



CROCEMS Project Newsletter

Issue #3
January 2024

Collaborative RObotics for Circular Economy in Manufacturing Sectors

Dear readers,

Welcome to the 3rd release of the CROCEMS newsletter! This time there are many things to keep an eye on. Below a short summary of what we have in storage for you in this issue:

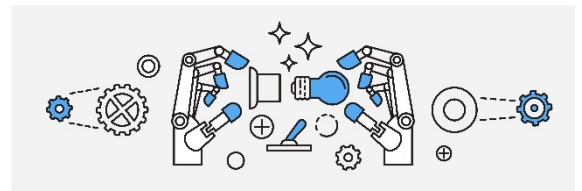
- ➔ **What we did last months?**
- ➔ **E-learning platform development**
- ➔ **Project team meetings**
- ➔ **Who are the partners of the project?**

The CROCEMS project has as objective to design and develop a comprehensive training course to address Collaborative Robotics units to perform waste management task and encourage the development of circular business models within manufacturing sectors.

What our team has done over the past months?

Work on the PR3 and PR4 outcome is ongoing. Over the last few months there has been intensive work in the project focusing on the development of:

- The educational materials of the training course.
- The first draft version of the educational platform.



Training modules and learning outcomes

CROCEMS Training Course will comprises 6 different and complementary training modules to teach the needed skills and competences on collaborative robotics for waste management and circular economy processes. Each module has learning outcomes associated and is made of different manageable units, formulated from these learning outcomes, and related to the same set of occupational activities and field of knowledge. It describes the multimodal learning process, the objective of the units and its general concept. The learning outcomes indicate what the learner is expected to understand and know at the end of the learning process and comprise optional and 'free choice' units to enable learners to adapt their learning pathways to their main training interest in the course.



Training modules of the course

1. Collaborative Robotics Basics - Modular Design & Behaviour	2. Sustainability & Circular Economy in Manufacturing Sectors	3. Lean Robotics Methodology
4. Circular Business Models for Waste Management	5. Circular Strategy Mapping & Value Networks for Waste Management	6. Product Deployment Cycle & Ecodesign

How e-learning platform will be developed?

CROCEMS Online Course is designed for different groups: VET Teachers, company professionals and technicians. The course is available in English, each of 6 learning units consist of an introduction, related training material, related audiovisual materials and the final assesment procedure.

The CROCEMS collaborative platform will be based on an open online e-learning platform where students and teachers can participate in lessons and share experiences.

Users will have full access to all training materials and interactive solutions like crosswords, quizzes etc.

What CROCEMS platform will contain:

HOME PAGE
<ul style="list-style-type: none"> • Project information • Link to website and Linkedin • Choosing the language • Link to the course
Main menu
<ul style="list-style-type: none"> • Home page • Dashboard • My courses • Knowledge hub
Login page
<ul style="list-style-type: none"> • Log in as a student • Log in as a guest

Visit our website crocems.eu.



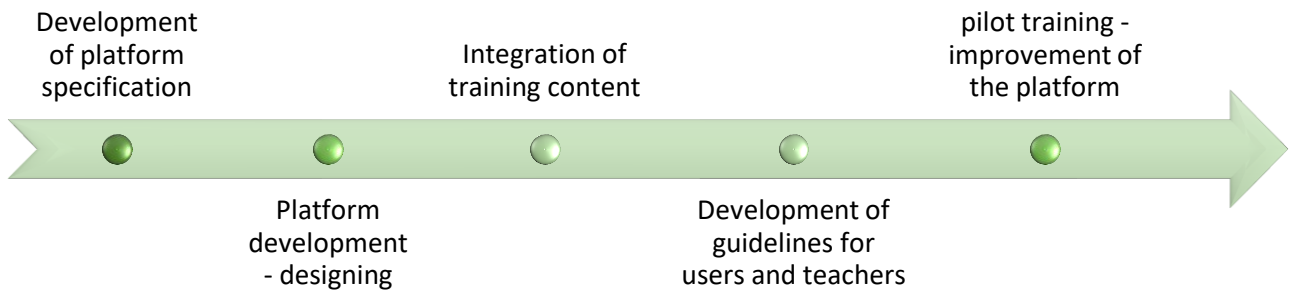
Online learning course

You are invited to go through this great learning experience and learn the needed skills and competencies on collaborative robotics for waste management and circular economy processes.





Development of CROCEMS e-learning platform-phases



Project meetings

Our 3rd transnational project meeting took place in the beautiful city of Vienna, where whole team were hosted by the TU Wien for two days (20-21) in November. All partners prepared presentations of the elements of their work and there were very effective discussions about the common project results regarding:

- Presentation of all the Project Results (with special focus on PR4 Training Content) and the demo project of e-learning platform.
- Presentation of the Management and Financial Status.
- Presentation of the Promotional Activities Status.
- Presentation of the Quality Assurance Status.

All partners also defined the actions for the next year.

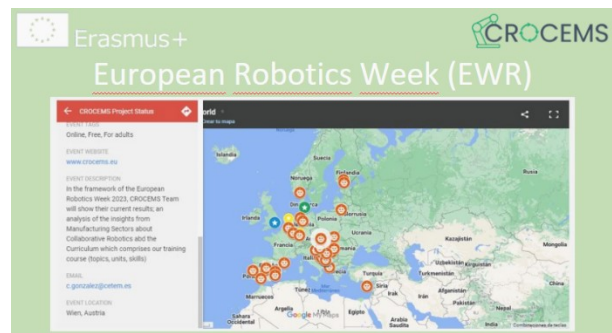


VIENNA



Project events

- 22nd of November 2023 - CROCEMS Event - European Robotics Week online meeting with the interested participants
- ERASMUS DAYS in Spain – Partner from CETEM took part in the event, where was a great opportunity to share experience and ideas with potential future users of the #CROCEMS learning platform.





Who are the partners of the project?

The partnership consists of 5 partners from 5 different European countries.



CETEM - Yecla, Spain

CETEM is a non-profit scientific research and training organization located in the town of Yecla, one of the most important furniture clusters of Spain. CETEM is a project coordinator.



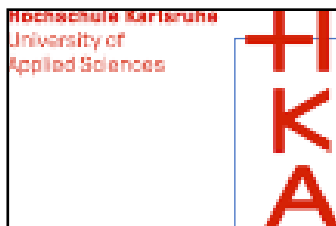
Technical University Wien - Vienna, Austria

The Research Group Ecodesign at the Technical University Wien is in research and education with specific focus on integration of sustainability and circularity aspects into product development since 1993.



ATMOTERM S.A. - Opole, Poland

Atmoterm SA is a Polish, medium-sized company, established in 1981, effectively competing on the international market of intelligent solutions in the field of environmental protection and sustainable development.



HKA - Karlsruhe, Germany

Karlsruhe University of Applied Sciences offers degree programs in the engineering, computer science, business and media fields.



University of Deusto - Bilbao, Spain

The University of Deusto is an HEI of over 125 years, with 11000 students. It is remarkable for its capacity to combine many contrasting elements.

STAY TUNED FOR MORE INFORMATION ON THE PROJECT'S

PROGRESS BY FOLLOWING US: