Co-funded by the
Erasmus+ Programme
of the European Union

TICHE ACADEMY

Training Offer

ABSTRACT

TICHE - Training Innovation for Circularity and Holistic economies - is an Erasmus project aims at establishing a **European VET Academy on Circular Economy**, based on a transnational cooperation of a very experienced and complementary partnership, (including associated partners), joining Research centers, Vet centres, University, SMEs, clusters, Umbrella organizations and international networks, public administrations, that will work together as an ecosystem to increase capacity building and responsiveness of the VET systems, according to an “European Education Area”.

LEARN MORE ABOUT THE PROJECT

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2021-1-IT01-KA220-VET-0000331

TICHE Academy training offer's detailed description

General Description of the training initiative

Training initiative (title) *(ex. Expert in an eco-design for circular economy in the textile and fashion industries)*	First Annual Workshop: More than 20 years of Eco-Innovation Research: lessons learnt and new directions (10-11 November, 2022)
EQF Level (if applicable)	None
Proficiency level *(foundation/basic, intermediate, advanced, high specialized level)*	High specialized level
Expected learning outcomes *(By the end of this course, the learners will acquire …….)*	By the end of this workshop participants will be able to develop critical understanding and the ability to reflect on the importance of the role played by eco-innovation in firms' transition toward circular and sustainable business models
Methodologies	Presentation of latest research insights, data presentation, experiment presentation in the field of circular economy, eco-innovation and sustainability at EU level
Mode of Learning *(Blended, online, onsite)*	Onsite
Assessment *(ex. test)*	None
Certification and recognition	Certificate of attendance
Targets	Students, academics, experts in the field, employees in public organizations
Delivery Language/s	English

Modules of the training initiative

Module N.	Title of the Module/s	Learning/training hours (total)
MODULE 1/ DAY 1	DAY 1 /More than 20 years of Eco-Innovation Research: lessons learnt and new directions	8 hours
MODULE 2/ DAY 2	DAY 2 /More than 20 years of Eco-Innovation Research: lessons learnt and new directions	8 hours

Module's detailed description

MODULE 1	
Tile of the module: DAY 1 /More than 20 years of Eco-Innovation Research: lessons learnt and new directions	
Main objectives of the module	
The workshop aims to provide both fundamental knowledge and the latest research developments concerning environmental innovations - "eco-innovation" - following a micro and macro-economic perspective.	
Contents/subjects of the module	
12.00 Opening address Fernando J. Diaz Lopez (EIT Climate KIC and Stellenbosch University) 12.30 Session 1 Eco-Innovation research and new perspectives Chair: Claudia Ghisetti (University of Milan – Bicocca) René Kemp (Maastricht University) Co-authors: Arie Rip and Harro van Lente *Evolutionary approaches to innovation for sustainability. How sustainability and needs may change too* Sandra Schillo (University of Ottawa) *20 years of Eco-Innovation Research – Reflections, observations and a constructive challenge* 13:30 Lunch break 14:30 Keynote lecture Alessio D'Amato (University of Rome "Tor Vergata" and IAERE) *Eco-Innovation for the Circular Economy Transition* 15.30 Presentation Eco-innovation Society Fernando J. Diaz Lopez (EIT Climate KIC and Stellenbosch University) *Eco-innovation, a global community and a research agenda* 16:00 Guest presentation Nicholas Palaschuk (University of Waterloo) *North American Eco-innovation Network* 16:30 Session 2 Eco-innovation in business 17:30 Chair: Elisa Chioatto (University of Ferrara) Valery Chistov (Deusto Business School) Co-authors: Javier Carrillo Hermosilla, Nekane Aramburu Goya *How does Open Eco-innovation affect the Radicalness of Eco-innovation?* Manyabe Esangela Daniel (Kyngpook National University) Co-authors: Mahamadou Biga-Diambedou , Gye-Wan Moon , Bungandwa Toussain, Yeguignafere Diarassouba,Valérie Swaen *Building sustainable entrepreneurship ecosystem in Sub-Saharan Africa: The role of eco-innovation, cleaner production, circular economy* Coffee break (10') Asia Guerreschi (University of Ferrara) Co-author: Fernando J. Diaz Lopez (EIT Climate KIC and Stellenbosch University) *Cooperation a driver for eco-innovation: a literature review focusing on co-operatives* Ahmed Bin Sanaullah *(University of Warsaw)* Co-author: Magdalena Marczewska *Vertical Farming as a Solution for Sustainable Agriculture: Business model suggestions for vertical farm growers* 18:30 *End of activities (followed by social programme)*	
Learning Outcomes **The Learner will** *(ex. Have a clear understanding of the concept of*	**Assessment criteria:** **The learner can** *(ex. Define the concept of CE and provide*

CE, its historic development, its definitions, its principles. Know key examples of CE inpractice.)	*relevant examples. Identify relevant supporting concepts related to CE.)*
Have a clear understanding of key environmental sustainability theories Have a clear understanding of viable eco-innovations which boost the circular transition at business level	To generate and select viable eco-innovations which are compatible with circular economy and reduce environmental impacts.

Achievements

Module: DAY 1 /10 November, 2022: More than 20 years of Eco-Innovation Research: lessons learnt and new directions		
Knowledge *(Means the body of facts, principles, theories and practices that is related to afield of work or study. It is described as theoretical and/or factual knowledge)*	***Skills*** *(Means the ability to apply knowledge and use know-how to complete tasks and solve problems. They are described as cognitive (logical, intuitive, and creative thinking) or practical (involving manual dexterity and the use of methods, materials, tools and instruments)*	***Competencies*** *(Means the proven ability to use knowledge, skills and personal, social and methodological abilities in work or study situations and in professional and personal development. It is described in terms of responsibility and autonomy)*
At the end of this unit the participant ***will know:***	*At the end of this unit the participant* ***will be able to:***	*At the end of this unit, the participant* ***will have acquired the responsibility and autonomy to:***
how environmental impact can be reduced with the adoption of more environmentally focused and sustainable/circular business models	to identify viable eco-innovations which are compatible with circular economy to recognize key drivers of innovation, and leverage organizational systems, structures, and culture Practical frameworks, and a future-focused innovation mindset	develop inter-personal, analytical and presentation skills; to give detailed insights into the challenges and problems encountered by firms willing to adopt a more environmentally friendly innovative set-up

MODULE 2
Tile of the module: DAY 2 More than 20 years of Eco-Innovation Research: lessons learnt and new directions
Main objectives of the module
The workshop aims to provide both fundamental knowledge and the latest research developments concerning environmental innovations - "eco-innovation" - following a micro and macro economic perspective.
Contents/subjects of the module
8.30 Registration 09:00 Introduction to the workshop Fernando J. Diaz Lopez (EIT Climate KIC and Stellenbosch University) 09:10 Keynote lecture Massimiliano Mazzanti (University of Ferrara, SEEDs and CERCIS) *Modelling green knowledge production and eco-innovation policies*

10:00	Session 3 Eco-innovation for the energy, digital, sustainable and climate transition Chair: Christoph Kiefer (Fraunhofer ISI) Ryan Roberts (Victoria University of Wellington) Co-authors: Alan Brent, Jim Hinkley, Bob Cavana *Understanding the impacts of eco-innovation: Community Renewable Energy projects in Aotearoa New Zealand* Sandro Montresor (GSSI) Co-authors: Francesco Rentocchini and Antonio Vezzani *"Walking the green line": government sponsored R&D and clean technologies in the US* Claudia Ghisetti (Bicocca University) Co-authors: Davide Antonioli, Massimiliano Mazzanti, Francesco Nicolli, Marco Quatrosi *"Twin transition" and organisational settings: empirical evidence from Italian regions* Magdalena Marczewska (University of Warsaw) *Digital or sustainable: SMEs dilemma*
11:30	Invited mini-lecture Guy Fournier (Pforzheim University) *System innovation in transport with automated minibuses and ITS: the citizen centric approach of AVENUE*
11:45	Coffee break
12:00	Guest presentation Ubiratã Tortato (Pontifical Catholic University of Parana) *Circular Economy and ESG in an Eco-innovation perspective: progress in Brazil*
12:30	Guest presentation Mahamadou Biga-Diambeidou (UCLouvain and ICN Business School, Lorraine Universiy-CEREFIGE) *Fostering a Sustainable Entrepreneurship Research Ecosystem in Africa*
12:45	Closing messages Massimiliano Mazzanti (University of Ferrara, SEEDS and CERCIS)
13:00	Lunch – end of activities

Learning Outcomes **The Learner will** *(ex. Have a clear understanding of the concept of CE, its historic development, its definitions, its principles. Know key examples of CE inpractice.)*	**Assessment criteria:** **The learner can** *(ex. Define the concept of CE and provide relevant examples. Identify relevant supporting concepts related to CE.)*
Have a clear understanding of key environmental sustainability theories Have a clear understanding of viable eco-innovations which boost the circular transition at business level	To generate and select viable eco-innovations which are compatible with circular economy and reduce environmental impacts.

Achievements

Module: DAY 2 /11 November, 2022: More than 20 years of Eco-Innovation Research: lessons learnt and new directions		
Knowledge *(Means the body of facts, principles, theories and practices that is related to afield of work or study. It is described as theoretical and/or factual knowledge)*	***Skills*** *(Means the ability to apply knowledge and use know-how to complete tasks and solve problems. They are described as cognitive (logical, intuitive, and creative thinking) or practical (involving manual dexterity and the use of methods, materials, tools and instruments)*	***Competencies*** *(Means the proven ability to use knowledge, skills and personal, social and methodological abilities in work or study situations and in professional and personal development. It is described in terms of responsibility and autonomy)*
At the end of this unit the participant ***will know:***	*At the end of this unit the participant* ***will be able to:***	*At the end of this unit, the participant* ***will have acquired the responsibility and***

		autonomy to:
How environmental impact can be reduced with the adoption of more environmentally focused and sustainable/circular business models	To identify viable eco-innovations which are compatible with circular economy To recognise key drivers of innovation, and leverage organisational systems, structures, and culture Practical frameworks, and a future-focused innovation mindset	To develop inter-personal, analytical and presentation skills; to give detailed insights into the challenges and problems encountered by firms willing to adopt a more environmentally friendly innovative set-up