

ERASMUS+ STRATEGIC PARTNERSHIP
COMMON RESOLUTION OF PREPARATORY MEETING
08-10-2015 TO 11-10-2015, DUBLIN (IRELAND)
“EUROPEAN CNC-NETWORK – MAGICAL MOVING MACHINE FOR EUROPE”



***The participants of the preparatory meeting for the
“European CNC-Network – Magical Moving Machine for EUROPE”
agreed to the following common resolution:***

1. The participants will work on the basis of the established European CNC-Network.
2. The participants have agreed on a partnership called “European CNC-Network - Magical Moving Machine for EUROPE”. The project is going to begin in 2016 as part of the European programme ERASMUS+ “Strategic Partnership” and will run for three years.
3. The strategic partnership is meant to be open for new members as well as for experienced partners.
4. All the schools that have taken part in the preparatory visits in Ivrea, Italy and in Dublin, Ireland will be included in the planned project (AT, DE, FR, HR, IE, IT, LU, NL, NO, TR). Switzerland and the Heidenhain Company are invited to participate as silent partners.
5. All these partners will bring unique knowledge and skills to the project. Therefore the participation of every member is essential to the success of the project as a whole.
6. All the partners in the European CNC-Network that are not involved in this project will be prioritized in the next project.
7. The participants have selected English as their working language.
8. The partnership will work on product development which is inspired by an entrepreneurial mindset and creative thinking. It will display the complete procedure from the project idea to the final product.
9. Every partner will have to produce one individual Moving Machine which should contain elements provided by each partner school as not all schools would have the capability to produce all parts without support.
10. The individual Moving Machines should also display any type of movement for example rotation, linear movements or oscillation. This should be realized by the use of renewable energy sources.
11. All individual Moving Machines must be working individually and must also work as an essential part of a whole. They must be interconnected to form one final Magical Moving Machine.
12. This Magical Moving Machine will represent the idea of the “European Spirit”.
13. The decision on the overall design will be part of a voting procedure by students at the beginning of the project.
14. The main focus is on product development as a real life case using new training materials and methods e.g. manufacturing prototypes by using a 3D printer.
15. The basic idea of prototyping is to ensure the quality of the future product or to decide on modifications at an early stage of the product development which is a standardized procedure used in industry.
16. After having evaluated the prototype, we will use CNC technology as the main method of production.
17. Every partner school must buy the same assembly kit 3D printer in order to create comparable circumstances. By assembling the printer participants are offered an insight into the technology of 3D printing.



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18. In order to provide supply and assistance, we will try to find industrial partners from the field of CNC, CAD/CAM and 3D printing technology as associate participants in this partnership.
19. Students and teachers should benefit from the exchange of experience by mutual visits.
20. The participants plan to organize six “*Transnational Training Activities*” during the project:
 - Oct/Nov 2016 [NL] Assembling the 3D printer. Presenting ideas, examples and graphics of possible moving elements for the Magical Moving Machines.
 - Mar/Apr 2017 [TR] Exchanging experiences of 3D printing. Discussing and defining framework parameters of the Moving Machines. Discussing details of linking possibilities of the individual Moving Machines.
 - Oct/Nov 2017 [NO] Evaluating CAD drawings and 3D models of linking elements of the individual Moving Machines. Discussing the design and production of common moving elements.
 - Mar/Apr 2018 [IE] Testing, evaluating and improving the prototypes of the common moving elements. Preparing CNC-production programmes.
 - Oct/Nov 2018 [FR] Testing, evaluating, quality control and improvement of the individual Moving Machines and linking elements. Discussing and planning the final presentation.
 - Apr/May 2019 [LU] Assembling and testing the Magical Moving Machine by linking all the individual Moving Machines. Final assembly and presentation.
21. The first meeting should be located in the Netherlands to allow the Ultimaker Company to participate in the first project meeting. All partner schools involved have offered to host a “*Transnational Training Activity*”. During the meeting in Dublin, we have decided on the above mentioned locations for the different meetings. (see paragraph 20).
22. Every “*Transnational Training Activity*” will have to be planned for the duration of five complete days not including arrival and departure days.
23. The partners will apply for funding for a maximum of six participants (two teachers + four students or one teacher + five students) per meeting. The coordinating school may send two more persons.
24. The participants will use and improve the existing internet platform as a basis for a long-lasting communication.
25. Each step of the project requires the continuous engagement of the students.
26. The project should be integrated into in the targets and goals of the curricula for the training programs in the different partner schools.
27. Between the meetings communication among project partners will be mainly internet-based. Therefore, the partners and especially the students should be provided with the technical equipment and methods needed for internet-based communication. Students will therefore have to be enabled to use the different media continuously. Enhancing and improving communication among students is a key element of the partnership.
28. The German partner in Bad Kreuznach will take over the coordination of the project.

The partners are convinced that this project is perfectly suited to work out another successful project supported by the “European CNC-Network”.

The result of our efforts symbolizes the successful cooperation of the different European educational institutes.

We are confident that we have found with this project an excellent example that will increase the “European spirit”.

