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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



National University of Science and Technology POLITEHNICA Bucharest

Assoc. Prof. Dr. Eng. Băilă Diana-Irinel
University POLITEHNICA of Bucharest, Romania
Faculty of **Industrial Engineering and Robotics**



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***European Network for Additive Manufacturing in Industrial Design for
Ukrainian Context – Acronym AMAZE***

Project Partners:

- 1- National University of Science and Technology Politehnica Bucharest – Project Coordinator:
Assoc.Prof. Diana Băilă**
- 2- Yuriy Fedkovych Chernivtsi National University (Ukraine) – Mr. Dean Prof. Igor Fodchuk**
- 3- Poznan University of Technology (Poland) – Project Responsible Mr. Prof. Remigiusz Labudzki**
- 4- Edibon International S.A. (Spain) – Project Responsible Mrs Myrian Judit Bonilla**





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Ana Blandiana (Romanian poet)
– The bouquet of flowers





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Summer School – Bucharest- 8-17 July 2024

Dracula Castle – Bran, Romania





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Summer School – Bucharest- 8-17 July 2024

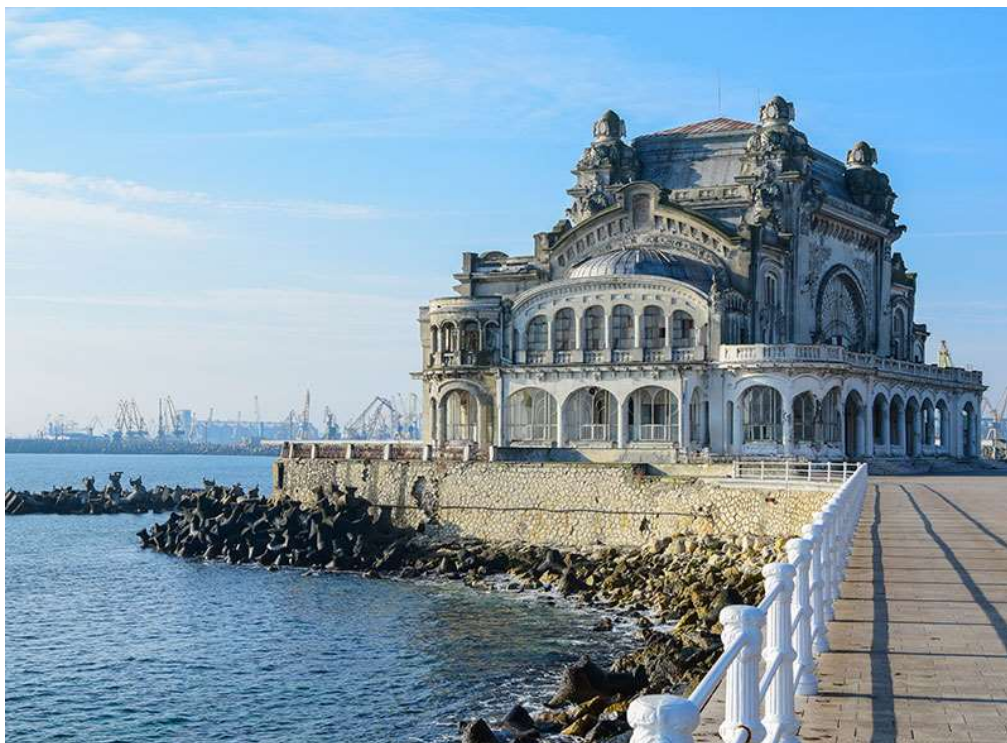
Peleș Castle – Sinaia, Romania





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Summer School –
Bucharest- **8-17 July 2024**
Black Sea





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Summer School – Bucharest- **8-17 July 2024**

Casa Poporului, Bucharest, Romania Castelul Kretulescu, Bucharest, Romania





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National University of Science and Technology POLITEHNICA Bucharest (UNSTPB) is the oldest and most prestigious engineer school in Romania.

At present the University **POLITEHNICA** of Bucharest is formed by 15 different faculties.

Most faculties are equipped with 3d printers that used FDM, DLP and SLA technologies.

In the Campus research center of University POLITEHNICA of Bucharest is the best performing 3d bioprinter from Romania.

www.upb.ro





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Firma ZSpot Media – RegenHU 3D Discovery



<https://www.bioprintere.ro/bioimprimanta-3d-performanta-universitatea-politehnica-bucuresti/>

<http://campus.pub.ro/website/fluide-nanostructures-and-soft-nanomaterials>



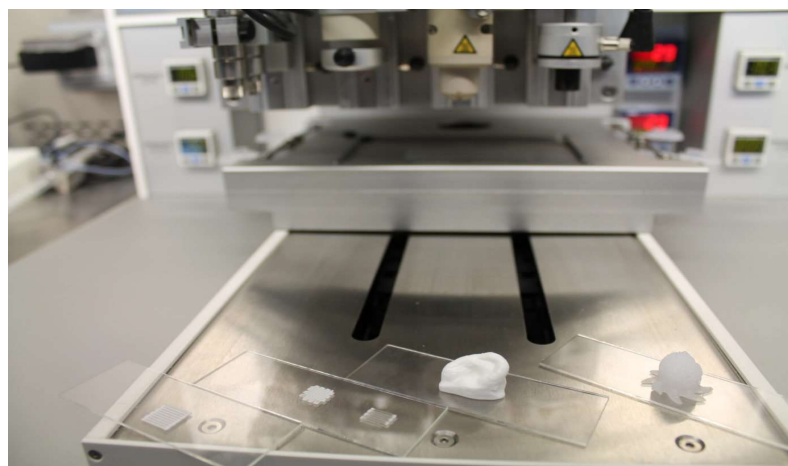


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Instruments, objects printed, 5 heads for bioprinting



<https://www.bioprintere.ro/bioimprimanta-3d-performanta-universitatea-politehnica-bucuresti/>



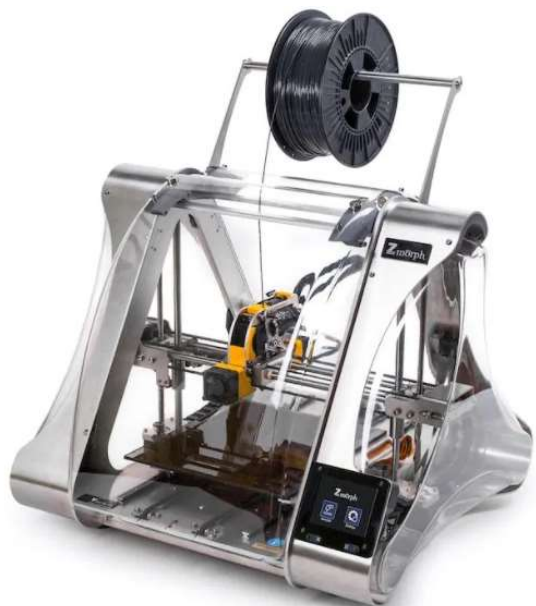


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3D Printers that will be used in AMAZE Project - University POLITEHNICA of Bucharest



Hybrid 3D Printer Zmorph 2.0 SX Full SET
- FDM (Fused Deposition Modeling)



Photocentric Liquid Crystal
- DLP (Digital Light Processing)



Phenix Systems – PXS&PXM
- DMLS (Direct Metal Laser Sintering) –
collaborating company)





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National University of Science and Technology Politehnica of Bucharest,
Hosts Kick off Meeting for Erasmus+ project for university cooperation.

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

KICK OFF MEETING

Specializations:

- Manufacturing Engineering
- Mechatronics & Robotics
- Mechanical Engineering
- Computer Science & Automatics
- Science of Materials

Who can participate?

- Students (BSc/MSc/PhD)
- Professors/Researchers
- Companies/R&D Institutes

27-29 November 2023

On this occasion, we invite professors, researchers, students from UNSTPB and from other institutions to the **Kick off Meeting**.
The event will take place between November 27-29, 2023, at the UNSTPB Central Library, floor II, room 2.3, starting at 09.00.



Kick off Meeting – Transnational Project Meeting TPM1 – UNSTPB Bucharest, 27-29 nov 2023

The dissemination of the event on the website:

<https://upb.ro/unstpb-anunta-lansarea-proiectului-international-erasmus-european-network-for-additive-manufacturing-in-industrial-design-for-ukrainian-context-amaze/>



UNSTPB anunță lansarea Proiectului International Erasmus + – European Network for Additive Manufacturing in Industrial Design for Ukrainian Context – AMAZE

Universitatea Națională de Știință și Tehnologie Politehnica București prin intermediul Facultății de Inginerie Industrială și Robotică, derulează proiectul internațional Erasmus+ de cooperare universitară:

"European Network for Additive Manufacturing in Industrial Design for Ukrainian Context", AMAZE – Nr.contract 2023-1-RO01-KA220-HED-000155412

Cu această ocazie invităm cadre didactice, cercetători, studenți din UNSTPB și de la alte instituții la Conferința de lansare a proiectului (Kick off meeting).

Evenimentul va avea loc în perioada 27-29 noiembrie 2023,

la Biblioteca Centrală UNSTPB, etaj II, sala 2.3,

începând cu ora 09.00.

Atașat se regăsește **Agenda Kick-off-Meeting**.

Pot participa:

- Studenți – Licență / Master / Doctorat
- Profesori și cercetători
- Companii & Institute de cercetare

Alte știri :

Ediția a XIX-a a Simpozionului
International SME 2023



CARTA Universității Naționale de
Știință și Tehnologie
POLITEHNICA București...



Facultatea de Electronică,
Telercomunicații și Tehnologii



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Kick off Meeting – Transnational Project Meeting TPM1 – UNSTPB Bucharest, 27-29 nov 2023

The dissemination of the event on the facebook:

<https://upb.ro/unstpb-anunta-lansarea-proiectului-international-erasmus-european-network-for-additive-manufacturing-in-industrial-design-for-ukrainian-context-amaze/>





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Kick off Meeting – Transnational Project Meeting TPM1 – UNSTPB Bucharest, 27-29 nov 2023



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Project Agenda:



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Programme in Romania Financed by Erasmus+
2023 Cooperation Projects in Higher Education Area (KA220-HED)
AMAZE - European Network for Additive Manufacturing in Industrial Design for Ukrainian
Context, contract no. 2023-1-RO01-KA220-HED-000155412

Transnational Project Meeting – TPM 1

KICK-OFF MEETING hosted by National University of Science and Technology
Politehnica Bucharest - UNSTPB

27th – 29th of November 2023 – Bucharest/ROMANIA

Monday 27th November - Room 2.3, Central Library - UNSTPB, starting at 9:00

Partners presentation

1. Information/Bilateral contracts

- 1.1 Information from National Agency
- 1.2 Contracts and annexes

2. Project management:

- 2.1 Eligibility of the staff members involved in the project (hiring issues)
- 2.2 Collection of activity reporting by the coordinator: organization and calendar (timesheets)

10:30 - 10:45 Coffee break

- 2.3 Role of the leaders of Intellectual Outputs
- 2.4 Tools (Microsoft Teams, WhatsApp group)
- 2.5 Validation of the distribution of tasks - Each partner will present the plan for each activity they have ownership - Part 1
- 2.6 Calendar of the project/deadlines/milestones

13:00 - 14:00 Lunch

- 2.9 State of progress of the production of the Intellectual Outputs
- 2.10 Validation of the distribution of tasks - Each partner will present the plan for each activity they have ownership - Part 2
- 2.11 Laboratory visit.

16:00 End of the session

Tuesday 28th of November – Room 2.3, Central Library - UNSTPB, starting at 9:00

3. Mobilities project

- 3.1 Short-term joint staff training: who? which dates?
- 3.2 Intensive Programmes for higher education students: who? which dates?

10:30 - 10:45 Coffee break

- 3.3 Communication in our institutions / How to involve colleagues in the project

- 3.4 Calendar of the next events

- 3.5 Evaluation of the project

13:00 - 14:00 Lunch

- 3.6 Mutual presentation for new incomers in the meeting
- 3.7 Validation of the distribution of tasks - Each partner will present the plan for each activity they have ownership – Part3.

- 3.8 Laboratory visit

16:00 End of the session

Wednesday 29th of November – Research Center CAMPUS -UNSTPB, starting at 9:00

- 4.1 Partners experience in Industrial Design/3D printing: general feedback
- 4.2 Conclusions
- 4.3 Laboratory visit

11:30 End of the Transnational Project Meeting.



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Project activities– www.amaze2023.eu

AMAZE

Home Project Products Events Media Reports Partners Contact

Erasmus+
Schimbă vieți! Deschide minți!

AMAZE kick-off meeting
Bucharest
27-29 Nov 2023

Flyer
Agenda
Minutes
Dissemination

WHO CAN APPLY
-students (BSc / Msc / PhD)
-professors / researchers
-companies / R&D Institutes

Specializations:
- Manufacturing Engineering
- Industrial Design & Architecture
- Mechatronics & Robotics
- Mechanical Engineering
- Computer Science & Automatics
- Science of Materials

25th April
2024

NEXT !!!
1st Multiplier Event
Madrid, Spain
25 Apr 2024

Flyer

Staff Training period
7-10.05.2024

Agreement number 2023-1-RO01-KA220-HED-000155412
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To come ...
Staff training session
Madrid, Spain
7 - 10 May 2024

Flyer

EU funded by the Erasmus+ KA220-HED

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MULTIPLIER EVENT OF RESEARCH BASE LEARNING METHOD FOR TEACHING IN ADDITIVE MANUFACTURING FOR INDUSTRIAL DESIGN

Organized by EDIBON International S.A., Madrid, Spain
in cooperation with the AMAZE project consortium partners

Agenda Schedule

Date: 25.04.2024, between 9.00-16.00, c/ Julio Cervera 10, Móstoles, Technological Park, 28935, Madrid (Spain)

Hour	Activity
9.00	Registration of participants to the Multiplier Event
9.15	Opening and Welcome ceremony – EDIBON International S.A. company, Madrid, Spain Mrs. Director Miriam Bonilla
9.40	AMAZE Project Presentation Assoc. Prof. Diana Băluș (National University of Science and Technology Politehnica Bucharest, Romania)
10.00	Case Study – Specific Elements in AMAZE Project Assoc. Prof. Diana Băluș (National University of Science and Technology Politehnica Bucharest, Romania)
10.20	Intelligent (Smart) Materials used in Industrial Design - Yuriy Fedkevych Chernitskiy, National University, Ukraine Mr. Don Prof. Ines Zolotarek Mrs. Prof. Mariana Barbu
10.50	Applied research teaching methods for additive manufacturing in industrial design, Poznan University of Technology, Poland Prof. Remigiusz Łabęcki
11.30	Coffee Break
12.00	Visiting of International EDIBON S.A. company
13.00	Intelligent (Smart) Materials used in Additive Manufacturing Prof. Zaharia Cițuș (National University of Science and Technology Politehnica Bucharest)
13.15	Robotics used in Industry 4.0 - Prof. Filippo Santillo (University of Aler, Norway)
14.00	LEYKOM Company, Bucharest, Romania - Presentation (Additive manufacturing and different 3D parts: SLM, SLS, etc.)
14.30	Industrial Design – Vector for Product Meaning Prof. Andrei Dumitrescu (National University of Science and Technology Politehnica Bucharest)
15.00	Q&A with partners comments and discussions on the possibility of joining different projects / EU consortium / Horizon Europe open calls Visiting Closing words - ending of Multiplier Event / Press Conference
16.00	Light lunch

20th Anniversary

16



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Project activities– www.amaze2023.eu



To come ...

2nd Transnational Project Meeting

Poznan, Poland
10 -12 Jun 2024

Flyer



To come ...

2nd Multiplier Event

Bucharest, Romania
18 Jun 2024

Flyer



To come ...

3rd Multiplier Event

Chernivtsi, Ukraine
20 Jun 2024

Flyer





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Project activities– www.amaze2023.eu



To come ...

Summer School

Bucharest, Romania
8 - 17 Jul 2024

[Flyer](#)



To come ...

3rd Transnational Project Meeting

Madrid, Spain
4 - 6 Sep 2024

[Flyer](#)



To come...

4th Multiplier Event

Poznan, Poland
4 Nov 2024

[Flyer](#)





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Kick off Meeting – Transnational Project Meeting TPM1 – UNSTPB Bucharest, 27-29 nov 2023

Project Results:

Results: What project results and other outcomes do you expect your project to have?

The project will achieve the following results: IO1 – AMAZE e-book for developing of complex design industrial parts, IO2 – AMAZE e-toolkit manual for digital learning in producing of complex design industrial parts, IO3 – AMAZE e-learning VR/AR platform, IO4 – AMAZE e-case studies.

- 1 open acces book
- 1 open acces toolkit manual
- 2 academic **papers** (in journals with high visibility, open-acces) and 2 **papers** in International Conference open-acces and 1 patent submitting application.



AMAZE Project Results

Project Results: 2 articles accepted for publishing in International Conferences

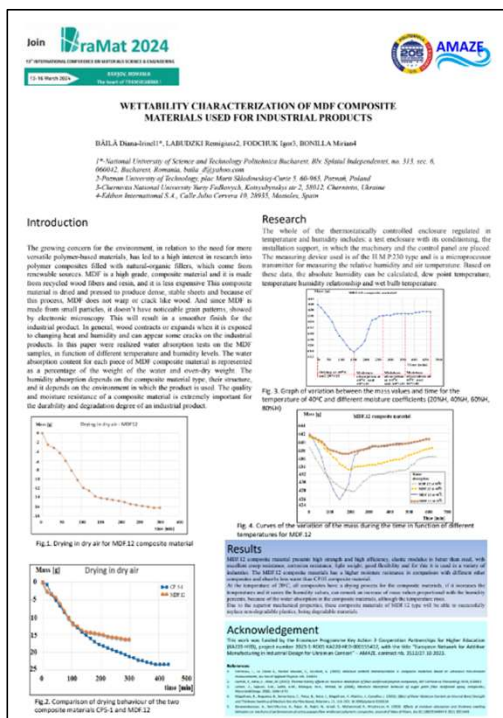
– BRAMAT 2024, Brasov, Romania, 13-16 March 2024
- KreativEU 2024, Targoviste, Romania, 16-17 may 2024

Acceptance Notification



Diana Irinel Băilă
Igor Fodchuk
Remigiusz Łabudzki
Myrian Bonilla

ACCURACY OF SLA AND MATERIAL MORPHOLOGY USED IN ARCHITECTURE





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Project Budget

Expenditure	Grant (Euro)
1, Project management and implementation	23978
2. Short term transnational mobility activities of ind	40382
3 Intellectual outputs	43040.00
4, Multiplier events	12600
5. Special needs	0
6, Exceptional costs	0
Total requested from EEA Grants 2014-2021	120000.00





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Project workpackages:

IO1 - AMAZE e-book for developing of complex design industrial parts (15.11.2023 – 14.03.2024) – Leading organisation - UNSTPB

IO2 - AMAZE e-toolkit manual for digital learning in producing complex design industrial parts (15.03.2024 – 14.06.2024) – Leading organisation CHNU

IO3 - AMAZE e-learning VR/AR platform for virtual laboratory (15.06.2024 – 14.09.2024) - Leading organisation Edibon International S.A.

IO4 – AMAZE e-case studies for project-based learning method used in developing, testing and manufacturing of customized industrial parts by Additive Manufacturing technologies (some 3D models, cases of design or architectural models) (15.09.2024-14.11.2024) – Leading organisation PUT

Project Management and Dissemination Results (15.11.2023 – 14.11.2024)





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Project workpackages:

IO1 - AMAZE e-book for developing of complex design industrial parts (15.11.2023 – 14.03.2024) – Leading organisation – UNSTPB

comprising the next module courses:

- 1-Additive Manufacturing (UPB); - UPB
- 2-Smart (Intelligent) Materials (YFCNU+PUT); - YFCNU
- 3-CAD/CAM/CAE design (YFCNU);
- 4- Reverse Engineering (PUT);
- 5-Computer Programming (Edibon);
- 6-Sensors and Electronics (UPB); - UPB
- 7-Virtual Reality/Augmented Reality (Edibon)

Multiplier EVENT ME1 -1 day (40 persons from different companies and 8 foreigners) – EDIBON International S.A. – 25th April 2024





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Kick off Meeting – Transnational Project Meeting TPM1 – UNSTPB Bucharest, 27-29 nov 2023

Project workpackages:

IO2 - AMAZE e-toolkit manual for digital learning in producing complex design industrial parts (15.03.2024 – 14.06.2024) – Leading organisation CHNU

comprising the next toolkit modules:

- 1-Additive Manufacturing (UNSTPB);
- 2-Smart (Intelligent) Materials (YFCNU+PUT);
- 3-CAD/CAM/CAE design (YFCNU);
- 4- Reverse Engineering (PUT);
- 5-Computer Programming (Edibon);
- 6-Sensors and Electronics (UNSTPB);
- 7-Virtual Reality/Augmented Reality (Edibon)

Multiplier Events:

ME2 – 1 day hosted by UNSTPB (ROM) (20 persons out from UNSTPB) and 18 June 2024

ME3 – 1 day hosted by YFCNU (UKR) (20 persons from outside of university) – 20 June 2024

Training staff feedbacks EDIBON (SP) during 4 days, participating from each partner institution 4 persons (in total 16 persons) – 7 May – 12 May 2024

For TPM2 –hosted by PUT (POL) will participate 2 staff, professors, key persons by each institution involved in project (Total 8 pers) and others – 3 days (10 – 12 June 2024)





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Project workpackages:

IO3 - AMAZE e-learning VR/AR platform for virtual laboratory (15.06.2024 – 14.09.2024) - Leading organisation Edibon International S.A.

Summer School feedbacks given by students and staffs involved in AMAZE project – **UNSTPB** – 10 days (staffs and students) – **8-17 July 2024**

TPM3 (3 days), hosted by **Edibon** company (8 persons – 2 persons/institution) – **4-6 sep 2024**





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Kick off Meeting – Transnational Project Meeting TPM1 – UNSTPB Bucharest, 27-29 nov 2023

Project workpackages:

IO4 – AMAZE e-case studies for project-based learning method used in developing, testing and manufacturing of customized industrial parts by Additive Manufacturing technologies (some 3D models, cases of design or architectural models) **(15.09.2024-14.11.2024) – Leading organisation PUT**

Multiplier Event ME4 realized at **PUT (POL)**, having invited 20 persons from different companies, universities, research centers (out of PUT) and 5 foreigner's participants – **4 nov 2024**





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HUMAN RESOURCES - UNSTPB

Researchers

- Prof.Habil.Dr.Eng. IONESCU Nicolae - FIIR
- Prof.Dr.Eng. SAVU Tom - FIIR
- Prof.Dr.Eng. DUMITRESCU Andrei - FIIR
- Prof.Dr.Eng. ZAHARIA Cătălin
Dep Bioresources and Polymer Science
- Assoc.Prof.Dr.Eng. GHIONEA Gabriel
-Ionuț - Faculty IIR
- Lect.Dr.Eng. Radu Ionuț-Cristian
Dep Bioresources and Polymer Science
- Drd.Eng. JUGRAVU Bogdan-Alexandru
Faculty IIR
- Drd. Eng. TRUȘCĂ Roxana Doina
- Dr. Eng. NICOARĂ Adrian Ionuț
- Cs. Dr. VASILE Otilia Ruxandra



Management and Implementation

- Assoc.Prof.Dr.Eng. BĂILĂ Diana-Irinel – Project Coordinator
Faculty IIR
- Ec. CĂLDĂRUȘ Florina – Financial Responsible
Rectorat
- Ec. DIACONU Nicoleta - Salary Financial Responsible
Rectorat
- Ec. PĂTRAȘCU Nicoleta- Responsible for human resources
Rectorat





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Researchers

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- Prof.Dr.Eng. SAVU Tom - FIIR
- Prof.Dr.Eng. DUMITRESCU Andrei - FIIR
- Prof.Dr.Eng. ZAHARIA Cătălin
Dep Bioresources and Polymer Science
- Assoc.Prof.Dr.Eng. GHIONE Gabriel
-Ionuț - Faculty IIR
- Lect.Dr.Eng. Radu Ionuț-Cristian
Dep Bioresources and Polymer Science
- Drd.Eng. JUGRAVU Bogdan-Alexandru
Faculty IIR
- Drd. Eng. TRUȘCĂ Roxana Doina
- Dr. Eng. NICOARĂ Adrian Ionuț
- Cs. Dr. VASILE Otilia Ruxandra



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- Ec. DIACONU Nicoleta - Salary Financial Responsible
Rectorat
- Ec. PĂTRAȘCU Nicoleta- Responsible for human resources
Rectorat





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Dissemination Results

SLS – material PA12

FDM – PEEK, PLA, PLA Silk Rainbow, PLA Silk Like Kingfisher Rainbow Colours (Silicone properties)

DLP, SLA – biocompatible photopolymer resins

DMLS/SLM – Ti6Al4V, superalloys INCONEL and Co-Cr

Analysis Test recommended for the materials used for the components:

SEM (Scanning Electron Microscopy)

TEM (Transmission Electron Microscopy)

EDAX (Energy Dispersive X-ray Analysis)

XRD (X-Ray Diffraction)

FTIR (Fourier Transform Infrared Spectroscopy)

RAMAN (Raman Spectroscopy)

AFM (Atomic Force Microscopy)

Contact angle test

Mechanical tests



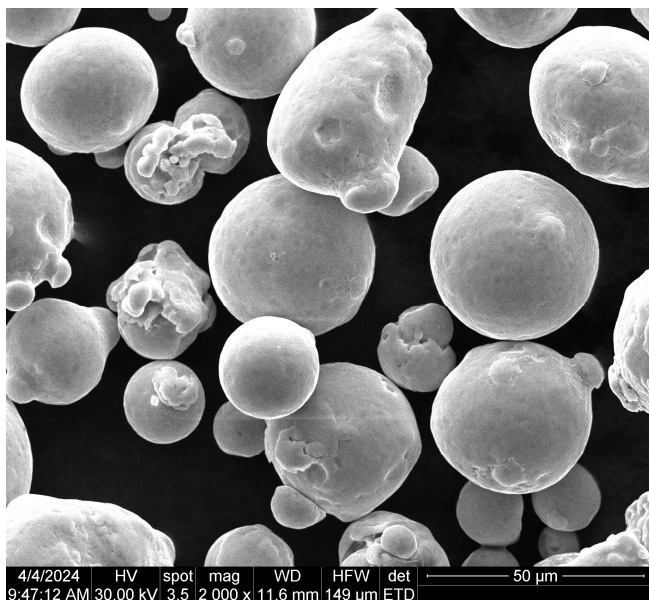


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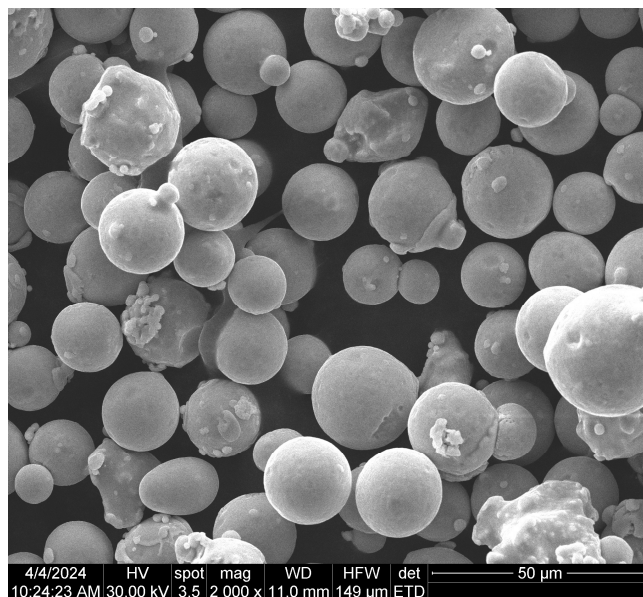
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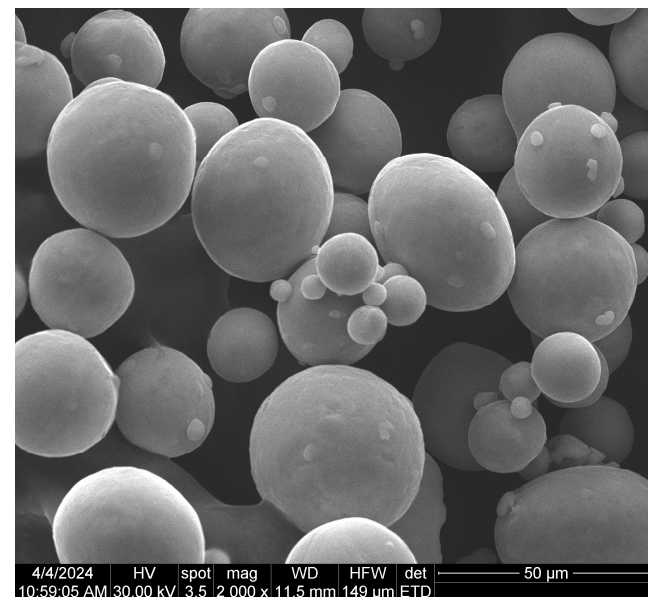
Metallic powders used in SLM (SELECTIVE LASER MELTING)



625 INCONEL



718 INCONEL



Ti6Al4V



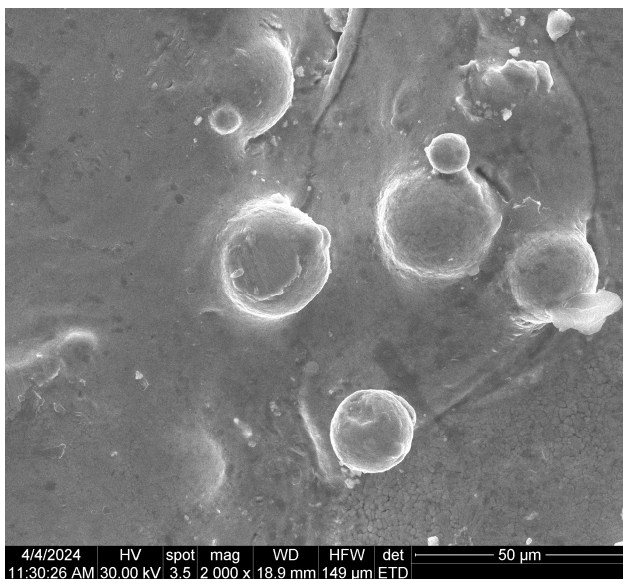


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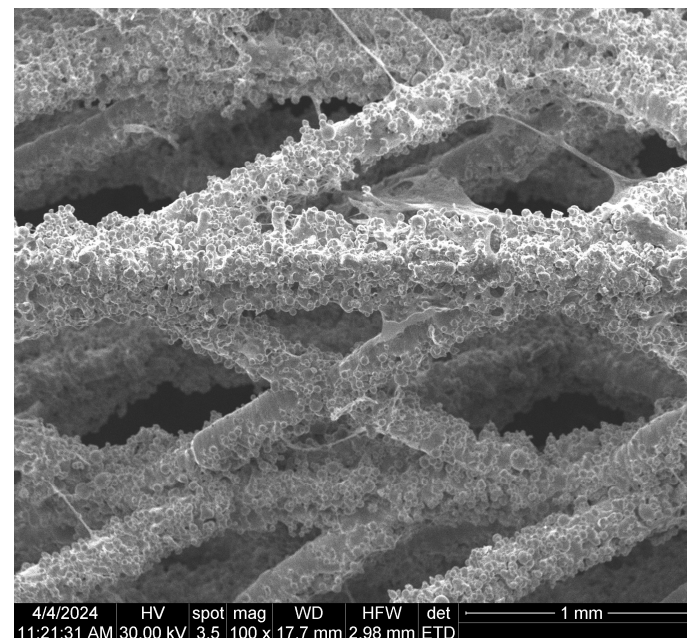
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Sintered parts used in SLM (SELECTIVE LASER MELTING)



625 INCONEL



Ti6Al4V



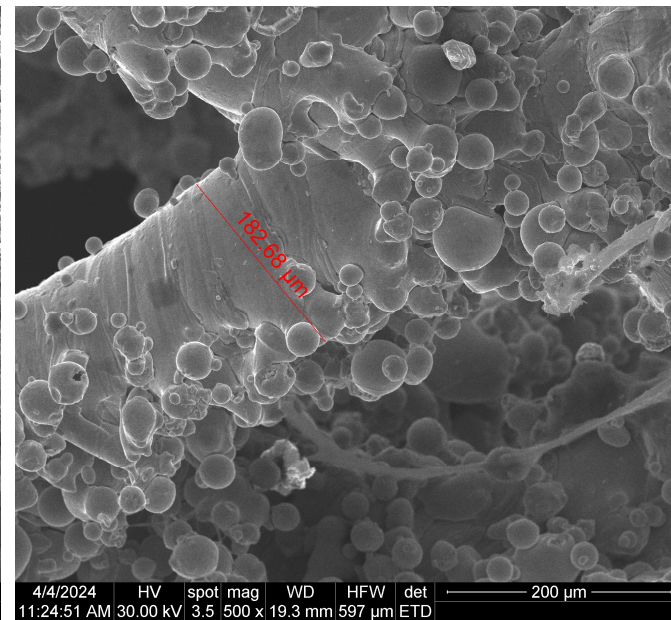
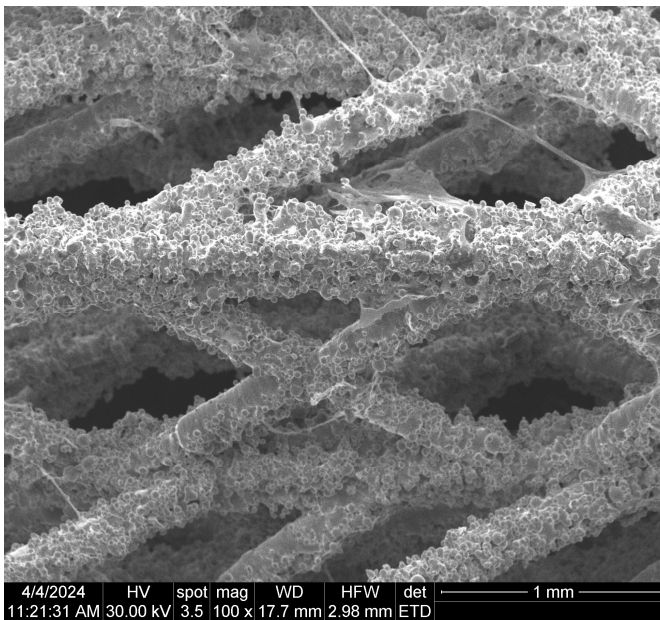
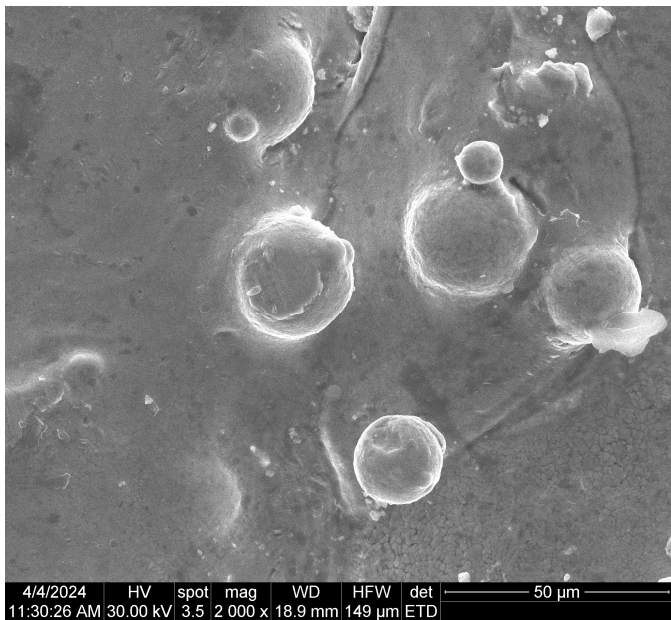


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Sintered parts used in SLM (SELECTIVE LASER MELTING)



625 INCONEL



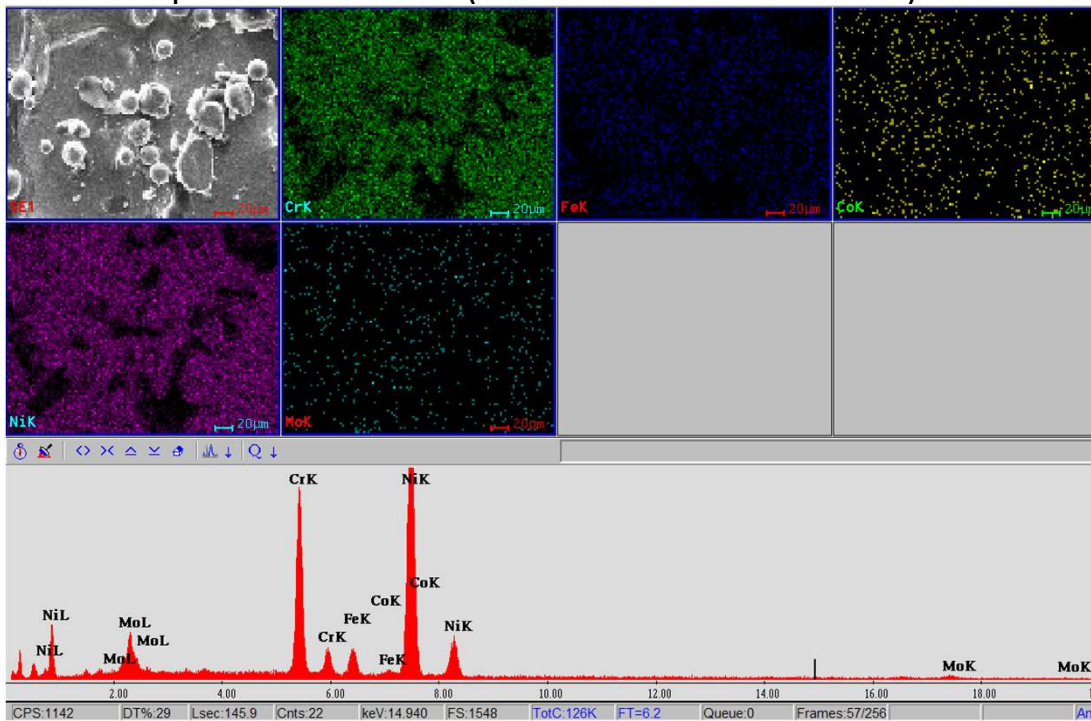


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Sintered parts used in SLM (SELECTIVE LASER MELTING)



625 INCONEL



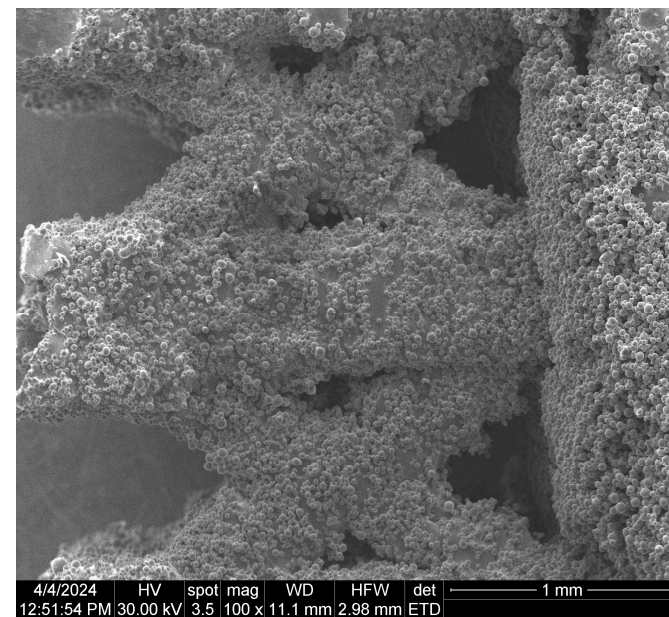
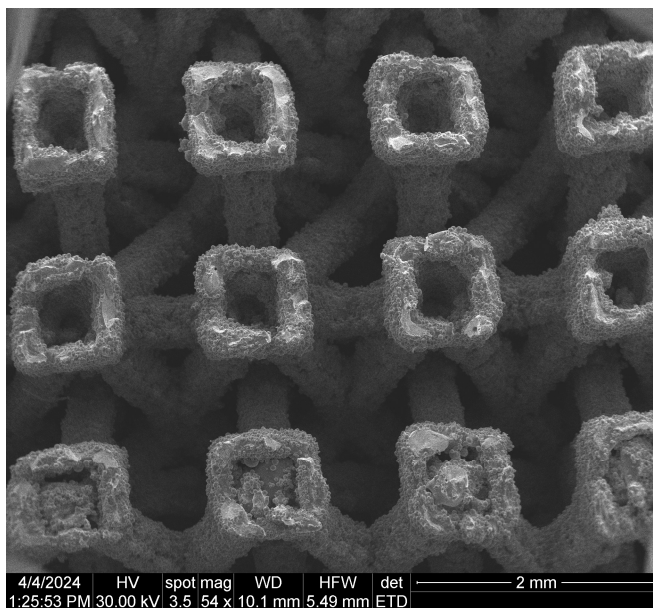
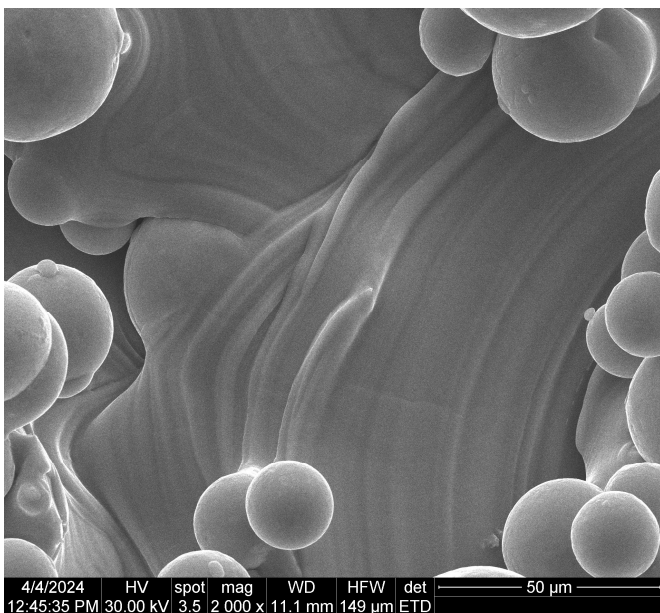


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Ti6Al4V



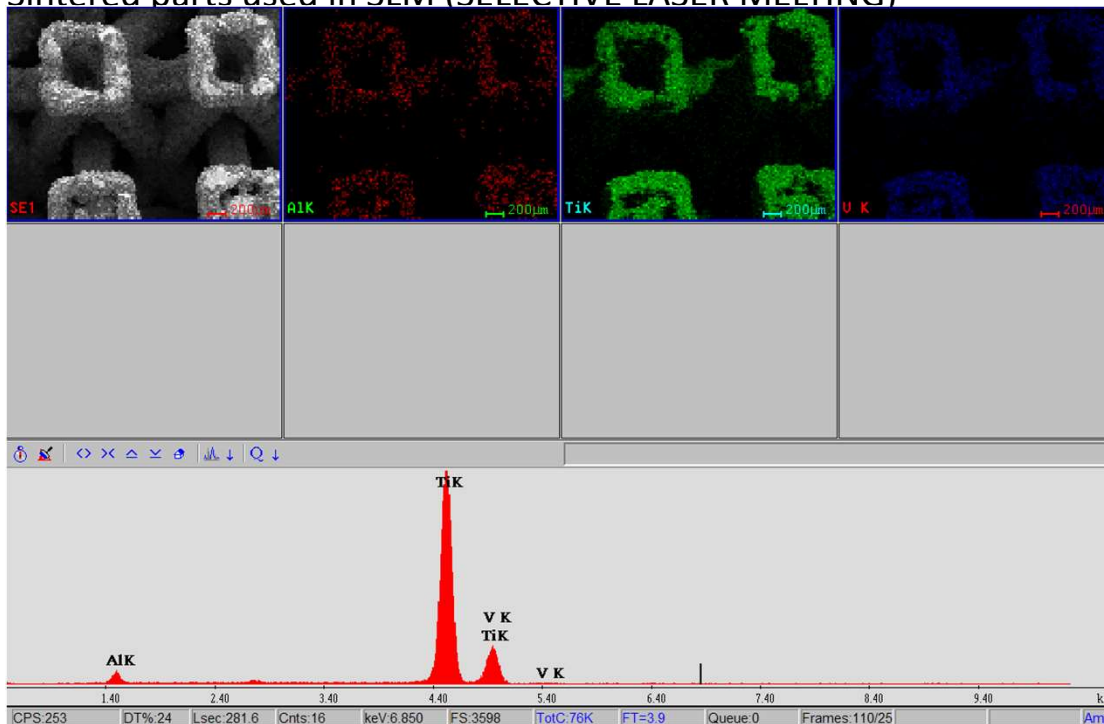


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Sintered parts used in SLM (SELECTIVE LASER MELTING)



Ti6Al4V





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AMAZE PROJECT - RESEARCH DIRECTIONS

This project will lead to the opening of new topics and research directions that will be capitalized in projects such as:

- HORIZON 2020
- CORDIS EU
- EEA GRANTS
- EUROSTARS (EUREKA)
- TEMPUSV
- ERASMUS-MUNDUS ACTION3, etc.



Thank you!

Thank you!