



H2EXCELLENCE

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

The **Fuel Cells and Green Hydrogen Centres of Vocational Excellence towards affordable, secure, and sustainable energy for Europe** project aims to close the existing skills gap in the fuel cells and clean hydrogen industry. The project will establish the H2Excellence Platform of Vocational Excellence that will create and implement lifelong learning offers and develop transnational curricula. In addition, by creating local clusters in a subset of countries with high potential for industry and the development of training programs and curricula, the desired impact of the project is to contribute to the energy transition targets laid out in the European Green Deal.

Main objectives

- To support the goals of the European Green Deal by creating an educational offer that will tackle skills gaps in the sector of fuel cells and clean hydrogen technology.
- To create pan-European knowledge centres to become a benchmark in training, research, knowledge-transfer, and awareness-raising on fuel cells and green hydrogen technology.
- To map and integrate green hydrogen in local regional economic and innovative systems to contribute to quality employment and career-long opportunities in the sector.

Main deliverables

- Connect and build 6 national CoVEs on green hydrogen technologies within an international European platform of Centres of Vocational Excellence on green hydrogen technologies and applications.
- Investigate state of the art, national/regional hydrogen roadmaps, and large-scale emerging hydrogen projects driving the need for new/upgraded market skills. To assess skill market

needs based on company survey consultations, followed by identification of profiles and competencies needs for development and requalification of professional profiles.

- Design, deploy and pilot different EQF level (3-8) lifelong and professional trainings, education programmes and qualification (for learners, workforce, teachers) in green hydrogen value chain areas including production, transportation, storage, and applications.
- Design, deploy and pilot a teacher upskilling training programme, equipping VET trainers with skills and expertise to teach FC and hydrogen technologies.
- Design, develop and pilot a mobility programme dedicated to support teachers, students, and staff in mobility actions across CoVEs.
- Design and develop open innovation, competitions and flagship projects oriented towards the increase of the attractiveness of the sector among VET students, teachers, engineers, and professionals.
- Design and develop training and technical support initiatives for SMEs in green hydrogen technologies, addressing technical, training, and reskilling topics.
- Design, plan, and pilot dedicated learning environment/lab (physical lab) to support the development of H2Excellence e-learning interactive activities in Green Hydrogen technologies and more broadly for teaching and training hydrogen related subjects to staff, students, and lifelong learners.

Project duration **4 years**

EU grant **€ 3.996.343**

Lead organisation **Vaasa University of Applied Sciences**

Location **Wolffintie 30, 65200 Vaasa, Finland**

Partners

FINLAND Vaasa University of Applied Sciences; Oy Merinova Ab; Vaasan Kaupunki. **FRANCE** Pôle Véhicule du Future.

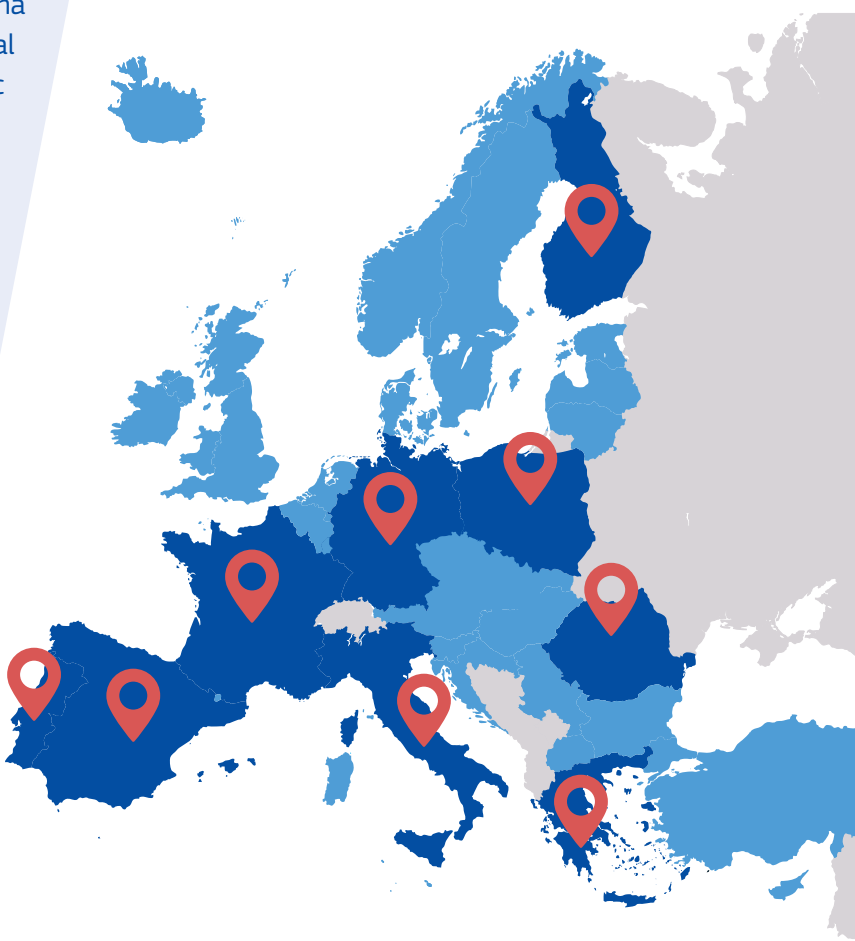
GERMANY Europäischer Verband Beruflicher Bildungsträger (Evbb) Ev. **GREECE** Eeo Group SA. **ITALY** National Agency

for New Technologies, Energy and Sustainable Economic Development; University of Perugia; Enti CONfindustriali Lombardi per l'Education; Federation of Scientific and Technical Associations; Atena scarl - Distretto Alta tecnologia Energia Ambiente Italy. **POLAND** Regionalna Izba Gospodarcza Pomorza.

PORTUGAL National Laboratory for Energy and Geology; Polytechnic Institute of Portalegre; Instituto de Soldadura e Qualidade. **ROMANIA** Ascendis Consulting. **SPAIN**

Centro Superior de Formación Europa Sur; Mondragon Goi Eskola Politeknikoa Jose Maria Arizmendiarieta S Coop; Energy Cluster of Valencia Region; Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas; University of Malaga; Parque Tecnológico De Andalucía Sa-Pta.

Countries
Finland, France,
Germany, Greece, Italy,
Poland, Portugal,
Romania, Spain



For more information

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CARE ABOUT IT

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The **CARE about IT** project is designed to reap the benefits of a closer collaboration between technology and the healthcare sectors in Europe. The project aims to provide future and current healthcare professionals with digital skills. In initial as well as continuing Vocational Education and Training, micro-credentials will be created and provide innovative educational programs on both transversal and technical digital skills. National Centres of Vocational Excellence will be set up in the four partner countries which will be linked through a European Platform of Vocational Excellence in HealthTech for knowledge sharing.

Main objectives:

- To contribute to the supply of healthcare workers who are in high demand due to current pressing shortages and demographic change.
- To prepare healthcare professionals to use digital tools which are increasingly used in the sector.
- To support the implementation of promising Health-Tech solutions by providing the skills for lifelong learning for healthcare professionals.

Main deliverables:

- To develop micro-credentials on transversal and technical digital skills for future and current professionals in the healthcare sector (covering initial and continuing VET).
- To create four national Centres of Vocational Excellence.
- To set up a European platform of Vocational Excellence in HealthTech (PoVE) between the national CoVEs that coordinates collaboration and fosters knowledge sharing.
- To make recruitment efforts to entice more VET students to select health and IT careers and participate in the project.

Project duration **4 years**

EU grant **€ 3.951.733**

Lead organisation **Stichting Noorderpoort**

Location **Verzetsstrijderslaan 4, 9727 CE Groningen, Netherlands**

Partners

ESTONIA Sihtasutus Tallinna Teaduspark Tehnopol; Sihtasutus Ida-Viru Keskhaigla; Tallinn Health Care College; TNP KONSultatsioonid OÜ; Mittetulundusühing Tuleviku Tehnoloogiaharidus. **FINLAND** Raunistulan koulu/Turku Education Division; Turku City Data Oy. **ITALY** Apro Formazione Societa Consortilea Resonsabilita Limitata; TESI T4MED srl; Azienda Sanitaria Locale CN2. **NETHERLANDS** Stichting Noorderpoort; Coöperatie voor Netwerk van Zorg- en; Bossers & Cnossen BV Welzijnsopleidingen, ZON; Drenthe College; Stichting Platform Beta En Techniek.

Countries
Estonia, Finland,
Italy, Netherlands



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BUILD SKILLS ACADEMY

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The **Academy for Transitional Skills in the Build Environment** aims at updating vocational skills ecosystems in the construction sector to the emerging needs in the area of green and digital skills. The project will develop a BuildEnrichedSkills methodology and a procedure to support Vocational Education and Training Centres to adapt their teaching offer more quickly to the digital and green transition. The focus lies on occupations of high demand in the construction sector. Further, the project aims at creating a certification framework for the recognition of skills and competences responding to emerging needs for twin transitions, which aims to serve as a world-class reference for improvement and certification of VET provision.

Main objectives

- To support the transition to a resource-efficient and competitive economy in light of the green and digital twin transitions.
- To support the skills ecosystems of the construction sector, a major employer in Europe with significant environmental, societal and economic impact, aiming to foster VET excellence for the construction sector.
- To provide solutions to the challenges of attracting young and skilled workers in the construction sector as well as reskilling and upskilling the active workforce.

Main deliverables

- Design and roll-out of BuildEnrichedSkills methodology and a procedure for adaptation of learning provision which will serve for VET Centres in Europe to adapt their offerings more quickly and to prepare workers for the digital and green transition in occupations of high demand.
- A certification framework for recognition of these skills and competences – a world-class reference for improvement and certification of VET provision.
- Transfer of outcomes to 6 pilots covering 300 trainees and exploited to reach out to 100 VET providers, 1.000 companies and 20 high-level organisations in the construction skills ecosystem realizing 100 VET-industry cooperation for vocational excellence.

Project duration **4 years**

EU grant **€ 3.938.490**

Lead organisation **CleanTech Bulgaria**

Location **Krakra Str. 18, 1504 Sofia, Bulgaria**

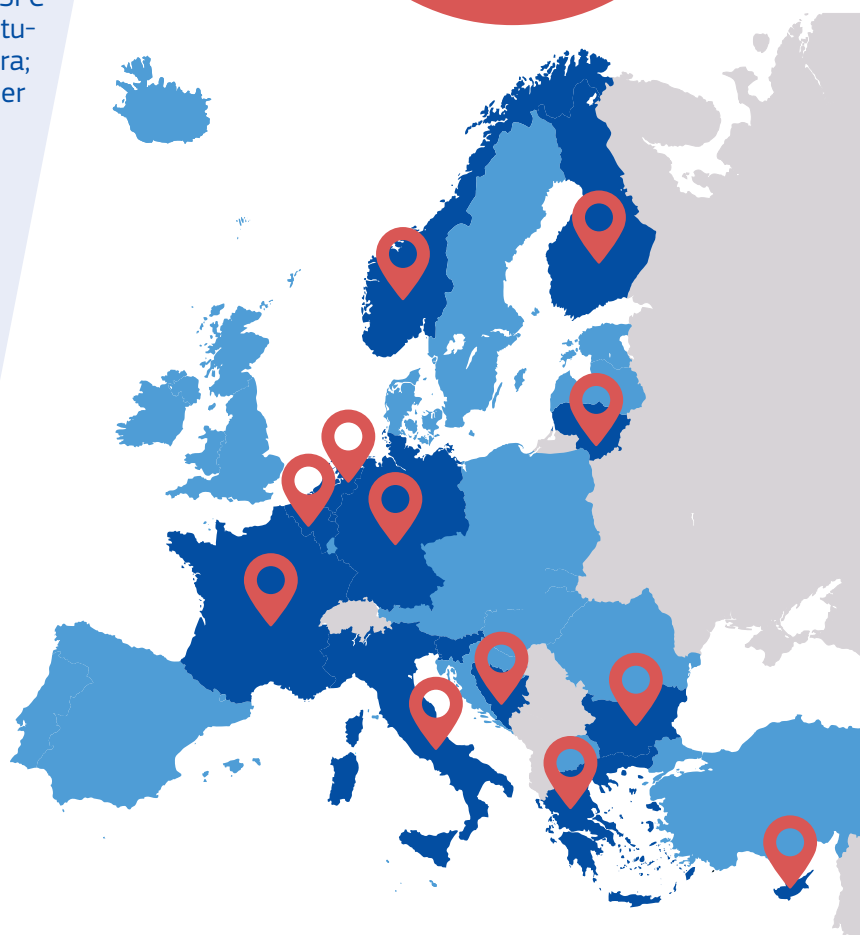
Partners

BOSNIA AND HERZEGOVINA Centar za ekonomski, tehnoloski i okolinski razvoj - Ceteor Sarajevo; Privredna Komora Federacije Bosne i Hercegovine. **BULGARIA** Klijnteh Bulgaria; Confederation of the employers and industrialists in Bulgaria KRIB -The voice of Bulgarian Business; Stroitelna Kvalifikacia. **CYPRUS** Technologiko Panepistimio Kyprou; Kykloikodromio; Kypriaki Etaireia Pistopoiisis Limited. **FRANCE** SDSN Association Paris. **GERMANY** Circular City-Zirkuläre Stadt e.V. **GREECE** Athens University Of Economics And Business - Research Center; Institutoyto Biomichanikis Kai Epicheirisiakis Epimorfosis Kai Katartisis Sev Syndesmos Epicheiriseon Kai Biomichanio. **ITALY** SFC - Sistemi Formativi Confindustria Scpa. **LITHUANIA** Lietuvos Inzinerijos Ir Technologiju Pramonės Asociacija Linpra; Alytaus Profesinio Rengimo Centras. **NORWAY** Frontier Venture AS. **SERBIA** Cirekon D.O.O.

Associated Partners

BELGIUM Federation De L'industrie Europeenne De La Construction. **BOSNIA AND HERZEGOVINA** Center for Education and Raising Awareness of Energy Efficiency; Regional Education and Information Centre for Sustainable Development in South-East Europe, Reic; Sarajevska Regionalna Razvojna Agencija Serda Doo Sarajevo; Association of Consulting Engineers of Bosnia and Herzegovina. **BULGARIA** Evropeyski Tsifrov Inovatsionen Hab V Sektor Stroitelstvo; Nacionalna Agentsia Za Profesionalno Obrazovanie I Obutchenie; Visshe Stroitelno Uchilishte Lyuben Karavelov. **CYPRUS** Energeiako Grafeio Kyprion Politon; Omospondia Ergodoton & Viomichanon Kyprou; Omospondia Syndesmon Ergolavon Oikodomon Kyprou (Oseok). **GERMANY** Berlin Partner Fur Wirtschaft Und Technologie GMBH; Deutsche Gesellschaft Fuer Nachhaltiges Bauen; HanseVerein - Verein zur Förderung des internationalen Städtebundes Die Hanse E.v.; Technische Universität Berlin. **GREECE** Athina-Erevnitiko Kentro Kainotomias Stis Technologies Tis Pliroforias, Ton Epikoinonion Kai Tis Gnosis. **ITALY** Associazione Nazionale Costruttori Edili; Centoform Srl. **LITHUANIA** Kauno technikos profesinio mokymo centras. **NETHERLANDS** Technische Universiteit Eindhoven.

Countries
Belgium, Bosnia and Herzegovina, Bulgaria, Cyprus, France, Germany, Greece, Italy, Lithuania, Netherlands, Norway, Serbia.



For more information

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AI4VET4AI

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The **AI-powered Next Generation of VET** project addresses the need for trained workers in the field of Artificial Intelligence technology in Europe. The project will address the current skills gap by adding new innovative teaching content and methods to Vocational Education and Training curricula in the field of Artificial Intelligence. With a scope of 11 European countries, the overall aim of the project is to increase the number of AI-skilled workers.

Main objectives

- To contribute to the deployment of the scale and scope of industrial application of AI technologies by supporting the growth of an AI-skilled workforce in Europe.
- To address systemic challenges of skills mismatch in AI technology.
- To provide regional responses linked to job losses resulting from changes in economic composition and occupation.

Main deliverables

- Investigation of sectors for AI deployment with highest potential in 17 regions, in cooperation with enterprises and cluster organisations.
- Adding new innovative teaching content and methods to VET curricula across 11 European countries and 17 regions (in alignment with EQF levels 4-7) (14 MOOCs and TT materials).
- Organisation of 11 innovative AI VET campuses and 7 VET innovation AI incubators, in which VET learners hone their creative and entrepreneurial skills.
- Awareness-raising of the AI potential in our regions among representatives of public and private sector, as well as civil society.

Project duration **4 years**

EU grant **€ 3.946.880**

Lead organisation **Visoko Uciliste Algebra**

Location **Ilica 242, 10000 Zagreb, Croatia**

Partners

AUSTRIA MCI Management Center Innsbruck Internationale Hochschule GmbH; NDH Network Development Hub GmbH.

CROATIA Visoko Uciliste Algebra; Hrvatska Udruga Za Umjetnu Inteligenciju; Tehnicka skola Cakovec;

Poslovna Inteligencija Doo. **GERMANY** Technische Informationsbibliothek (TIB); Strategische Partnerschaft

Sensorik Ev. **GREECE** Akmi Anonimi Ekpaideftiki

Etairia; Rezos Brands. **IRELAND** Griffith College; Anser

Procurement Limited. **ITALY** Universita Degli Studi

Di Napoli Federico II; Kelyon S.r.l. **NETHERLANDS**

Universiteit Van Amsterdam; AlterContacts. **SERBIA**

AFA-Asocijacija Za Afirmaciju Potencijala Zena;

Metropolitan univerzitet. **SLOVENIA** Solski Center

Celje; Arctur Racunalniski Inzeniring Doo; Fakulteta

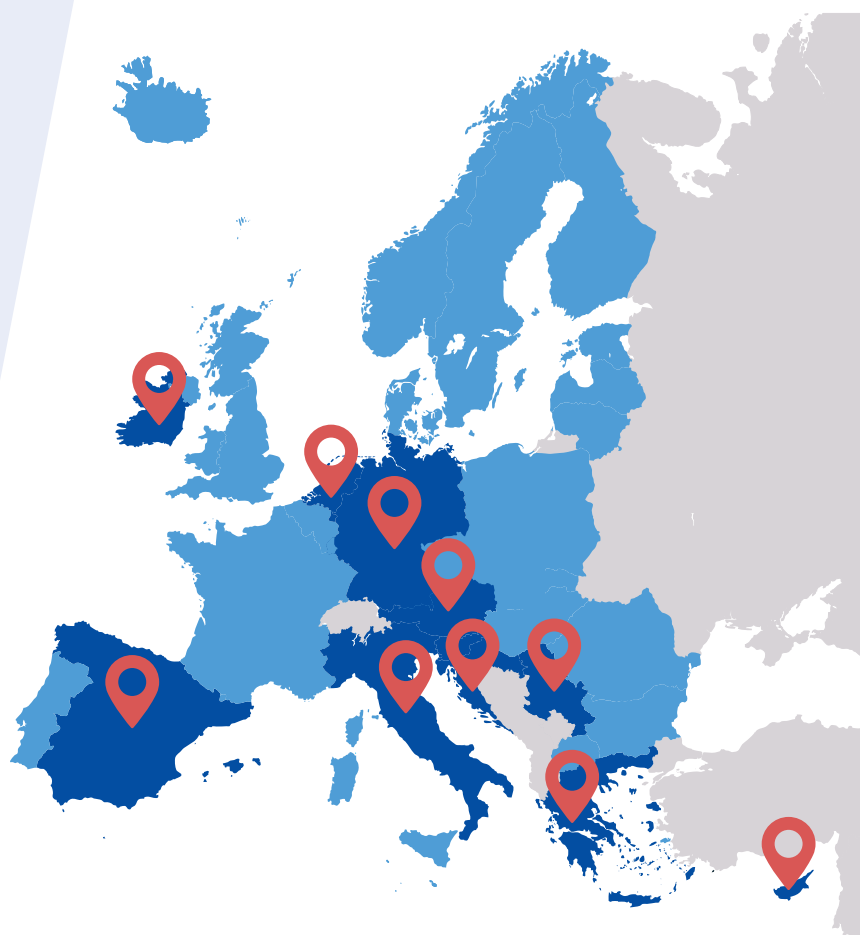
Za Informacijske Studije; Rudolfovo - Znanstveno

in tehnolosko sredisce. **SPAIN** Inercia Digital Sl;

Camara De Comercio E Industria Italiana Para

Espana.

Countries
Austria, Croatia,
Germany, Greece,
Ireland, Italy,
Netherlands, Serbia,
Slovenia, Spain



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EXCEED – EXCELLENCE IN GREEN AND DIGITAL MANUFACTURING

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The **Excellence in Green and Digital Manufacturing** project aims at preparing the Advanced Manufacturing sector for the disruptive changes caused by the green and digital twin transitions. EXCEED assumes the synergic and mutual benefitting application of digital and green as powerful leverages to accelerate innovation in Advanced Manufacturing. The project will provide competencies needed in this new environment, developing a joint international and individualised lifelong learning offer, as well as developing and updating curricula for higher Vocational Education and Training.

Main objectives

- To equip current and future workers in the Advanced Manufacturing sector with the needed competencies to master the disruptive changes caused by the twin green and digital transitions.
- To provide lifelong learning as a way for workers to become or remain employable and keep pace with the skill changes.
- To contribute to “leave no one behind” of the European Green Deal, by focusing on the upskilling and reskilling of low-skilled adults.

Main deliverables

- Promoting upskilling and reskilling of low-skilled adults and workers at risk of marginalisation through a joint internationalised, flexible and individualised Lifelong Learning training offer.
- Strengthening the Higher VET (EQF 4 and 5) through design of new curricula and updating of existing ones.
- Adopting joint strategies for Talent Management by the establishment of an International Talent Factory, aware of the fact that talented and skilled individuals have a key role to play in countries’ future prosperity.
- Upskilling and empowerment of VET professionals as key profiles translating innovation in education contexts.
- In 4 years, partners are expected to involve at least 600 learners and an overall number of 26.000 beneficiaries through an extensive multichannel communication strategy.

Project duration **4 years**

EU grant **€ 2.582.433**

Lead organisation **Centoform SRL**

Location **Via Nino Bixio 11, 44042 Cento Fe, Italy**

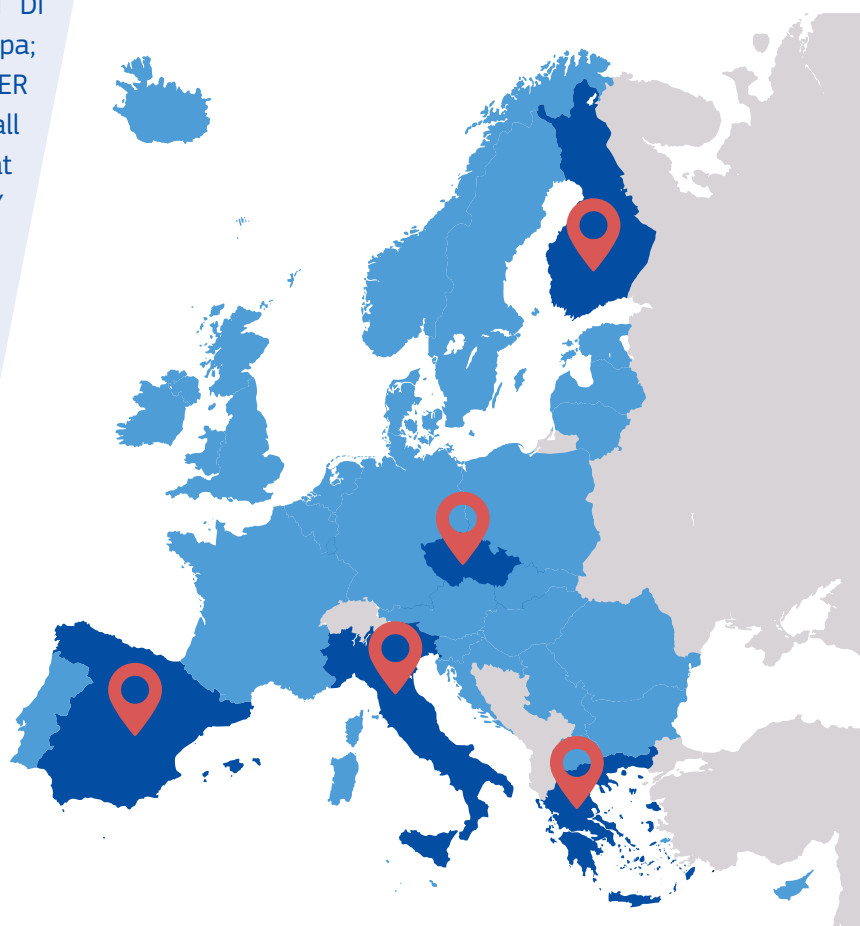
Partners

CZECHIA Institut Inpro As; Asociace Malých A Středních Podniků A Zivnostníků Cr. **FINLAND** Oulun Yliopisto; Oulun Seudun Koulutuskuntayhtymä Osekk; Macon Oy. **GREECE** Athina-Erevnitiko Kentro Kainotomias Stis Technologies Tis Pliroforias, Ton Epikoinonion Kai Tis Gnosis; Hellenic Marine Environment Protection Association – Helmepa. **ITALY** Centoform Srl; Cis Scuola Per La Gestione D'impresa Societa Consortile A Responsabilita Limitata; Associazione Cluster Energia E Sviluppo Sostenibile, Italy; Universita Degli Studi Di Ferrara; Art-Er-Societa Consortile Per Azioni; Comau Spa; Universita Degli Studi Di Modena E Reggio Emilia; Clust-ER Innovazione nei Servizi. **SPAIN** Institut Escola Del Treball De Barcelona; Departament D'educació generalitat De Catalunya; Asociación Española De Robotica Y Automatización (Aer Automation).

Associated Partners

BELGIUM Association Europeenne Des Agences de Developpement. **CZECHIA** Střední škola stavebních remesel Brno-Bosonohy; SSPJilova; Akademie remesel Praha - Střední škola technická; Střední škola Katerinky - Liberec, s. r. o.; Střední škola automobilní a informatiky; Střední škola-Centrum odborné přípravy technickohospodarské; Jubela s.r.o; Agentura Pro Podporu Podnikání A Investic Czechinvest; Institut Evropských Profesionálních Studií, s.r.o. **FINLAND** Oulun Kaupunki. **GREECE** General Secretariat For Civil Protection. **ITALY** Fondazione Istituto Tecnico superiore, territorio, energia, costruire; I.S.I.T. "U.Bassi-P-Burgatti"; Sfridoo; Istituto Di Istruzione Superiore Flli Taddia; Solid Energy S.r.l.; Comune di Cento; Union of municipalities Valli e Delizie; Regione Emilia Romagna. **SPAIN** Festo Automation, S.A.U.

Countries
Belgium, Czechia,
Finland, Greece,
Italy, Spain



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ACCESSCOVE

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

The **European Centre of Vocational Excellence in Accessibility** project's vision is to enhance social inclusion of people with disabilities by focusing on excellence in Vocational Education and Training. The project aims to establish a Centre of Vocational Excellence researching the requirements of people with disabilities as well as stakeholders' needs and priorities concerning accessibility issues. The data collected will form the VET programmes and curricula that will lead to the training frame and the certification of two new specialties: the Accessibility Certifier and the Accessibility Consultant. AccessCoVE will also target the upskilling and reskilling of specific groups, as well as of students in secondary and tertiary education.

Main objectives

- To enhance knowledge on social inclusion of people with disability.
- To provide new specialties delivering competences on how to better integrate people with accessibility.
- To develop a knowledge platform on accessibility issues informing policymaking regarding inclusion in society and accessible digitalisation.

Main deliverables

- Innovative VET programmes with respective teaching and learning activities and tools.
- New specialties that will open new job opportunities while covering the needs that already put pressure on the business sector (the Accessibility Certifier and the Accessibility Consultant).
- Constant horizontal and vertical cooperation between the VET providers, companies, chambers, federations, HEIs, and regional authorities throughout the project.

Project duration **4 years**

EU grant **€ 3.315.161**

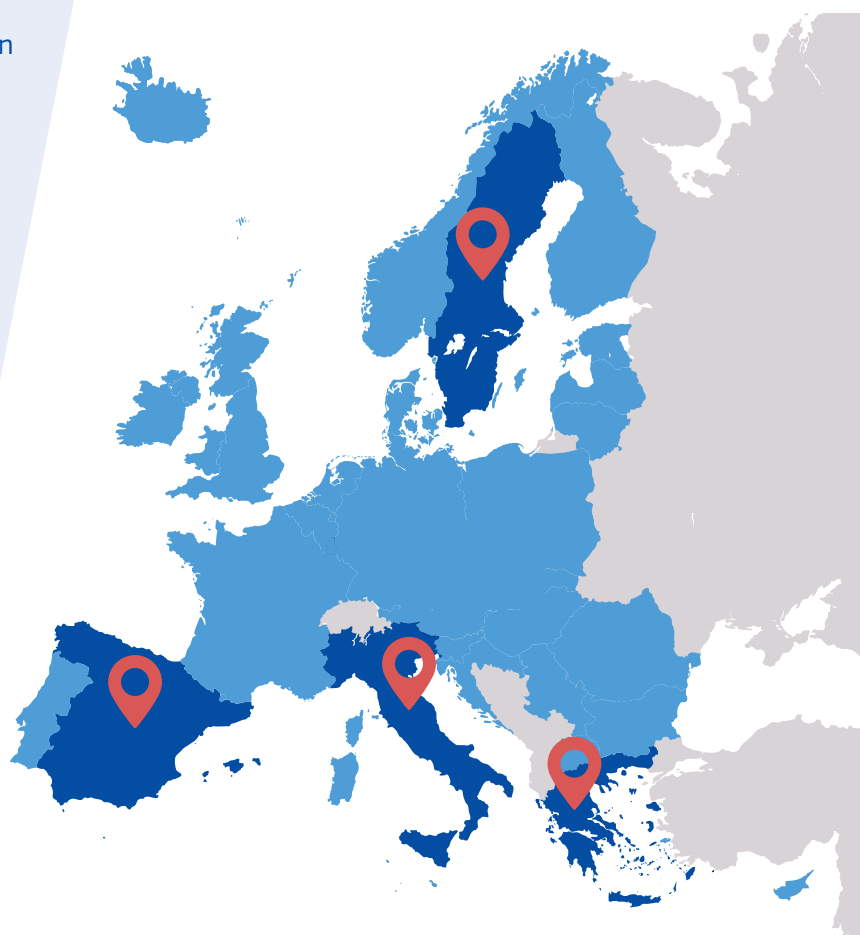
Lead organisation **University of Macedonia**

Location **Egnatia Street 156, 54006 Thessaloniki, Greece**

Partners

GREECE University of Macedonia; Gnomon Plirophorikis Ae; Mantzanakis S. Kai Sia O.e.; Ucert Monoprosopi I.k.e; Smarteching Education IKE; Panellinios Omospondia Xenodohon; Region of Central Macedonia; Syndesmos Epicheiriseon Pliroforikis Voreias Elladas. **ITALY** Politecnico Di Torino, Italy; Città Sotto Scacco STP Srl; Remoove srl, Italy; E.ri.fo.-Ente Di Ricerca E Formazione; Fondazione ASPHI Onlus. **SPAIN** HABI diseño accesible SL; Everycode S,L.; Centro Superior De Formacion Europa-Sur Sa; Parque Tecnologico De Andalucia Sa-Pta; Confederacion Espanola De Personas Con Discapacidad Fisica Y Organica – Cocemfe; Camara Oficial De Comercio, Industria, Servicios Y Navegacion De Granada. **SWEDEN** Kungliga Tekniska Hoegskolan; Begripsam AB; Changemaker Educations AB.

Countries
Greece, Italy,
Spain, Sweden



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TEAM#UP

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

The **Knowledge on ecological restoration to maximize benefits for nature and people** (TEAM#UP) project's vision is to mobilise extensive knowledge and to enhance skills in the field of ecological restoration. The project aims to fill gaps in green Vocational Education and Training by setting up four Centres of Vocational Excellence, each focusing on a relevant subtopic. The CoVEs will develop curricula for EQF levels 4-5 while supporting the transfer of knowledge to VET schools and practitioners in agriculture, forestry, and landscaping. The overall ambition of the project is to address the ongoing biodiversity loss and habitat degradation and to strengthen ecosystem functions and services in the face of climate change.

Main objectives

- To facilitate the transition to a greener and more climate-resilient society through skills development in ecological restoration.
- To shape a generation of professionals within VET, skilled to implement nature-based environmentally smart solutions.
- To support the transfer of innovation to practitioners via VET.

Main deliverables

- Establishment of 4 Centres of Vocational Excellence on: multifunctional and sustainable land use in agricultural systems (Germany), restoration of old infrastructure, ecological compensation and landscaping (Norway), restoration across urban and rural landscapes (Czechia), forest restoration and disaster risk management (Spain).

- Provide 4 curricula on the EQF levels 4-5 to support the transfer of innovation to practitioners in agriculture, forestry, and landscaping.
- Accompany other VET schools in the partnering countries in implementing the upgraded curriculum in their regular teaching.
- Student-led demonstration sites on ER will spur hands-on skills, responsibility and autonomy.
- Teachers will learn to teach students to visualize demonstration sites with augmented/virtual reality approaches.
- Students will benefit from training in business development, e.g., by an Ideathon to identify realistic ER business models.
- Educational resources and visualized demonstration sites will be made available in a multilingual OER platform: a Digital Ecological Restoration Toolbox (DERTO).

Project duration **4 years**

EU grant **€ 3.929.798**

Lead organisation **Anhalt University of Applied Sciences**

Location **Bernburger Straße 55, 06366 Koethen, Germany**

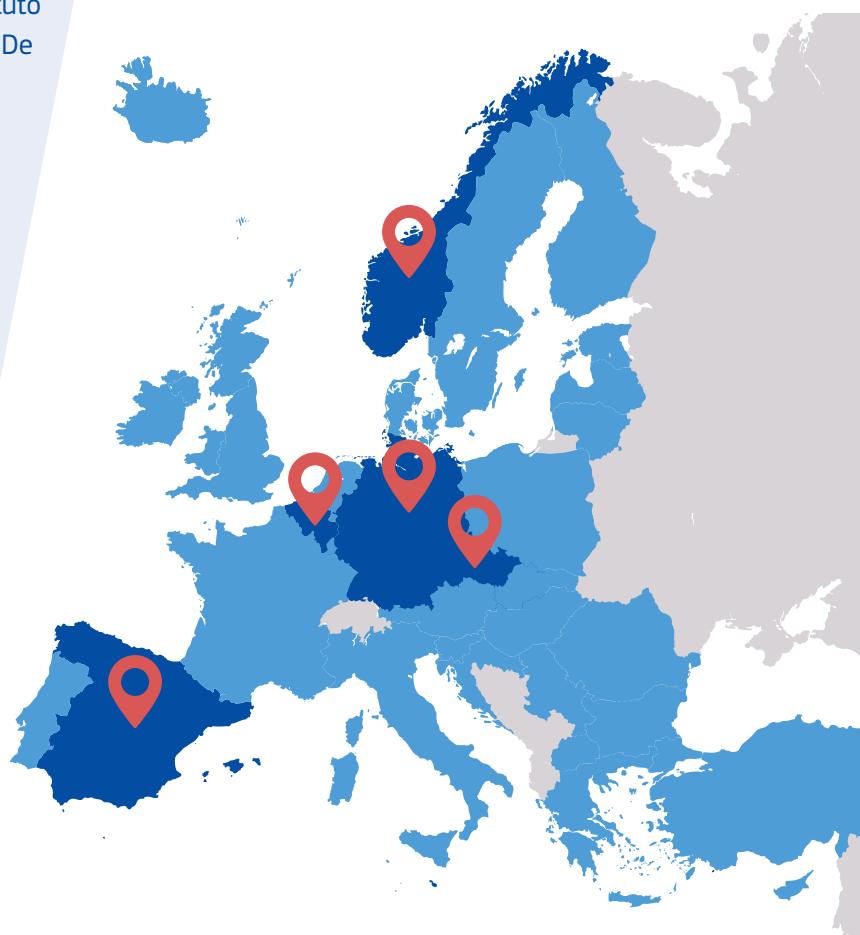
Partners

BELGIUM European Chapter Of The Society For Ecological Restoration Ser International. **CZECHIA** Jihoceska Univerzita V Ceskych Budejovicich; Vyssi Odborna Skola A Stredni Zemedelska Skola ; Pro-Bio Svaz Ekologickych Zemedelcu, z.s. **GERMANY** Anhalt University of Applied Sciences; Fachschule für Landwirtschaft; Stiftung Kulturlandschaft Sachsen-Anhalt; DLG EV. **NORWAY** Stiftelsen Norsk Institutt For Naturforskning Nina; Norges grønne fagskole – Veia; Hæhre Entreprenør AS. **SPAIN** Universidad De Alicante; Instituto De Enseñanza Secundaria El Palmeral; Consellería De Educación, Cultura Y Deporte; Agresta S Coop.

Associated Partners

CZECHIA Nature Conservation Agency Of The Czech Republic. **GERMANY** Ministerium für Wirtschaft, Tourismus, Landwirtschaft und Forsten des Landes Sachsen-Anhalt; Naturgarten e.V. **NORWAY** Miljødirektoratet. **SPAIN** Fundacion Global Nature; Centre per a la Investigació i l'Experimentació Forestal (CIEF).

Countries
Belgium, Czechia,
Germany,
Norway, Spain



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AGRIFOOD4FUTURE

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The **Centres of Vocational Excellence in Smart Farming and Sustainable Food Systems** project aims to respond to the existing and emerging needs of an “agriculture of the future”. The project will work on contributing the necessary soft and technical skills needed for a transformed agriculture sector, covering the priority areas of digitalisation, decarbonisation, and sustainability. The Centres of Vocational Excellence will bring together European leading actors from Vocational Education and Training, academia, research, and business across regions with tradition in the agri-food sector.

Main objectives

- To contribute to the transformation of the agri-food sector towards digitalisation, decarbonisation, and sustainability.
 - To support the large-scale implementation of new and emerging agriculture practices, such as climate-smart agriculture, precision agriculture, regenerative and organic practices.
 - To provide the necessary soft and technical skills, raising awareness, and cultivating an entrepreneurial mind-set for the “agriculture of the future” for young people and workers in the agri-food sector.
- Based on analysis, creation of training offers with a key element being the transmission to the learners of soft and digital skills and knowledge related to innovation, sustainability, and green entrepreneurship.
 - Development of a joint EQF level 3-5 program for technicians in smart farming and environmental sustainability in the food system.
 - Set-up of a transnational joint Master of Science, and development of Master and PhD training courses.
 - Design of a lifelong learning programme for farmers, on smart agriculture and digital farming, climate smart-farming and new sustainable practices among others.

Main deliverables

- Analysis of needs at different levels before the definition of the training programmes, encompassing three aspects: skills gaps in workers, skills requested by the labour market and the VET ecosystem weaknesses.
- Development of an 18–24-month capacity building program for agri-food SMEs and farmers.
- Establishment of work-based learning and visits, for example through a network of exemplary farms on regenerative farming practices as an instrument for peer-to-peer learning and internships, an open innovation test farm program for start-ups, farmers, and VET students.

Project duration **4 years**

EU grant **€ 3,385,247**

Lead organisation **Università Cattolica del Sacro Cuore**

Location **Largo Gemelli 1, 20123 Milano, Italy**

Partners

BELGIUM Inagro, Provinciaal Extern Verzelfstandigd Agentschap In Privaatrechtelijke Vorm Vzw; Katholieke Hogeschool Vives Zuid; BGT Consulting Group SPRL. **FRANCE** Arvalis Institut Du Vegetal; Federation Regionale Des Cooperatives D'Utilisation De Materiel Agricole De L'Ouest De La France; Institut National Des Sciences Et Industries Du Vivant Et De L'environnement – Agroparistech; Association Du Pole De Competivite Valorial. **GERMANY** Europaischer Verband Beruflicher Bildungstrager (EVBB) EV; BK Consult GMBH. **GREECE** Akmi Anonimi Ekpaideftiki Etairia; Agricultural & Environmental Solutions; Ellinikos Georgikos Organismos – Dimitra. **ITALY** Universita Cattolica Del Sacro Cuore; Clust-Er Agroalimentare; Phorma Mentis s.r.l. **PORTUGAL** Food4sustainability - Associacao Para A Inovacao No Alimento Sustentavel; Instituto De Soldadura E Qualidade; Universidade Do Porto; BGI SA. **SPAIN** Centro Superior De Formacion Europa-Sur Sa; Cluster De La Maquinaria I Dels Medis De Produccio Agricola De Catalunya; Parque Tecnologico De Andalucia Sa-Pta; Trama Tecnoambiental SL.

Countries
Belgium, France,
Germany, Greece,
Italy, Portugal,
Spain



For more information

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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



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AUTO-COVE 2.0

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

The **Greening Europe with support of clean-tech-vehicle education** project's vision is to build an Education and Training framework for the vehicle sector with a clear orientation towards the green transition. The project aims to address the skills gap in the automotive sector regarding sustainability by setting up a multidisciplinary partnership between VET-schools, Higher Education Institutions, and vehicle companies from countries with significant experience in the car industry.

Main objectives

- To contribute to Europe's sustainable growth, by developing digital and practical skills in the vehicle sector that is central to ambitions of combatting climate change and adopting clean energy.
- To develop expertise in the automotive industry on new innovations and fuel technologies.
- To up- and reskill the current workforce in the automotive sector to ensure their long-term employability.

Main deliverables

- Skills-gap analysis through a survey for the VET colleges and industry representatives, which will be implemented by Finnish Research centre and German THWs (Technische Hochschule Würzburg-Schweinfurt).
- Creation of 17 study modules and 10 training courses of modern vehicle technology and vehicle sales in co-operation with vehicle field teachers, partner company representatives and Estonian, Lithuanian and German technical universities.
- Pilot of modules among VET-teachers, vehicle company service, sales personnel, and vehicle students at secondary and tertiary levels.
- Testing and using of digital tools among project output piloting participants: VET-teachers, learners and industry representatives.
- Project outputs will be disseminated by Dutch Elected International-company to 3.400 active VET-providers worldwide in 8 language versions, and in English via the OER-platform.

Project duration **4 years**

EU grant **€ 3.999.016**

Lead organisation **OMNIA the Joint Authority of Education in Espoo Region**

Location **PO BOX 77700, 02070 Espoo, Finland**

Partners

ESTONIA Tartu Linn; Eesti Maalikool; Toyota Baltic As.

FINLAND Espoon Seudun Koulutuskuntayhtymä Omnia;

Teknologian Tutkimuskeskus Vtt Oy; Bilia Oy Ab; Volvo

Car Finland Oy Ab. **FRANCE** Societe D'enseignement

Professionnel Du Rhone. **GERMANY** Jakob-Preh-Schule,

Berufliche Schulen; Technische Hochschule Für Angewandte

Wissenschaften Würzburg-Schweinfurt; Preh GmbH.

LATVIA Ventspils Tehnikums. **LITHUANIA** Kauno

technologiju mokymo centras; Kauno technikos kolegija.

NETHERLANDS Stichting Regionaal Onderwijs Centrum

'S Hertogenbosch; Electude International B.V.

Associated partners

FINLAND Espoon Kaupunki; Optima samkommun;

Opetushallitus Oph; Metropolia Ammattikorkeakoulu

Oy; Helsingin kaupunki; Stadin ammattiopisto.

GERMANY Regierung von Unterfranken - 40.1;

Staatliche Berufsschule Main-Spessart. **LATVIA**

Profesionalas izglitibas kompetences centrs

"Rigas Tehniska koledza"; Profesionalas Izglitibas

Kompetences Centrs Liepajas Valsts Tehnikums.

LITHUANIA Kauno Prekybos, Pramonės Ir

Amatu Rumai; Lietuvos Profesinio Mokymo

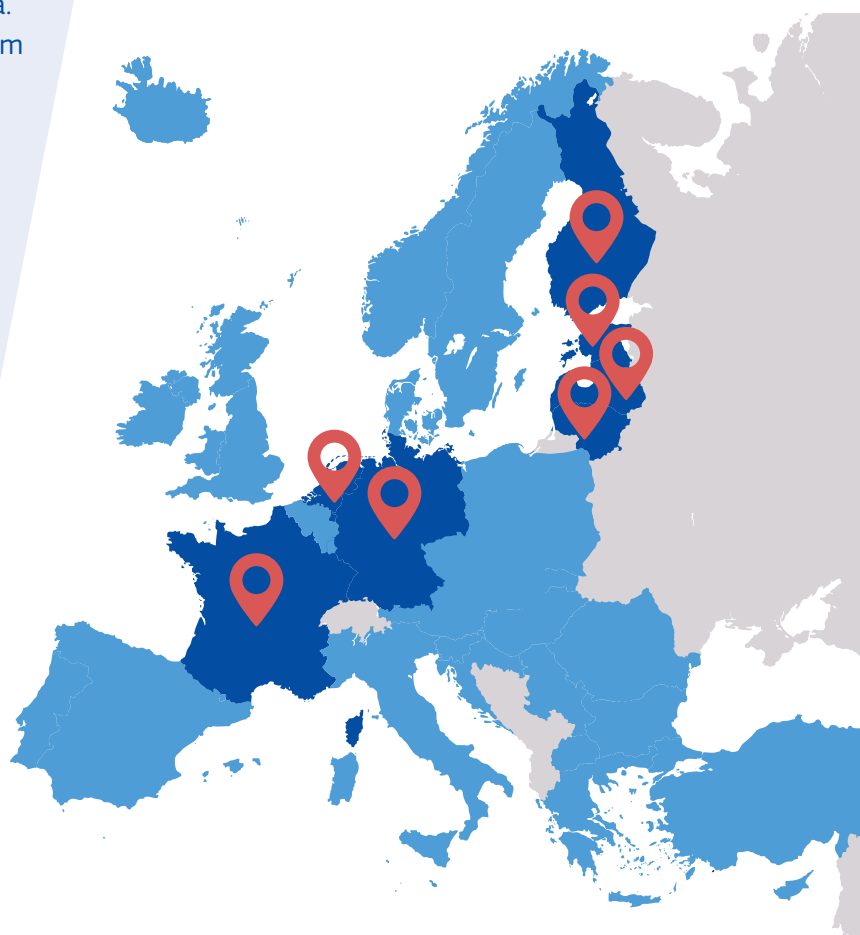
Istaigu Asociacija; Vilniaus Automechanikos

Ir Verslo Mokykla; Kvalifikacijų Ir Profesinio

Mokymo. **NETHERLANDS** Volvo Group The

Netherlands BV.

Countries
Estonia, Finland,
France, Germany,
Latvia, Lithuania,
Netherlands



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HABITABLE

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

The **Alliance of Centres of Excellence in Vocational Training for Sustainable Habitat** project aims to respond to the skills shortage and mismatches caused by the digital and green transition in the Habitat sector. To this aim the project will develop innovative, learner-centred teaching methods, curricula on technical skills and key competences, and a system of certification for micro-credentials to up-and reskill adult learners and SME employees. A Platform of Centres of Vocational Excellence for Sustainable Habitat will be set up building a skills ecosystem together with a wide range of local and regional partners, as well as centres of professional excellence in other countries.

Main objectives

- To lead the green and digital transition of the Habitat sector by developing a transnational cooperation platform of CoVEs and implement a Skills Intelligence monitoring system for the Habitat sector.
- Boost quality, digital, green and inclusive Dual VET, work-based learning and apprenticeships, support the creation of sustainable business-education cooperation partnerships, and provide labour market relevant skills including those necessary for the green and digital transitions.
- Design and apply innovative learner-centred teaching methods supported by digital tools and Extended Reality technologies and provide access to innovative curricula that focus both on technical skills and key competences.
- Support the upskilling and reskilling of adult learners and SME employees for their adaptation to the green and digital transition and implement a new system for the certification of micro-credentials in the Habitat sector.
- Support career guidance and promote social inclusion, equality, gender equality, and non-discrimination including for people with special needs/fewer opportunities.
- Foster transnational mobility for VET educators and learners, create new spaces to facilitate international cooperation, innovation

and generation of new national and European funded projects, and provide policy recommendations for the implementation of regional and local strategies to raise upward convergence of CoVEs.

- Maximise the impact of the project, the further use of its products and the mainstreaming of its results.

Main deliverables

- Development of a SMART Skills Intelligence Platform and Monitoring System for the Habitat sector to guide the actions of the skills ecosystem.
- Development of a Skills Hub containing the Online Training Centre with a set of training programmes addressed to trainers, SMEs and VET learners, including the elaboration and testing of different MOOCs and courses, and implementation of the Innovative Curricula Digital Database and the MIC - Micro-credentials Certification Centre.
- Development of a multifunctional online platform for skills Training, Certification and Career guidance where developed training programmes are available.
- Setting up a collaborative platform for CoVEs and SMEs to support work-based learning in the Habitat sector, dedicated to Dual VET and WBL that aims to support SMEs and VET centres to boost quality, digital, green and inclusive Dual VET, apprenticeship and WBL.
- Establishment of a Platform of CoVEs for Sustainable Habitat, boosting new projects and initiatives through the Skills Ecosystem Innovation TANK and the co-creation LAB and drafting recommendations for the implementation of a regional and local strategy for upward the convergency of CoVEs.

Project duration **4 years**

EU grant **€ 3.998.710**

Lead organisation **Cluster de Habitat Eficiente**

Location **Calle Valle de Aran 5, 47010 Valladolid, Spain**

Partners

AUSTRIA Holzcluster Steiermark GmbH; Fachhochschule Salzburg GmbH. **GEORGIA** N(N)LE Construction College “Construct2”. **GREECE** Cluster Viooikonomias Kai Perivallontos Dytikis Makedonias; Dimitra Ekpaiditiki Simvilitiki Ae; Panepistimio Thessalias. **MOLDOVA** Public Institution Center of Excellence in Energy and Electronics. **PORTUGAL** Associacao Plataforma Para A Construcao Sustentavel; Centro Tecnologico Da Ceramica E Do Vidro; Universidade De Aveiro. **SPAIN** Cluster De Habitat Eficiente; Consejeria De Educacion De La Junta De Castilla Y Leon; Centro Integrado De Formación Profesional Pico Frentes; Centro Integrado De Formación Profesional Tecnológico Industrial; Instituto Para El Fomento Del Desarrollo Y La Formacion Si; Fundación Instituto De La Construcción De Castilla Y León Iccl; Fundacion Centro De Servicios Y Promocion Forestal Y De Su Industria De Castilla Y Leon; Asociacion Empresarial De Investigacion Centro Tecnologico Del Mueble Y La Madera De La Region De Murcia; Fundacion Laboral De La Construccion.

Associated partner

AUSTRIA Osterreichisches Institut Fur Bildungsforschung Der Wirtschaft - IBW.

Countries
Austria, Georgia,
Greece, Moldova,
Portugal, Spain



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TEACH4SD

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

The **Transforming Education Area and Competency Hub for Sustainable Development** project focuses on training teachers and developing innovative teaching material to contribute to the efforts of sustainable development laid out in the European Green Deal. The project will setup five Centres of Vocational Excellence on one topic each, covering health, trade, entrepreneurship, clothing and textiles, and construction. The European Platform of Centres of Vocational Excellence will link the five CoVEs which will develop a Digital ESD Academy providing sustainability competences (transversal and technical skills) for education and training, re- and upskilling, as well as exchange of best practices.

Main objectives

- To support the ambitions put forward by the European Green Deal on tackling climate and environmental-related challenges, by focusing on five critical sectors of health, trade, entrepreneurship, clothing and textiles, and construction.
- To empower and educate teachers to take on a leading role as change-makers and thereby contributing to the European ambition of a socially fair and just green transition.
- To shape an ESD movement for schools in Europe through the regional-anchored knowledge hubs and the European Digital Hub offering upskilling activities and continued education.

Main deliverables

- Creation of 5 regional CoVE ecosystems on five different industrial sectors: health, trade, entrepreneurship, clothing and textiles, and construction.
- Setting-up of a European Platform of Centres of Vocational Excellence will link the five CoVEs and provide a Digital Hub.
- Development of content of Train-the-Trainer course for teachers from Higher Education Institutions (HEI) with EQF levels 5-8, VET institutions with EQF levels 3-5 and the world of work.
- Setting up, piloting, and rolling out of digital ESD Academy providing sustainability competences (transversal and technical skills) for education and training, re- and upskilling, as well as exchange of best practices.
- The digital hub will become a tool to shape the future skills governance systems by activating and moving regional development strategies.

Project duration **4 years**

EU grant **€ 3.997.020**

Lead organisation **Via University College**

Location **Hedeager 2, 8200 Aarhus N, Denmark**

Partners

BELGIUM ODISEE; Syntra Midden-Vlaanderen vzw; Ceo's 4 Climate. **DENMARK** Via University College; Midtjyllands Eu Kontor Forening; Sosu Ostjylland; Aarhus Kommune.

NETHERLANDS Stichting Saxion; Stichting Regionaal Opleidingencentrum Van Twente; Stichting Novel-T.

ROMANIA Universitatea Tehnica Gheorghe Asachi Din Iasi; Colegiul Tehnic "Gh.asachi"; Camera de Comert si Industrie a judetului Iasi. **SPAIN** Fundacio Privada Elisava Escola Universitaria; Fundacio Eurecat; Cambra Oficial De Comerc Industria I Navegacio De Barcelona.

Countries
Belgium, Denmark,
Netherlands,
Romania, Spain



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AILEEN

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

The **Centres of Vocational Excellence in Aerospace & Defence for Advanced Manufacturing** project addresses the shortage of skilled personnel in manufacturing for the Aerospace and Defence industries. The project will set up a transnational cooperation ecosystem of Centres of Vocational Excellence for advanced manufacturing in the Aerospace sector, for the development of innovative methodologies and tools to guarantee specialized sectoral training and the transfer of excellence knowledge and activities in the field of Vocational Education and Training. The project will target both current and future professionals in Advanced Manufacturing, with a focus on EQF levels 4-7. To boost the outcomes of the project, the results will be disseminated throughout Europe, while the platform is also open for non-partner VET-providers.

Main objectives

- To address skills shortage and mismatch in Advanced Manufacturing for the Aerospace and Defence Sectors, contributing to competitiveness of SMEs and the industry.
- To develop and disseminate innovative methodologies and tools for training in the sector (EQF 4-7).
- To disseminate best practices in Vocational Excellence in Advanced Manufacturing for the Aerospace and Defence sectors with a Europe-wide network.

Main deliverables

- Strategic Plan for Advanced Manufacturing Aerospace & Defence CoVEs.
- Identification of existing CoVE best practices.
- Development of methodologies to nominate & award of CoVEs.
- Perform Advanced Manufacturing CoVEs' Nomination.
- Creation of mechanisms to transfer best practices among VET & HE institutions.
- Perform a capacity building workshop for consortium VET partners.
- Pilot several approaches for training delivery: Apprenticeships, Applied Research and Competence Units.
- Mobility of staff program among partners.

Project duration **4 years**

EU grant **€ 2.837.147**

Lead organisation **European Federation for Welding Joining and Cutting**

Location **Av Antoon van Oss 14, 1120 Brussels, Belgium**

Partners

BELGIUM European Federation For Welding Joining And Cutting; Belgisch Instituut Voor Lastechniek Vzw. **DENMARK** Center For Sikkerhedsindustri N i Danmark; Mercantec.

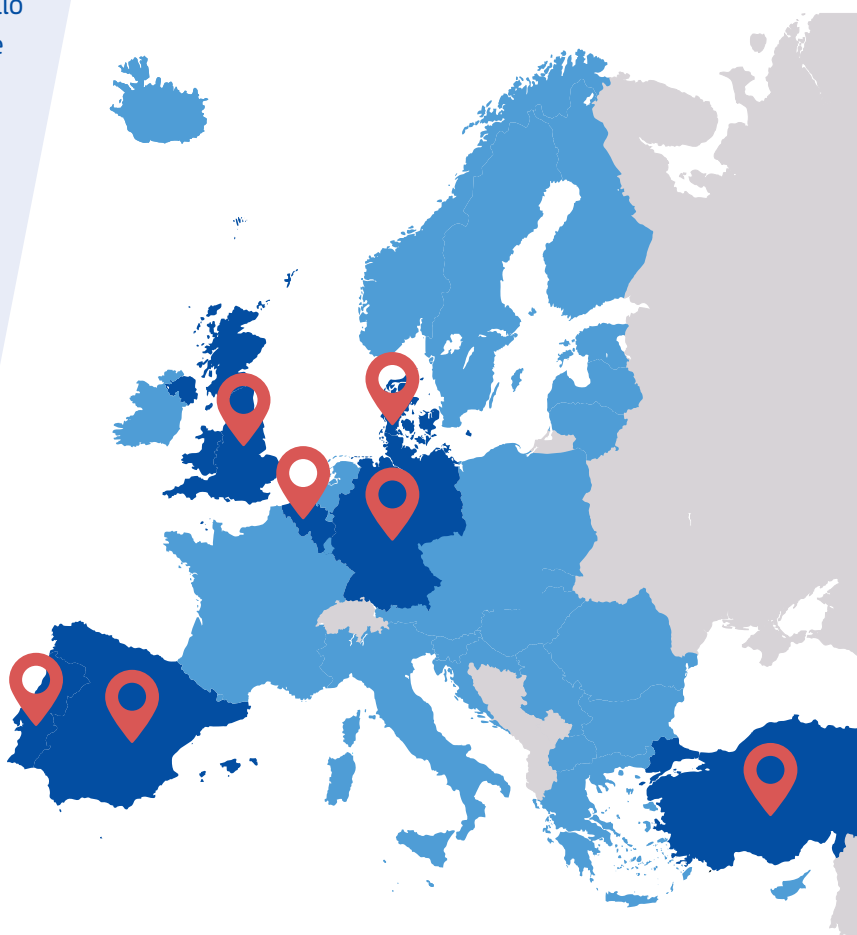
GERMANY Eos Gmbh Electro Optical Systems; Lzh Laser Akademie Gmbh; Fraunhofer Gesellschaft Zur Forderung Der Angewandten Forschung Ev. **PORTUGAL** Favoritanswer

Consultoria Em Engenharia Lda; Instituto De Soldadura E Qualidade. **SPAIN** Soluciones Sicnova Sl; Asociación Empresarial De Tecnología De Asturias Para El Desarrollo De La Industria De La Defensa; Asociacion Espanola De Soldadura Y Tecnologias De Union; Fundacion Idonial.

TÜRKIYE Brunel University London; Gedik University.

UK Pri Europe Ltd; The Manufacturing Technology Centre Limited; Brunel University London.

Countries
Belgium, Denmark,
Germany, Portugal,
Spain, Türkiye, UK



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