



Project no. 101054872

Engineers for Europe (E4E) Project

Kick-off Meeting, ACE events, Brussels

22-23 September 2022

Mr Dirk BOCHAR, FEANI Secretary General



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

Welcome to the Engineers for Europe (E4E) Project Kick-off Meeting!



Project no. 101054872

Day I



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

Overview of E4E Project – background and rationale

Consortium: 13 organisations from 8 EU countries

Duration: 36 months

Grant: EUR 1.5 million (FEANI : EUR 268k)

Donor: EU Commission, Programme Erasmus+

Score: 89/100 total score (25/25 for Relevance criterion)



Project no. 101054872

Main Objectives

1. Setting Up a “European Engineering Professional Skills Council”
2. Identify “New Trends in Engineering Education”
3. Develop “Innovative Training” for the Profession



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

Engineers for Europe (E4E) Consortium

Industry & Profession



ORDEN
DOS
ENGENHEIROS



Federation of European Heating,
Ventilation and Air Conditioning Associations



European Council
of Engineers Chambers

Accreditation



AGENCIA NACIONAL DE EVALUACIÓN
DE LA CALIDAD Y ACREDITACIÓN



Higher Education & Training

KU LEUVEN



IVEPE

DUBLIN



U. PORTO

FEUP FACULDADE DE ENGENHARIA
UNIVERSIDADE DO PORTO



Association of European Civil
Engineering Faculties

13 full partners; 12 associate partners



Project no. 101054872

Engineers for Europe (E4E) Consortium: short presentations

1. Fédération Européenne d'Associations Nationales d'ingénieurs (FEANI)
2. Faculdade de Engenharia da Universidade do Porto (FEUP)
3. Technological University Dublin (TU Dublin)
4. Katholieke Universiteit Leuven (KU Leuven)
5. Association of European Civil Engineering Faculties (AECEF)
6. Newport Group S.A. (NG)
7. Institute of Industrial and Business Education & Training (IVEPE-SEV)
8. National Agency for Quality Assessment and Accreditation of Spain (ANECA)
9. Verein Deutscher Ingenieure (VDI)
10. Engineers Ireland (EI)
11. Ordem dos Engenheiros (OE)
12. Federation of European Heating, Ventilation and Air Conditioning associations (REHVA)
13. European Council of Engineers Chambers (ECEC)



Project no. 101054872

FEANI: Fédération Européenne d'Associations Nationales d'ingénieurs

- A federation of professional engineers that unites **national engineering associations from 33 European Higher Education Area (EHEA) countries**, representing the interests of over 6 million professional engineers
- Striving for a **single voice** for the engineering profession in Europe affirming and developing the **professional identity** of engineers
- Facilitating the **mutual recognition** of engineering qualifications in Europe and strengthening the position, role and responsibility of **engineers in society**



Project no. 101054872

FEANI: Fédération Européenne d'Associations Nationales d'ingénieurs

- FEANI is a **founding member** of the World Federation of Engineering Organisations (**WFEO**) and collaborates with many other organisations dealing with engineering and technology issues and engineering education.
- FEANI is **officially recognised by the European Commission** as representing the engineering profession in Europe. The federation also has consultative status with UNESCO, UNIDO and the Council of Europe.

Project no. 101054872

FEANI: Fédération Européenne d'Associations Nationales d'ingénieurs

FEANI Committees and Working Groups:

- Executive Board (ExBo)
- European Monitoring Committee (EMC)
- National Monitoring Committee (NMC)
- WG Future Engineers (ex WG STEM)
- WG SDGs
- Engineers Europe Advisory Group (EEAG)



Project no. 101054872

FEANI: Fédération Européenne d'Associations Nationales d'ingénieurs

FEANI Products:

- EUR ING 2.0 (1 January 2023)
- European Engineering Education Database (EEED)

Project no. 101054872

Faculdade de Engenharia da Universidade do Porto (FEUP)





Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



Great Wine Capitals
GLOBAL NETWORK | A WORLD OF EXCELLENCE

Porto.



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



U. PORTO
FEUP ENGINEERING

Project no. 101054872

FEUP TALENT HUB

629 faculty, 351 research, 263 staff

2300 new
recruits
/ year

~8.000 students
33% women
50% postgraduate
20% international

1200
graduates
/ year

30.000 connected alumni
15% abroad



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

FEUP UNDERGRADUATE STUDIES

- Bioengineering
- Civil Engineering
- Materials Engineering
- Mining and Geo-Environmental Engineering
- Environmental Engineering
- Industrial Engineering and Management
- Electrical and Computer Engineering
- Engineering Physics
- Informatics and Computing Engineering
- Mechanical Engineering
- Chemical Engineering
- Artificial Intelligence and Data Science
- Information Science
- Communication Sciences

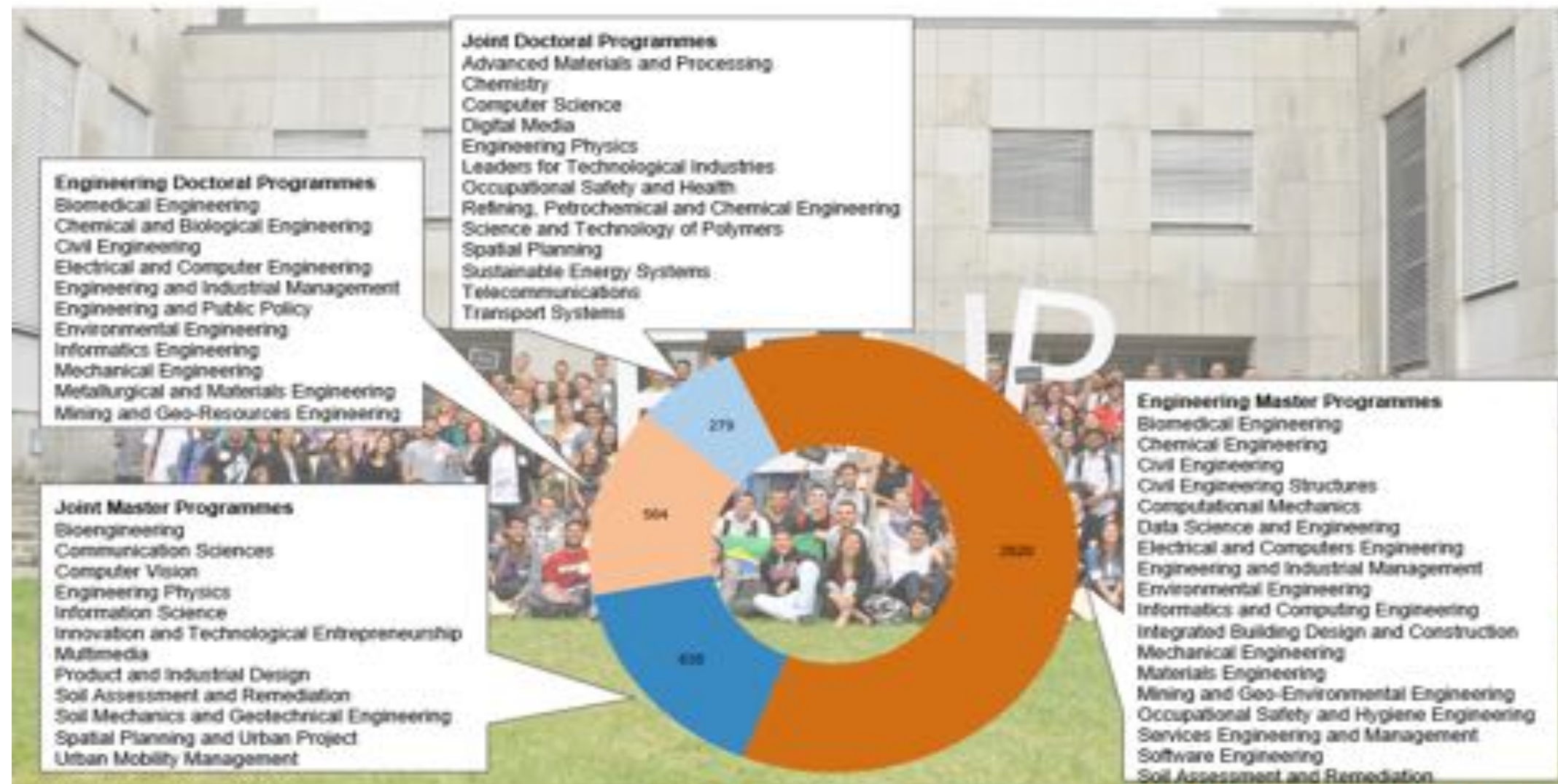


U. PORTO
FEUP ENGINEERING

2021/2022:
14 Bach. programs
5.749 students

Project no. 101054872

FEUP POSTGRADUATE STUDIES



Project no. 101054872

LEA - Teaching and Learning Laboratory

- PROFESSIONAL DEVELOPMENT AND SUPPORT

Academics professional development, Pedagogical needs assessment and training, Classes observation, Transferable skills programs management

- PEDAGOGICAL INNOVATION

Studies, Projects, Interinstitutional 'Good Practices' sharing, (inter)national Networks, 'Good Practices' dissemination

- DOCTORAL EDUCATION

'Good Practices' benchmark and implementation, Curricular remodeling of PhD programs, Transferable Skills, Onboarding and Career planning, Doctoral Congress in Engineering

Project no. 101054872

Projects and Studies



Vincere – micro-videos production to support learning in engineering topics



De Par em Par – Peer Observation of classes



PEP-UP – Enhance doctoral programs by collaborating with employers to foster Transferable Skills



Using data mining to predict students' academic success



INVENTHEI mentoring and training programs (education pillar), guide them towards research (innovation pillar), and promote collaboration and exchange programs between industry, research and academia (business pillar).



E4E – Engineers for Europe to prepare better equipped engineers through the acquisition of new competences, covering new knowledge, attitudes and leadership skills while focusing on digital, green, resilient and innovative entrepreneurship.

DocTalent4EU - enhance PhD employability through recognition-system of the most in demand transferable skills (ESCO framework) that early-career researchers (ECRs) acquire through their doctoral training and research activities.



Project no. 101054872

**Laboratório de Ensino e Aprendizagem
Faculdade de Engenharia
Universidade do Porto
Porto (Portugal)**

João Pedro Pêgo (coord.)
Ana Freitas

<http://fe.up.pt/lea>
lea@fe.up.pt



U. PORTO
FEUP ENGINEERING



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

Féidearthachtaí as Cuimse
Infinite Possibilities

Engineers for Europe (E4E)

Technological University Dublin

Kick-off meeting: Brussels (22/23 September 2022)

School of Electrical & Electronic Engineering
Dr. Keith Sunderland, Head of Electrical Energy Engineering
e : keith.sunderland@tudublin.ie
Dr. Martin Barrett
e : martin.barrett@tudublin.ie

T DUBLIN
OLLSCOIL TEICNEOLAÍOCHTA
BHAILE ÁTHA CLIATH
TECHNOLOGICAL
UNIVERSITY DUBLIN

Project no. 101054872

TU Dublin, Ireland's first Technological University, is where career-focused students, dedicated staff and academic excellence in science, the arts, business, engineering and technology converge to create the leaders and practitioners of tomorrow.

People

Fostering Individual Talents in an Ever Changing World

— we intend to ignite the imagination of students, staff and partners and support people to explore their abilities and reach their full potential



Planet

A Powerhouse for Living & Breathing Sustainability

— we intend to address the challenges facing the world and impact positively on the planet and people, with 'education' as the engine



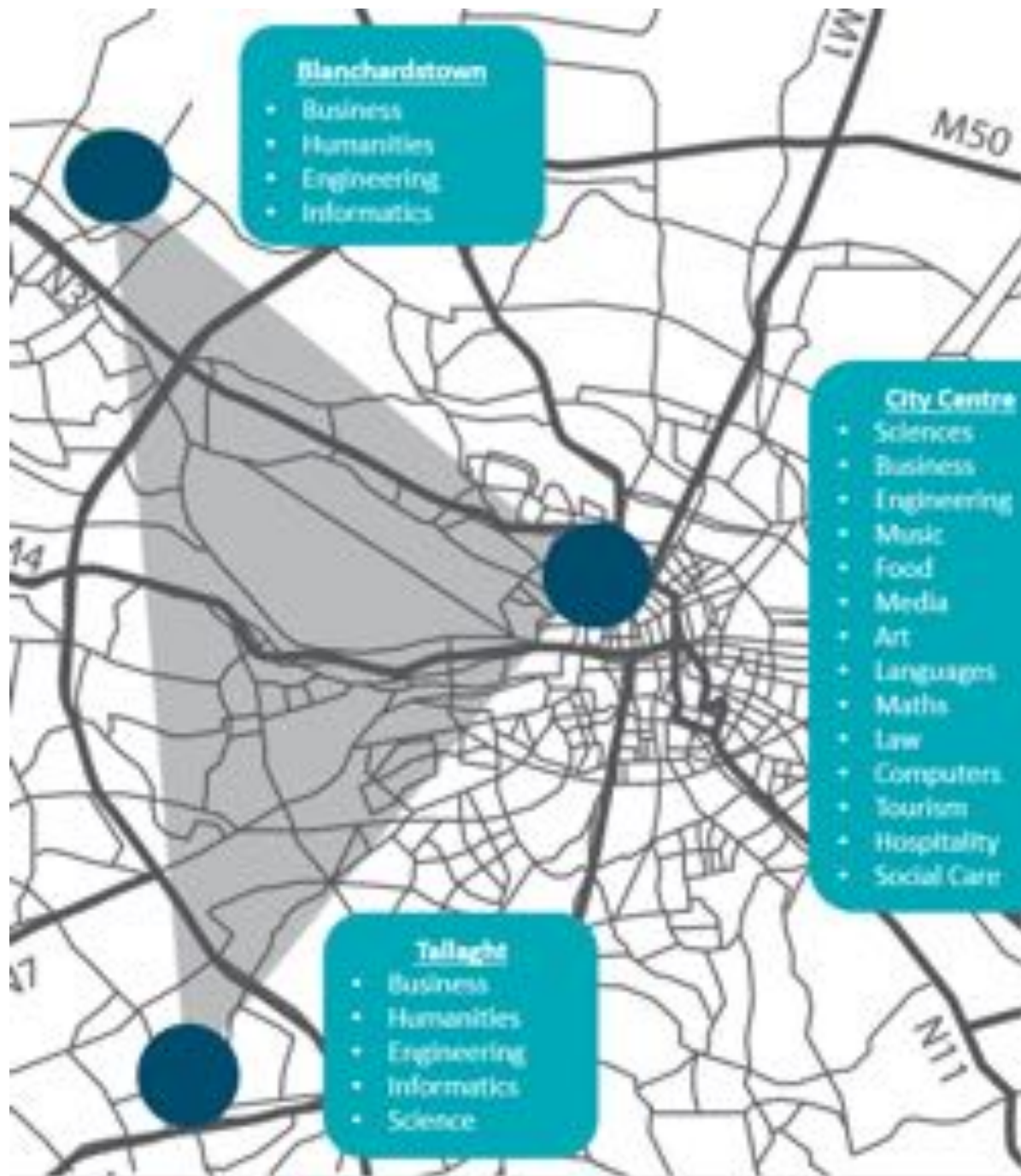
Partnership

Delivering Shared Impact

— we intend to develop the most connected university, cultivating a network of discoverers, creators and entrepreneurs, engaging with people that make things happen



Project no. 101054872

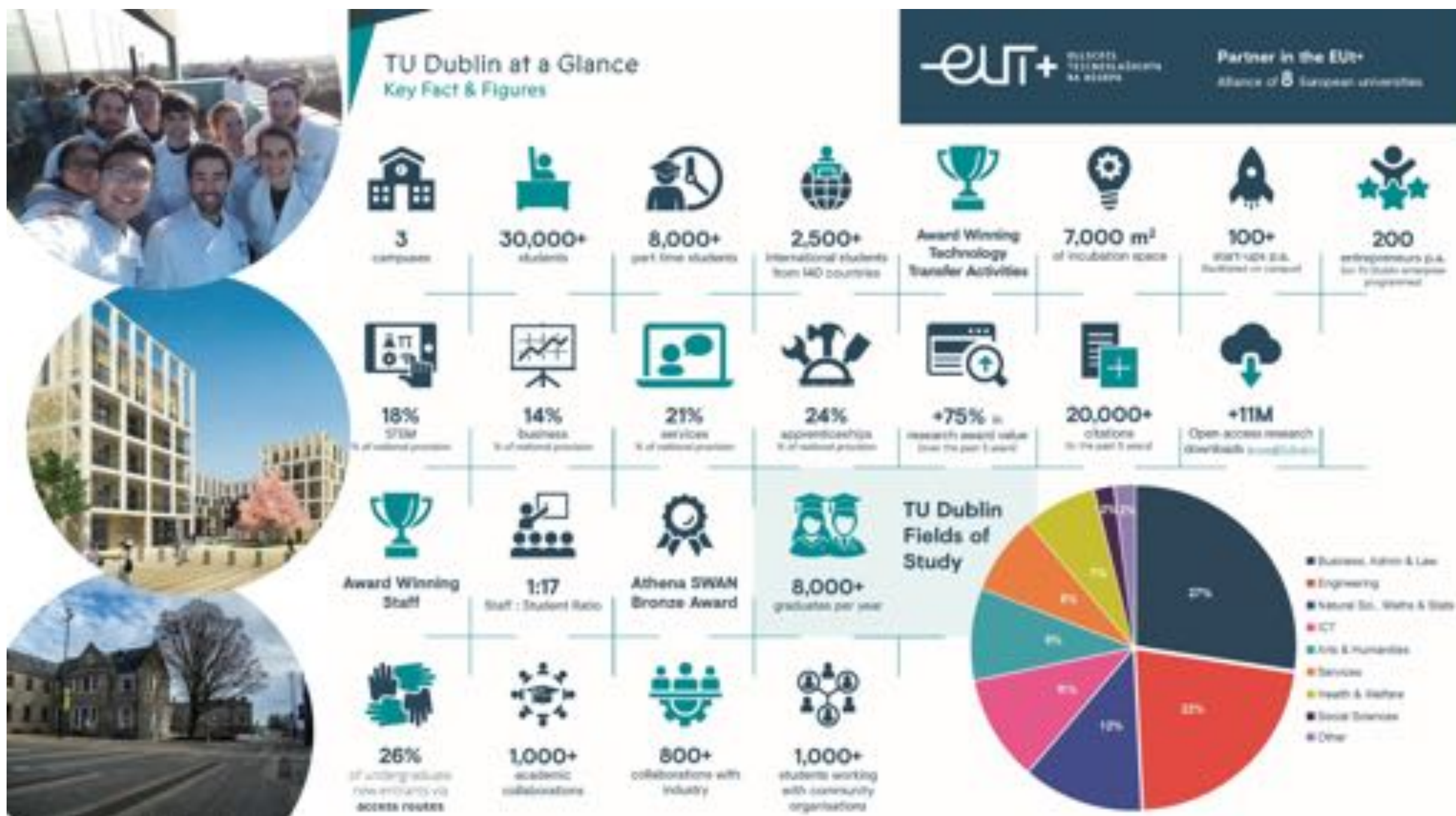


Technological University Dublin

5 Campuses located across Dublin city

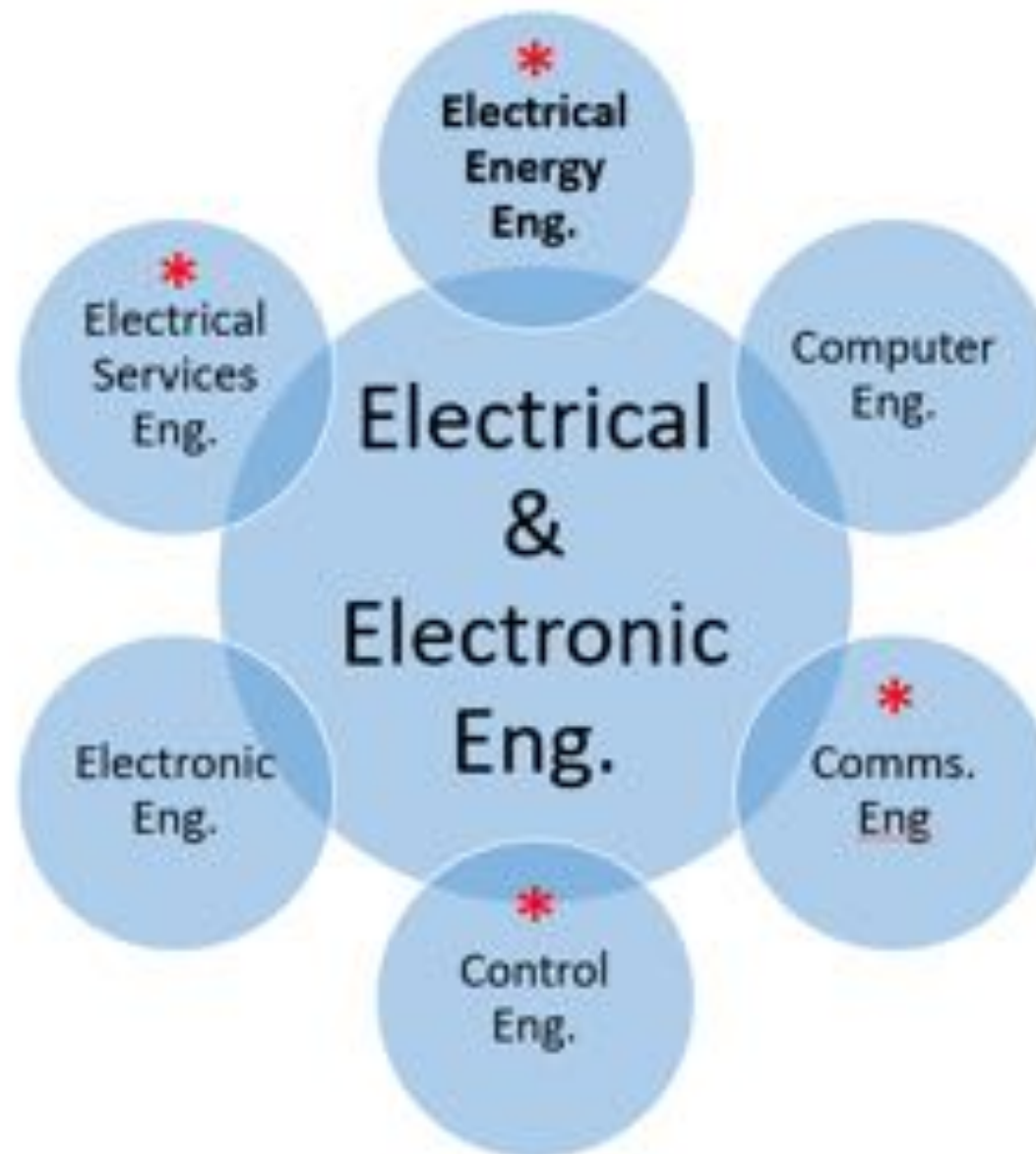
- City Centre
 - Aungier St.
 - Bolton St.
 - Grangegorman
- Blanchardstown
- Tallaght

Project no. 101054872



Project no. 101054872

The School of Electrical & Electronic Engineering



- Multi-campus
- Programme offerings (L6-L10)
- *Apprenticeships
- Research
- Partnerships



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

KU LEUVEN



**Inspiring the
outstanding**





Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

KU LEUVEN

A highly ranked university

#1

in the **Reuters** World Ranking of Most Innovative Universities in Europe

#42

in the **Times Higher Education** World University Ranking

#70

in the **QS** World University Ranking

#6 ranked university in the European Commission **Horizon 2020** programme (HEI only)

#14 ranked university in the **ERC** grants programme with over 110 projects (HEI only)

*Last updated: July 2021



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

KU LEUVEN

Europe's most innovative university

#1 REUTERS Ranking of Most Innovative Universities in Europe

1. **KU Leuven**
2. University of Erlangen Nuremberg
3. Imperial College London
4. University of Cambridge
5. EPFL
6. University College London
7. Technical University of Munich
8. University of Manchester
9. University of Zürich
10. Swiss Federal Institute of Technology Zurich

#7 REUTERS Ranking of Most Innovative Universities in the world

1. Stanford
2. MIT
3. Harvard
4. University of Pennsylvania
5. University of Washington
6. University of North Carolina Chapel Hill
7. **KU Leuven**
8. University of Southern California
9. Cornell University
10. Imperial College London



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

KU LEUVEN

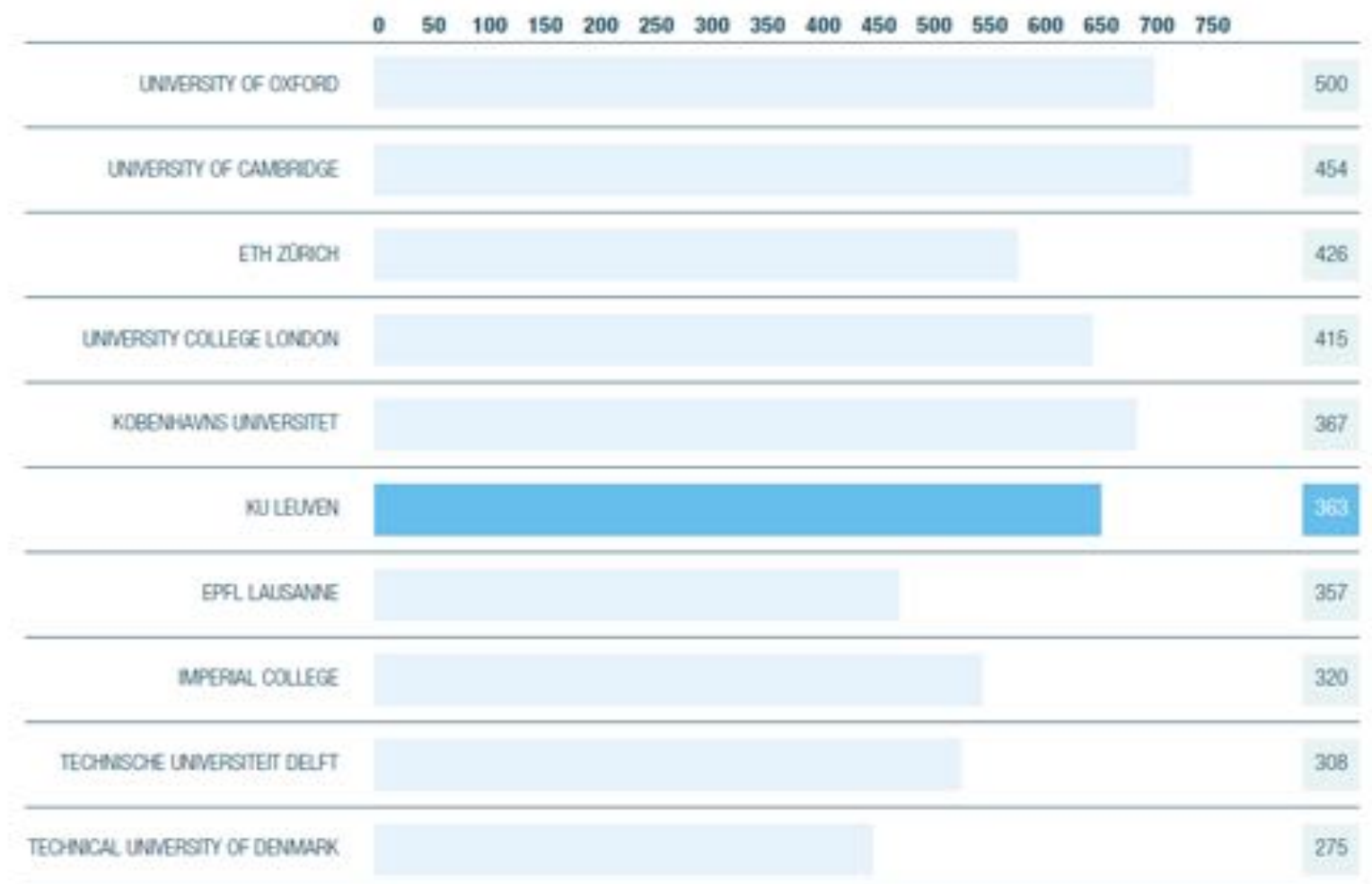
Research excellence

KU LEUVEN: A LEADING EUROPEAN RESEARCH UNIVERSITY

TOP 10 HIGHER
EDUCATION
INSTITUTIONS

based on number of
Horizon 2020 projects

PARTICIPATIONS, JUNE 30, 2021



LABEL = BUDGET IN MILLION €



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

KU LEUVEN

KU Leuven in numbers



STAFF

13,196

(KU LEUVEN)

9,524

(UNIVERSITY HOSPITALS)



RESEARCHERS

7,988



STUDENTS

60,292

INTERNATIONAL
STUDENTS

12,577



ALUMNI

250,000+



SPIN-OFFS

142

(UNIVERSITY
HOSPITALS)

*LAST COUNTED: July 2021

Project no. 101054872

KU LEUVEN

A comprehensive university



FACULTIES

15



BACHELOR DEGREES

48

(DUTCH)

5

(ENGLISH)



MASTER DEGREES

138

(DUTCH)

72

(ENGLISH)

1

(FRENCH)



ADVANCED MASTERS

19

(DUTCH)

23

(ENGLISH)

1

(SPANISH)

*Last updated: July 2021



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

KU LEUVEN

13 campuses at 10 locations



Leuven



Group T Leuven
Campus



Brussels Campus



Sint-Lucas
Brussels Campus



Antwerp Campus



Diepenbeek
Campus



Aalst Campus



Geel Campus



Ghent Technology
Campus



Sint-Lucas Ghent
Campus



De Nayer (Sint-
Katelijne-Waver)
Campus



Brugge Campus



KULAK Kortrijk
Campus



Project no. 101054872



AECEF - Association of European Civil Engineering Faculties

- **Funded in 1993**
- **Individual and institutional members**
- **A symposium every 2 years**
- **Education and research**
- **www.aecef.net**



Project no. 101054872

Our Experience

Education and preparation for the labour market

- retraining of the unemployed
- retraining of employees

Further training of employees

- competence development
- management development programs

Introduction of a dual education system

- At the existing vocational schools (project of the Dual Academy with Volkswagen Slovakia)
- into the training programs for lifelong learning

Project no. 101054872

Our Experience

Advisory and consultancy services

- representation of clients in the accreditation process (secondary school education programs, lifelong learning, further education of teachers and trainers)
- representation of clients in administrative proceedings in the field of education (establishment of new institutions (secondary schools and universities), transformation of existing institutions (secondary schools), licensing of foreign institutions (universities))

Legislative process

- active participation in the legislative process in the preparation of new legislation on vocational education and training (Act No. 61/2015 Coll. on Vocational Education and Training and implementing regulations)



Project no. 101054872

Our Experience

Fundraising activities

- National and grant schemes of the EU
- We realize projects for our clients starting with initial consultancy, through the development of a grant project, project management, to assistance in administrative activities in the form of project service.

Project management

- According to PRINCE 2 norms / standards
- Implementation of ISO9001 (Quality Management System) and ISO10006? (Quality Management Systems in Projects)



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



www.ivepe.gr

European Projects Office

INDUSTRIAL
TRAINING INSTITUTE





Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

Industrial Training

EU Funded projects

Erasmus+

EFVET

European Forum of Technical and Vocational Education and Training

CSR Projects

Public Programs

IVEPE-SEV : experience since 1980

Institute of Industrial Vocational Educational Training

Educational Branch of SEV

Non for Profit Union

IVEPE: Your Reliable Partner

Design and Implementation of Training Projects

SEV IVEPE

ATHENS - THESSALONIKI - PATRAS - VOLOS

Project no. 101054872



Activities



- Supporting the Enterprises
- Training the employees**
- Reinforcing the Unemployed
- Social Responsibility
- Certification



- 250 TRAINING PROGRAMS
- 34 THEMATIC CATEGORIES
- 6 FIELDS OF CERTIFICATION
- 300 EXPERTS & TRAINERS



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872





Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

The poster features a large blue diagonal shape on the right side with the text "Know-how Exchange projects". The top left corner displays the logos for EFVET (European Forum of Technical and Vocational Education and Training), SEV, and IVEPE. The top center features the Erasmus+ logo and the European Commission logo. The bottom left corner includes the text "Your reliable partner in Greece" and a logo of three stylized figures. The bottom right corner features logos for SOCIALNEET (From Civil Society Organizations to Social Entrepreneurship), EMBRACIVE, and DiVET (SEV IVEPE).



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872





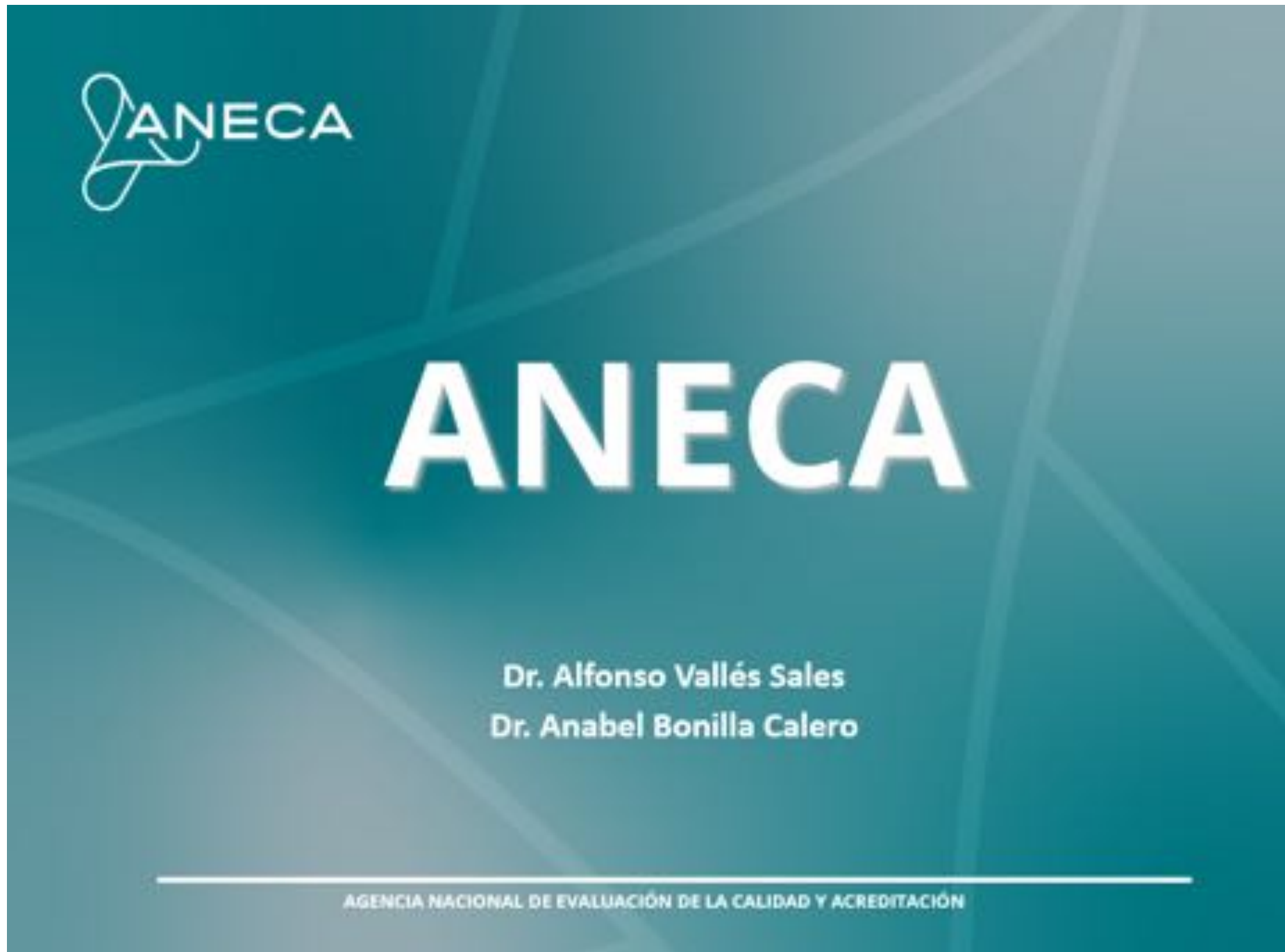
Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872





Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

ANECA INTERNATIONAL AL DIMENSION

In Spain, the Organic Law on Universities of 2001 creates the National Agency for Quality Assessment and Accreditation (ANECA) as a **public institution** responsible for **promoting and ensuring the quality of higher education**, and particularly of Spanish universities, in the international context, in accordance with the **criteria and guidelines for action established in the European Higher Education Area**.

ANECA is recognised by the European Register Quality Assurance (EQAR),



ANECA is part of the major networks of Quality Assurance in Higher Education at European (ENQA), Ibero-American (SIACES) and Worldwide (INQAAHE).



SIACES
Sistema Iberoamericano de Aseguramiento
de la Calidad de la Educación Superior



Project no. 101054872



**ANECA
INTERNATIONAL
DIMENSION**

ANECA evaluation programs for quality assurance

PROGRAMS AND INSTITUTIONS (Spanish University System)



Initial accreditation:
Curriculum verification



Tracking implementation of the
diplomas



Renewal of accreditation of
diplomas



Acreditación Institucional de
centros universitarios

ACADEMIC PROFESSORS (Spanish University System)



Evaluation of Teachers prior to
hiring



Accreditation for access to civil
servant positions



National Commission for the
Evaluation of Research Activity

LABEL RECOGNITION OF QUALITY OF PROGRAMMES AND INSTITUTIONS (INTERNATIONAL)



Assurance Systems
Quality Intern



International Professional
Quality Labels



Systems for the Evaluation of
Teaching Activity of Teachers



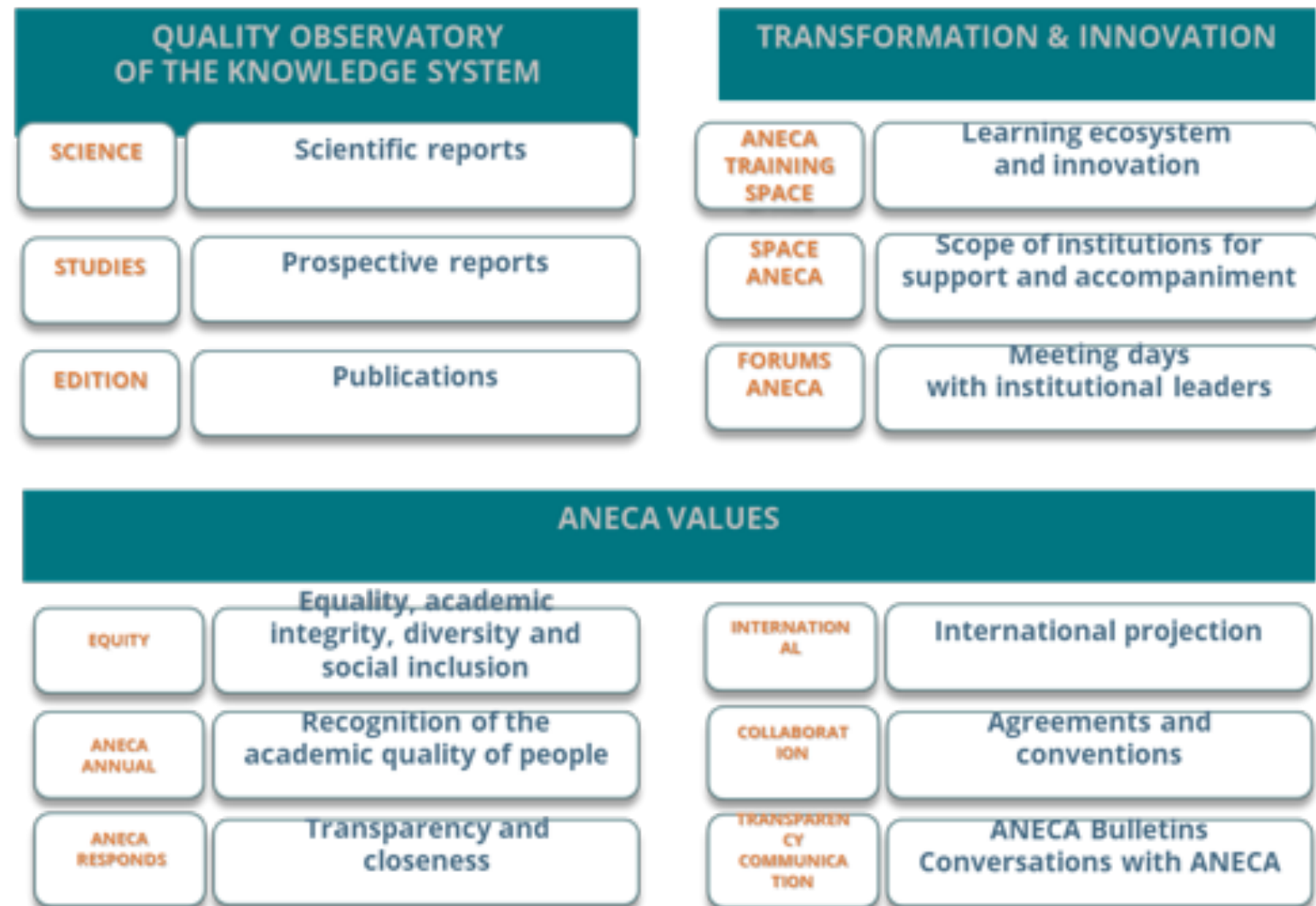
Comprehensive Recognition
SUSTAINABILITY

Project no. 101054872



ANECA INTERNATIONAL DIMENSION

ANECA activities for the promotion of quality



Project no. 101054872



ANECA INTERNATIONAL DIMENSION

ANECA Internationalization Commission

ANECA's Internationalization Commission's mission is to promote the international positioning of the Agency, through its involvement in quality assurance in different regions of the world, its active collaboration with international organizations, the promotion of projects and actions of academic diplomacy and the development of programs for the recognition of foreign university degrees.





Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



EXCELLENCE AND SUSTAINABILITY: ANECA'S INTERNATIONAL QUALITY LABELS

The ANECA International Quality Labels recognize the excellence of higher education institutions in certain areas and dimensions of their teaching, research, transfer, management, equity and sustainability mission, in accordance with the strategic interests decided by each institution.

The evaluation criteria and guidelines to achieve a certain ANECA International Quality Label are defined in collaboration with entities of international reference in the field and dimension of the recognition.

They are aligned with the requirements established in ANECA's accreditation programs, to avoid "evaluating pressure".

They are cumulative, in a modular structure that allows to achieve the Integral Recognition of Quality

In the field of the Sustainable Development Goals (SDGs), a dimension to be recognized is development cooperation to achieve Quality Education (SDG 4) & Alliances and Networks (SDG 17)



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



Wir
gestalten
die
Zukunft

VDI

The Association
of German
Engineers

Project no. 101054872



Introduction VDI

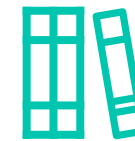
Largest engineering association in Germany

- approx. 135,000 personal members
- around 12,000 honorary experts
- approx. 120 employees at VDI HQ



Project no. 101054872

VDI is...



- facilitator and driver of the development and use of innovative future technology.
- one of the largest networks of engineering and technology in Europe.
- the largest technical-scientific association in Germany.
- the voice of engineering and technology towards society, politics, and business.
- multiplier of the latest engineering knowledge.
- facilitator of sustainable and future-oriented technology.
- third-largest technical standardisation organisation in Germany.
- well-known partner of engineers and natural scientists.



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



VDI Group

VDI Group

VDI e.V. (non-profit)

Ideational and non-profit activities
technical-scientific profession-focussed
work

VDI GmbH

business operations



Project no. 101054872



“We are the professional body for engineers in Ireland since 1835”

- **Represent + 25,000 Members**
- **Award Registered Professional Titles**
- **Accreditation Body**
- **CPD Training**
- **Competent Authority (EU Dir 2005/36)**



Project no. 101054872



E4E Participants

- **Mr Damien Owens, Registrar**
- **Ms Dee Kehoe; Director; CPD**
- **Dr Darren Carthy, CPD Executive**

Previous EU Projects

- Leonardo (lifelong learning)
- Prefer (graduate development)

Project no. 101054872

CPD

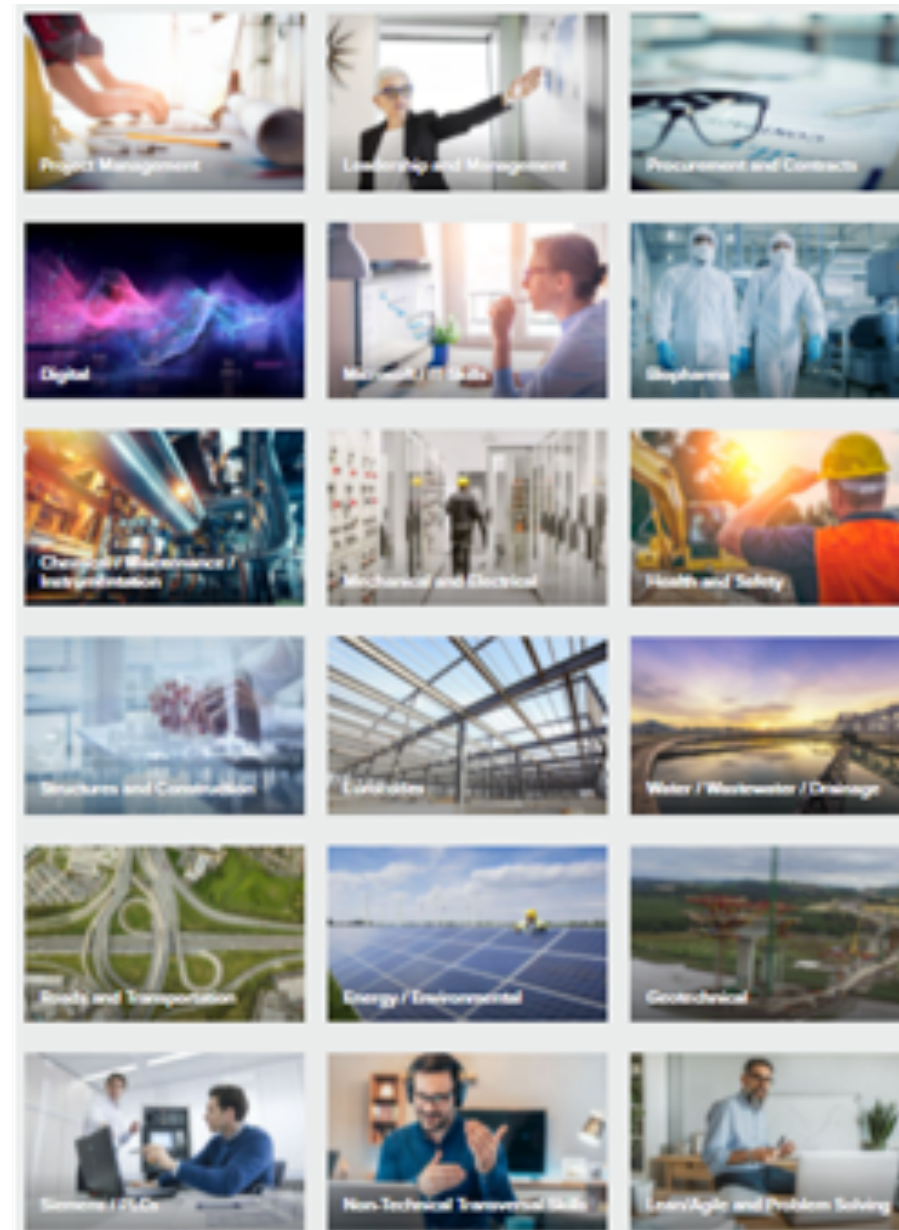
Training

With training across soft skill topics and technical engineering topics, the CPD team delivers over 160 courses annually. The core programme of CPD courses are designed to ensure maintenance of professional competence:

- The principles and practices of sustainability and the UN Sustainable Development Goals (SDGs) are embedded in programme development.
- Online delivery is prioritised.
- Course programme is informed by research and member engagement.

Deliver most of our public courses exclusively to in-company teams offering clients the advantage of ensuring CPD is directly relevant to the strategy, policies and/or practices of their organisation.

Identify and map the training gaps of our members and develop new technical training courses across all engineering disciplines. Run approximately 10 seminars annually accommodating up to 120 delegates per event



Project no. 101054872

CPD



Training

The Future Professional Series offers structured advancement to graduates through strands of intense and challenging professional development, all of which are accredited by TU Dublin at Level 9.

The Fast Track Series is designed to allow high-potential technical staff with apprentice and craftsperson skills to develop a range of non-technical skills which are vital for career advancement (Level 6 accredited, 5 ECTS, 5 month duration)

The Engineers Ireland Register of Training Providers supplements the core CPD programme provided directly by Engineers Ireland. The Register identifies further relevant and high-standard learning opportunities offered by external providers



Online Fast Track series
Key Competence Development for career advancement

Duration
5 months

Award
Successful participants will receive a CPD Certificate in Professional Skills from Technological University Dublin (TU Dublin), which is worth 5 ECTS credits at Level 6 on the National Framework of Qualifications (NFQ).

Programme overview
This part-time programme has been designed to allow high-potential, technical staff with apprentice and craftsperson skills to develop a range of non-technical skills which are vital for career advancement. Participants will gain insights from industry experts and professional tutors in order that they can appreciate the importance of fully rounded development to cope with the challenges of 21st century projects and processes in a demanding and fast-paced environment.

Participants will gain practical know-how regarding the standards and approaches which are required to optimise their contribution in their workplace, to handle workplace stresses and conflicts, to foster strong and united teams, to demonstrate excellence in their approach to managing projects, including commercial awareness and excellent resource efficiency. Successful completion of the programme will assist participants in accelerating their professional development and their career prospects.

Programme content

- Managing yourself
- Communicating effectively
- Commercial awareness
- Planning & prioritising
- An introduction to Project Management & Teamwork

A community of creative professionals delivering solutions for society
www.engineersireland.ie/fasttrack



Project no. 101054872

CPD Accreditation



The Engineers Ireland Continuing Professional Development (CPD) Accredited Employer Standard is promoted amongst engineering-led organisations and assists them with attracting and retaining talent and carving out a competitive advantage. Organisations also use the standard as a hallmark of quality when tendering for projects.

Our CPD Accredited Employer standard provides a framework for employers to make better choice's regarding learning and development initiatives in their organisations. There are currently 113 organisations awarded with the standard.

Engineers Ireland also offer an in-company, expert strategy mentoring programme for professional development, designed for delivering tangible results. This award winning programme has been designed for relevance to the Engineering sector and to be applicable to the roles and responsibilities contained in Engineering companies.





Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

CPD Accreditation

CPD Accreditation

The Engineers Ireland Continuing Professional Development (CPD) Accredited Employer Standard is promoted amongst engineering-led organisations and assists them with attracting and retaining talent and carving out a competitive advantage. Organisations also use the standard as a hallmark of quality when tendering for projects.

Our CPD Accredited Employer standard provides a framework for employers to make better choice's regarding learning and development initiatives in their organisations. There are currently 113 organisations awarded with the standard.

Engineers Ireland also offer an in-company, expert strategy mentoring programme for professional development, designed for delivering tangible results. This award winning programme has been designed for relevance to the Engineering sector and to be applicable to the roles and responsibilities contained in Engineering companies.





Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



ORDEM
DOS
ENGENHEIROS

ORDEM DOS ENGENHEIROS

PORTUGUESE ENGINEERS ASSOCIATION

Origin and Focus

Main Mission

Organization

*Strategic
Guiding Principles*

Created in 1936 (celebrates 86 years in 2022), the Ordem dos Engenheiros de Portugal / Portuguese Engineers Association (OEP) has as its main objectives:

- Access control to the professional engineers activity and practice in Portugal;
- Assure the quality, promotion and progress of engineering;
- Encourage efforts of its members in scientific, professional and social skills;
- Preservation of ethics and deontological behaviour, valorisation and professional qualifications of engineers.



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



ORDEM
DOS
ENGENHEIROS

ORDEM DOS ENGENHEIROS

PORTUGUESE ENGINEERS ASSOCIATION

Origin and Focus

Main Mission

Organization

*Strategic
Guiding Principles*

12 COLLEGES

- Agronomical
- Chemical and Biological
- Civil
- Computer
- Electrotechnical
- Environmental
- Forestry
- Geographical
- Geological and Mines
- Materials
- Mechanical
- Naval

24 SPECIALIZATIONS

- Administration and Management of Construction
- Structures
- Hydraulics and Water Resources
- Planning and Land Management
- Construction Safety
- Illuminotecnics
- Telecommunications
- Engineering Assessments
- Energy
- Acoustic Engineering
- Aeronautic Engineering
- Food Engineering
- Air-Conditioning
- Refrigeration
- Safety Engineering
- Engineering and Industrial Management
- Sanitary Engineering
- Textile Engineering
- Geotechnics
- Industrial Maintenance
- Metrology
- Geographical Information Systems
- Transport and Communications Infrastructure



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



ORDEM
DOS
ENGENHEIROS

ORDEM DOS ENGENHEIROS

PORTUGUESE ENGINEERS ASSOCIATION

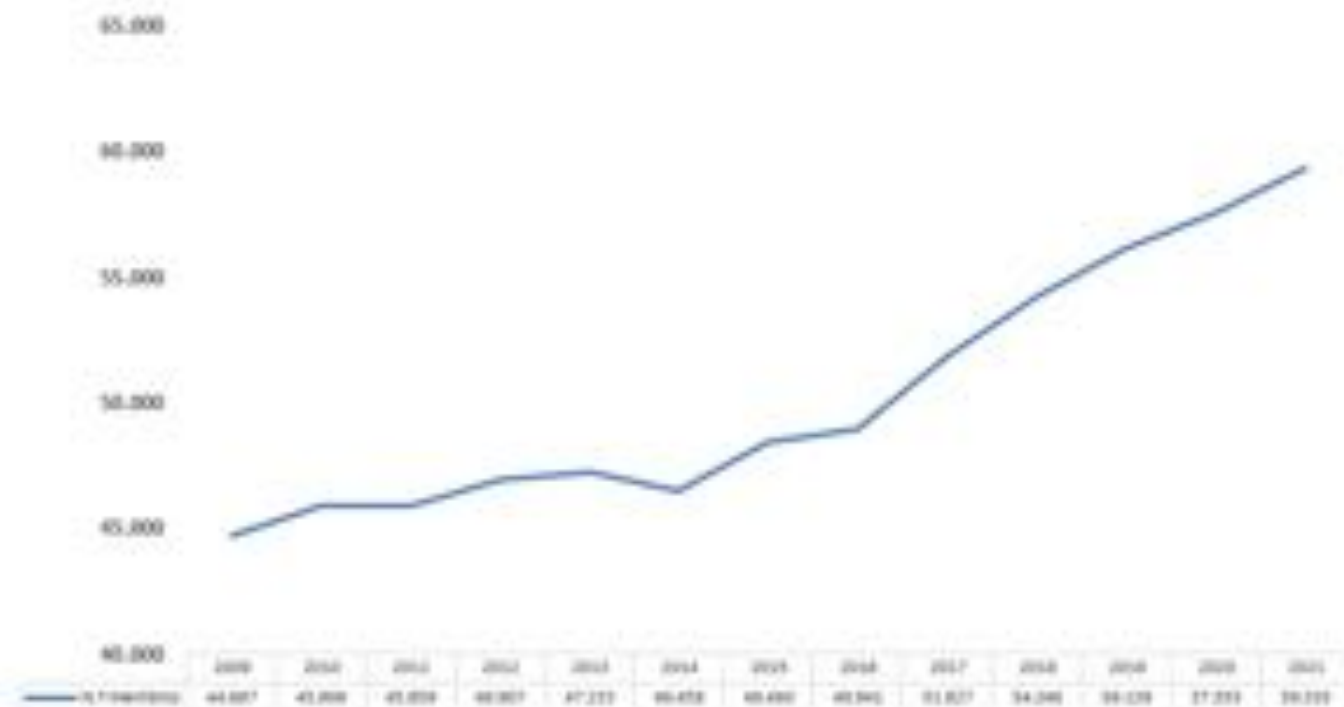
Origin and Focus

Main Mission

Organization

Strategic
Guiding Principles

2021 OEP members increased 3%
Total Members (31/12/2021) = 59.335





Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



ORDEM
DOS
ENGENHEIROS

ORDEM DOS ENGENHEIROS

PORTUGUESE ENGINEERS ASSOCIATION

Origin and Focus

Main Mission

Organization

*Strategic
Guiding Principles*

Within the Strategic Guiding Principles approved by the current leadership, the first is the Contribution To Society:

- Creation of a National Engineering Award;
- Creation of App to maximize interaction with members;
- **Create a quarterly BAROMETER for opinion collection of the members of OEP, through sample survey;**
- Develop an OBSERVATORY that gathers continuous statistical information for dissemination to members;
- Develop PIE – INTERACTIVE ENGINEERING PLATFORM that allows the intervention in the national territory;
- Organization of Open Presidencies;
- Creation the television of the Ordem dos Engenheiros.



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



ORDEM
DOS
ENGENHEIROS

ORDEM DOS ENGENHEIROS

PORTUGUESE ENGINEERS ASSOCIATION

Origin and Focus

Main Mission

Organization

*Strategic
Guiding Principles*

END

www.ordemengenheiros.pt

Thanks for your attention



Project no. 101054872



REHVA- Partner Profile

Sofia Bazzano- EU Project Officer
Anita Derjanecz- Managing Director



Project no. 101054872



REHVA mission and strategic activities

- ✓ Advocating **health, comfort, and energy efficiency** in all buildings and communities
- ✓ Promoting **healthy, energy-efficient, and cost-effective technologies, and high-quality HVAC engineering practice**
- ✓ Serving its members by **facilitating knowledge exchange, and supporting the development of related EU policies** and their national implementation
- ✓ Having an impact on EPBD-related national and international **strategic planning and research initiatives**, and on related education and training programmes
- ✓ **Promoting European engineering knowledge**, HVAC technologies, and European standards at a global scale
- ✓ Supporting the **education of young HVAC engineers** and the continuous professional development of building service practitioners
- ✓ Acting as the single **voice of European building service engineers**

Project no. 101054872



Partner Profile- REHVA

REHVA = Federation of European Heating, Ventilation and Air Conditioning Associations is a professional organisation

- ✓ founded in 1963
- ✓ representing 120.000+ building services engineers
- ✓ from 26 countries



REHVA activity fields:

Strengthening the REHVA network

- ✓ **EU LEVEL:** policy advocacy & policy intelligence, harmonised MS implementation & standardisation
- ✓ **WITHIN EUROPE:** collaboration among REHVA member associations & building services / construction industry
 - EU Research and innovation projects
 - Knowledge exchange, capacity building
 - Education & life-long learning (Education and Training committee)
- ✓ **BEYOND EUROPE:** collaboration and dissemination of EU HVAC culture at global level

Project no. 101054872



REHVA mission and strategic activities

- ✓ REHVA Newsletter (4069 recipients)
- ✓ Supporters Bulletin
- ✓ REHVA website
- ✓ Social media - REHVA Energy professionals (2300+ members)
- ✓ REHVA Guidebooks available in the REHVA online bookstore
- ✓ REHVA Journal, free, 6 issues per year, available online or in paper copy
- ✓ Online Multilingual HVAC Dictionary (20 languages) and glossary
- ✓ Live seminars, courses and workshops during events
- ✓ Online training and webinars





Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



E4E Staff



Anita Derjanecz
Managing Director



Nathalie Wouters
Office and Membership
Manager



Nicolai Marucclova
Senior Marketing &
Knowledge Dissemination
Officer



Jasper Vermaut
EU Policy and Project Officer



Marie Joannes
Communication and
Marketing Assistant



Sofia Bazzano
EU Project Officer



Andrei Litiu
Project Consultant



Project no. 101054872



European Council of Engineers Chambers (ECEC)

- The ECEC is the umbrella organization of European Engineers Chambers. It represents the professional interest of Chartered Engineers on European level
- Its members are national Chambers or other legally established public bodies representing authorized Chartered Engineers. Currently the ECEC represents 16 Chambers and over 300.000 highly qualified European Chartered Engineers who are members in these Chambers.



Project no. 101054872



ECEC's competence for E4E

- As representative organization of Engineers Chambers the ECEC is involved in educational as well as professional requirements of the profession. Its members are either competent authorities of professional access in their countries or are in close cooperation with them
- In 2016/2017 the European Commission (Directorate-General for Internal Market, Industry; Entrepreneurship and SMEs) has contracted ECEC to develop proposals for Common Training Principles for Engineers covering all EEA countries. Although it was not possible to reach a common agreement during the project time, the project produced a lot of important information on Engineering Education and Regulation in Europe



Project no. 101054872



Executive Board

President
Klaus Thürriedl,
Austria



Vice-President
Hubertus Brauer,
Germany



Vice-President Nina
Dražin Lovrec,
Croatia



Vice-President
Roberto Orvieto,
Italy



Secretary General
Juan Blanco Lino,
Spain



Treasurer Gabor
Szöllösy, Hungary





Project no. 101054872



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Structure of the E4E Project

Overview of Work Packages

Project no. 101054872

The Challenge

- 1) Shortage of engineers in EU
- 2) Lack of reliable data about the profession's dynamics and trends
- 3) Skill polarisation / transversal skills for multidisciplinary
- 4) distance between the world of education and the world of work
- 5) Lack of integration among HE, VET and Industry
- 6) Widening skill mismatch
- 7) Global competitive pressures

Project no. 101054872

Who says...apart from us...

- “Analysis of Shortage and Surplus Occupations 2020” EU Commission
- Skills Panorama of Cedefop 2019, “Science & engineering technicians: skills opportunities and challenges”
- “Global Engineering Capability Review”, 2021
- “Engineering for Sustainable Development” UNESCO, Engineering Report 2021

Project no. 101054872

E4E solutions

1. Establish the EU - Engineering Skills Council
2. Design a monitoring methodology to monitor the profession and develop the Engineering Skills Strategy
3. Develop and deliver the E4E Curriculum (transversal skills)

E4E in numbers

13	Partners
8	Countries
36	Months
6	Work Packages
22	Tasks
1.5	Million €

		ENGINEERS + EUROPE		E4E Work Plan		2022		2023												2024												2025											
WP Lead				S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A				
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
FEANI	WP1 Project Management																																										
	T1.1 Project Management Plan																																										
	T1.2 Project Management Activities																																										
	T1.3 Project Management Report + Technical & Financial Reporting																																										
FEANI	WP2 EU Engineering Profession: Skills Council, Skills Monitor/Anticipation Tools																																										
	T2.1 Define structure & governance; establish Skills Council & Working Groups																																										
	T2.2 Develop common methodology to assess, anticipate, monitor profession																																										
	T2.3 Identification of trends, challenges and opportunities for profession																																										
	T2.4 Anticipating Skill Dynamics for Engineering Profession: E4E Skills Strategy																																										
FEUP	WP3 Develop Innovative Training for the Profession																																										
	T3.1 Define Learning Objectives/Outcomes based on WP2 + EC Comp Frames																																										
	T3.2 Develop E4E curriculum (content/structure/means/trainers' manual)																																										
	T3.3 Develop the "Skills Passport" and EQF alignment Europass ESCO																																										
NG	WP4 Pilot Delivery: Test & Validation / Fine-Tuning																																										
	T4.1 Test & Validation Plan																																										
	T4.2 Deliver E4E Training + Collect users' feedback and collate Validation Report																																										
	T4.3 Finalise the Curriculum and Training based on users' feedback																																										
	T4.4 Guidelines for Mainstreaming and Uptake of Training																																										
ANECA	WP5 IMPACT: Monitoring & Evaluation and Quality Assurance																																										
	T5.1 Develop the Impact Plan with M&E and QA elements																																										
	T5.2 Carry out ME & QA Activities																																										
	T5.3 Perform impact Assessment (Formative & Summative Evaluation)																																										
	T5.4 Draft the M&E & QA Reports (2 Interim + 1 Final)																																										
FEANI	WP6 Valorisation: Dissemination & Exploitation																																										
	T6.1 Develop the Valorisation Plan for dissemination & exploitation of E4E																																										
	T6.2 Establish the E4E website and OER platform & its maintenance																																										
	T6.3 Carry out Valorisation Activities																																										
	T6.4 Draft Valorisation Reports (2 interim + 1 final)																																										

Project no. 101054872

WP1: Project Management

Start: M1 Sep. 2022

End: M36 Aug. 2025

T1.1 Develop Project Management Plan

T1.2 Project Management Activities

T1.3 Reporting

Technical and financial reporting every 6 months

Project no. 101054872

WP1 deliverables and timeline

D1.1 E4E Project Implementation Plan M3

D1.2 Interim Reports

M7 31/03/2023

M13 30/09/2023


M20 30/04/2024

M27 30/11/2024

D1.3 Meeting Reports

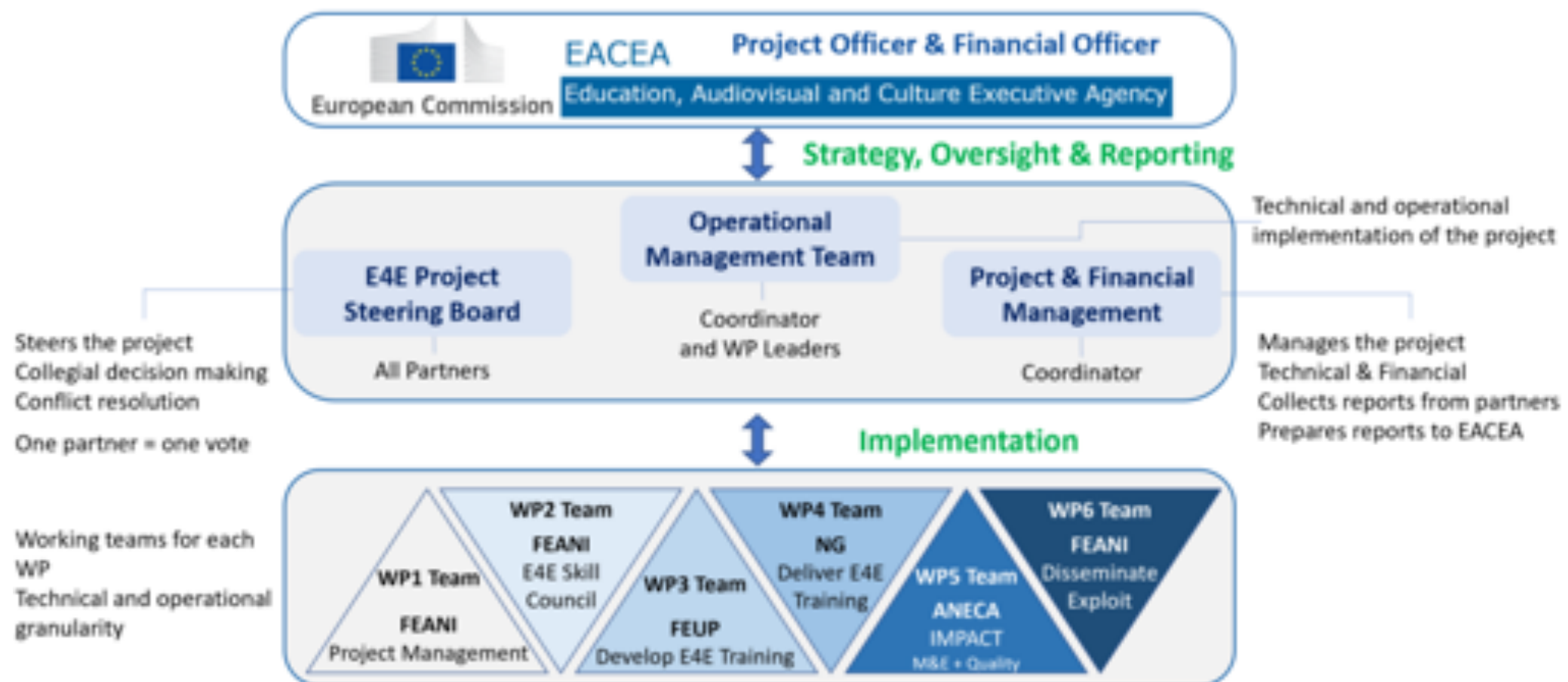
D1.4 Final Report

M36 31/08/2025

WP Lead		E4E Work Plan	2022				2023												2024												2025											
			S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
FEANI	WP1	Project Management																																								
	T1.1	Project Management Plan																																								
	T1.2	Project Management Activities																																								
	T1.3	Project Management Report + Technical & Financial Reporting																																								

Project no. 101054872

Management Structure



Project no. 101054872

WP2: Skills Council & Strategy

Start: M1 Sep. 2022

End: M36 Aug. 2025

T2.1 Define structure and governance +
Establish Skills Council & Working Groups

T2.2 Methodology to assess, anticipate, monitor profession

T2.3 Identify trends, challenges & opportunities

T2.4 E4E Skills Strategy

Project no. 101054872


WP2 deliverables & timeline

D2.1 E4E Skills Council (structure & governance) M11 Jul 2023

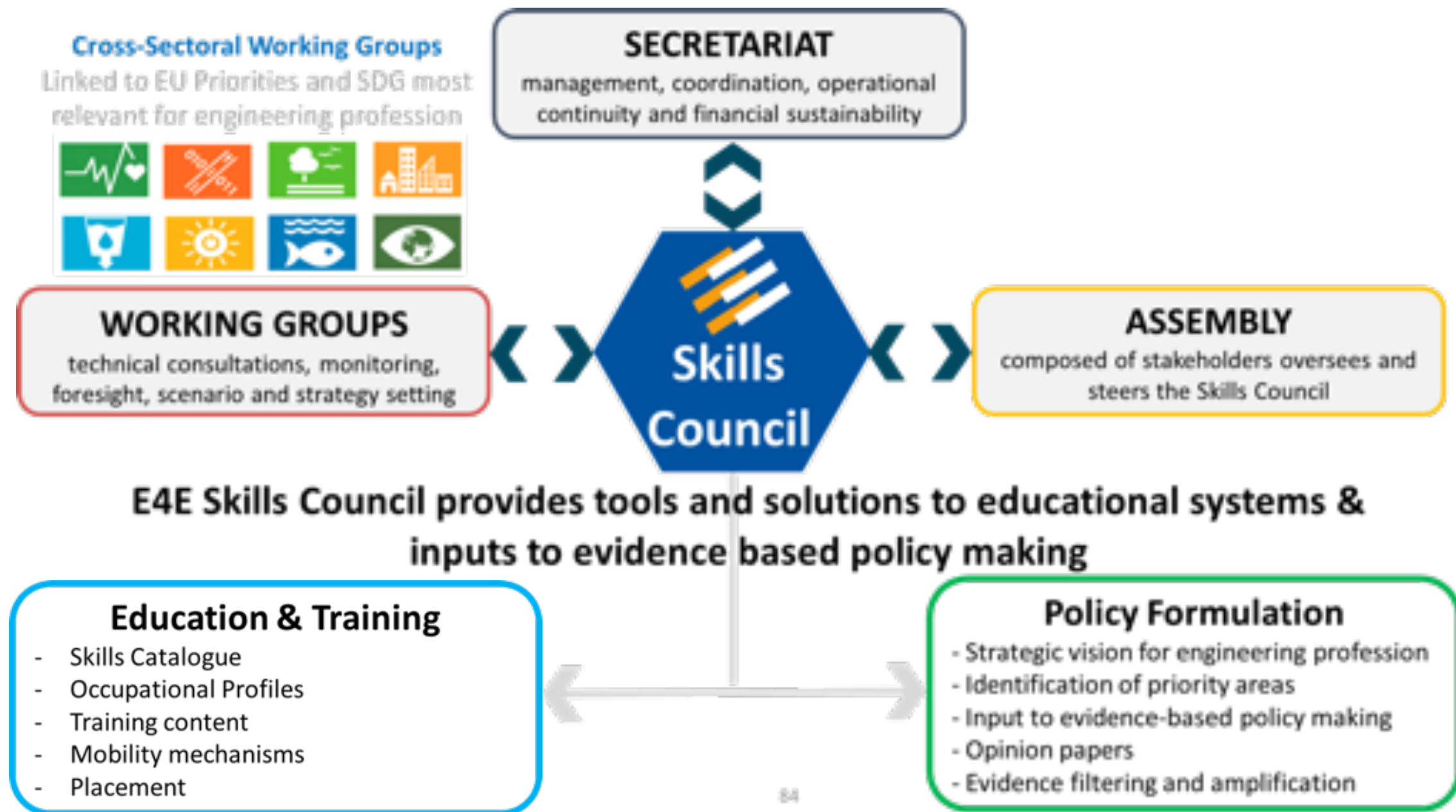
D2.2 E4E methodology to monitor the profession M9 May 2023

D2.3 E4E Skill Strategy M11 Jul 2023 M23 Jul 2024 M35 Jul 2025

D2.4 E4E Skills Strategy M12 Aug 2023 M24 Aug 2024 M36 Aug 2025

WP	Lead	 E4E Work Plan	2022				2023												2024												2025											
			S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
FEANI	WP2	EU Engineering Profession: Skills Council, Skills Monitor/Anticipation Tools																																								
	T2.1	Define structure & governance; establish Skills Council & Working Groups																																								
	T2.2	Develop common methodology to assess, anticipate, monitor profession																																								
	T2.3	Identification of trends, challenges and opportunities for profession																																								
	T2.4	Anticipating Skill Dynamics for Engineering Profession: E4E Skills Strategy																																								

Project no. 101054872



Project no. 101054872

WP3 Innovative Training

Start: M13 Sep. 2023

End: M24 Aug. 2024

T3.1 Define Learning Objectives (on results of WP2 + EC Frames)

T3.2 Develop E4E curriculum (content/structure/means/trainers' manual)

T3.3 Develop “Skills Passport” + align w/ EQF, Europass, ESCO

Project no. 101054872

WP3 deliverables and timeline

D3.1 E4E Learning Objectives / Outcomes M18 Feb 2024

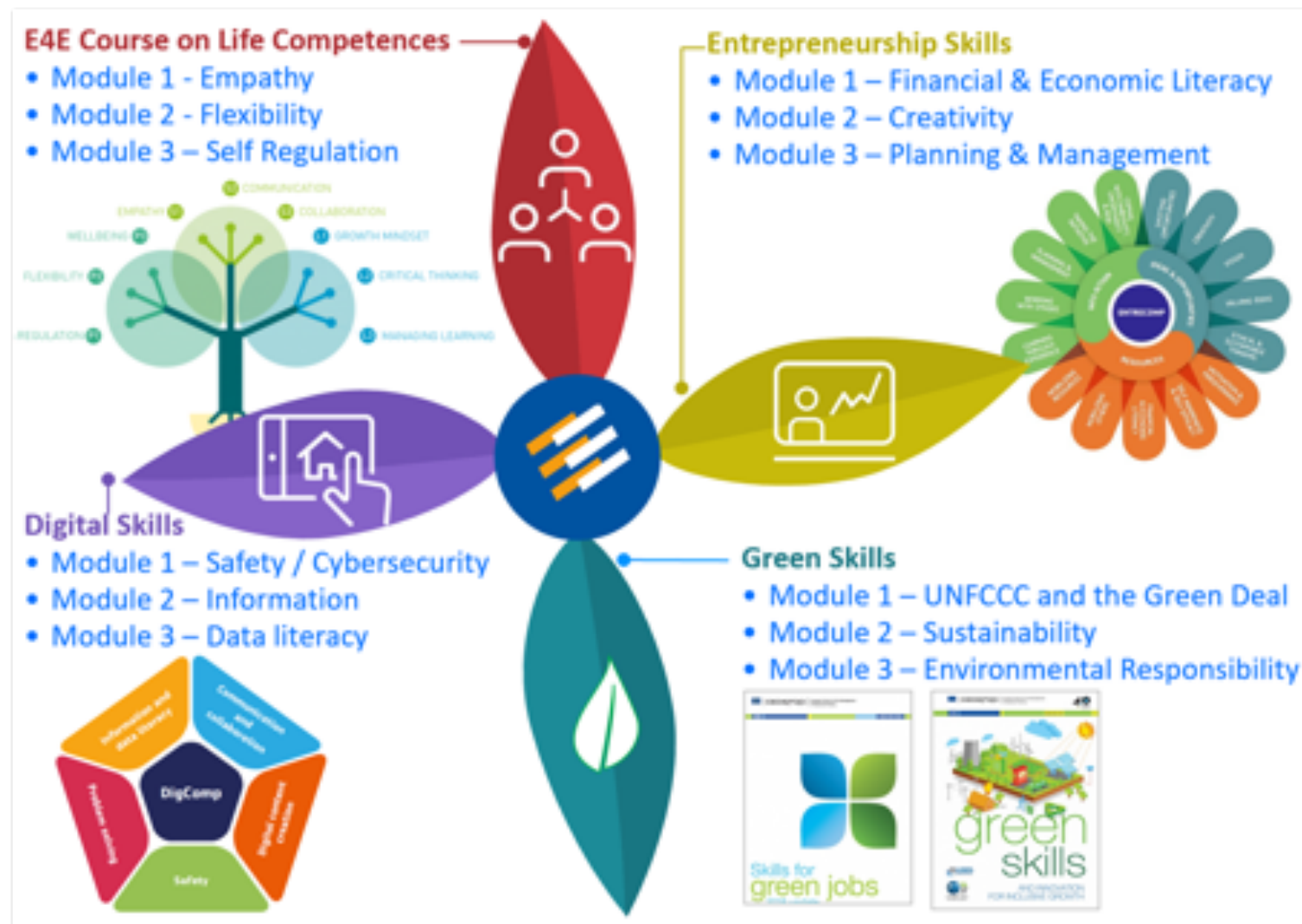
D3.2 E4E Curriculum and Training M22 June 2024

D3.3 E4E Skills Passport M24 Aug 2024

WP	Lead	E4E Work Plan	2024												2025											
			S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
			13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
FEUP	WP3	Develop Innovative Training for the Profession																								
	T3.1	Define Learning Objectives/Outcomes based on WP2 + EC Comp Frames																								
	T3.2	Develop E4E curriculum (content/structure/means/trainers' manual)																								
	T3.3	Develop the "Skills Passport" and EQF alignment Europass ESCO																								

Project no. 101054872

E4E Training



Project no. 101054872

WP4 pilot delivery and validation

Start: M21 May 2024

End: M36 Aug. 2025

T4.1 Test & Validation Plan

T4.2 Deliver Training & Collect' feedback in Validation Report

T4.3 Finalise the Training based on users' feedback

T4.4 Guidelines for Mainstreaming and Uptake of Training

Project no. 101054872

WP4 deliverables and timeline

D4.1 Validation Plan	M23 Aug 2025
D4.2 Validation Report	M36 Aug 2025
D4.3 Final E4E Training validated	M36 Aug 2025
D4.4 Guidelines for Mainstreaming and Uptake	M36 Aug 2025

WP Lead	E4E Work Plan	2025															
		M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
NG	WP4 Pilot Delivery: Test & Validation / Fine-Tuning																
	T4.1 Test & Validation Plan																
	T4.2 Deliver E4E Training + Collect users' feedback and collate Validation Report																
	T4.3 Finalise the Curriculum and Training based on users' feedback																
	T4.4 Guidelines for Mainstreaming and Uptake of Training																

Project no. 101054872

WP5 Impact: M&E and QA

T5.1 Develop the Impact Plan (M&E and QA)

T5.2 Carry out ME & QA Activities

T5.3 Perform Impact Assessment

T5.4 Draft M&E & QA Reports (2 Interim + 1 Final)

Project no. 101054872

WP5 deliverables and timeline

D5.1 Impact Plan

M3 Nov 2023

D5.2 Impact Assessments

M18 Feb 2024


M36 Aug 2025

D5.3 Impact Report on M&E and QA

M13 Sep 2023

M25 Sep 2024

M36 Aug 2025

 E4E Work Plan			2022				2023												2024												2025														
			S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A							
WP Lead			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36							
ANECA	WP5	IMPACT: Monitoring & Evaluation and Quality Assurance																																											
		T5.1 Develop the Impact Plan with M&E and QA elements																																											
		T5.2 Carry out ME & QA Activities																																											
		T5.3 Perform Impact Assessment (Formative & Summative Evaluation)																																											
		T5.4 Draft the M&E & QA Reports (2 Interim + 1 Final)																																											

Project no. 101054872

WP6 Valorisation

- T6.1 Develop Valorisation Plan
- T6.2 Establish the E4E website / OER platform
- T6.3 Carry out Valorisation Activities
- T6.4 Draft Valorisation Reports (2 interim + 1 final)

Project no. 101054872

WP6 deliverables and timeline

D6.1 E4E Valorisation Plan: Dissemination & Exploitation

M3 Nov 2022

D6.2 E4E Website and OER Platform


M3 Nov 2022

D6.3 Valorisation Report (2 interim + 1 final)

M12 Aug 2023

M24 Aug 2024



M36 Aug 2025

 <div>E4E Work Plan</div>		2022				2023												2024												2025											
		S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
WP Lead																																									
FEANI	WP6	Valorisation: Dissemination & Exploitation																																							
	T6.1	Develop the Valorisation Plan for dissemination & exploitation of E4E																																							
	T6.2	Establish the E4E website and OER platform & its maintenance																																							
	T6.3	Carry out Valorisation Activities																																							
	T6.4	Draft Valorisation Reports (2 interim + 1 final)																																							

Project no. 101054872

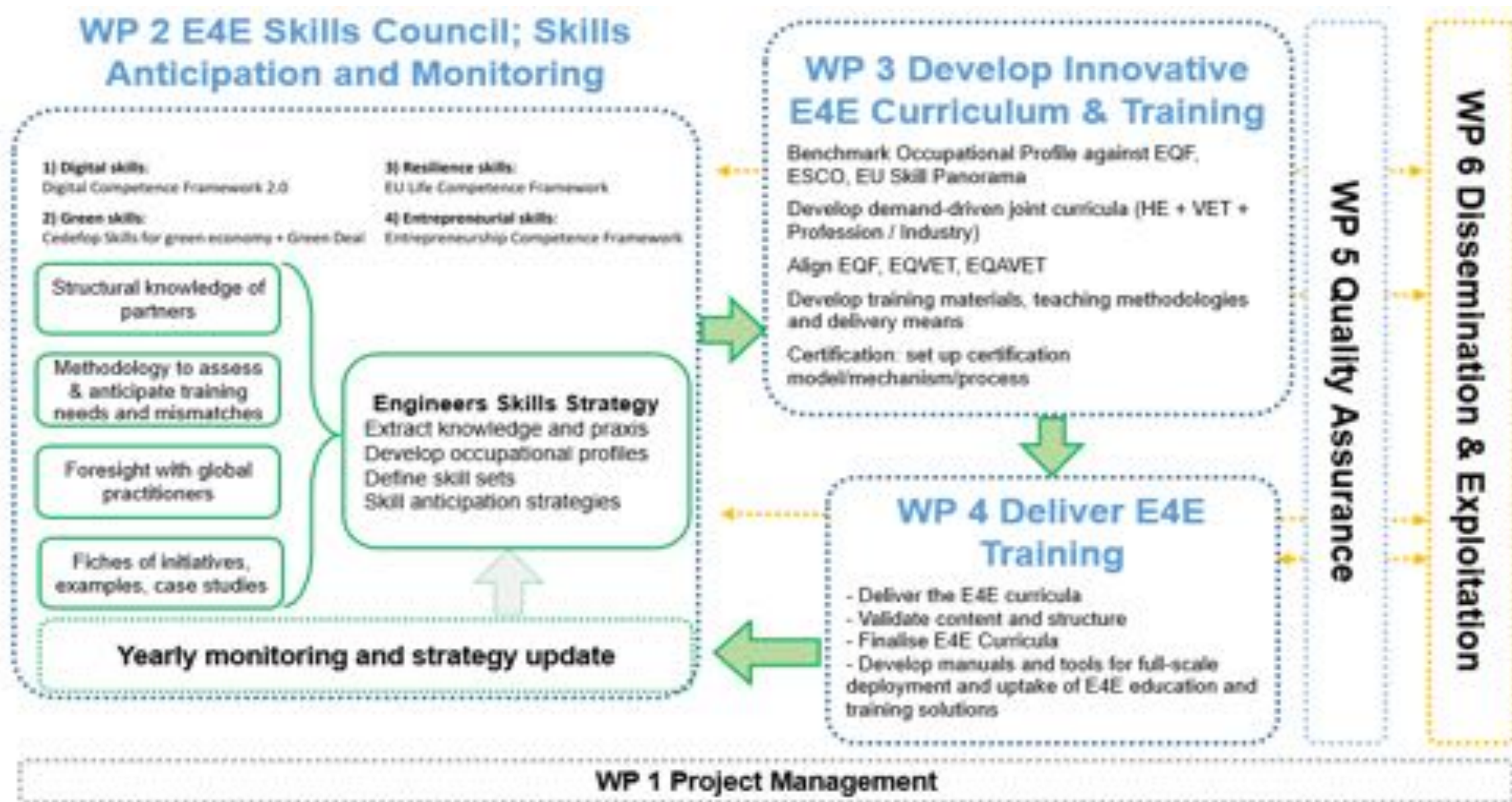
Keeping track of dissemination

Dissemination Reporting Tool

 Erasmus+				Project ref number 101054872
Partner	Tot online / partner	Tot offline / partner	Tot PM, STKHs / partner	
FEANI (Applicant)	0	0	0	
UPORTO	0	0	0	
TU Dublin	0	0	0	
KU Leuven	0	0	0	
AECEF	0	0	0	
Newport Group	0	0	0	
IVEPE- SEV	0	0	0	
ANCA	0	0	0	
VDI	0	0	0	
EI	0	0	0	
OE	0	0	0	
REHVA	0	0	0	
ECEC	0	0	0	
tot. Project level	0	0	0	

Project no. 101054872

Structure of the E4E Project and brief description of the Work Packages





Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

Coffee break

Project no. 101054872

Work Package 1: Project Management & Coordination

Project Implementation Plan D1.1

- D 1.1
- Due: M3
- Resp: FEANI
- Aim: it is the basis of Project Implementation, describing internal processes and setting tools and templates

Project no. 101054872

Work Package 1: Project Management & Coordination

Project Implementation Plan D1.1

- The PIP is divided into 5 sections
 1. THE E4E PROJECT
 2. THE PARTNERSHIP
 3. FINANCIAL MANAGEMENT
 4. IMPACT, PROCESS & KPIs
 5. ANNEXES

Project no. 101054872

Work Package 1: Project Management & Coordination / Project Implementation Plan D1.1

PIP Table of Content

Section 1: THE E4E PROJECT

- 1.1 Relevant sectorial and horizontal Erasmus priorities
- 1.2 Targets and group of interest addressed by the Project
 - 1.2.1 *Participants: Internal VS External Targets*
 - 1.2.2 *Participants with fewer opportunities*
- 1.3 Results and Expected Outcomes
- 1.4 Duration of the Project and timeline of the foreseen activities
- 1.5 Detailed Break-Down of Project Results and Workloads

Project no. 101054872

Work Package 1: Project Management & Coordination / Project Implementation Plan D1.1

PIP Table of Content

Section 2: THE PARTNERSHIP

2.1 A Snapshot of the Participating Organisation

2.1.1 Associated Partner

2.2 Internal Communication and Collaboration Dynamics

2.2.1 Communication

2.2.2 Cooperation

2.2.3 Risk management and Conflict Resolution

2.3 Project Meetings

Project no. 101054872

Work Package 1: Project Management & Coordination / Project Implementation Plan D1.1

PIP Table of Content

Section 3: FINANCIAL MANAGEMENT

3.1 Budget Control

3.2 Internal Reporting

3.3 Interim & Final Report to EACEA

Project no. 101054872

Work Package 1: Project Management & Coordination / Project Implementation Plan D1.1

PIP Table of Content

Section 4: IMPACT, PROCESS & KPIs

4.1 Evaluation of Internal Procedures

4.1.1 *Formative vs Summative Evaluation*

4.2 Key Performance Indicators

4.3 Impact Assessment Plan

Project no. 101054872

Project Budget

Funding model: Lump sum contribution

- Project budget is a Lump sum
- Calculated as 80% of the total costs approved

TOTAL BUDGET of the proposal = 1.860.579

LUMP SUM GRANT (80%) = 1.488.466

Project no. 101054872

Total Project Budget

Budget Headings:

- Staff (divided into categories of personnel) / day
- Travel (travel, accommodation and subsistence for meetings and Council)
- Subcontracting (OER Platform)
- Other costs (hosting meetings, final conference, etc)
- Overheads (7% of total)

TOTAL costs = 1.860.579

GRANT (80%) = 1.488.466

Project no. 101054872

Budget approved: Annex II of G.A.

ESTIMATED BUDGET (LUMP SUM BREAKDOWN) FOR THE ACTION

Form of funding	Estimated EU contribution						Maximum grant amount ²
	Estimated eligible lump sum contribution (per work package)						
	WP1 Project Management & Coordination	WP2 European Engineering Production EU Skills Council & Skills Monitoring and Anticipation Tools	WP3 E4E Training Tools - Developing Innovative Training for the Engineering Production	WP4 New Delivery Tool & Evaluation Incentive Operational environment and Fine-Tuning of E4E Contribution and Training	WP5 WP4 to 7 Monitoring & Evaluation and Quality Assessment	WP6 Evaluation Dissemination & Exploitation of E4E	
	Lump sum contribution	Lump sum contribution	Lump sum contribution	Lump sum contribution	Lump sum contribution	Lump sum contribution	
	a	b	c	d	e	f	g=a+b+c+d+e+f
1. ELAR	36 400.00	40 275.00	27 200.00	22 000.00	20 425.00	27 000.00	200 325.00
2. E4E-ES	22 500.00	27 275.00	26 000.00	24 750.00	7 400.00	22 300.00	129 490.00
3. IT Skills	26 000.00	26 900.00	40 075.00	20 000.00	20 250.00	29 025.00	152 450.00
4. E4E-ES	42 000.00	26 000.00	27 750.00	24 750.00	22 000.00	27 000.00	169 500.00
5. E4E-ES	26 000.00	22 125.00	26 750.00	24 750.00	22 000.00	22 300.00	143 925.00
6. Transport Group	22 000.00	26 475.00	24 750.00	24 750.00	2 000.00	20 400.00	119 875.00
7. E4E-ES	26 275.00	2 075.00	27 500.00	22 500.00	4 250.00	2 000.00	78 500.00
8. E4E-ES	26 125.00	7 000.00	4 750.00	4 400.00	20 500.00	7 000.00	70 775.00
9. E4E	26 125.00	21 750.00	21 000.00	21 000.00	18 000.00	27 000.00	96 875.00
10. E4E	27 025.00	22 000.00	24 075.00	24 025.00	18 250.00	22 000.00	99 325.00
11. E4E	27 000.00	26 750.00	21 425.00	27 025.00	4 775.00	22 400.00	109 400.00
12. E4E-ES	26 000.00	27 125.00	21 000.00	22 750.00	20 000.00	27 000.00	153 875.00
13. E4E-ES	22 000.00	2 000.00	2 775.00	2 000.00	18 000.00	18 000.00	40 775.00
Expenditure	276 125.00	222 700.00	200 000.00	200 000.00	621 750.00	200 750.00	1 000 000.00

Max / P

Max / WP

Project no. 101054872

Art 5.5. Grant Agreement

NO Budget flexibility

- Changes to the lump sum breakdown **always require an amendment**
- Budget transfers between partners and between work packages (WPs) are **not** possible without an amendment
- Transfers between WPs possible **only if**:
 - ▶ the WPs concerned are **not already completed**
 - the transfers are justified by the **technical implementation** of the action

7

Source: PPT EACEA: Kick off meeting for newly selected projects, July 13, 2022

Project no. 101054872

Payments and reports



- Continuous reporting – Art 21.1 Grant Agreement
- Technical and financial reports:
 - Internal 6 month reports to FEANI (technical + dissemination + request for payment)
 - Additional pre-financing report to EACEA: M 20
 - Final report to EACEA: M 36+2



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

Disbursement schedule

INTERNAL REPORT #	REPORTING PERIODS:	DEADLINE	DISBURSEMENTS	
I	1 September 2022 – 28 February 2023	15 March 2023	35%	40% of total funding
II	1 March 2023 – 31 August 2023	15 September 2023	40%	
III	1 September 2023 – 29 February 2024	15 March 2024	25%	
IV	1 March 2024 – 31 August 2024	15 September 2024	35%	40% of total funding
V	1 September 2024 – 28 February 2025	15 March 2025	40%	
VI	1 March 2025 – 31 August 2025	15 September 2025	25%	

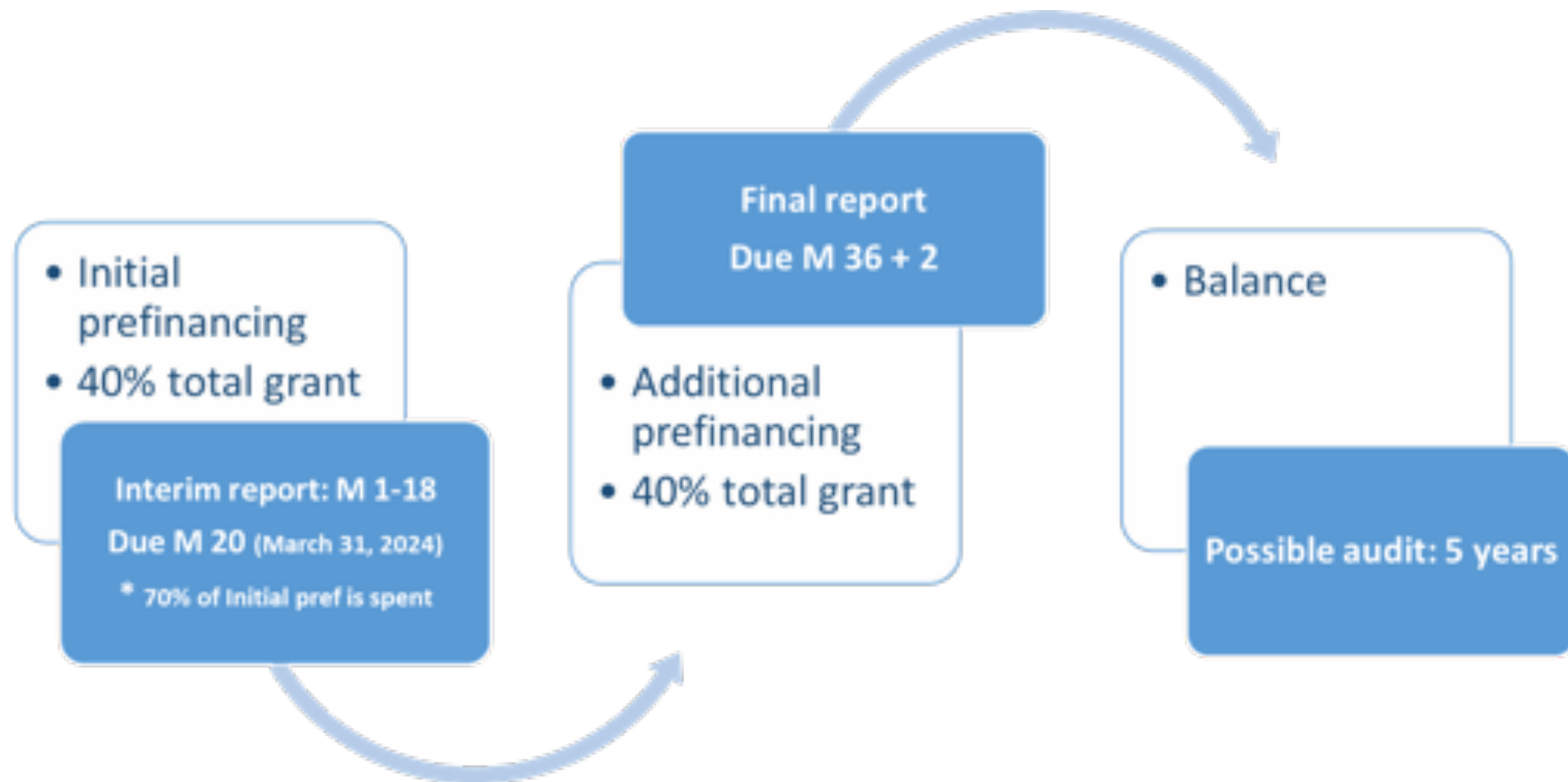
Project no. 101054872

Notes on reporting to EACEA

- The additional payments are not conditioned by the completion of the WPs, which will be checked at final report stage only
- The financial part of the additional pre financing report includes a *“statement on the use of the previous pre financing payment”*

Project no. 101054872

Pre-financing and reporting to EACEA



Project no. 101054872

Supporting documents

Art 20 G.A.

The beneficiaries must ... keep records and other supporting documents to prove the *proper implementation* of the action ... in line with the accepted standards in the respective field (if any); beneficiaries do not need to keep specific records on the actual costs incurred.

Note: FEANI asked the project officer for further clarifications in July. The PO confirmed that details on financial supporting documents need to be finalised within the Agency and will keep us informed

Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Aims and Objectives

Inform and raise awareness about project results, outcomes and benefits

Ensure effectiveness/sustainability of results within and beyond the project

Engage and involve stakeholders and target groups

Extend the impact of the project

Create the basis for further cooperation of the project consortium

Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Dissemination – An ongoing activity ...



Since the very beginning



At each project milestone



3 years of project and beyond...

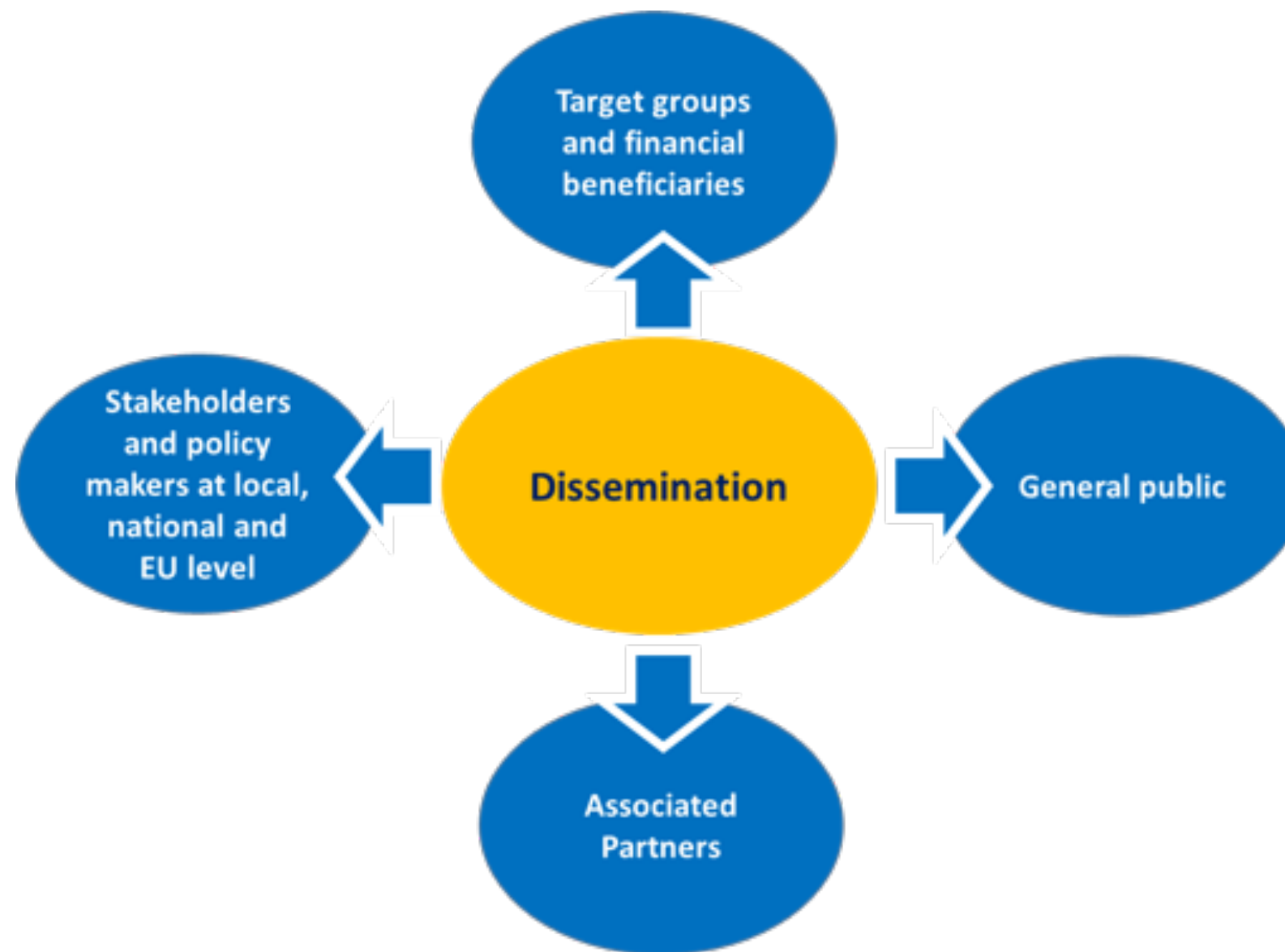
Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Dissemination – Content

- Project outputs' status and completion
- Project meetings
- Multiplier Events
- Project presentation at Info days
- Any response to project results that can be of interest for target groups/STKHs

Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Dissemination – Targets



Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / E4E Target groups involved in project implementation

		WP2: Skills strategy Engineering	WP3: Development of E4E Training	WP4: T&V	Diss. events
1	Engineers	Impact indicator: 3.000	/	700	/
2	HEIs / VET providers	Primary research 200 STKHs among target 2 and 3 Impact indicator: 200	Training development 80 through formal and operational networks Impact indicator 50 STKHs adopting the training (target 2 and 3)	/	100
3	Profession, Industry & Companies	Primary research 200 STKHs among target 2 and 3 Impact indicator: 1.000	Impact indicator 50 STKHs among target 2 and 3	/	500
4	Policy makers	Impact indicator: 2.000	/	/	125 EU PMs
5	Social actors	Impact indicator: 50	/	/	35

Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Means



Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Dissemination Events – Supporting Documents

1. Attendance list

- Name, date and place of the Event
- Name, email address and signature of participants
- Name of organisation
- Country

2. Detailed agenda of the event

3. Copy of documents used and/or distributed

4. Pictures



Coordinator to check formal requirements with Agency!

Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Other events to showcase E4E

- FEANI National Members Forum (2x/year)
- FEANI General Assembly (2x/year)
- Regional FEANI Meetings (2x/year)
- FEANI Working Groups on STEM and UN SDGs
- Engineers Europe Advisory Group Meeting (1x/year)

Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Press releases – Rotation

Press releases developed in 3 years	6
Press releases published in 3 years	78

Shared responsibility of partners (depending on role)

- The partner tasked with the development of the press release produces a general draft in English and sends it to the consortium;
- Partners translate, customize and post the PR on their website, social media channels and other relevant media outlet.

Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Press releases – A suggested schedule

#	Topic	Responsible Partner	When
1	Launch of the project and Kick-Off Meeting held	FEANI	September 2022
2	Skills Council established + Skills Strategy	FEANI	September 2023
3	Learning objectives identified	Universidade do Porto	February 2024
4	Skills passport developed	Universidade do Porto	August 2024
5	Test & Validation on going	Newport Group	April 2025
6	Guidelines to Mainstream and Uptake Training	Newport Group	August 2025



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / EU logo and disclaimer

EU Logo and Disclaimer must be visible in all publications



Co-funded by
the European Union

The European Commission support for the production of this publication does not constitute endorsement of the contents which reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

https://ec.europa.eu/regional_policy/en/information/logos_downloadcenter

Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Find you MEPs



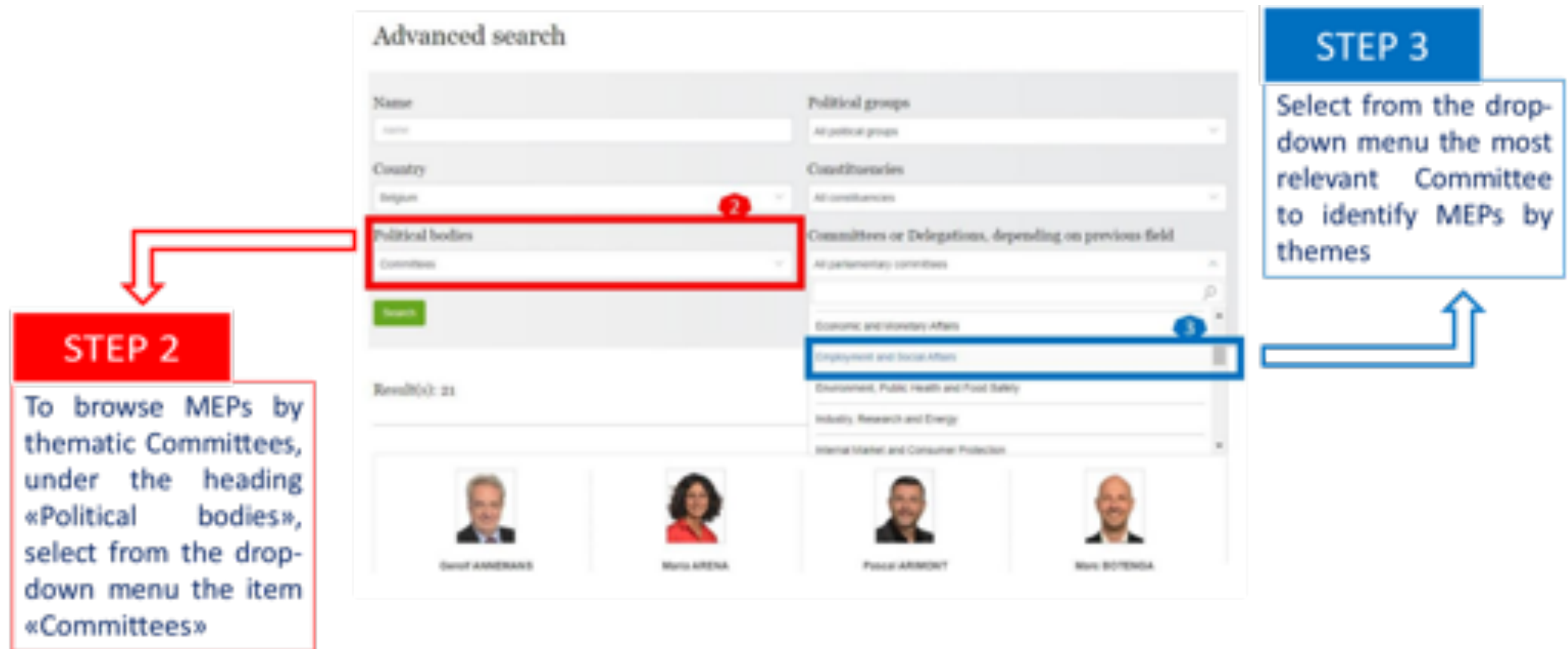
The screenshot shows the 'Members of the European Parliament' page. It includes a navigation bar with links like Home, Search, and Full list. Below the title, a paragraph states: 'The European Parliament is made up of 705 Members elected in the 27 Member States of the enlarged European Union. Since 1979 MEPs have been elected by direct universal suffrage for a five-year period.' The main content area features a map of Europe with country borders highlighted in red. To the right of the map is a search form titled 'Search for your MEP' with fields for 'Search' and 'Country', and a green 'Show list' button. The text '705 Members' is also visible.

STEP 1

Select your country from the map at the following url
www.europarl.europa.eu/meps/en/map.html

Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Find you MEPs



Project no. 101054872

Work Package 6 : Valorisation : Dissemination and Exploitation of E4E / Sustainability strategy

EFE Online Platform

to be maintained alive after project completion

E4E Curriculum

to be embedded in partners and STKHs training catalogue

E4E Skills Council

Sustainability of Council's activities and exploitation of project results will be assured by:

- An appropriate governance structure
- The use of the E4E methodology within the Council to monitor the evolution of the engineering profession
- The Cooperation between the Council and non EU parties (USA, India and China)





Project no. 101054872

Day II

Project no. 101054872

Work Package 2: Skills council and strategy

In WP2 partners will “formalise” the project into the “E4E Skills Council” to become the platform for multi-stakeholders’ participation to shape the global leadership of the EU engineering profession

Skills strategy to monitor the profession and put forward options and recommendations

Project no. 101054872

Work Package 2: Participatory approach: all partners

- representatives of profession and industry: represent the “demand side”, labour market dynamics, challenges and opportunities for the profession
- educational partners represent the “supply side” of education (HE and VET) for skilling, upskilling, reskilling
- regulatory partner ANECA provides guidance on transparency for qualifications and skills
(EQF, Skills Panorama, ESCO, EURES, etc)

Project no. 101054872

Work Package 2: Tasks

Start: M1 Sep. 2022

End: M36 Aug. 2025

T2.1 Define structure and governance +
Establish Skills Council & Working Groups

T2.2 Methodology to assess, anticipate, monitor profession

T2.3 Identify trends, challenges & opportunities

T2.4 E4E Skills Strategy

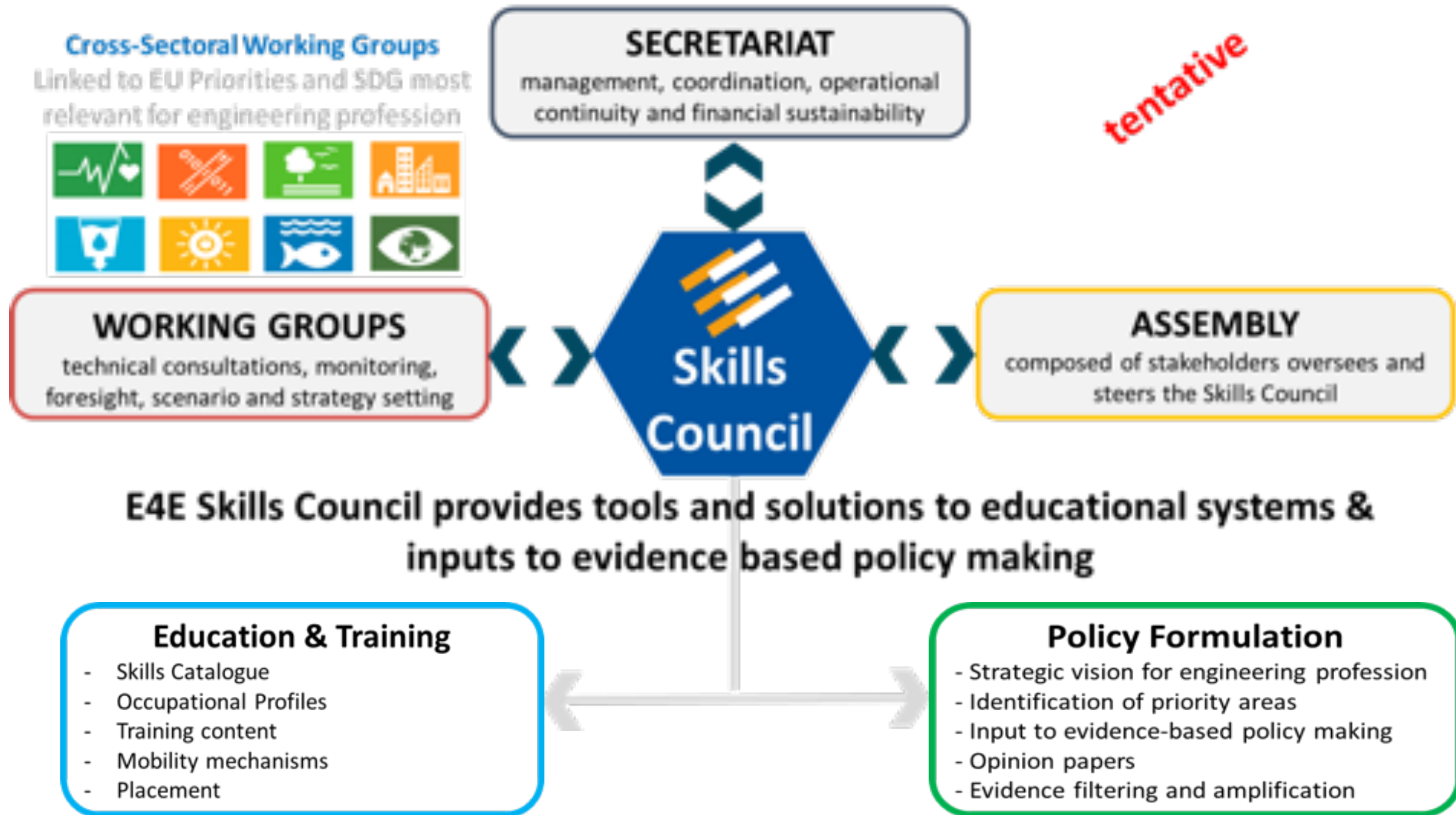
Project no. 101054872

Work Package 2: Deliverables

D2.1 Skills Council structure and governance	M11		
D2.2 E4E common methodology	M9		
D2.3 Results of primary & secondary research	M11	M23	M35
D2.4 E4E Skills Strategy	M12	M24	M36

• Internal deliverable that feeds into D2.4 Skill Strategy

Project no. 101054872



Project no. 101054872

Work Package 2: T2.1 define structure & establish Council

1. Operational guidelines for Secretariat, Assembly, Council
2. Internal procedures: voting, reporting requirements, tools, etc.
3. Profile participants: roles, responsibilities, functions in Assembly & Council
4. Supporting documents: Code of Conduct, MoU for adjoining members, internal reporting mechanisms and tools, etc
5. Visibility and outreach campaign
6. Any other document, guidelines, tools

Project no. 101054872

Work Package 2: T2.1 timeline

Starts in M1

Ends in M11

Lasts 11 months

Once defined the above 6 items, FEANI and partners establish the E4E Skills Council and operate it by hosting the first meeting of the Council and establishing the Working Groups

 E4E Work Plan		2022				2023								
		S	O	N	D	J	F	M	A	M	J	J	A	S
		1	2	3	4	5	6	7	8	9	10	11	12	13
WP2	EU Engineering Profession: Skills Council, Skills Monitoring & Anticipation Tools													
T2.1	Define structure & governance; establish Skills Council & Working Groups													

Project no. 101054872

Work Package 2: T2.1 next step 1: brainstorm

Partners brainstorm on Skills Council:

- What could / should look like
- Who should be there (type, country, size, etc.)
- What is it tasked with
- How does it work
- How many Working Groups (topic, shape, composition, etc.)
- Which tools / documents / mechanisms should have
- ...

Project no. 101054872

Work Package 2: T2.1 next step 2: suggest

Partners provide inputs, based on experiences and examples

- Do you already take part in Working Groups with policy makers, industry, other educational orgs
- What works and what does not
- Ambition: the ideal Skill Council
- Reality: how can we make it work in real life

Project no. 101054872

Work Package 2: T2.1 next step 3: FEANI consolidates

FEANI consolidates inputs from partners

FEANI develops a draft model of the Skill Council

Partners comment and suggest improvements

FEANI finalises and establishes the Council

Partners convene for the first meeting in M11 July 2023

Project no. 101054872

Work Package 2: T2.2 develop the methodology

The purpose is to assess major trends affecting the professions, dynamic landscape of labour market, evolving nature of jobs, occupations and skills needs.

The methodology structured on 3 pillars:

1. Assess current situation
2. Anticipate future needs
3. Yearly monitor to gauge the evolutions

Project no. 101054872

Work Package 2: T2.2 joint effort

All partners provide their expertise and knowledge to develop the methodology: partners represent the two sides of the profession

- Do you monitor already
- What should be measured / monitored
- Compatibility of methodology and comparability of results

Project no. 101054872

Work Package 2: T2.2 process and timeline

- Brainstorm
- Input provision
- FEANI consolidates, circulates, finalises

 <div>E4E Work Plan</div>		2022				2023							
		S	O	N	D	J	F	M	A	M	J	J	A
		1	2	3	4	5	6	7	8	9	10	11	12
T2.2	Develop common methodology to assess, anticipate, monitor profession												

Project no. 101054872

Work Package 2: T2.3 map the engineering profession

Partners run the methodology to identify challenges and opportunities for the EU engineering profession, skills and competences dynamics taking into account :

1. Global dynamics
2. Societal changes
3. Economic and industry trends
4. Labour market dynamics
5. Technology evolutions

Project no. 101054872

Work Package 2: T2.3 process

Partners use the methodology with a combination of:

Primary Research: ask your members, networks, peers, etc. via focus groups and/or interviews and/or questionnaire-based surveys.

Outreach of at least 200 respondents

Secondary Research: desk research of academic, industry and policy literature, analysis, reports, papers, etc.

Produce at least 10 fiches

Project no. 101054872

Work Package 2: T2.3 producing the 10 fiches

A fiche is a one-page document that presents examples and practices of concrete policies and initiatives at regional and national levels addressing:

- digital/green/resilience/entrepreneurship
- skills shortages/mismatches
- brokering multi-stakeholder partnership models


FEANI produces a “template” Fiche (as part of the methodology) and each partner produces one fiche for their country / sector / field

Project no. 101054872

Work Package 2: T2.3 timeline: 3 rounds

Identify trends, challenges and opportunities for skills development of engineering profession

ROUND 1	Starts in M8	Ends in M11	Lasts 4 Months
ROUND 2	Starts in M21	Ends in M23	Lasts 3 Months
ROUND 3	Start in M33	Ends in M35	Lasts 3 Months

	E4E Work Plan	2022	2023												2024												2025											
		S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
T2.3 Identification of trends, challenges and opportunities for profession																																						

Project no. 101054872

Work Package 2: T2.4 skill strategy

- a) Identify digital/green/resilience/entrepreneurial skills demand for engineers
- b) Profile skills supply and existing qualification frameworks
- c) Pinpoint skill mismatches

Project no. 101054872

Work Package 2: T2.4 skill strategy

Based on results of T2.3, partners develop the Skills Strategy for the engineering profession in EU


Also collating the results of the consultation within the Skills Council and relevant Working Groups

Project no. 101054872

Work Package 2: T2.4 timeline: 3 rounds

Identify trends, challenges and opportunities for skills development of engineering profession

ROUND 1	Starts in M12	Ends in M12	Lasts 2 Months
ROUND 2	Starts in M23	Ends in M24	Lasts 2 Months
ROUND 3	Start in M35	Ends in M36	Lasts 2 Months

 E4E Work Plan		2024												2025												
		A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
		12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
T2.4	Anticipating Skill Dynamics for Engineering Profession: E4E Skills Strategy																									

Project no. 101054872

Work Package 2: WP2 next steps

Today we split participants into 3 groups

Brainstorm on Skills Council composition, structure, governance, Working Groups, etc

Each group reports on their initial thoughts (10 mins?)

FEANI facilitates and collects results

Project no. 101054872

Work Package 2: WP2 next steps: 3 groups

Groups to brainstorm on the structure, governance, mechanisms and procedures for the Skills Council

Group A		Group B		Group C	
P2	FEUP	P3	TU Dublin	P4	KUL
P5	AECEF	P6	Newport	P7	IVEPE
P8	ANECA	P9	VDI	P10	EI
P12	REHVA	P11	OE	P13	ECEC

Project no. 101054872

Work Package 2: WP2 guiding questions for brainstorming

1) Structure of the Council

Composition, working groups, eligibility/selection criteria, etc.

2) Governance

Secretariat, admission of new members, Code of Conduct, MoU, etc.

3) Functioning

Objectives, number of meetings

4) Other aspects

Project no. 101054872

Work Package 2: T2.1 define structure & establish Council

1. Operational guidelines for Secretariat, Assembly, Council
2. Internal procedures: voting, reporting requirements, tools, etc.
3. Profile participants: roles, responsibilities, functions in Assembly & Council
4. Supporting documents: Code of Conduct, MoU for adjoining members, internal reporting mechanisms and tools, etc
5. Visibility and outreach campaign
6. Any other document, guidelines, tools

Project no. 101054872

Work Package 2: Next Steps

1. Partners send to FEANI via email by Oct. 4 additional inputs, thoughts and contributions on the Skills Council
2. FEANI consolidates results from the brainstorming and consultation rounds and circulates to partners (by end-October) ideas and options for the Skills Council
3. Partners comment and provide feedback by November 7
4. FEANI works on the Skills Council Concept, submits in mid-March to partners for approval

Project no. 101054872

Work Package 2: Topics for input

1. How many working groups should be there?
2. Which topics/themes should be covered?
3. Why are they a priority?



Project no. 101054872

Coffee break



Project no. 101054872



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Split-up groups



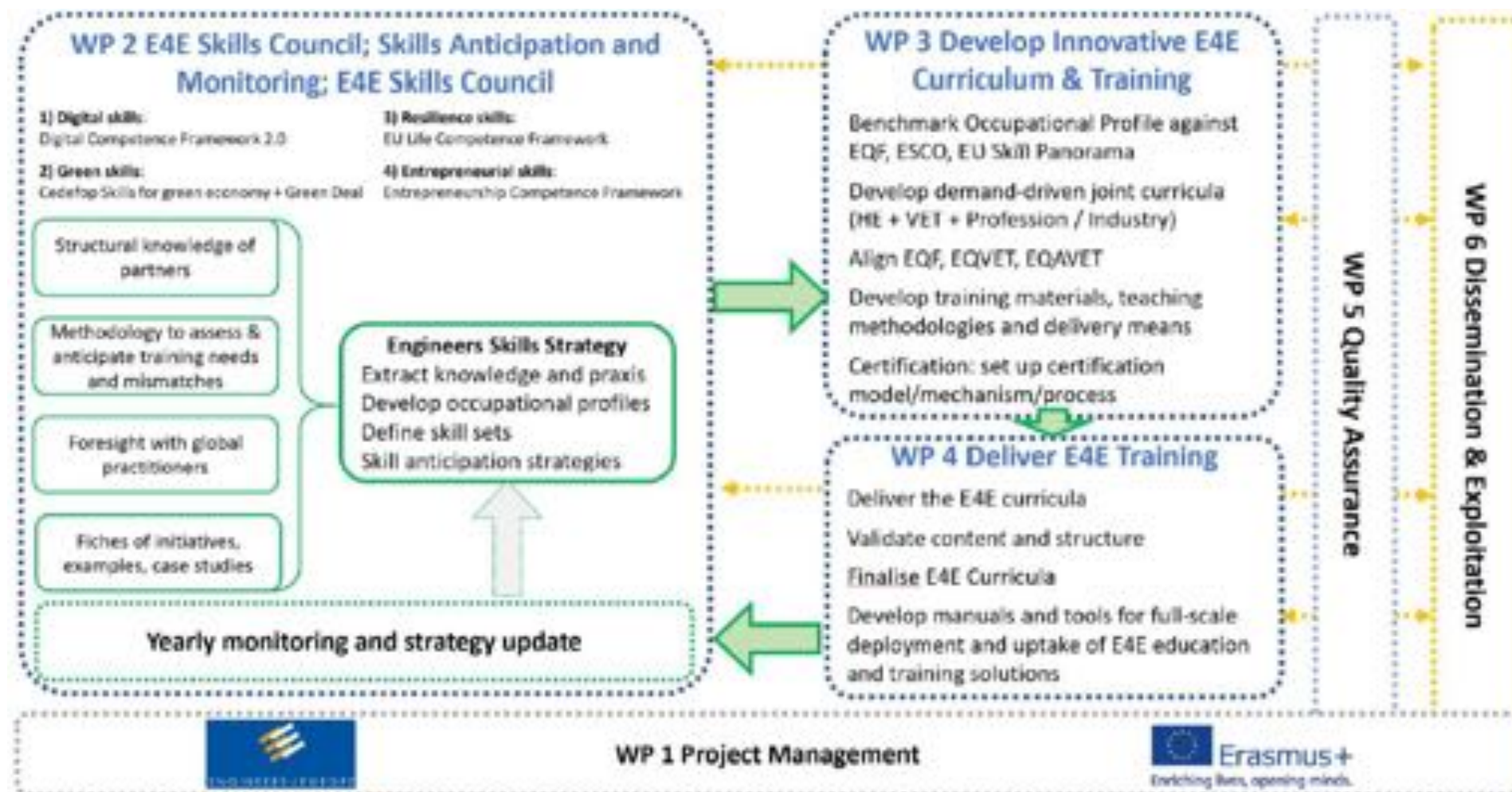
Project no. 101054872

Presentation from each group and WP2 wrap-up

Each group will deliver a short presentation on : key features, pros and cons of different options; options moving forward for the establishment of the Skills Council; remaining queries and doubts.

Project no. 101054872

Work Package 3: E4E Training Suite - Develop Innovative Training for the Engineering



FEUP

Project no. 101054872

Work Package 3: Objectives

E4E Training Suite - Develop Innovative Training for the Engineering Profession

Duration: M13 – M24

Lead Beneficiary: P2 FEUP

SO4: Adapt HE and VET provision to skills needs by designing and delivering transnational sector-wide curricula integrating work-based learning
Based on 4 transversal skills dimensions:

SO5: Boost innovation by jointly developing and delivering new learning and teaching methods, also experimenting with micro-credentials

SO7: Develop new teaching methods and learning tools that incorporate transversal skills learning and application throughout HE and VET programmes developed in cooperation with enterprises and aimed at strengthening employability, creativity and new professional pathways

FEUP

Project no. 101054872

Work Package 3: Objectives

E4E Training Suite - Develop Innovative Training for the Engineering Profession

Duration: M13 – M24

Lead Beneficiary: P2 FEUP



FEUP

Project no. 101054872

Work Package 3: Methodology

- E4E curriculum and training based on a “**modular approach**”
- At least **4 courses**, each with **at least 3 modules** (EQF levels from 4 to 6 ... 7)
- **Available online** without access restrictions.
- **Blended-learning modalities** using OERs (open educational resources)
- **Microcredentials**, operationalising the “European Approach to Micro-Credentials”
- **Engaging materials and delivery means**, including **short animations** and **gamification**
- **Self-Assessment Tool (E4E SAT)** for users to gauge their level of readiness, understanding and competence of transversal skills

FEUP

Project no. 101054872

Work Package 3: Tasks, Milestones and Deliverables

Tasks	Month	Leader
T3.1 - Define Learning Objectives and Learning Outcomes based on first round of mapping and benchmarked against the relevant EC competence frameworks and reference tools	13 - 18	FEUP
T3.2 - Develop the E4E curriculum (content/structure/means) including trainers' manual	16 - 22	FEUP
T3.3 - Develop "E4E Skills Passport" (alignment with EQF, Europass, ESCO, EURES)	21 - 24	IVEPE

Milestones	Month
MS7 - Availability of E4E curriculum and training	22
MS8 - E4E Skills Passport	24

Deliverables	Month
D3.1 - E4E Learning Objectives and Learning Outcomes based on occupational profiles and employability paths	18
D3.2 - E4E Curriculum and Training	22
D3.3 - E4E Skills Passport	24

FEUP

Project no. 101054872

Work Package 3: Brainstorming

- Flexibility to change some of the foreseen modules?
- Readily available courses/modules among partners
- Hours per course / module
- ECTS credits awarded ?
- Course / modules learning assessment ?
- E4E curriculum and training directly available to learners ?

FEUP

Project no. 101054872

Work Package 4: Pilot Delivery: Test & Validation in real operational environment and Fine-Tuning of the E4E Curriculum and Training

Introduction into the Work Package 4

Pilot Delivery: Test & Validation in real operational environment and Fine-Tuning of E4E Curriculum and Training

*Engineers for Europe (E4E) Project Kick-Off Meeting
22-23 September 2022*

Newport Group, SK

NEWPORT GROUP

Project no. 101054872

Work Package 4: WP Overview

WP Duration	M21 – M36 (16 months)
WP Leadpartner	Newport Group (P6)
Estimated Budget	305.017,00 EUR
WP Objectives	<p>Testing and Validation of E4E Curriculum and Training in real conditions</p> <p>Collection of user's feedback at trainer and learners level</p> <p>Finalisation and fine-tuning of E4E Curricula according to identified real-life needs in order to provide fo user-friendly product</p> <p>Focus on relevance of whole structure of E4E Training slutions (content, duration, depth, delivery means, etc.) as well as relevance across WPs (Occupational profiles and Competence profiles of WP2)</p> <p>Involement of at least 700 users (trainers and learners)</p>

NEWPORT GROUP

Project no. 101054872

Work Package 4: WP Tasks

T4.1	M21 – M23	Development of Test & Validation Plan
T4.2	M24 – M36	Delivery of the E4E Curriculum and Training and Collect users' feedback / inputs and collate them in Validation Report
T4.3	M32 – M36	Finalisation of the E4E Curriculum and Training based on users' feedback
T4.4	M32 – M36	Development of the Guidelines for Mainstreaming and Uptake of E4E Curriculum and Training

NEWPORT GROUP

Project no. 101054872

Work Package 4: WP Milestones

MS9	M23	Validation Plan
MS10	M32	Validation Report
MS11	M36	Final E4E Curriculum - validated and fine-tuned version

NEWPORT GROUP

Project no. 101054872

Work Package 4: WP Deliverables

D4.1	Validation Plan
D4.2	Validation Report
D4.3	Final E4E Curriculum and Training validated and fine-tuned
D4.4	Guidelines for Mainstreaming and Uptake of E4E Curriculum and Training

NEWPORT GROUP



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

Work Package 4: WP Deliverables



NEWPORT GROUP



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

Work Package 4: WP Deliverables



NEWPORT GROUP

Project no. 101054872

Work Package 5: Impact : Monitoring & Evaluation and Quality Assurance

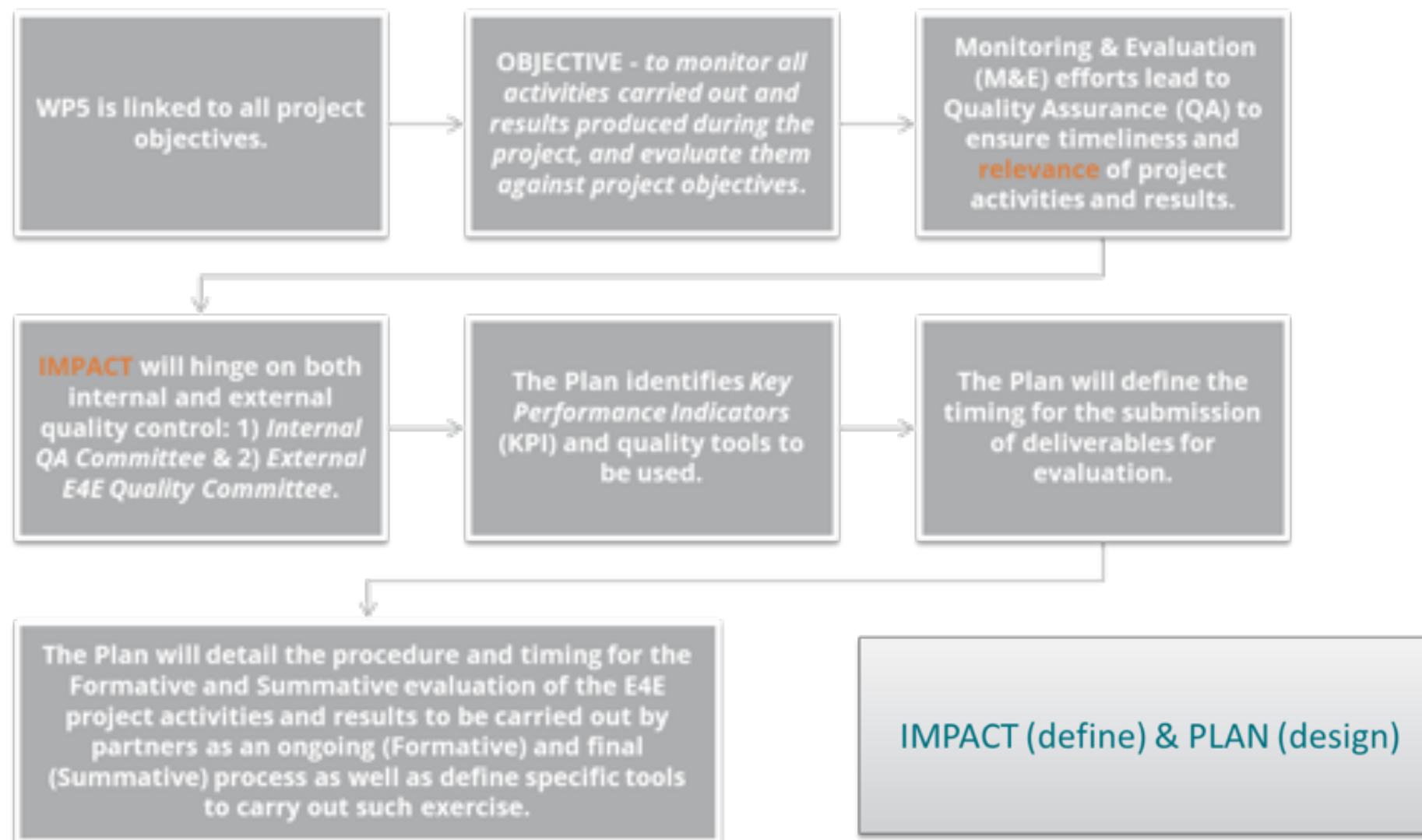
WP5 PRESENTATION

- Objectives.
- E4E Q Cycle
- Deliverables
- Team
- Timeline
- Plan M&E
- Workflow
- Risk management

ANECA

Project no. 101054872

Work Package 5: Objectives



ANECA

Project no. 101054872

Work Package 5: E4E Q-CYCLE Process



ANCA

Project no. 101054872

Work Package 5: E4E Q-CYCLE Process

Partners will constantly monitor the project with precise oversight of implementation of TASKS, PRODUCTION OF DELIVERABLES AND OUTPUTS AND THEIR IMPACT to ensure the achievement of project objectives.

At proposal preparation the following *Key Performance Indicators* have been detailed and pinpointed to qualitatively and quantitatively assess the performance of the project against expected outcome, impact and objectives:

Table 4: Key Performance Indicators

#	Indicator	Quantification
1	Skills Council Established	1
2	Skills Council Meetings during Implementation	3
3	Stakeholders participating in Observatory & Skills Council	150
4	Engineering Profession Mapping and Monitoring Methodology	1
5	Yearly Monitoring Reports of Engineering Profession	3
6	Skills Strategy	3
7	Revised Engineering Profession Occupational Profiles	3
8	E4E Training and Curriculum	1
9	Learners involved in validation	700
10	Learners using the OER Platform	1,250
11	Educational Providers and Professional Bodies adapt E4E training	50

Project no. 101054872

Work Package 5: E4E Q-CYCLE Process

- E4E partner has consolidated and proven experience in M&E with specific focus on "IMPACT EVALUATION".
- In E4E, the evaluation for project results and objectives will rely on two types of evaluation:
 - *FORMATIVE EVALUATION* as a continuous activity throughout the entire lifetime of the project. Formative Evaluation is an ongoing process to monitor project performance and smooth implementation. Formative evaluation will ALLOW PARTNERS TO IDENTIFY POTENTIAL ISSUES AND DEFINE MITIGATION MEASURES.
 - *SUMMATIVE EVALUATION* performed at the end of the project to IDENTIFY LESSONS LEARNED AND BEST PRACTICES for overall implementation and to benchmark final results and deliverables against stated objectives.

ANECA

Project no. 101054872

Work Package 5: E4E Q-CYCLE Process

Number	Observatory Notes	Relationship
1	Snapshot of international youth mobility	Mobility
2	Career outcomes for young people following an international mobility experience	Mobility
3	The democratization of Erasmus+	Democratization Erasmus +
4	Development of employability and civic skills during an Erasmus+ mobility	Mobility
5	How Erasmus Mundus impacts the internationalization of French higher education establishments	Erasmus Mundus in the French Higher Education Area
6	European cooperation in education and training: added value and impact	Cooperation
7	Impact evaluation of Erasmus + mobility	Mobility
8	Stays abroad for learning or professional purposes and the professional integration of secondary school leavers	Stays - Mobility - Secondary
9	Student and apprentice mobility under the Erasmus+ program	Student mobility
10	Erasmus +: Towards greater democratisation and inclusion?	Democratization Erasmus + - Inclusion
11	work-study programs in Erasmus +, an initial inventory	Erasmus +
12	The benefits of Erasmus + mobility for learners, staff and organisations	Mobility
13	Facilitating mobility among vulnerable populations	Mobility - Inclusion
14	European and international mobility in the regions	Mobility
15	Company participation in the Erasmus+ programme: motivations and contributions	Company
16	The effects of school change projects and eTwinning	https://www.etwinning.net/es/pub/index.htm Schools in Europe
17	Work-study in Erasmus+	Work - Study
18	Erasmus+ mobility for learners with disabilities	Mobility - Inclusion
19	Analysis of the benefits of Erasmus+ mobility for learners, staff and organizations	Mobility
20		

LES NOTES DE L'OBSERVATOIRE



ANCA

Project no. 101054872

Work Package 5: E4E Q-CYCLE Process

SOME MISSING ELEMENTS

1, 2, 4, 7, 8, 9, 12, 13, 14, 18 Y 19	MOBILITY DEMOCRATIZATION
3 y 10	
10, 13 y 18	MOBILITY - INCLUSION
15 y 17	COMPANY - BINOMY: WORK / STUDY
5, 6, 11 y 16	OTHERS: COOPERATION, eTwinning, ERASMUS +, ...

European Added Value, Qualitative and Quantitative (both), DEI, SDGs, Employability & Entrepreneurship, Digital and Green Transition, All life Competencies (Resilience), Citizen Science, Open & Access Science, Engineering communication engagement with citizens....

ALL ARE IMPACT

IS NOT THE ECTS BUT THE IMPACT

What is an European engineer??

ANECA

Project no. 101054872

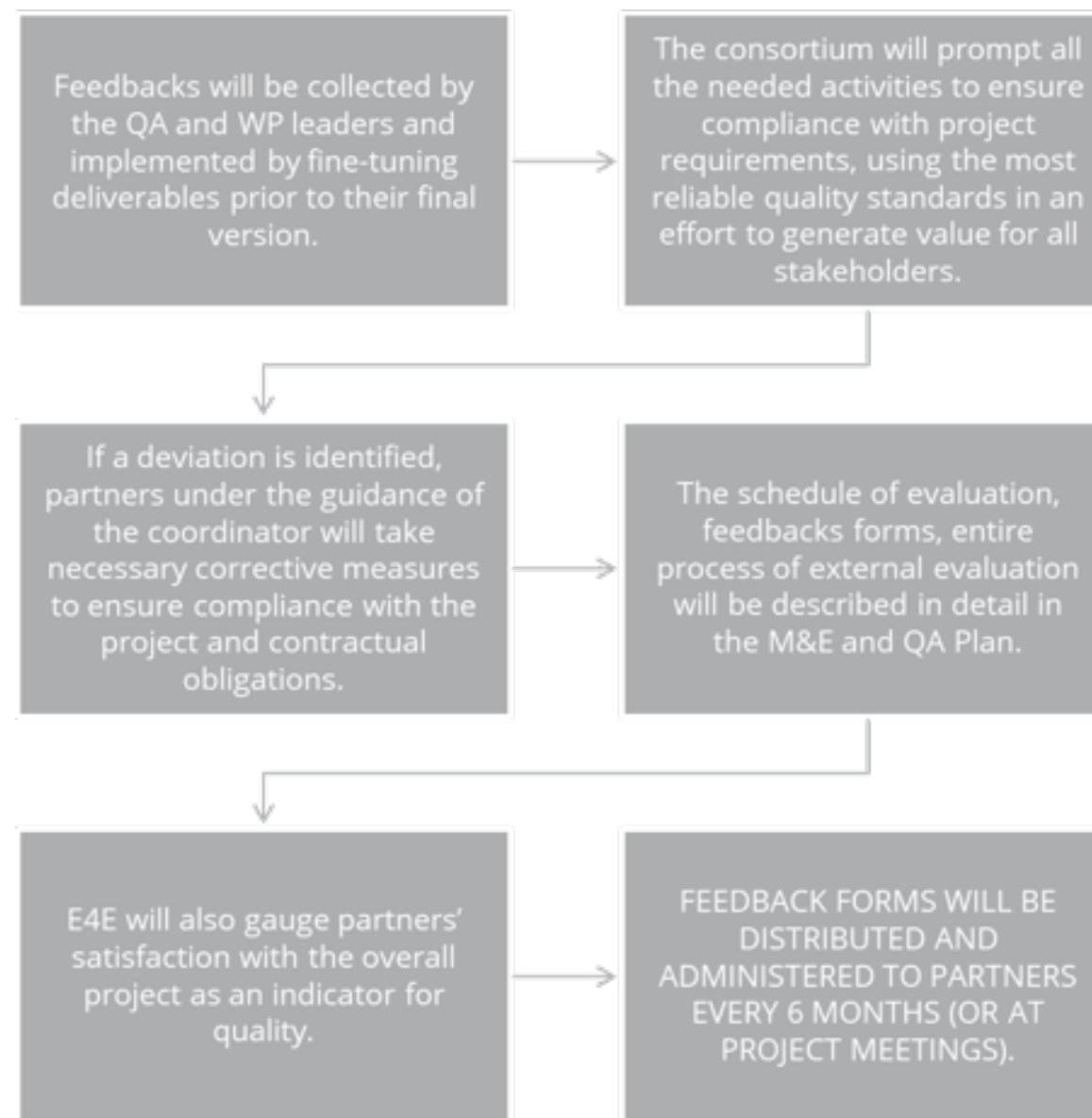
Work Package 5: E4E Q-CYCLE Process

- Diversity in the consortium empowers E4E to enact quality control measures from the perspective of industry, educational providers and regulatory bodies.
 - **LABOUR MARKET RELEVANCE:** the industry and profession representatives will constantly measure the quality of project results from the point of view of the prospective employers.
 - **EDUCATIONAL AND TRAINING ACCURACY:** the educational partners will be able to provide pedagogical accuracy and quality from the perspective of HEI and VET in a lifelong learning setting.
 - **OCCUPATIONAL PERSPECTIVE:** the partners representing career guidance, recognition and certification of competences will provide their perspective to the quality of project results.

ANECA

Project no. 101054872

Work Package 5: E4E Q-CYCLE Process



ANECA

Project no. 101054872

Work Package 5: E4E Q-CYCLE Process

D5.1 - Impact Plan
for M&E and QA

D5.2 - Impact
Assessment

D5.3 - Impact
Report on M&E and
QA (DATA — data
sets, microdata, etc;

ANECA

Project no. 101054872

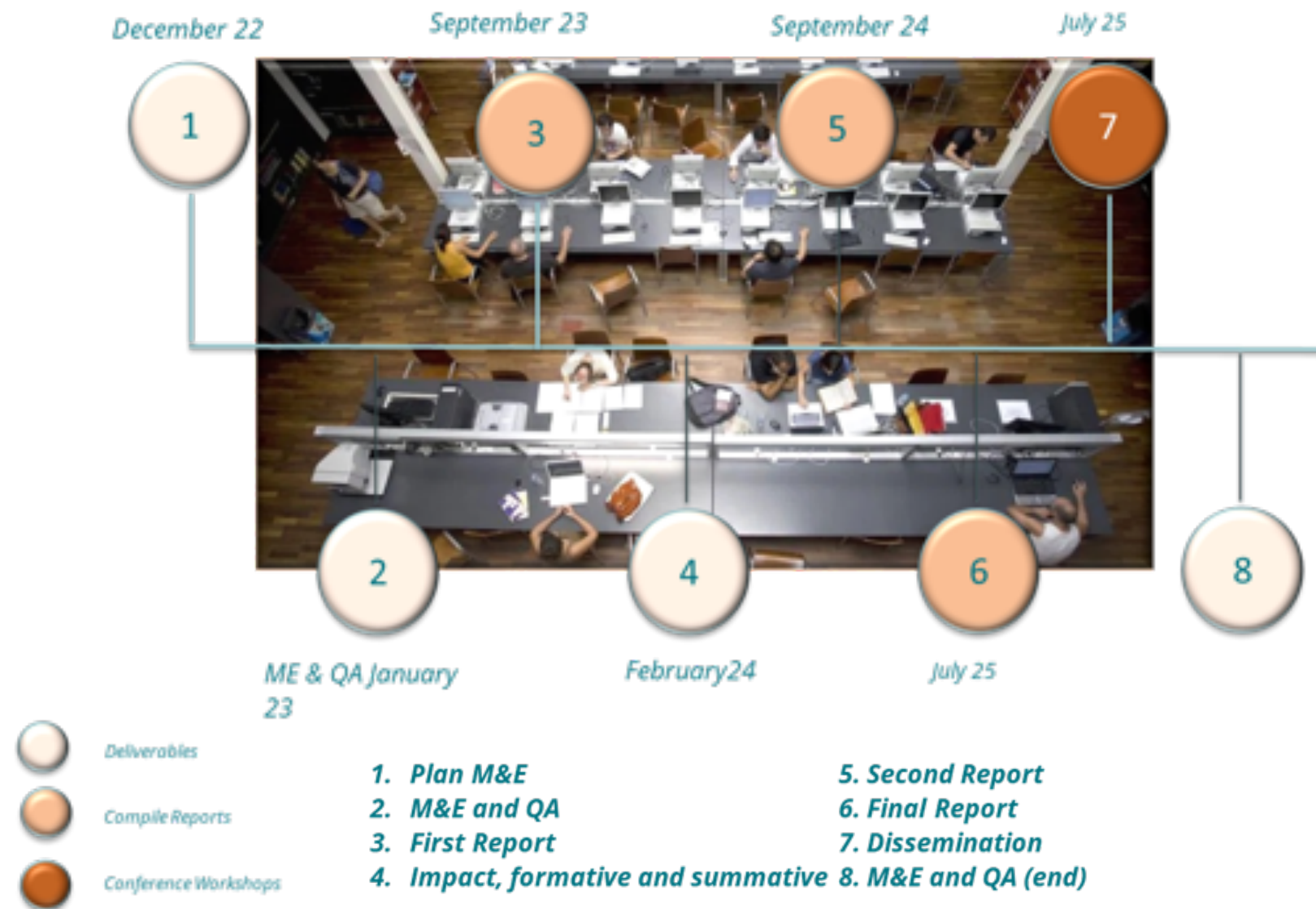
Work Package 5: E4E Q-CYCLE Process



ANCA

Project no. 101054872

Work Package 5: Timeline



ANCA

Project no. 101054872

Work Package 5: Workflow

1ST BRAINSTORMING

- 9 / 19 September.

Recruitment, team building, sharing ideas and concepts out of the box ...

INTERNAL PRIORITIES

- Dynamic internal communication plan.
- Focus on collaborative tools inside / outside WP5
- Target Plan M&E December 2022
- Communication Plan. E4E Dissemination. Audience.
- Alliance & Networks (Academia and society)
- The Journey Mindset

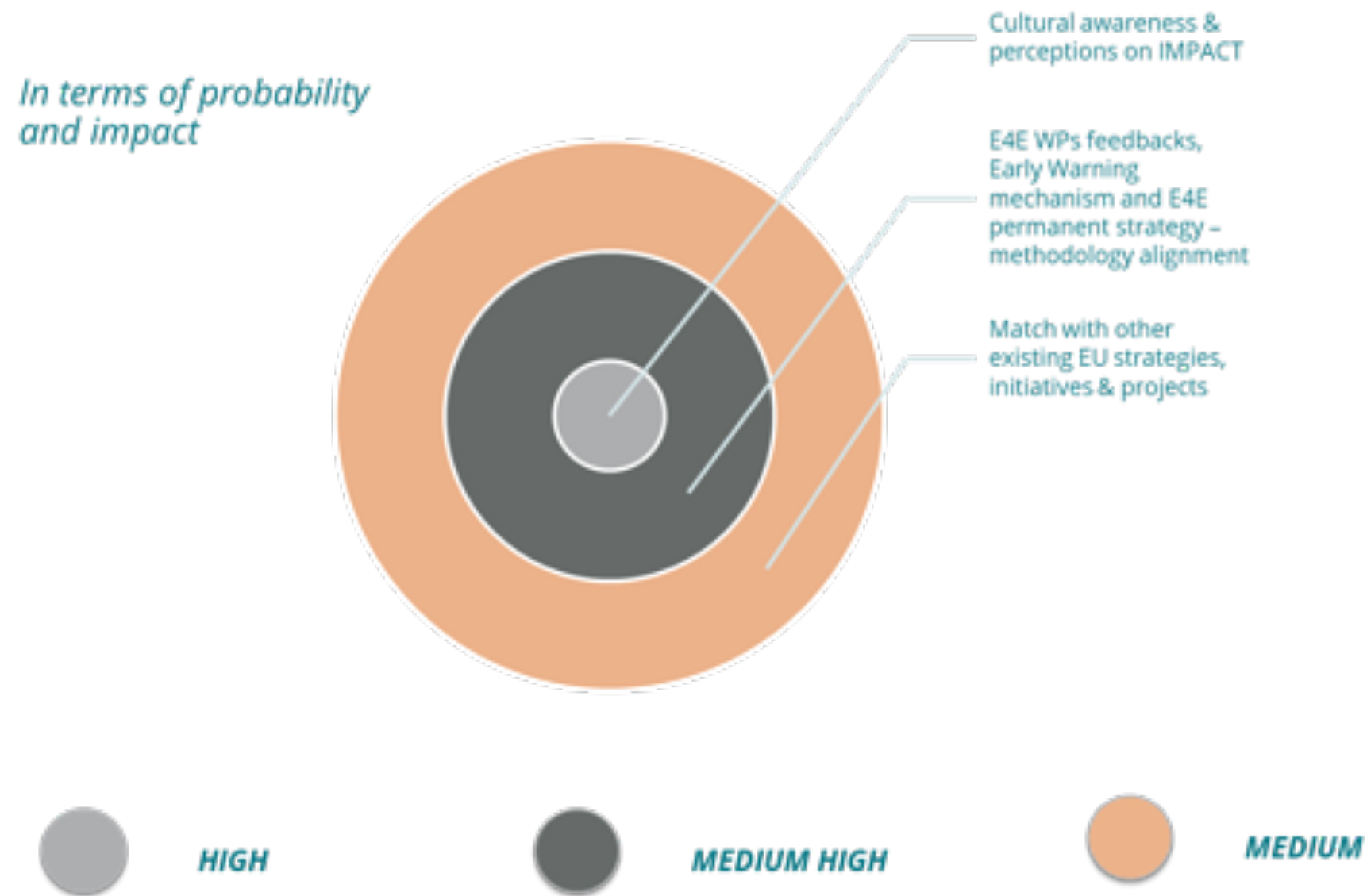
INTEGRATION WITH REST OF WP PRIORITIES

- Project Platform
- E4E Team Cohesion
- E4E Meeting in Spain (Jul 23)

ANECA

Project no. 101054872

Work Package 5: Risk Management



ANECA



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



Overall impact (both internal and external) will be measured using the "notes" of the "observatoire National de l'Impact Erasmus+" developed by the French National Agency. These scores are based on a methodology widely used in the Erasmus+ area and are based on 20 key indicators.

The Journal of International Mobility. Moving for Education, Training and Research, first published in 2013 by Agence Erasmus+ France / Education & Training, brings together scientific contributions that relate to all dimensions of international mobility of people in the context of education and training in Europe and worldwide, both in the higher education and general education sector and in initial and continuing vocational training.

(<https://agence.erasmusplus.fr/observatoire-national-de-impact-erasmus/#:~:text=L'Observatoire%20national%20de%20l,projets%20et%20du%20programme%20Erasmus%20%20%2B>)

ANECA



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872



European
Engineering Learning Innovation
& Science Alliance

EELISA aims to transform European higher education while strengthening links between engineering and society by:

- ☐ Re-inventing the “European engineer”.
- ☐ Democratizing engineering education.
- ☐ Evolving interdisciplinary engineering learning.
- ☐ Encouraging knowledge, skills and technology transfer.
- ☐ Fostering inclusiveness and diversity.
- ☐ Making a real impact on society following the 2030 Agenda for Sustainable Development and the SDGs.

(<https://eelisa.eu/>)

ANECA

Project no. 101054872



ANCA

Project no. 101054872

A MICRO-CREDENTIAL is the record of the learning outcomes that a learner has acquired following a small volume of learning. These learning outcomes have been assessed against transparent and clearly defined standards.

- Courses leading to micro-credentials are designed to provide the learner with specific knowledge, skills and competences that respond to societal, personal, cultural or labour market needs.
- Micro-credentials are owned by the learner, can be shared and are portable. They may be standalone or combined into larger credentials.
- They are underpinned by quality assurance following agreed standards in the relevant sector or area of activity.

(<https://education.ec.europa.eu/education-levels/higher-education/micro-credentials>)

ANECA



Project no. 101054872



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Parallel sessions

Project no. 101054872

Parallel sessions I

Continuous reporting

- Art 21.1 Grant Agreement



SyGMA platform for project reporting:

- Lists all deadlines of the project
- Consortium (Coordinator) **must** upload Deliverables according to deadlines
- A missing deadline produces a **red flag** and requires the intervention of the Project Officer

Project no. 101054872

Parallel sessions I – Sygma

SyGMA - System for Grant Management - Personal - Microsoft Edge

<https://ec.europa.eu/research/participants/grants-app/reporting/CLV-101054872>

101054872 (E4E) ERASMUS-L3

Call: ERASMUS-EDU-2021-P1-ALL-ENH3

Topic: ERASMUS-EDU-2021-P1-ALL-ENH3-EDU-IT

Project Continuous Report

Project Summary Deliverables Milestones Critical Risks Dissemination Activities Communication Activities Events and Trainings Financial support for 3rd parties

Milestones

Milestone #	Milestone Name	Work Package No	Lead Beneficiary	Means of R	Delivery Date	Delivery Date (actual)	Delivered	Comments
1	Project Implementation	WP1	FEARL	Plan deliv	30 Nov 2022		<input type="checkbox"/>	
2	Interim Project Rep	WP1	FEARL	Interim r	30 Sep 2023		<input type="checkbox"/>	
3	Final Project Report	WP1	FEARL	Final rep	31 Aug 2025		<input type="checkbox"/>	
4	E4E Skill Assessment	WP2	FEARL	The Meth	31 May 2023		<input type="checkbox"/>	
5	E4E Skill Council	WP2	FEARL	The Skill	31 Jul 2023		<input type="checkbox"/>	
6	European Engineer	WP2	FEARL	The Skill	30 Sep 2023		<input type="checkbox"/>	
7	E4E Curriculum dev	WP3	UPORTO	The Skills	30 Jun 2024		<input type="checkbox"/>	
8	E4E Skills Passport	WP3	UPORTO	The Skills	31 Aug 2024		<input type="checkbox"/>	
9	Validation Plan	WP4	Newport Group	Internal v	31 Jul 2024		<input type="checkbox"/>	
10	Validation Report	WP4	Newport Group	All report	30 Apr 2025		<input type="checkbox"/>	

Project no. 101054872

Parallel sessions I – Delays

- Consortium can ask for a deadline to be postponed
 - If it has not expired
 - If this does not affect the overall structure of the project
- Request to the Project Officer through the Platform

Project no. 101054872

Parallel sessions I – Role of WP Leaders

- WP Leaders are responsible for their own WP
- They coordinate the contributions of all partners, collect material produced, develop draft and final versions of Deliverables
- They submit the Deliverables to FEANI - Project Coordinator
- Only the Coordinator can upload the Deliverables on the Platform

Project no. 101054872

Parallel sessions I – Procedure Agreed

- One month prior to each deadline FEANI sends an alert to WP Leader asking for update on the state of the Deliverable
- Deliverables must be submitted to FEANI at least 10 working days before the deadline
- If a delay occurs, WP Leaders must inform FEANI immediately



Project no. 101054872

Next steps on Management and Q&A



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

Project no. 101054872

Advancing Implementation, next steps and Action & Decision List



Project no. 101054872



Erasmus+

This project is funded by the European Union.



ENGINEERS 4 EUROPE

AOB and closure of the meeting



Project no. 101054872

Thank you!