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Erasmus+ Programme Key Action 2 Cooperation
Partnerships for Higher Education (KA220-HED)
Agreement number 2023-1-RO01-KA220-HED-000155412

European Network for Additive Manufacturing in Industrial Design for Ukrainian Context

REPORT – ME 2

MULTIPLIER EVENT ON APPLIED RESEARCH METHODS FOR ADDITIVE MANUFACTURING IN INDUSTRIAL DESIGN

hosted by National University of Science and Technology Politehnica Bucharest, Romania
in cooperation with the AMAZE project consortium partners

Date: 18.06.2024, between 9.00-16.00, hall A2.2, Building Politehnica Bucharest Central
Library, address Splaiul Independentei, nr. 313. Bucharest, 060042, Romania

The Second Multiplier Event (ME2) of the project - Agreement number 2023-1-RO01-KA220-HED-000155412, Acronym: AMAZE with the title “*European Network for Additive Manufacturing in Industrial Design for Ukrainian Context*”, Erasmus+ Programme Key Action 2 Cooperation Partnerships for Higher Education (KA220-HED), took place on **18 June 2024** and were participated **24** persons from different institutes (not involved in project and out of Politehnica Bucharest), and were invited professors and students from National University of Science and Technology Politehnica Bucharest. The event was hosted by **National University of Science and Technology Politehnica Bucharest, Romania.**





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The event was attended by representatives of the 4 partners: National University of Science and Technology Politehnica Bucharest - Romania, Poznan University of Technology (PUT) – Poland (on-line MS Teams), Yuriy Fedkovych Chernivtsi National University – Ukraine (on-line MS Teams) and EDIBON International S.A. Madrid – Spain (on-line MS Teams).

The participants at the Multiplier Event ME2, hosted by National University of Science and Technology Politehnica Bucharest, Romania, were from different Romanian research centers as: COMOTI and Ilie Murgulescu Institute of Physical-Chemistry from Romanian Academy, different companies that were interested by AMAZE project results as: Leykom Bucharest, Admasys Targu Mures, NUTechnologies Timisoara, S.C. MGM Star Construct S.R.L. Bucharest, Allio Group Bucharest, Betrandt and students from University of Medicine and Pharmacy Carol Davila, Bucharest and from Politehnica Bucharest.





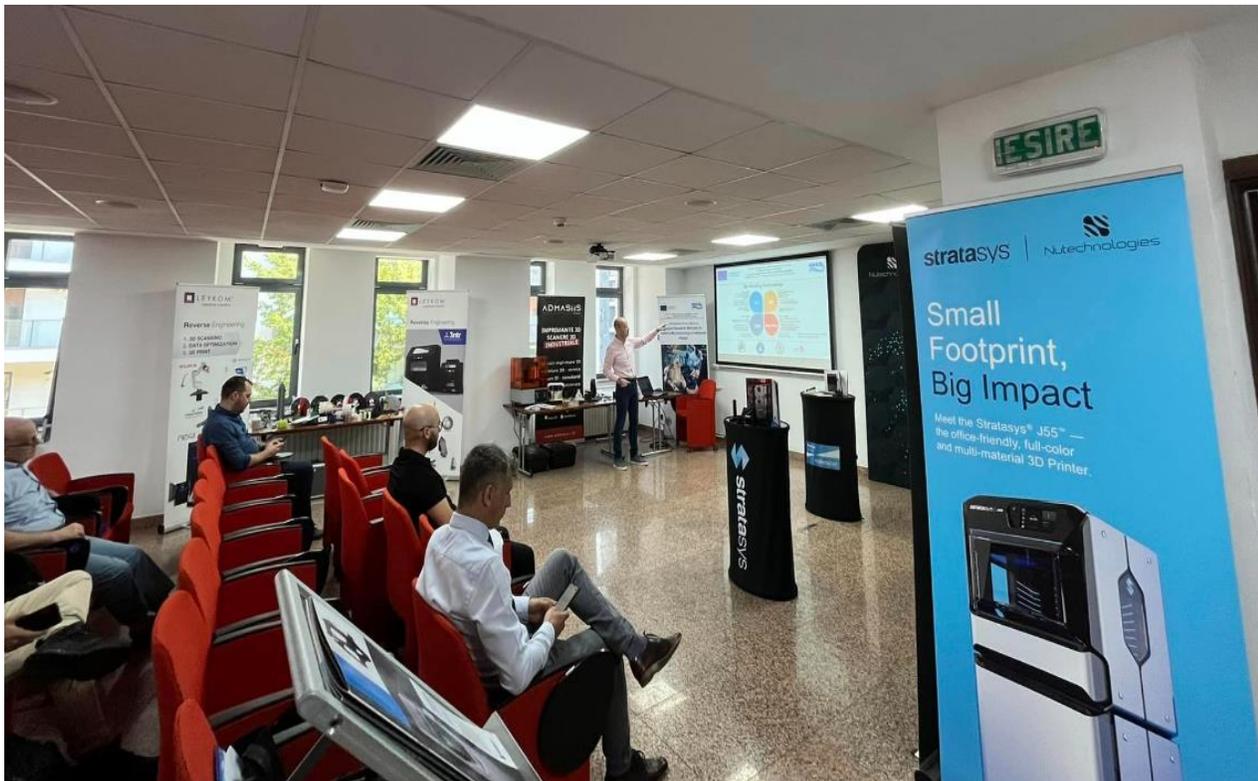
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The Multiplier Event on “*Applied research methods for Additive Manufacturing in Industrial Design*” started at 9.00, having the participants registration, the event opening with Mrs. Assoc.Prof.Dr.Eng. Diana Băilă, the Coordinator of AMAZE project, from National University of Science and Technology Politehnica Bucharest, Romania and was realized the AMAZE project presentation, showing main aims, actions, activities and results of the project.



The coordinator of AMAZE project, Mrs. Assoc.Prof.Dr.Eng. Diana Băilă from National University of Science and Technology Politehnica Bucharest, Romania presented the Intellectual Output 2 (IO2) results concerning the e-toolkit publishing into AMAZE consortium, and the two articles accepted for publishing to the International Conference BRAMAT Brasov, Romania, 2024 and to the International Conference KreativEU Targoviste, Romania, 2024. She presents the new research in Additive Manufacturing domain on superalloy INCONEL and Ti6Al4V metallic powders fabricated by Selective Laser Melting (SLM) technology for the industrial parts, that will be published in 2 articles at International Journals. She presented how can realize a 3D hybrid printer





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(do it yourself) and the electrical compounds necessary that is presented in Sensors and Electronics chapter form AMAZE e-toolkit, in IO2.



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MULTIPLIER EVENT OF APPLIED RESEARCH METHODS FOR ADDITIVE MANUFACTURING IN INDUSTRIAL DESIGN

Organized by National University of Science and Technology POLITEHNICA Bucharest, Romania in cooperation with the AMAZE project consortium partners

Agenda Schedule

Date: 18.06.2024, between 9.00-16.00, Central Library - UNSTPB, sala 2.2, starting at 9.00, Bucharest, Romania

Table with 2 columns: Hour and Activity. It lists the event schedule from 9:00 to 16:00, including registration, presentations by various partners, a coffee break, and a Q&A session.





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Mrs. Prof. Mariana Borcha from Yuriy Fedkovych Chernivtsi National University – Ukraine presented her institution and research interests and disseminated the AMAZE project results for IO2 (Intellectual Output 2) concerning the smart (intelligent) materials and CAD/CAM/CAE design for the complex industrial and architectural parts, that were explained in the e-toolkit chapters, Yuriy Fedkovych Chernivtsi National University having very high competences in Industrial Design and Architecture fields.

Mr. Prof. Remigiusz Łabudzki from Poznań University of Technology from Poland presented his institution and their research experiences in Reverse Engineering, Smart (Intelligent) Materials, Industrial Design, and in Additive Manufacturing, for Intellectual Outputs 2 (IO2), Poznań University of Technology having a great experience in Additive Manufacturing and in Reverse Engineering technics.

At 11.30, was realized a Coffee Break.





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EDIBON International company, represented by Mr. Fernando Martinez and Mr. Sergio Vizcaino Sanz, presented the e-toolkit chapters in the Virtual Reality/Augmented Reality platform and in the Computer Programming fields, realized into AMAZE project.

Mr. Prof.Dr.Eng. Zaharia Cătălin from National University of Science and Technology Politehnica Bucharest, Romania, realized the presentation concerning the Additive Manufacturing e-toolkit, with the title: *“Advancing Industries: Polymeric Materials in Additive Manufacturing”*.

Mr. Prof.Dr.Eng. Dumitrescu Andrei from National University of Science and Technology Politehnica Bucharest, Romania, sustained the presentation, having the title: *“Industrial Design – Vector for Product Meaning”*.

The special guests of this Multiplier Event ME2, were three great companies specialized in Additive Manufacturing and in Reverse Engineering and that presented their companies and participated with 3D scans, 3D printers and different new prototypes and materials, as: NUTechnologies Timisoara (Mr. Gabreanu Marius and Mr. Subtire Ovidiu), Admasys Targu Mures (Mr. Barocz Magor) and Leykom Bucharest (Mr. Dragos Voineag).

At the final project was realized the round table discussions about the future potential collaboration with the companies in the Industrial Design, Additive Manufacturing, Robotics, with Mrs.Assoc.Prof.Dr.Eng. Diana Băilă and the event participants.

All research centers and companies participants, respectively professors and students assisted to this impressive Multiplier Event ME2, hosted by National University of Science and Technology Politehnica Bucharest, and were interested by the AMAZE project results.

After that were realized the final conclusions.

More information about AMAZE project - **Agreement number 2023-1-RO01-KA220-HED-000155412** can be found on the following link: www.amaze2023.eu.

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18.06.2024, Bucharest, Romania

