

**The Education, Scholarships, Apprenticeships and Youth  
Entrepreneurship Programme – EEA Grants 2014-2021**  
**Project No:** 21-COP-0019  
**Project Title:** European network for 3D printing of biomimetic mechatronic systems

**REPORT – TRANSNATIONAL PROJECTS MEETING TPM 1**

**Kick-off meeting hosted by Technical University of Cluj-Napoca**

**28 February-01 March 2022**



The first meeting of the EMERALD project, **organized by the Technical University of Cluj-Napoca**, was held in Cluj-Napoca together with the EMERALD partners’ consortium and started with an introduction from each partner involved. In order to ensure that the project will be a success, the objectives of the project were presented and discussed, making sure all partners understood everything. Since this was the kick-off meeting, the project activities and events were also mentioned, as well as the result that should be obtained at the end of the project.

European network for 3D printing of biomimetic mechatronic systems – EMERALD Project Reference: 21-COP-0019 is part of The Education, Scholarships, Apprenticeships and Youth Entrepreneurship Programme – EEA Grants 2014-2021 which was funded within the key action “2021 Cooperation Projects in Higher Education Area”. Technical University of Cluj-Napoca is Lead coordinator of the EMERALD project and the consortium is comprised by Technical Universities and SMEs partners that are coming from Norway, Romania, Poland and Slovakia.

The main objective of the EMERALD project was presented at this meeting and consists in providing teaching resources and methods for professors and students that are coming from the Higher Education institutions and are interested in getting relevant knowledge, skills and competences in the field of 3D printing methods. Through this project, it is possible to boost the scientific excellence in teaching in the field of conceiving and realizing of new types of biomimetic mechatronic systems for people with special needs (with amputated arms).

The meeting began with an introduction from each partner involved (TUCN, UiA, Bizzcom, PUT, UPB), followed by a discussion based on the meeting agenda. In order for every partner to understand the project, the objectives of project were presented and discussed. The project activities and events were also mentioned, as well as the result that should be obtained at the end of the project.



The tasks of the project were presented in detail, starting with Information from the National Agency, Contracts and annexes and project management information, such as the eligibility of the personnel involved in the project (hiring issues) and the collection of activity reports by the coordinator: organization and calendar (timesheets).

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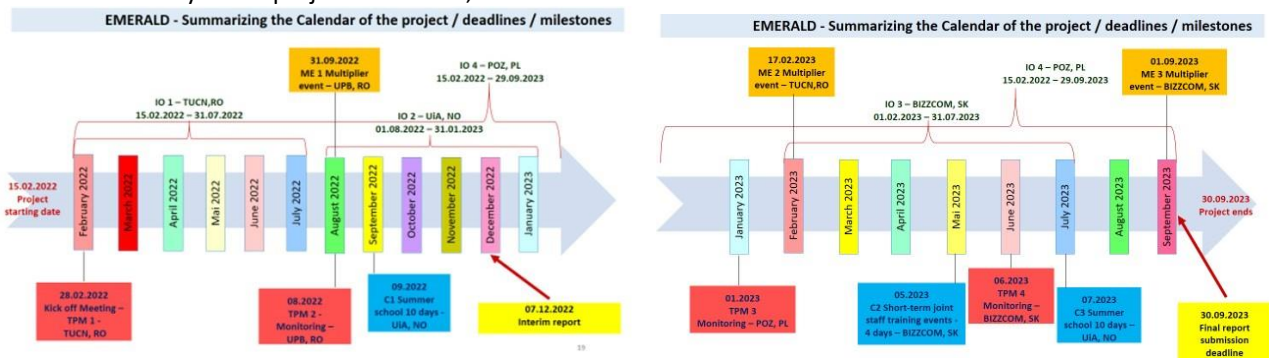
Depending on the type of activity, certain supporting documents have been presented as they must be provided as proof: for project management and implementation – description of activities and outputs in the final report; Transnational project meetings/Multiplier events/Learning, teaching and training activities – attendance list or individual attendance certificates signed by the receiving organization, participants list signed by the participants and the receiving organization, detailed agenda and documents used or distributed at the meeting; Intellectual outputs – proof of the intellectual output produced, proof of the staff time invested (timesheet), employment contracts/voluntary work/SME ownership etc. By the end of March 2022, an official document, from each partner, stating the formal link of the organization was specified that it must be sent to the coordinator.

The following topics were reviewed: the role of the leaders of the intellectual outputs; tools (Microsoft Teams, WhatsApp group); validation of the distribution of tasks, where each partner presented the plan for each activity assigned to them; calendar of the project/deadlines/ milestones. These topics were discussed before the lunch break.

The next topic talked about was the state of the production of the intellectual outputs followed by the continuation of the presentation made by partners, in which they presented the plans for each activity they own.

IO1	EMERALD e-book for developing of biomimetic mechatronic systems	TUCN
IO2	EMERALD e-toolkit manual for digital learning in producing biomimetic mechatronic systems	University of Agder
IO3	EMERALD e-learning VR / AR platform for programming and using biomimetic mechatronic systems	Bizzcom
IO4	EMERALD e-case studies for project based learning method used in developing, testing and manufacturing of new biomimetic mechatronic systems by 3D printing technologies	Poznan University of Technology

Summary of the project’s calendar, deadlines and milestones:



Finally, some general conclusions were drawn from the two-day meeting and the partners presented feedback on the TPM.

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2022

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