

Key Action: Cooperation for innovation and the exchange of good practices
Action Type: Strategic Partnerships for vocational education and training

Project Title

Acoustic Courseware Platform- Strategic Partnership in field of acoustic

Project Coordinator

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Project Information

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Partners SVEUCILISTE U ZAGREBU FAKULTET ELEKTROTEHNIKE I RACUNARSTVA (HR) , HEAD ACOUSTICS GMBH (DE) , KATHOLIEKE UNIVERSITEIT LEUVEN (BE) , RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN (DE) , UNIVERSITE DU MANS (FR)
Topics Enterprise, industry and SMEs (incl. entrepreneurship) ; Open and distance learning ; New innovative curricula/educational methods/development of training courses

Project Summary

Acoustics is a multi-disciplinary field, in which professionals and students are often lacking skills in some of its sub-disciplines, leading to an overall lack of effective specialists.

The aim of the project is to connect entities from various sectors and disciplines to create business partnership oriented to the development and promotion of vocational education and training with the use of modern teaching methods. The partnership focuses on the professional development of engineers in the field of acoustics.

The ACOUCOU Platform (<http://acoucou.org/>) is a part of a strategy aimed at expanding and strengthening acoustic knowledge, supporting the development of innovative teaching methods based on attractive and effective delivery of content, services, teaching methodologies and practices at national and international levels.

This initiative aims at developing innovative, shared and open academic courseware covering all acoustic sub-disciplines, jointly in an alliance of European HEIs and companies specialised in acoustics. The courseware enables students and professionals alike to improve their skills in the various fields of acoustics, be it during their studies, before their first job or in the context of vocational education.

The main purpose of the courseware is to innovatively bridge theory and practice through digitalization, both in the context of current educational programmes and to increase the awareness of professionals about the role that acoustic comfort plays in citizens' everyday life. The vision of acoustic courseware is to design and combine lessons and practical cases within an innovative online experience, stimulating the development of knowledge and allowing solving of issues connected with acoustics in a broader perspective.

Incorporating newest technologies, ACOUCOU offers not only interactive visualizations, but also videos and VR experiences. Users are attracted and motivated using new technologies (gamification, VR, Virtual Acoustics, multibook, web simulator). According to learning theories, abstract conceptualization (generalizing and drawing conclusions from the experience). The form of educational materials incorporated on the Acoustic Courseware Platform are designed to be used for self-learning as well as in blended learning.

Target groups are professionals and students of various specialisations (acousticians, architecture, civil engineering, EHS specialisation, mechanical engineering, electrical engineering, process and environmental engineering) who work with acoustics in their daily work but did not acquire the required expertise in a satisfactory manner during their studies; and university teachers, company researchers mainly in the specialisation of acoustics or related specialisations. These courses constitute a multi-disciplinary source of expertise and examples for them.

Link to project card: [Show project card](#)

* Results are available for this project. You can click on the link above, and go to "Results" section to view them