



ENEPLAN

DEVELOPING SKILLS IN THE FIELD OF INTEGRATED ENERGY PLANNING IN MED LANDSCAPES

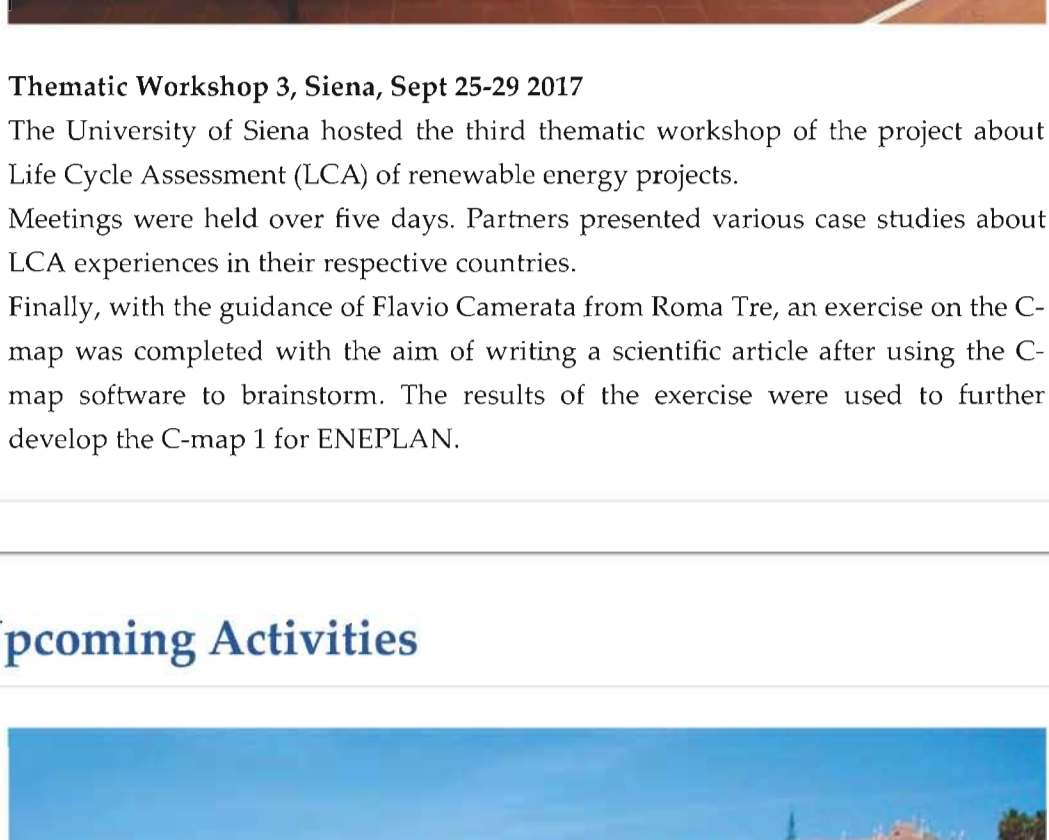
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Project Summary

ENEPLAN project tackles the lack of interdisciplinary approaches in energy planning by focusing on the enhancement of capacities of future professionals (university students in their last years, and the newly graduated). Quite often, higher educational institutions (HEI) provide skills and competencies in renewable energy sources (RES), energy, planning and landscape in separate specializations, limiting the potential of an integrated approach. Moreover, energy efficiency strategies are often simplistically traced to a mere list of technologies, while their elaboration should require the integrated development of technical skills and environmental and landscape sensitivities (especially in ecologically valuable contexts). These integrated skills need to be developed within a dedicated HE program. Hence, the project aims at developing collaborative open education resources (OER), which can be used to improve the capacities of teachers, students and researchers in energy planning from a sustainability perspective, and to foster collaboration among HEI, research institutions, public administration and business. The project consortium has been built accordingly, involving 18 partners who can provide significant contributions according to their perspective and specific expertise: universities, research centers and energy agencies.

Recent News



Thematic Workshop 3, Siena, Sept 25-29 2017

The University of Siena hosted the third thematic workshop of the project about Life Cycle Assessment (LCA) of renewable energy projects. Meetings were held over five days. Partners presented various case studies about LCA experiences in their respective countries.

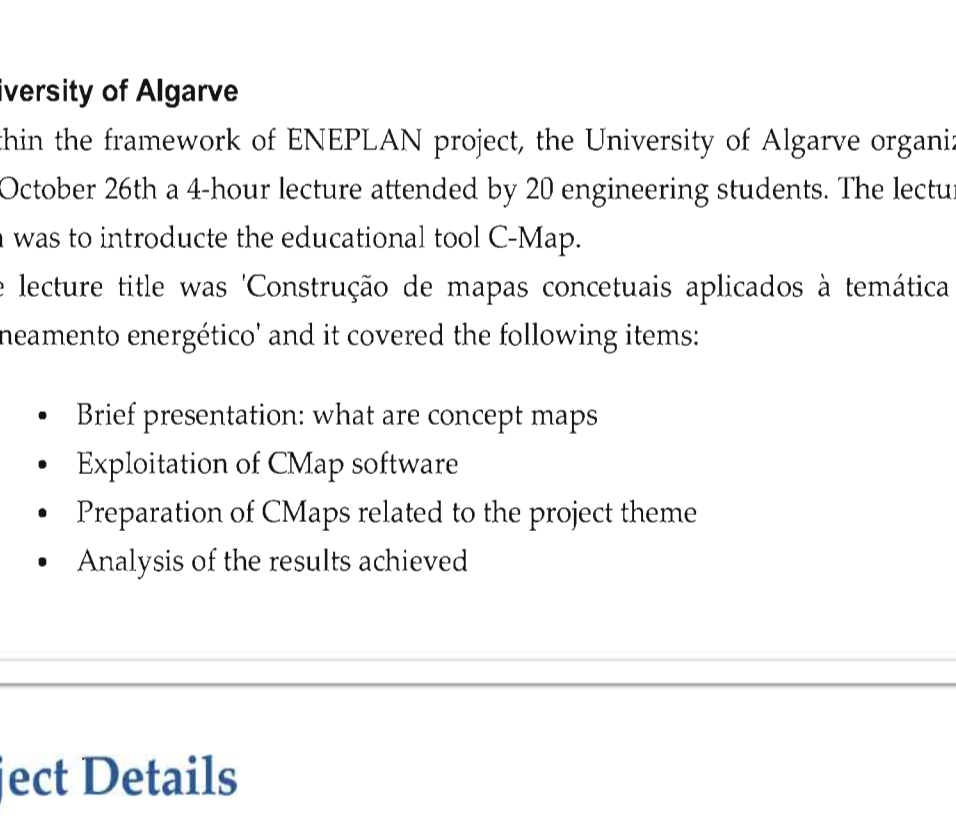
Finally, with the guidance of Flavio Camerata from Roma Tre, an exercise on the C-map was completed with the aim of writing a scientific article after using the C-map software to brainstorm. The results of the exercise were used to further develop the C-map 1 for ENEPLAN.

Upcoming Activities



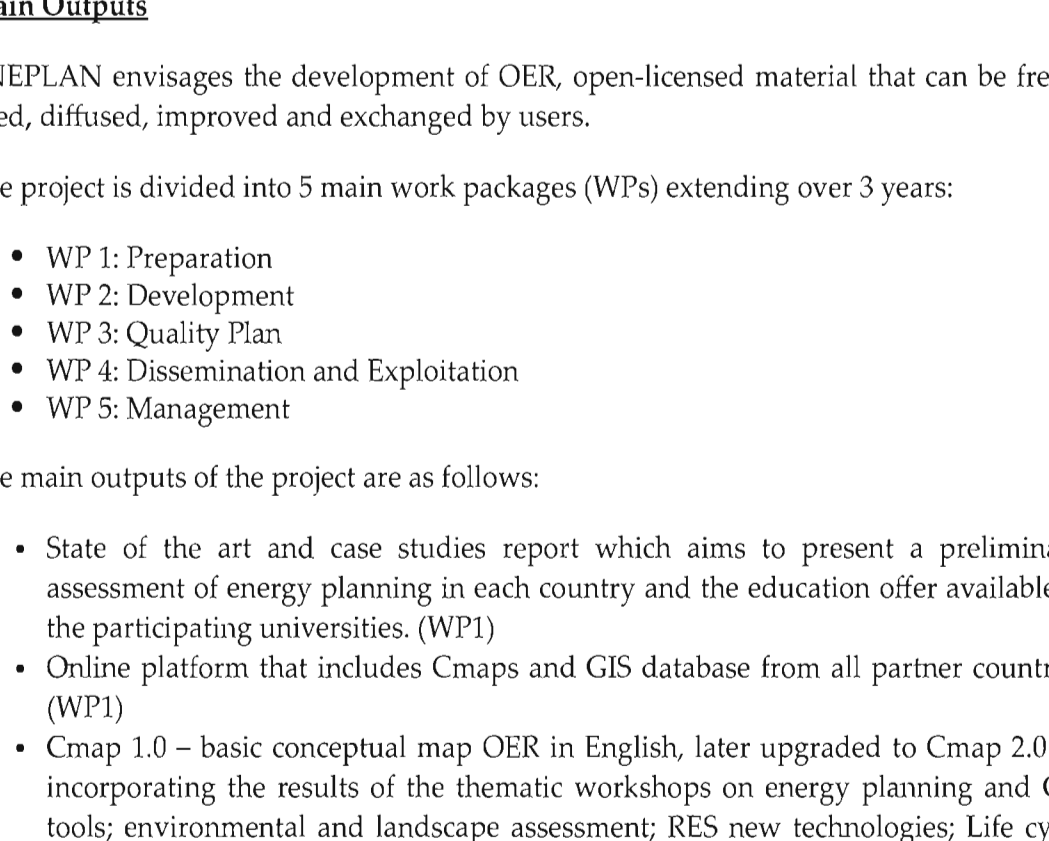
Thematic Workshop 4, Faro, January 15-19, 2018

Out of the four thematic workshops to be held in Programme countries, three were completed in Seville, Valletta and Siena respectively. The next and final thematic workshop will be hosted by the University of Algarve (Portugal). The focus will be on innovation, applied research and relationships with SMEs. The concept mapping will also be developed to incorporate these concepts in the master C-map.



Students' Workshop, Amman, February 18-28, 2018

A 10-day workshop in Amman (Jordan) will be organised to test the Cmap 2.0. This workshop will include 90 students (10 from each Higher Education Institution of Partner countries). Also, each partner institution will be represented by three of its staff to be involved in a practical exercise regarding the application of the Cmap 2.0 to concrete case studies identified previously within the first work package of the project. The aim is to train students on the C-map methodology and then test the maps produced as a teaching tool. This workshop will be hosted by the University of Petra.



Final Workshop, Cairo, April 16-20, 2018

This workshop will be dedicated to the finalisation of the C-map on integrated energy planning. The construction of Cmap 2.0, an upgraded version of the basic Cmap, and its validation will be accomplished. Cmap 2.0 will incorporate contents of the thematic OERs that derive from the four thematic workshops previously held in Seville, Valletta, Siena and Faro. The final version of the C-map will be produced in both English and Arabic. This workshop will be hosted by Ain Shams University.

ENEPLAN Special

ENEPLAN Special highlights activities done by consortium members outside the formal project activities. In this issue, we highlight news from Jordan, Egypt and Portugal.

University of Jordan

A workshop on Concept Mapping was held on July 13th, 2017 at the University of Jordan with the participation of 24 architecture students and 20 mechanical engineering students. The workshop agenda covered the following items:

- Introduction to ENEPLAN project.
- Introduction to the Concept Map Methodology and its fields of application by Prof. Ahmad Al Salaymeh
- Q&A
- Assignments on concept mapping (group work)

Al-Balqa Applied University

A lecture titled 'The Green Architecture and Environmental Pollution' was given on October 24, 2017 at the department of Materials & Minerals Engineering and Architecture Engineering. The lecture was attended by 40 students and was about the importance of architectural design in reducing pollution and saving energy. The C-Map tool was used.

Ain Shams University

Two interactive lectures on Concept Mapping were held on October 23 and 30, 2017 at the faculty of engineering. Both sessions were dedicated to the fourth year undergraduate students at the Civil Engineering - Irrigation and Hydraulics Department. The main topics discussed were:

- Presentation on ENEPLAN project and its different activities.
- Introduction to the Concept Map Methodology and its fields of application by Prof. Hoda Soussa
- Practical C-Map exercises using specific case studies
- Q&A
- Assignments on concept mapping

University of Algarve

Within the framework of ENEPLAN project, the University of Algarve organized on October 26th a 4-hour lecture attended by 20 engineering students. The lecture's aim was to introduce the educational tool C-Map.

The lecture title was 'Construção de mapas conceituais aplicados à temática do planeamento energético' and it covered the following items:

- Brief presentation: what are concept maps
- Exploitation of CMaps software
- Preparation of CMaps related to the project theme
- Analysis of the results achieved

Project Details

Main Objectives

- Fill a gap in higher education programs, focusing on RES development and planning.
- Respond to the emerging need for a professional profile able to work with an interdisciplinary approach that integrates urban and regional planning, environmental impact assessment and landscape design on one hand, and energy planning and RES development on the other.
- Merge the theoretically separated disciplines in an organic framework for the definition of effective and sustainable implementation strategies, following a holistic approach in which Environment, Technology, Planning and Landscape move together towards an increasingly integrated vision.
- Respond to the need for interdisciplinary educational tools in this field, through the development, testing and circulation of collaborative "Concept maps" as Open Educational Resources.

Concept maps are a way of representing relationships between ideas, images, or words, and, as OERs, they can be a useful tool for teachers, students and researchers, and enterprises.

Main Outputs

ENEPLAN envisages the development of OER, open-licensed material that can be freely used, diffused, improved and exchanged by users.

The project is divided into 5 main work packages (WPs) extending over 3 years:

- WP 1: Preparation
- WP 2: Development
- WP 3: Quality Plan
- WP 4: Dissemination and Exploitation
- WP 5: Management

The main outputs of the project are as follows:

- State of the art and case studies report which aims to present a preliminary assessment of energy planning in each country and the education offer available at the participating universities. (WP1)
- Online platform that includes Cmaps and GIS database from all partner countries (WP1)
- Cmap 1.0 – basic conceptual map OER in English, later upgraded to Cmap 2.0 by incorporating the results of the thematic workshops on energy planning and GIS tools; environmental and landscape assessment; RES new technologies; Life cycle analysis and energy potential; innovation, applied research and relationships with SMEs. It will be released in English and Arabic. (WP2)
- Final conference proceedings (as guidelines for integrated energy planning) (WP4).

In order to achieve these outputs, the project envisages several workshops: four thematic workshops in Programme countries, and 2 training workshops in Partner countries. The final conference will be held in Beirut at the American University of Beirut in October 2018.

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Project Partners

 UNIVERSITÀ DI BARI UNIVERSITÀ DI SIENA ROMA TRE UNIVERSITÀ DEGLI STUDI MIEMA	Italy Università degli Studi Roma Tre Università degli Studi di Siena Università degli Studi di Camerino
 UAlg UNIVERSIDADE DO ALGARVE	Malta Malta Intelligent Energy Management Agency
 UNIVERSIDAD PABLO DE OLAVIDE	Portugal Universidade do Algarve
 الجامعة اللبنانية LEBANESE UNIVERSITY ALMEE	Spain Universidad Pablo de Olavide
 الجامعة اللبنانية الأمريكية AMERICAN UNIVERSITY OF BEIRUT ALMEE Medgreen	Lebanon American University of Beirut Lebanese University ALMEE Medgreen
 ZEWAIL CITY UNIVERSITY OF SCIENCE AND TECHNOLOGY AIN SHAMS UNIVERSITY	Egypt Zewail City of Science and Technology Ain Shams University
 AL-BALQA' APPLIED UNIVERSITY JORDAN UNIVERSITY OF SCIENCE & TECHNOLOGY PRINCESS SUMAYA UNIVERSITY OF TECHNOLOGY UNIVERSITY OF JORDAN UNIVERSITY OF PETRA NATIONAL ENERGY RESEARCH CENTER - ROYAL SCIENTIFIC SOCIETY	Jordan Al-Balqa' Applied University Jordan University of Science & Technology Princess Sumaya University of Technology University of Jordan University of Petra National Energy Research Center - Royal Scientific Society

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