

NEWSLETTER

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SUSTAIN-CE

Integration of Sustainable Design and Circular Economy Concepts in Civil Engineering Curricula

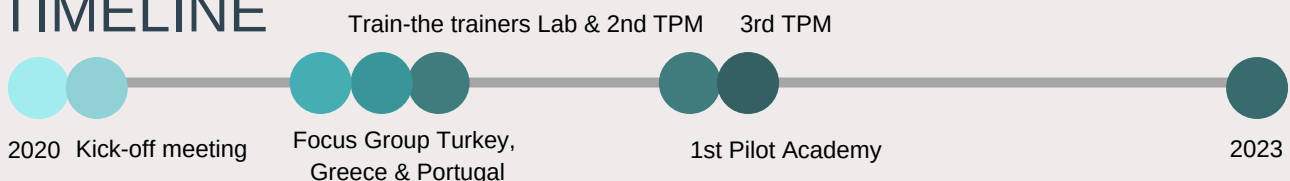


FIRST PILOT TRAINING ACADEMY ON WATER RESOURCES AND TRANSPORTATION ENGINEERING, Lisbon, Portugal

The first Pilot Training Academy of the SUSTAIN-CE project took place face to face in Lisbon, Portugal between 15-17 March 2022, along with the third Transnational Project Meeting organized by ISQ with the participation of all six partners, Yaşar University, Izmir Institute of Technology, Aristotle University of Thessaloniki, South East European Research Centre and FOLKART.



TIMELINE



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SUSTAIN-CE Project 1st Pilot Academy

During the 1st Pilot Training Academy, project partners gathered together to work on the following two thematics:

1) Sustainable Water Resources Engineering (1st day)

Dr. Mir Jafar Sadegh Safari gave a presentation on hydrology and sustainability. In his presentation Dr. Safari highlighted:

- Sustainable Hydrology
- Climate change
- Drought and sustainable development
- Evaporation barriers and suppression
- Infiltration and sustainable drainage system (SUDS) and Infiltration for Sustainable Agriculture
- Groundwater Sustainability
- Streamflow related Climate change and sustainable development.

The second presentation of Dr. Mir Jafar Sadegh Safari was “Water resources engineering and sustainability”. Dr. Safari discussed the following topics:

- Water and sustainable development
- Sustainable hydraulic structure design considering sediment transport principles
- Dams and Sustainable Development
- Sustainable flood protection
- Sustainable Reservoir Functions and Water Resources Management for Sustainability

2) Sustainable Transportation Systems (2nd Day)

Dr. Tolga Ercan provided information about “Sustainability Implementations in Transportation Engineering” on the second day of the academy. Dr. Ercan pointed out energy, mode choice, intelligent transportation systems, and social equity & accessibility as the main areas of research in transportation engineering and highlighted the importance of implementing sustainable approaches in these fields.



SUSTAIN-CE Project 1st Pilot Academy



The second presentation of the day was given by Dr. Sotiris Theofanis on “Sustainable Port Engineering and Operations”. Dr. Theofanis briefly introduced sustainable practices that need to be considered in management of port operations.



The third presentation of the day was given by Dr. Volkan Emre Uz from Izmir Institute of Technology. Dr. Uz’s presentation topic was “Implementation of Circular Economy Principles and Sustainability Concepts in Pavement Engineering”.

Keynote Speakers



Dr. Helena Ramos joined the academy online from Lisbon with the topic of “Modern Challenges in Water Sustainability”. Dr. Ramos presentation covered several aspects associated with new future concerns and developments of water sustainability and pipeline systems.



The second presentation of the day was given by Dr. Maria-Poulia Boile on “Greening and Circular Economy Practices in the Port Sector: Prospects and Challenges”. Dr. Boile briefly introduced the prospects and challenges of the port sector in circular economy.

NEXT STEPS ...

Second SUSTAIN-CE Pilot Training Academy will be organized by AUTH in Thessaloniki, Greece from **22-24 June of 2022** on the topics of role of geotechnical engineering in a sustainable world and construction materials for sustainability.

The Academy will test with trainees the newly developed curriculum focused on "**Sustainable Construction Materials & Buildings**" and "**Geotechnical Engineering in a Sustainable World**".



INTEGRATION OF
SUSTAINABLE DESIGN AND
CIRCULAR ECONOMY CONCEPTS IN
CIVIL ENGINEERING CURRICULA



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