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*Collaborative Robotics for Circular Economy in Manufacturing Sectors*

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***Dear readers,***

***We are presenting you the 5th issue of the CROCEMS project newsletter!***

***In this edition we are posting the newest information about:***

- CROCEMS training and e-learning platform piloting***
- CROCEMS Blueprint***
- Transnational meeting***
- Multiplier Events***
- Mini project results***

## ***CROCEMS training and e-learning platform piloting***

We have completed the pilot of our training course and e-learning platform. Thanks to the feedback about the [CROCEMS platform](#) and course, Consortium is improving CROCEMS course to meet more the expectations of stakeholders.

Our CROCEMS e-course consists of six training modules including handbooks, interactive exercises, presentations and videos:

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  
Development Cycle  
and Ecodesign



After completion of each of the modules you can obtain a certificate (if you get minimum 75% of the points).

Register here → <https://platform.crocems.eu/>

### *CROCEMS Blueprint*



One of the results of the CROCEMS project is a Blueprint report, defining frames developed for the purpose of integration Collaborative Robotics and Circular Economy in the manufacturing sector.

It defines 5 priorities:

1. inform;
2. fund;
3. guide;
4. connect;
5. train.

Promoting innovative practices such as waste reduction, effective resources use and advanced training programs, CROCEMS Blueprint aims to transform manufacturing into a more circular and regenerative system.



Co-funded by  
the European Union



In relation to the CROCEMS Blueprint, the partners have created a Memorandum of Understanding – an agreement that strengthens the partners' commitment to achieving the CROCEMS project objectives.

**Join us on this toward a sustainable future for manufacturing and sign  
Memorandum of Understanding!**

### Transnational project meeting

On 14-15 January 2025, our international project team met in Bilbao, at the University of Deusto, for the fifth and final transnational meeting of the CROCEMS project, which will end at the end of February. It was a great meeting, where Consortium discussed the project's achievements and planned the final steps.

The meeting focused on:

- The current state of play, especially the pilot tests, user feedback and the improvement of the educational content;
- Organizational issues and the lessons learned from the dissemination events already carried out.
- A Memorandum of Understanding that will engage and keep the industry in touch with the project team.





### Multiplier events

To promote the project, partners organized Multiplier Events, where the project results were discussed in detail.

Events took place in:

- Bilbao (Spain) – 30/10/2024;
- Murcia (Spain) – 19/11/2024;
- Mulhouse (France) – 25/11/2024;
- Opole (Poland) – 28/11/2024;
- Feldkirch (Austria) – 24-25/01/2025.

The events were met with great interest, with over 150 people taking part, who spoke very positively about the presented project results and the e-learning platform, indicating that the topic is very future-oriented, fits in with market trends and provides an opportunity to improve competences free of charge.

### Mini project results



The CROCEMS Consortium announces with pleasure a successful end of CROCEMS Mini Project Competition, which aimed to explore the connection between Circular Economy and Collaborative Robotics.



We received 12 applications from talented teams from different countries. After review, 11 qualified for evaluation. The competition was full of innovative ideas and commitment.

We have selected **5** winners:

1. **First place:** Nimzy Rocha Ayala, Tania Paola Guillén Prado and Maria Saénz Gomez Ortigoza from Mexico, for "Reusable Delivery Package".
2. **Second Place:** Raquel Ortega Martínez from Spain, for "Implementing Product as a Service with Modular Laptops".
3. **Third place:** Jan Olsner, Anton Gorlich and Syed Saigb Ali from Austria, for "Leaf Blower".
4. **Fourth place:** Lan Zixuan, Juan Diego Mora and Umar Bin Khalil of Austria, for "Electric heating fan model TV 3030 Heat R".
5. **Fifth place:** Felix Toperczer, Deniz Antoine Kneer and Roland Stefan from Austria, for the "Carbonator for drinking water".

**Congratulations to the winners and thank you to all participants for your support in innovation and cooperation within the CROCEMS project framework!**

## **MORE INFORMATION ABOUT THE PROJECT :**

