



EE4M

Partnership for Excellence – Centres of Vocational Excellence Projects selected for funding under the ERASMUS+ 2022 call

The **Engineering Excellence for the Mobility Value Chain** (EE4M) project addresses the increasing need for training, re-, and upskilling of engineers in the mobility value chain to adapt to the recent developments of Industry 4.0 / Industry 5.0 (smart operations management) and sustainability (sustainable operations management). EE4M focuses on the professional development of smart and sustainability competences of engineers in the mobility value chain by offering innovative Vocational Education and Training (VET) micro-credential modules supported by a transnational Centre of Vocational Excellence (CoVE).

Main objectives

- To realign the vocational education and training for engineers in the entire mobility value chain – from raw materials to recycling – by incorporating recent developments in the areas of digitalisation and sustainability.
- To support the long-term competitiveness and employability of the European engineering sector by refocusing education and training on trends like changing consumer behaviour, disruptive technologies, decarbonisation, and hyperlocal mobility.
- To provide micro-credentials as a flexible way of addressing continuous education and training needs.

Main deliverables

- Transparent and empirical-based investigation of future educational needs of generic and specific professional and transversal competences for the engineers of tomorrow in smart and sustainable operations management.

- Exemplary development of new, innovative competence-based teaching and learning concepts and micro-credentials based on the derived competence profiles.
- Piloting of developed syllabi and learning pathways within the CoVE labs in the four regions, with subsequent assessment and evaluation through quality assurance measures.
- Establishment and further development of existing physical labs and an overarching online platform that acts as a connecting online hub between countries and within Europe.
- Set-up of competence centres at upper secondary level schools and participating universities in all four partner countries to enable successful learning and development spaces for initial and continuous VET students and teachers.
- Barrier-free and free access to smart and sustainable operations management labs to ensure social equality.
- More than 1,000 VET teachers/trainers, practitioners, and students from all over Europe within EQF levels 4–8 will be enabled to acquire transdisciplinary skills in the field of smart and sustainable operations management through innovative teaching and learning environments.
- More than 27 events, such as workshops, open lab days, or hackathons, will be organized within the regional CoVEs.

Project duration **4 years**

EU grant **€ 3.525.985**

Lead organisation **Montanuniversität Leoben**

Location **Franz-Josef-Straße 18, 8700 Leoben, Austria**

Partners

AUSTRIA Montanuniversität Leoben; Technische Universität Graz; Höhere Technische Bundeslehranstalt Wolfsberg; Österreichischer Verband der Wirtschaftsingenieure. **GREECE** Ethnicon Metsovion Polytechnion; Wind Ellas Tilepikoinonion AEBE. **ITALY** Libera Università Di Bolzano; Fraunhofer Italia; Technologische Fachoberschule "Max Valier"; Technologische Fachoberschule Bruneck; NOI Techpark Südtirol/Alto Adige. **SPAIN** Mondragon Goi Eskola Politeknikoa Jose Maria Arizmendiarieta, S.Coop.; Instituto Técnico Comercial Cuatrovientos, S.Coop.; Volkswagen Navarra, S.A.; Tracasa Instrumental, S.L.

Associated Partners

AUSTRIA Bundesvereinigung Logistik Österreich; Bildungsdirektion für Kärnten; Industriellenvereinigung Kärnten; Internationale Gesellschaft für Ingenieurpädagogik; Mahle Filtersysteme Austria GmbH; European Professors of Industrial Engineering and Management (EPIEM); Industriellenvereinigung Steiermark; Paul Rudolf Gesellschaft m.b.H. **GREECE** Environmental, Chemical & Metallurgical Services, L.T.D.; Advanced Minerals and Recycling Industrial Solutions, I.K.E.; Neupublic AE Pliroforikis & Epikoinonion Facets, AE. **ITALY** Assoimprenditori Alto Adige; Automotive Excellence Südtirol; Istituto per la promozione dello sviluppo economico; GKN Sinter Metals S.P.A.; GKN Driveline Brunico S.P.A. **SPAIN** MONDRAGON Corporation, S.Coop.; Ekide, S.L.; BIKO2 2006, S.L.; Fundacion Para El Desarrollo De Iniciativas Empresariales Y Sociales; 540 Tech Consulting, S.L.; Operations Management Engineers, S.L.

Countries
Austria, Greece,
Italy, Spain



For more information

ec.europa.eu/social/vocational-excellence

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