
 - ↳ [Madrid 1](#)
 - ↳ [Madrid 2](#)
 - ↳ [Madrid 3](#)
 - ↳ [Madrid 4](#)
 - ↳ [Madrid 5](#)
 - ↳ [Madrid 6](#)
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 - ↳ [Tel Co Meeting, 30 March 2023](#)
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Back Office Documents

- › [Ongoing Working Documents](#)
- › [E4E Project & Skills Council Meeting Brussels, 23 June 2025](#)
- › [E4E Project and Skills Council Meeting Berlin, 5-6 December 2024](#)
 - ↳ [Draft Agenda](#)
 - ↳ [A/D-List Project Meeting 5 December](#)
 - ↳ [Draft Minutes 5-6 December](#)
 - ↳ [A/D-List Skills Council Meeting 6 December](#)
 - ↳ [Draft Minutes Skills Council Meeting 6 December](#)
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 - ↳ [Project Status ENGINEERS EUROPE](#)



I. RESULTS OF THE SKILLS STRATEGY

WHO NEEDS TO DO WHAT BY 2030 ?

- 1. Professional Organisations** should cultivate an entrepreneurial! and interdisciplinary mindsets; inspire youth and support veteran engineers; drive LLL through tailored, quality-assured micro-credentials; host knowledge-sharing forums; certify cross-border competence; advocate in policy arenas and disseminate EU recognition tools in combination with project results, widely across Europe's engineering ecosystem.
- 2. Policy makers** must reignite youth interest in STEM, broadening diversity through awareness campaigns and inclusive, problem-based learning. Sustainably fund HEI and VET modernisation, backing micro-credentials, joint and dual programs. Simplify visas, scholarships and a central talent platform to draw global engineers. Build an EU engineering micro-credential! hub, embed AI competence frameworks and promote green-skills literacy across all education levels nationwide.
- 3. HEIs and VET providers** must overhaul training to meet 21st-century demands. Integrate SDGs, making green and digital competences core of every curriculum by 2030. Adopt Education 4.0 pedagogies, expand micro-credentials and practical, hands-on learning to close theory-practice gaps. They must diversify pathways through vocational apprenticeships, dual degrees and STEM mentorship. Embed entrepreneurship skills - strategy, finance, opportunity recognition — into programs. Forge enduring industry partnerships, co-run labs with up-to-date equipment and upskill faculty in technology and pedagogy. Promote cross-border exchanges and EQF-aligned modular qualifications for learner mobility.
- 4. Industry** should counter talent shortages by co-designing curricula with HEIs, offering project-based apprenticeships and mentorship; funding in-house, micro-credential upskilling in renewable and digital fields; retaining senior engineers through flexible work; broadening recruitment to women, underrepresented groups and career changers to build a competitive workforce.



II. WHY JOIN THE ENGINEERING SKILLS COUNCIL ?

1. WHAT IT WANTS TO CONTINUE TO BE :

“An independent platform for Corporate Partnership and Stakeholder Dialogue at EU level, acting as an Observatory and ongoing Panel of Experts on the topic of European Engineers”.

- Focusing on Europe-wide **Data Collection** on the challenges of the engineering profession : monitoring required competences, while analysing the demand + supply for the future.
- Ensuring ongoing **Strategic Monitoring** by proactively recognizing new trends and the need for action = annual up-dating of the Skills Strategy.
- Increasing **Awareness** and promoting the public **Image** of engineers in Europe and regularly communicate these findings.
- Formulating **Recommendations** to Policy Makers.



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2. WHAT IT WANTS TO CONTINUE TO DO :

- Reinforcing the **liaison** with other European Engineering Organizations.
- Ongoing **monitoring** of reports and publications on engineering competences.
- Establishing virtual **WGs** on specific subjects/topics and consider the findings at annual/semi-annual Skills Council Meeting to update the Skills Strategy
- Establishing and extending formal **partnerships** as associated membership, either individual or corporate = multinational companies, SMEs, sector organizations (HEI/VET providers, civil society organisations, etc.)
- Seeking **longer term commitment** : 3 years

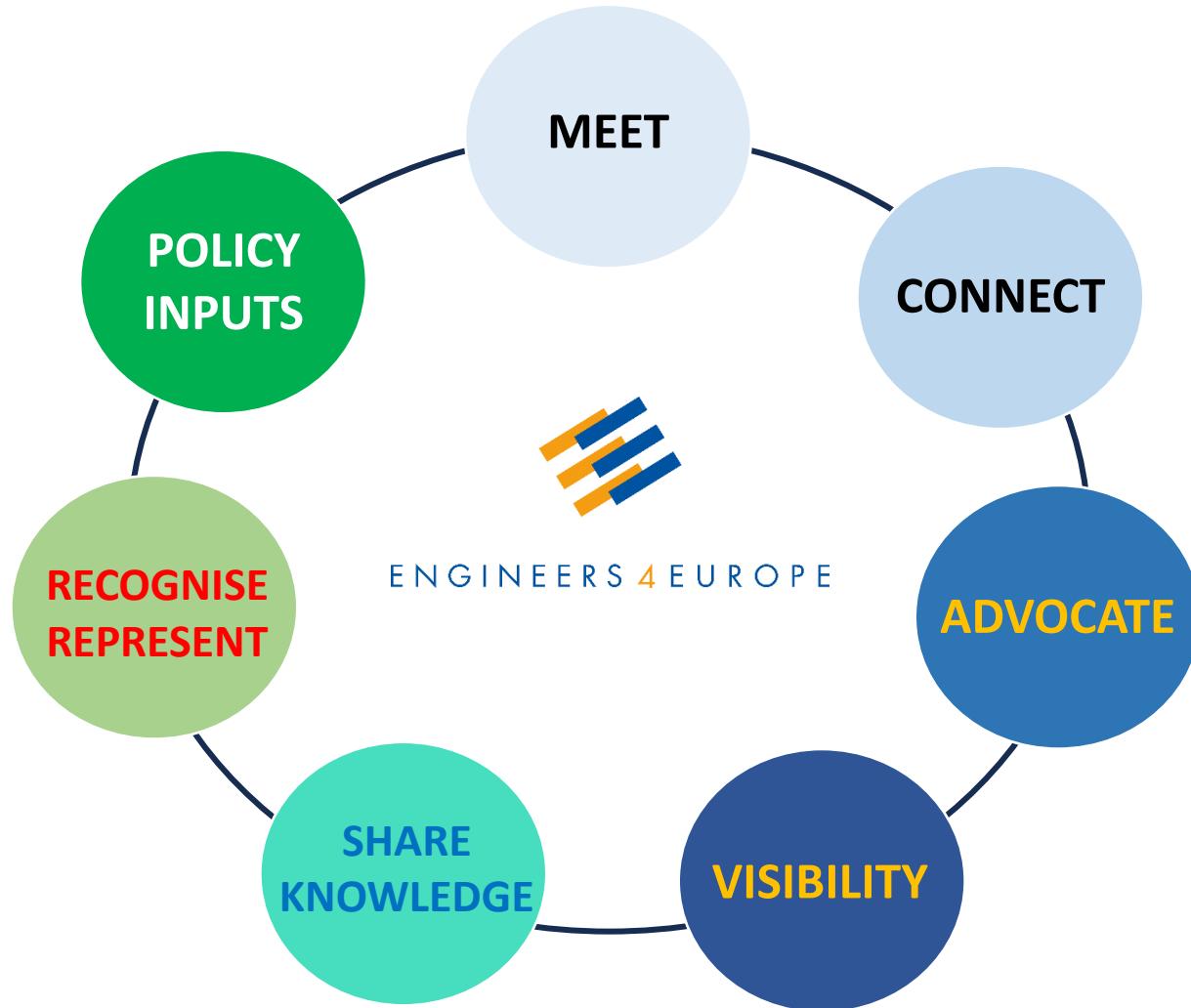


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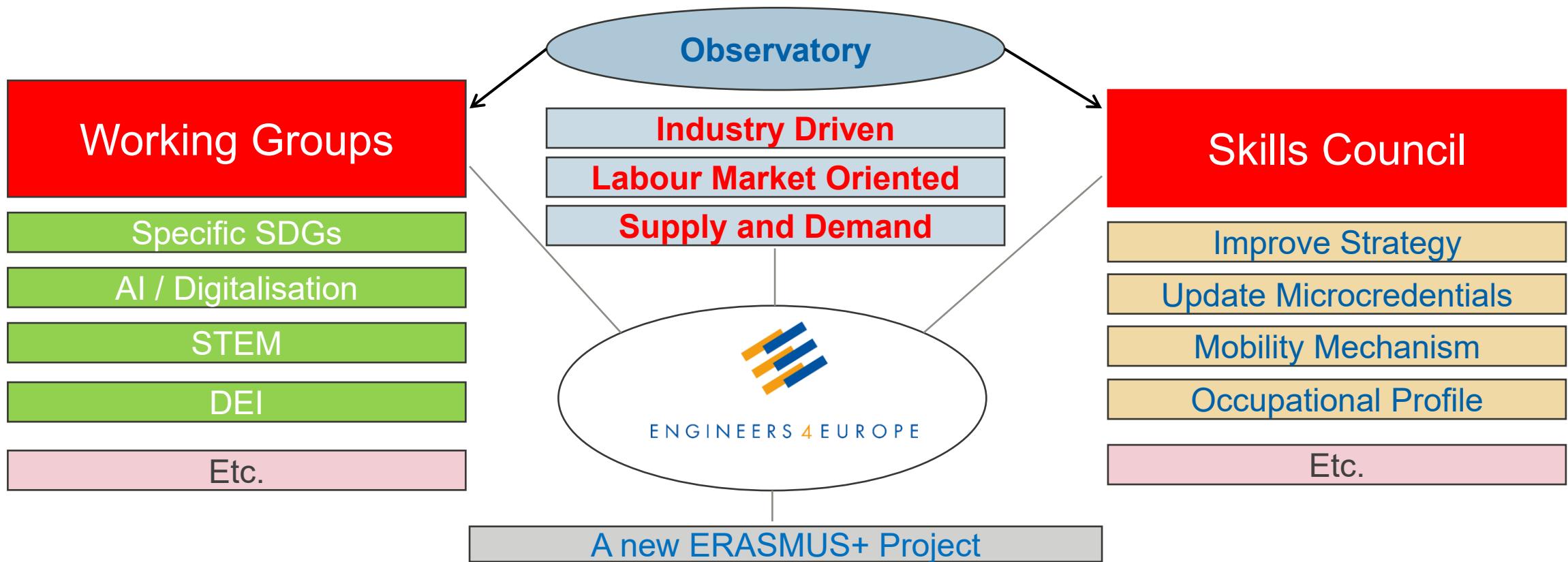
3. WHAT IT WANTS TO OFFER AS ADDED VALUE :

- Direct access to information and to unpublished background information from the stakeholders involved (i.e. best practice exchange, position papers, networking).
- Participation in future data collection (desk research, analysis of available data, interviews and surveys, etc.).
- Participation in thinking along for future versions of the Engineering Skills Strategy, as well as obtaining exposure and visibility while evaluating research findings (e.g. in podcasts).
- Regular and valuable liaison with other stakeholder groups.
- Common Event and Participation : 4 March - World Engineering Day.

II. WHY JOIN THE ENGINEERING SKILLS COUNCIL ?



ENGINEERS 4 EUROPE 2.0



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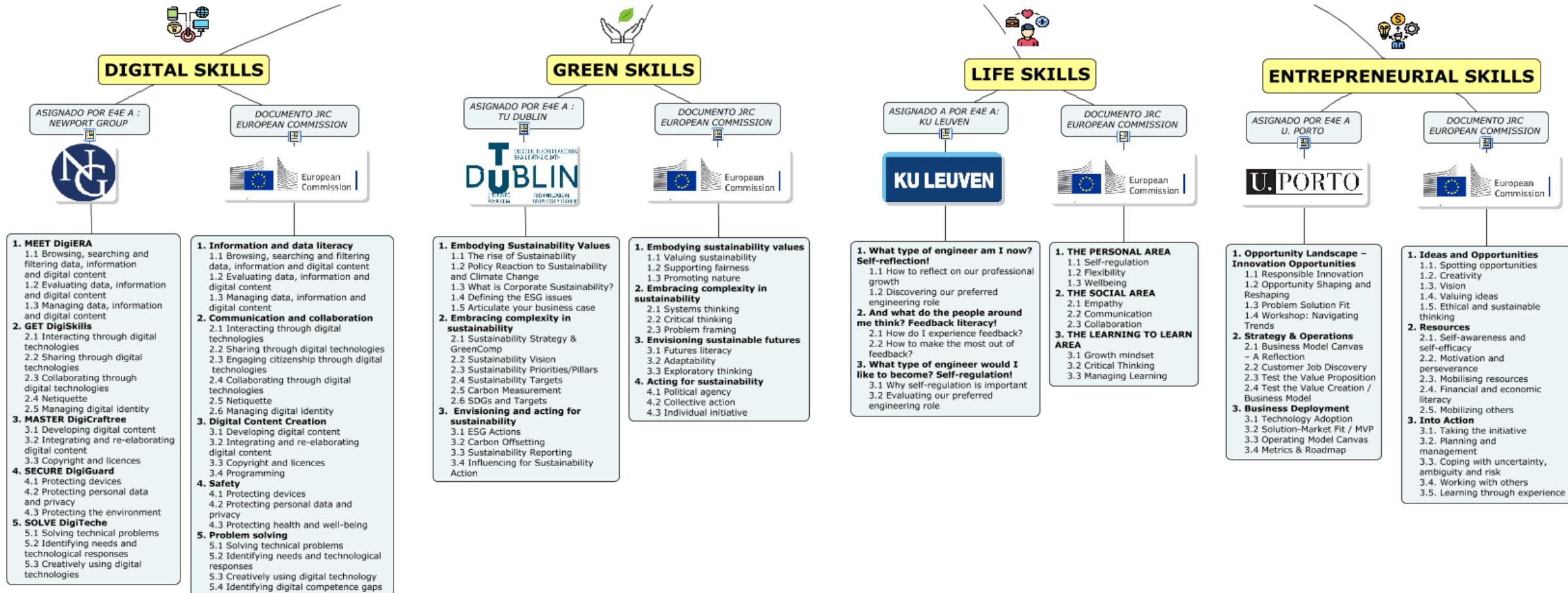
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TRANSVERSAL COMPETENCES IDENTIFIED AND DESCRIBED BY E4E AND THE EU



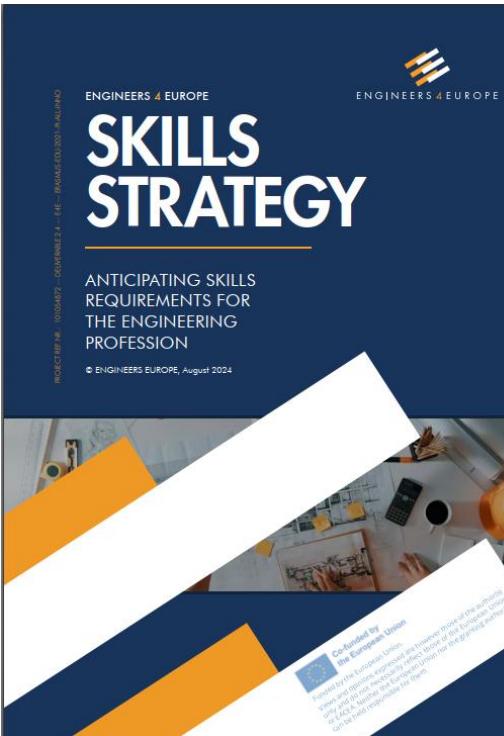
ENGINEERS 4 EUROPE

III. Development of 4 Microcredentials



IV. Dissemination Results

40 European Events, Conferences and Seminars, directly addressing some 5.000 participants in total
29 Published Articles and Press Releases
20 Best Practice Examples
82 Post on Social Media
11.160 LinkedIn followers



website : www.engineers4europe.eu