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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



Transnational Project Meeting TPM2

Poznań University of Technology, Poland

10 – 12 June 2024

Assoc. Prof. Dr. Eng. Băilă Diana-Irinel

National University of Science and Technology POLITEHNICA Bucharest, Romania

Faculty of **Industrial Engineering and Robotics**



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for Higher Education (KA220-HED)

Agreement number 2023-1-RO01-KA220-HED-000155412



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

Project Partners:

- 1- National University of Science and Technology Politehnica Bucharest (Romania) – 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 Mirian Judit Bonilla





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European Network for Additive Manufacturing in Industrial Design for Ukrainian Context



Project activities– www.amaze2023.eu



AMAZE kick-off meeting

Bucharest
27-29 Nov 2023

[Flyer](#)
[Agenda](#)
[Minutes](#)
[Dissemination](#)



1st Multiplier Event

Madrid, Spain
25 Apr 2024

[Flyer](#)
[Agenda](#)
[Minutes](#)
[Report](#)



Staff training session

Madrid, Spain
7 - 10 May 2024

[Flyer](#)
[Agenda](#)
[Minutes](#)
[Report](#)

[Transnational Kick-off meeting Report](#)

[1st Multiplier Event Report - Madrid, Spain, 25 Apr 2024](#)

[Staff training session Report - Madrid, Spain - 7-10 May 2024](#)



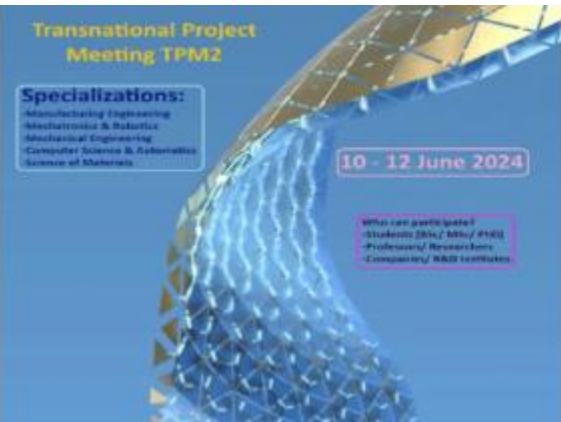


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Project activities– www.amaze2023.eu



To come ...

2nd Transnational Project Meeting

Poznan, Poland
10 -12 Jun 2024

Flyer
Agenda



To come ...

2nd Multiplier Event

Bucharest, Romania
18 Jun 2024

Flyer
Agenda



To come ...

3rd Multiplier Event

Chernivtsi, Ukraine
20 Jun 2024

Flyer



To come ...

Summer School

Bucharest, Romania
8 - 17 Jul 2024

Flyer





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Project activities– www.amaze2023.eu

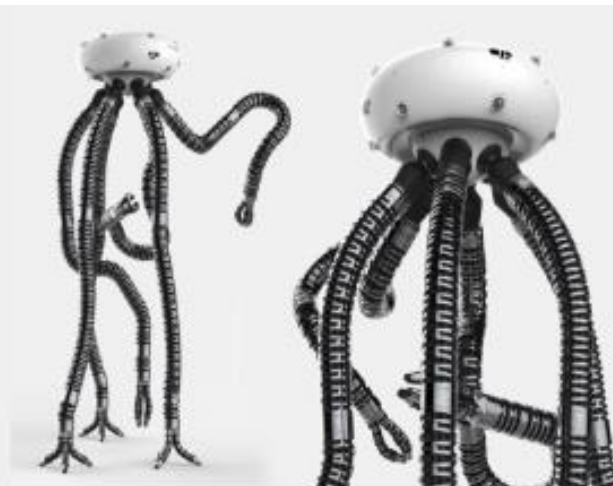


To come ...

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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Project activities– www.amaze2023.eu




To come ...


2nd Transnational Project Meeting

Poznan, Poland
10 -12 Jun 2024

Flyer
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 nb. 2023-1-RO01-KA220-HED-000155412

Transnational Project Meeting – TPM 2
hosted by Poznań University of Technology - PUT

10th – 12th of June 2024 – Poznań / POLAND

Monday 10th June - Poznań University of Technology - PUT, starting at 9:00

1. Opening and Welcome ceremony: Prof. Olaf CISZAK, Dean of the FME of Poznan University of Technology
2. Presentation of the Agenda and welcome speech: Prof. Remigiusz Łabudzki, Poznan University of Technology
3. Summary of midterm project results, setting up and clarifying goals of the meeting (Assoc. Prof. Diana Băilă, Politehnica Bucharest, project manager)
4. Project management (Assoc. Prof. Diana Băilă, Politehnica Bucharest, project manager)
 - Important aspects related to the interim report preparation and submission
 - Collection of activity reporting by the coordinator: organization and calendar (timesheets, deadlines/milestones)
 - Collection of results of Intellectual Outputs and status of delivery
 - Other project management issues

10:30 - 10:45 Coffee break

- Intellectual Outputs – status and summary of currently prepared deliverables (Assoc. Prof. Diana Băilă, Politehnica Bucharest, project manager)
- Validation of the status of tasks - Each partner will present the plan and status for each activity they have ownership (15 minutes per presentation)

13:00 - 14:00 Lunch

- Q&A with partners, comments and discussion, possible work in groups. Laboratory visit.

16:00 End of the session



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Tuesday 11th of June – Poznań University of Technology - PUT, starting at 9:00

Financial and administration rules (Assoc. Prof. Diana Băilă, Politehnica Bucharest, project manager) - Status related to the activity reported so far (timesheets + fulfilling the timesheets) (all partners) - Status about financial expenses (financial balance) (all partners) - Aspects related to the next future expenses (that are eligible) and reporting of timesheets

10:30 - 10:45 Coffee break

Communication, Dissemination and Exploitation (incl. Multiplier Events) + status of files uploaded on Teams / drives related to the AMAZE project (Assoc. Prof. Diana Băilă, Politehnica Bucharest, project manager).

Setting updates, tasks and responsibilities - Effects of the production of the Intellectual Output 1 and 2 / aspects that must be considered for the IO1/ IO2 to be finalized - Plans and discussion on ideas and responsibilities of the Intellectual Output 3 (Leading organisation Edibon International S.A.) - Disseminating plan (in the frame of the IO4), status of papers, current and planned work (Prof. Remigiusz Łabudzki, PUT responsible)

13:00 - 14:00 Lunch

Setting of details related to the next following activities to be organized on the AMAZE project - Organizing of ME2 and ME3, activity in June 2024 (Assoc. Prof. Diana Băilă, Politehnica Bucharest, project manager) and (Prof. Igor Fodchuk, YFCNU)

- Organizing of Learning Teaching Training activity (summer school) in the July 2024 at the Politehnica Bucharest, Romania (Assoc. Prof. Diana Băilă, Politehnica Bucharest, project manager). Organizing of ME4, activity in November 2024 (Prof. Remigiusz Łabudzki, PUT responsible). Organizing of TPM3, activity in September 2024 (Edibon International S.A., Madrid, Spain).

Q&A with partners comments and discussions about financial, dissemination, implementation, future activities planes to be organized in the AMAZE project, responsibilities etc.

16:00 End of the session

Wednesday 12th of June – Poznań University of Technology - PUT, starting at 9:00

Final conclusions / ending of session. Conclusions. Visiting of laboratories at Poznań University of Technology

11:30 End of the Transnational Project Meeting.





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Programme in Romania Financed by Erasmus+
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AMAZE - European Network for Additive Manufacturing in Industrial Design for Ukrainian Context, contract nb. 2023-1-RO01-KA220-HED-000155412

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- Organizing of Learning Teaching Training activity (summer school) in the July 2024 at the Politehnica Bucharest, Romania (Assoc. Prof. Diana Băilă, Politehnica Bucharest, project manager). Organizing of ME4, activity in November 2024 (Prof. Remigiusz Łabudzki, PUT responsible). Organizing of TPM3, activity in September 2024 (Edibon International S.A., Madrid, Spain).

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Project management
-important aspect related to the interim report submission

- The Interim Report was submitted.



Raluca Stefania Boldan
From: raluca.boldan@anpcdefp.ro
To: Diana Baila

Buna ziua

Am verificat si termenul de depunere a raportului intermediar este 13.07.2024.
Cand credeti ca ati terminat raportul va rog sa ma anuntati sa il verific inainte de a da submit. Scurtam astfel din timpul de evaluare.

O zi buna
Raluca Boldan

EXPERT - DEPARTAMENT PROIECTE ÎNVAȚAMÂNT UNIVERSITAR
Agentia Nationala pentru Programe Comunitare in Domeniul Educatiei si Formarii Profesionale
t: (+4) 021 201 0749
f: (+4) 021 312 1682
w: [Erasmus+](#), [ANPCDEFP](#)
a: Splaiul Independentei 313, Bibl. Centrala a
UPB, Corp A, Etaj 1 Bucuresti, S6, 060042,
Romania



Raluca Stefania Boldan
From: raluca.boldan@anpcdefp.ro
To: Diana Baila

Mon, May 20 at 10:36 AM ☆

Buna ziua

Raportul pare ok. Il puteti incarca pe platforma. Va trebui sa descarcati si sa semnati declaratia de onoare.

Nu uitati sa completati si descrierile din fiecare pachet de lucru.

O zi buna

Raluca Boldan

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Project management

-important aspect related to the interim report submission

- **The Interim Report** was submitted.
Activities presented – Kick off meeting
Politehnica Bucharest (TPM1),
ME1 Edibon International S.A.
And STTE Edibon International S.A.
And Intellectual Output IO1 – e-book

- **Final Report Deadline: 13 janv 2025**

The screenshot displays the Erasmus+ project management interface for the project "AMAZE". The top navigation bar includes the Erasmus+ logo and the text "Erasmus+ and European Solidarity Corps". The main header shows the project title "Project Activities and Budget Details" and the user "Baila Diana". The project details section includes the Grant Agreement No. (2023-1-RO01-KA220-HED-000155412), the Project Acronym (AMAZE), and the Awarded/Reported Budget (120 000 € / 73 662 €). The project status is "Project ongoing" with a deadline of 13 janv. 2025 and 234 days left. The progress reports section shows a timeline with three milestones: "Draft % completed" (12-05-2024 22:00:28), "Submission in progress" (24-05-2024 18:05:08), and "Submitted" (24-05-2024 18:09:09). The "Submitted" milestone is marked with a red location pin. The interface also includes a content menu on the left with options like Details, Participating organisations, Associated persons, Work Packages, Periodic reports, Progress reports, and Reports.





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**Impact, quality and reporting in the new
KA220-HED projects, Bucharest,
Romania**

Thanks for submitting your contact info!

Handbook on the lump sum funding model

**Key Action 2 – Partnerships for Cooperation – Call
2024**



**IMPACT, QUALITY AND REPORTING IN THE NEW KA220-HED
PROJECTS**
20 - 21 June 2024 / Bucharest

19 th June	Arrival
19:00 – 21:00	Welcome dinner at Pullman Hotel, Bucharest
20 th June	
09:00 – 09:30	Registration
09:30 – 11:00	Welcome and introduction! Exploring KA2 examples: achievements, challenges, solutions
11:00 – 11:30	Coffee break
11:30 – 13:00	Particularities of the KA220 HED reporting phase Result – Effects – Impact
13:00 – 14:00	Lunch
14:30 – 16:00	Defining the reporting methodology The ‘Lump sums’ approach
16:00 – 16:30	Coffee break
16:30 – 18:00	The Final report and additional resources Conclusions and preparation for the next day
21 st June	
09:30 – 11:00	Reconnecting with Day 1 Additional resources in drafting the Final report
11:00 – 11:30	Coffee break
11:30 – 13:00	Drafting the final methodology on monitoring and reporting for KA220 HED projects Conclusions and additional recommendations
13:00 – 14:00	Lunch



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Collection of activity reporting by the coordinator: organization and calendar (timesheets, deadlines/milestones)

Multiplier Event ME2 – POLITEHNICA Bucharest, Romania, on 18 June 2024




To come ...

2nd Multiplier Event

**Bucharest, Romania
18 Jun 2024**

Flyer
Agenda





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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

Hour	Activity
9:00	Registration of participants to the Multiplier Event
9:15	Opening and Welcome ceremony – National University of Science and Technology POLITEHNICA Bucharest – Head of Department: Mr. Prof. Ionescu Nicolae Project Coordinator: Mrs. Assoc.Prof. Băilă Diana
9:40	AMAZE project overall presentation – progress, actions, KPIs, perspectives / details about the event Assoc. Prof. Diana Băilă (National University of Science and Technology Politehnica Bucharest, Romania)
10:00	AMAZE – Applied research methods for Additive Manufacturing in Industrial Design – e-toolkit - Yuriy Fedkovych Chernivtsi National University, Ukraine Mr. Dean Prof. Igor Fodchuk/ Mrs. Prof. Mariana Borchă
10:20	AMAZE – Applied research methods for Additive Manufacturing in Industrial Design – e-toolkit – Poznan University of Technology, Poznan, Poland Mr. Prof. Remigiusz Labudzki/ Mrs. As. Prof. Natalia Wierzbicka
10:50	AMAZE – Applied research methods for Additive Manufacturing in Industrial Design – e-toolkit – EDIBON International S.A., Madrid, Spain Mrs. Mirian Bonilla
11:30	Coffee Break
12:00	LEYKOM Company Bucharest - presentation (Additive manufacturing and different 3D parts: SLM, SLA, SLS, etc) – Mr. Dragoş Voineag
13:00	ADMASYS Company Târgu Mureş, Romania – presentation – Mr. Molnár Endre
14:00	NUTechnologies Company Timişoara, Romania – presentation – Mr. Cristi Florin
15:00	Industrial Design – Vector for Product Meaning Prof. Andrei Dumitrescu (National University of Science and Technology Politehnica Bucharest)
15:30	Q&A with partners comments and discussions on the possibility of joining different projects / EU consortium / Horizon Europe open calls Networks Closing words / ending of Multiplier Event / Press Conference
16:00	Light lunch





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Multiplier Event ME2 – POLITEHNICA Bucharest, Romania, on 18 June 2024 – 20 participants – budget UPB = 2000 euros

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

Organized by National University of Science and Technology
POLITEHNICA Bucharest, Romania
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10:50	AMAZE – Applied research methods for Additive Manufacturing in Industrial Design – e-toolkit – EDIBON International S.A., Madrid, Spain Mrs. Mirian Bonilla

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Multiplier Event ME3 – Yuriy Fedkovych Chernivtsi National University (Ukraine) , on 20 June 2024 – 20 participants – budget YFCNU = 2000 euros

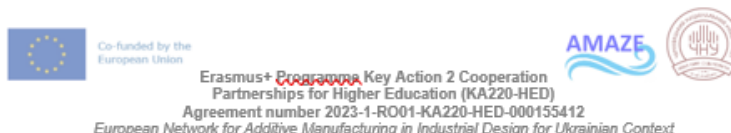


To come ...

3rd Multiplier Event

Chernivtsi, Ukraine
20 Jun 2024

Flyer



**MULTIPLIER EVENT OF APPLIED RESEARCH METHODS FOR ADDITIVE
MANUFACTURING IN ARCHITECTURAL DESIGN**

Organized by Yuriy Fedkovych Chernivtsi National University (Ukraine)
in cooperation with the AMAZE project consortium partners

Agenda Schedule

Date: 20.06.2024, between 9.00-16.00, Yuriy Fedkovych Chernivtsi National University
(Ukraine), starting at 9:00, Chernivtsi, Ukraine

Hour	Activity
9:00	Registration of participants to the Multiplier Event ME3
9:15	Opening and Welcome ceremony - Yuriy Fedkovych Chernivtsi National University (Ukraine), Dean Prof. Igor Fodchuk
9:40	AMAZE project overall presentation – progress, actions, KPIs, perspectives / results and details about the event – Additive Manufacturing & Sensors and Electronics Assoc. Prof. Diana Băilă (National University of Science and Technology Politehnica Bucharest, Romania)
10:00	AMAZE – Applied research methods for Additive Manufacturing in Architectural and Industrial Design/ CAD/CAM /CAE & Smart (Intelligent) Materials – e-toolkit - Yuriy Fedkovych Chernivtsi National University, Ukraine Mr. Dean Prof. Igor Fodchuk/ Mrs. Prof. Mariana Borchia
10:20	AMAZE – Applied research methods for Additive Manufacturing in Architectural and Industrial Design/ Reverse Engineering/ Smart (Intelligent Materials) – e-toolkit – Poznan University of Technology, Poznan, Poland Mr. Prof. Remigiusz Labudzki/ Mrs. As. Prof. Natalia Wierzbicka
10:50	AMAZE – Applied research methods for Virtual Reality/Augmented Reality/ Computer Programming – e-toolkit – EDIBON International S.A., Madrid, Spain Mrs. Mirian Bonilla
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12:00	LEYKOM Company Bucharest - presentation (Additive manufacturing and systems used in Industry and Architecture: SLM, SLA, SLS, etc) – Mr. Dragoș Voineaș
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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.





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Collection of results of Intellectual Outputs and status of delivery
Project activities– www.amaze2023.eu



AMAZE eBook

1. Additive Manufacturing
2. Smart (Intelligent) Materials
3. CAD CAM CAE Design
4. Reverse Engineering
5. Computer Programming
6. Sensors and Electronics
7. Virtual Reality (VR) and Augmented Reality (AR)

13th International Conference on Materials Science & Engineering - Brasov - 13-16 March 2024



E-book – published
with e- ISBN –
Publishing House
Printech Bucharest
and update on AMAZE
site





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AMAZE Project Results

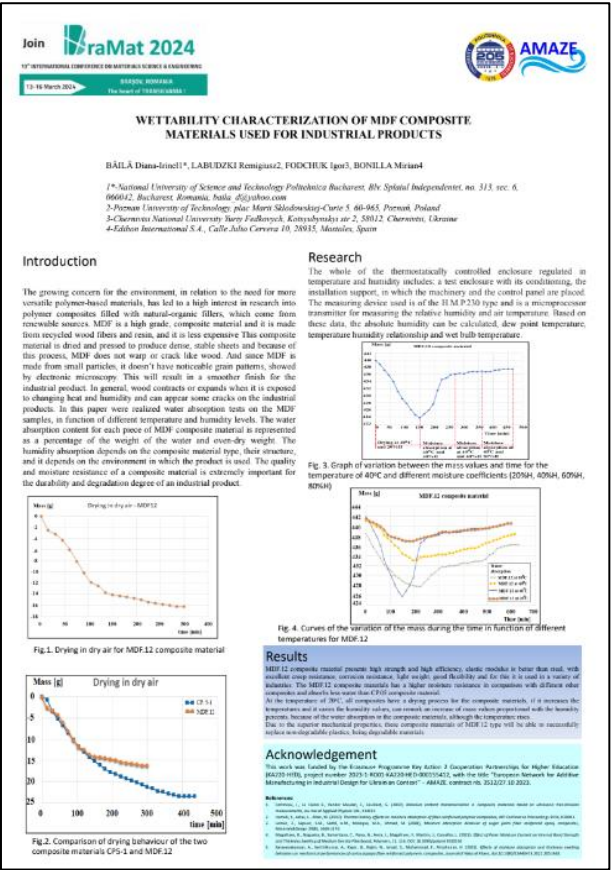
Project Results: 2 articles accepted for publishing in International Conferences
– **BRAMAT 2024, Brasov, Romania, 13-16 March 2024**
– **KreativEU 2024, Targoviste, Romania, 16-17 May 2024**

Acceptance Notification



Diana Irinel Băilă
Igor Fodchuk
Remigiusz Łabudzki
Myrian Bonilla

ACCURACY OF SLA AND MATERIAL MORPHOLOGY USED IN ARCHITECTURE





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Agreement number 2023-1-RO01-KA220-HED-000155412
European Network for Additive Manufacturing in Industrial Design for Ukrainian Context



Collection of activity reporting by the coordinator: organization and calendar (timesheets, deadlines/milestones)



To come ...

2nd Multiplier Event

Bucharest, Romania
18 Jun 2024

[Flyer](#)
[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 nb. 2023-1-RO01-KA220-HED-000155412

Transnational Project Meeting – TPM 2
hosted by Poznań University of Technology - PUT

10th – 12th of June 2024 – Poznań / POLAND

Monday 10th June - Poznań University of Technology - PUT, starting at 9:00

1. Opening and Welcome ceremony: Prof. Olaf CISZAK, Dean of the FME of Poznan University of Technology
2. Presentation of the Agenda and welcome speech: Prof. Remigiusz Łabudzki, Poznan University of Technology
3. Summary of midterm project results, setting up and clarifying goals of the meeting (Assoc. Prof. Diana Băilă, Politehnica Bucharest, project manager)
4. Project management (Assoc. Prof. Diana Băilă, Politehnica Bucharest, project manager)
 - Important aspects related to the interim report preparation and submission
 - Collection of activity reporting by the coordinator: organization and calendar (timesheets, deadlines/milestones)
 - Collection of results of Intellectual Outputs and status of delivery
 - Other project management issues

10:30 - 10:45 Coffee break

- Intellectual Outputs – status and summary of currently prepared deliverables (Assoc. Prof. Diana Băilă, Politehnica Bucharest, project manager)
- Validation of the status of tasks - Each partner will present the plan and status for each activity they have ownership (15 minutes per presentation)

13:00 - 14:00 Lunch

- Q&A with partners, comments and discussion, possible work in groups. Laboratory visit.

16:00 End of the session

Collection of results of Intellectual
Outputs and status of delivery





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SUMMER SCHOOL – POLITEHNICA Bucharest,

8-17 July 2024, www.upb.ro

Participants: EDIBON International S.A. – Spain – 2 persons

From PUT - Poland

- 1. Teachers
 - - Prof. Natalia WIERZBICKA
 - - Prof. Remigiusz LABUDZKI
 -
- 2. Students
 - - Ms Iryna KACHURA-ZHECHYTSKA.
 - - Ms Klaudia Jańczak
 - - Ms Emilia Smolarek
 - - Mr Jakub Gapsa
 - - Mr Sebastian But

From YFCNU - Ukraine

- 1. Teachers
 - Dean. Igor FODCHUK
 - Prof. Mariana BORCHA
- 2. Students
 - Ms. Auryte Anastasiia
 - Ms. Bazyniak Vita
 - Ms. Kolodrivska Sofiia
 - Ms. Pauk Volodymyra
 - Ms. Panivnyk Nataliia





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

E-case studies – 3D MODELS for design and 3D Printing



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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Summer School – Bucharest- 8-17 July 2024

Peleş Castle – Sinaia, Romania





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Summer School – Bucharest- 8-17 July 2024

Casa Poporului, Bucharest, Romania Castelul Kretulescu, Bucharest, 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

Dracula Castle – Bran, Romania





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

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

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

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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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



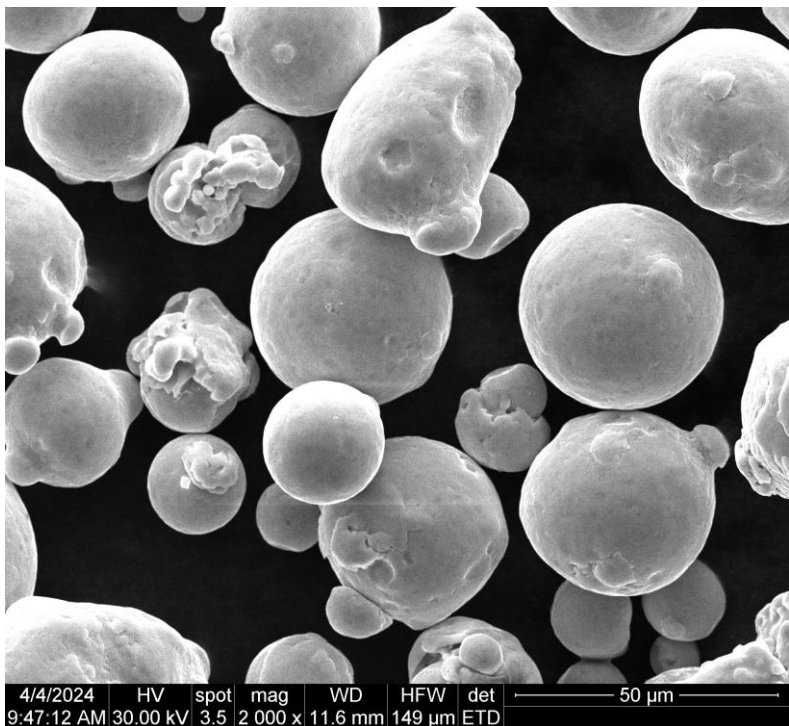


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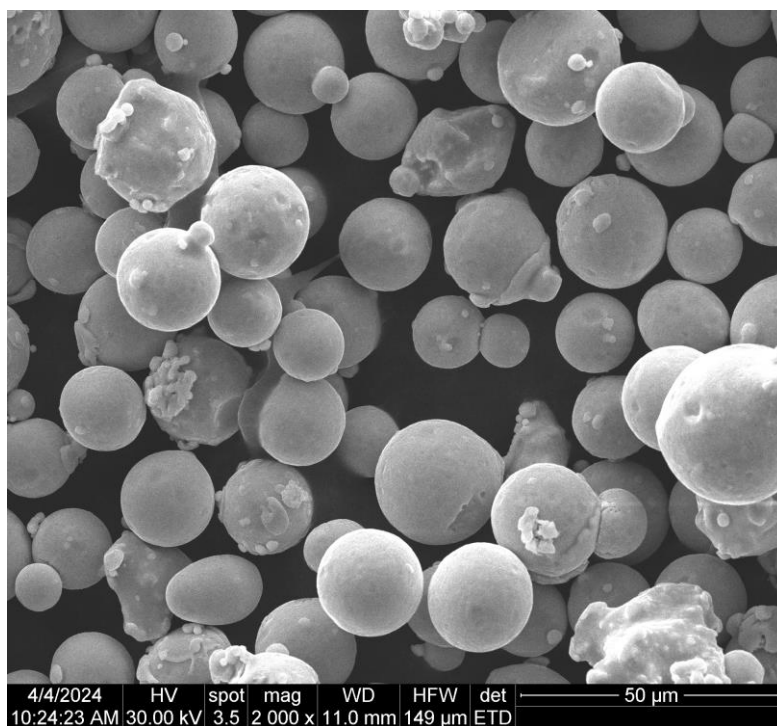
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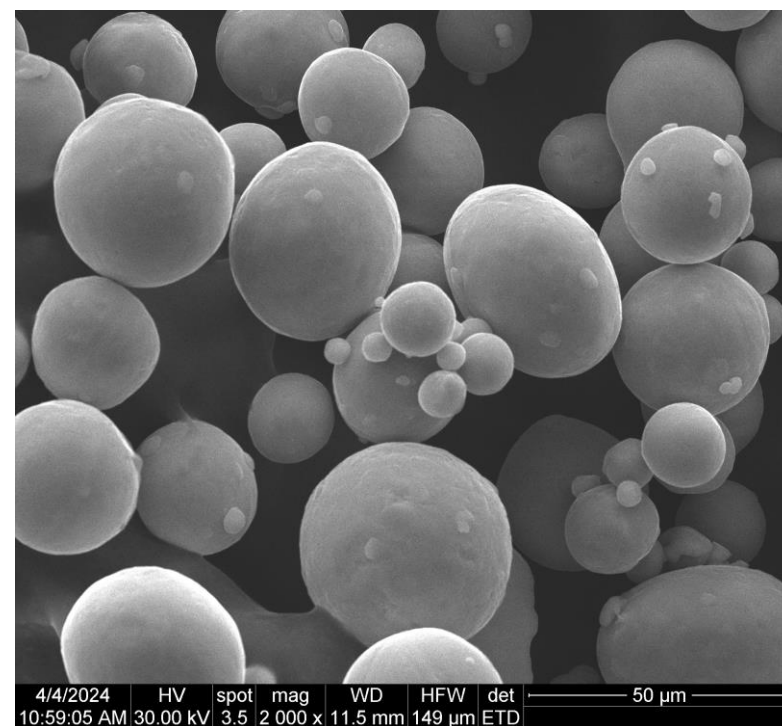
Metallic powders used in SLM (SELECTIVE LASER MELTING)



625 INCONEL



718 INCONEL



Ti6Al4V



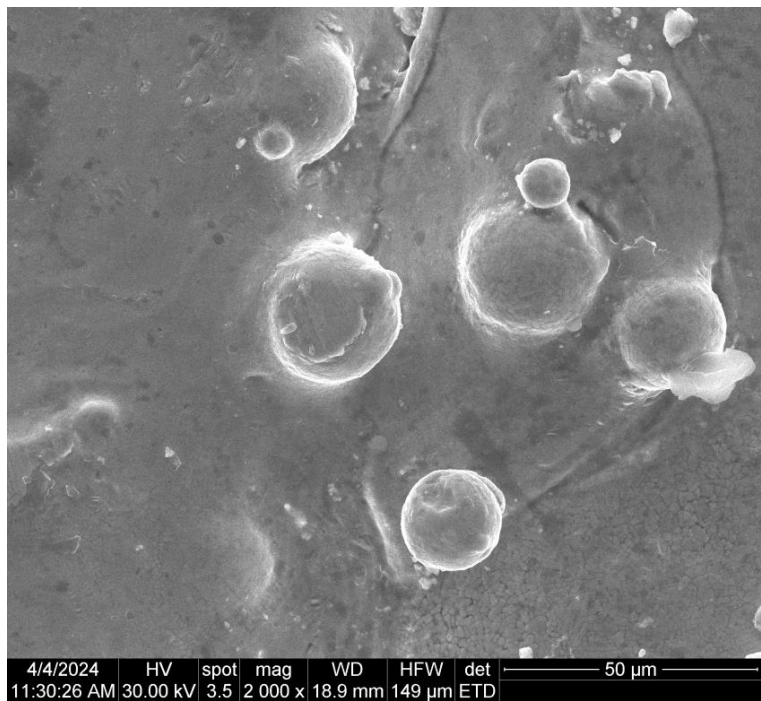


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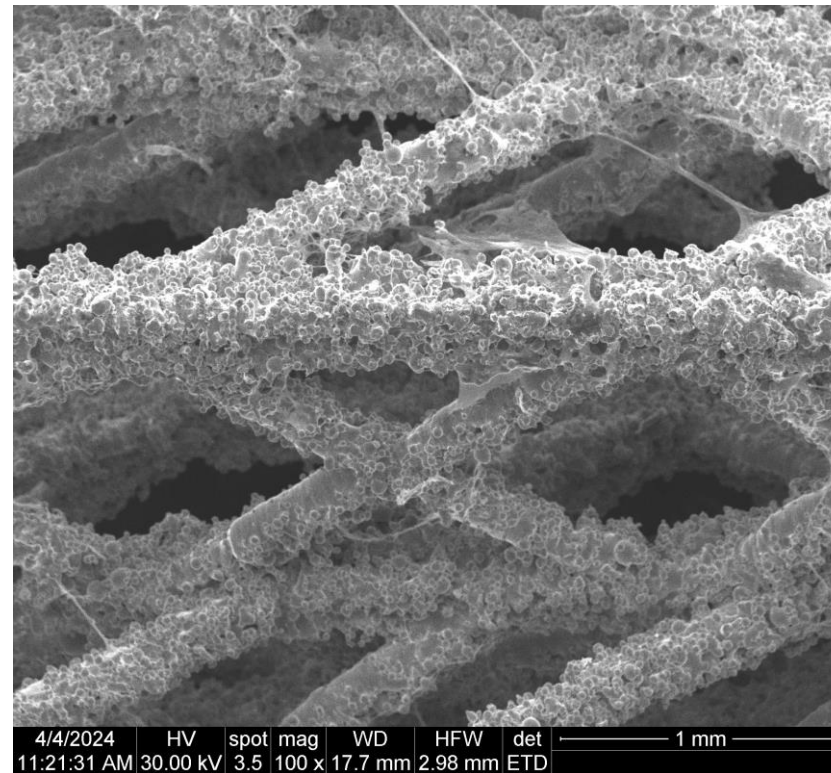
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Sintered parts used in SLM (SELECTIVE LASER MELTING)



625 INCONEL



Ti6Al4V



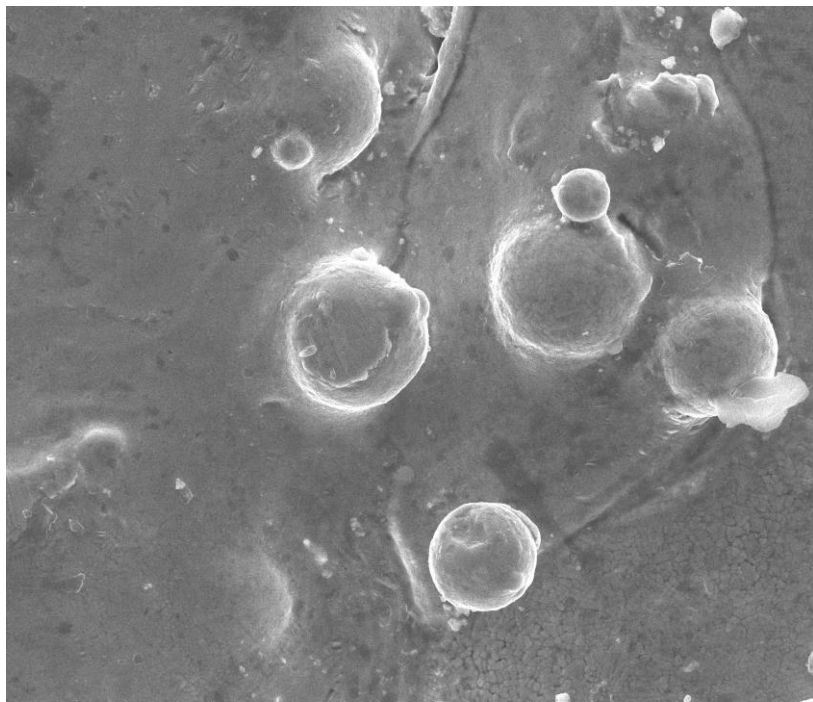


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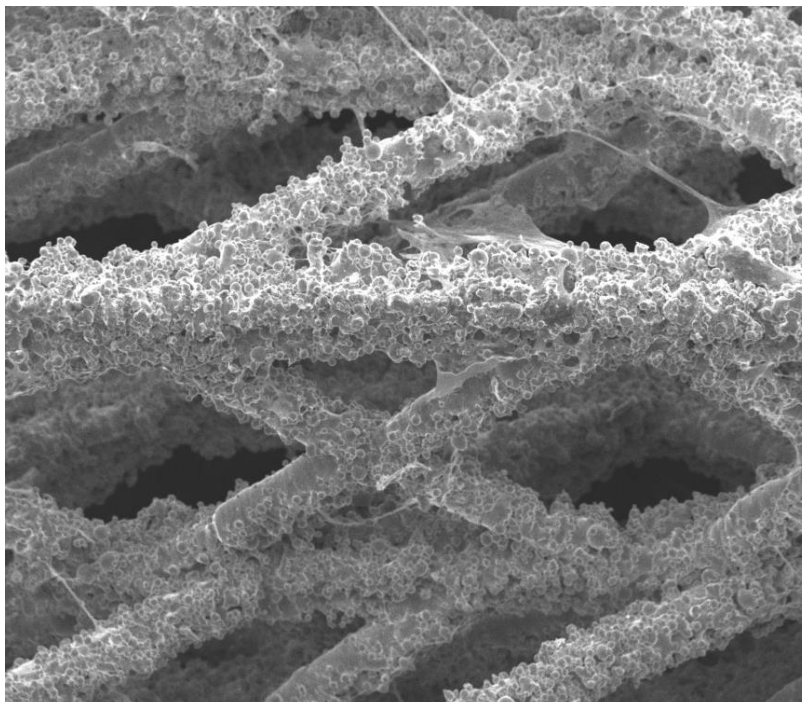
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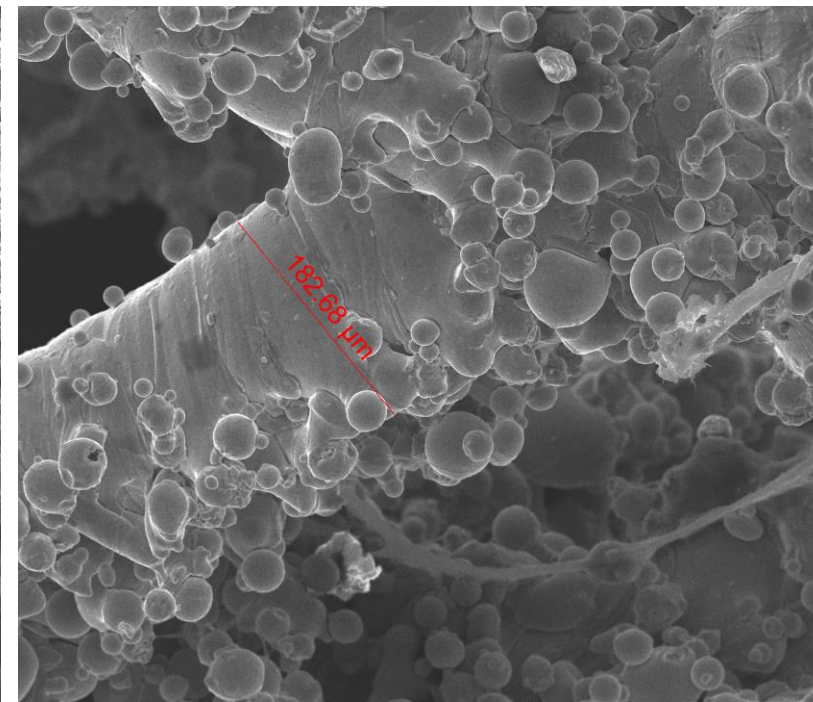
Sintered parts used in SLM (SELECTIVE LASER MELTING)



4/4/2024	HV	spot	mag	WD	HFW	det	50 µm
11:30:26 AM	30.00 kV	3.5	2 000 x	18.9 mm	149 µm	ETD	



4/4/2024	HV	spot	mag	WD	HFW	det	1 mm
11:21:31 AM	30.00 kV	3.5	100 x	17.7 mm	2.98 mm	ETD	



4/4/2024	HV	spot	mag	WD	HFW	det	200 µm
11:24:51 AM	30.00 kV	3.5	500 x	19.3 mm	597 µm	ETD	

625 INCONEL



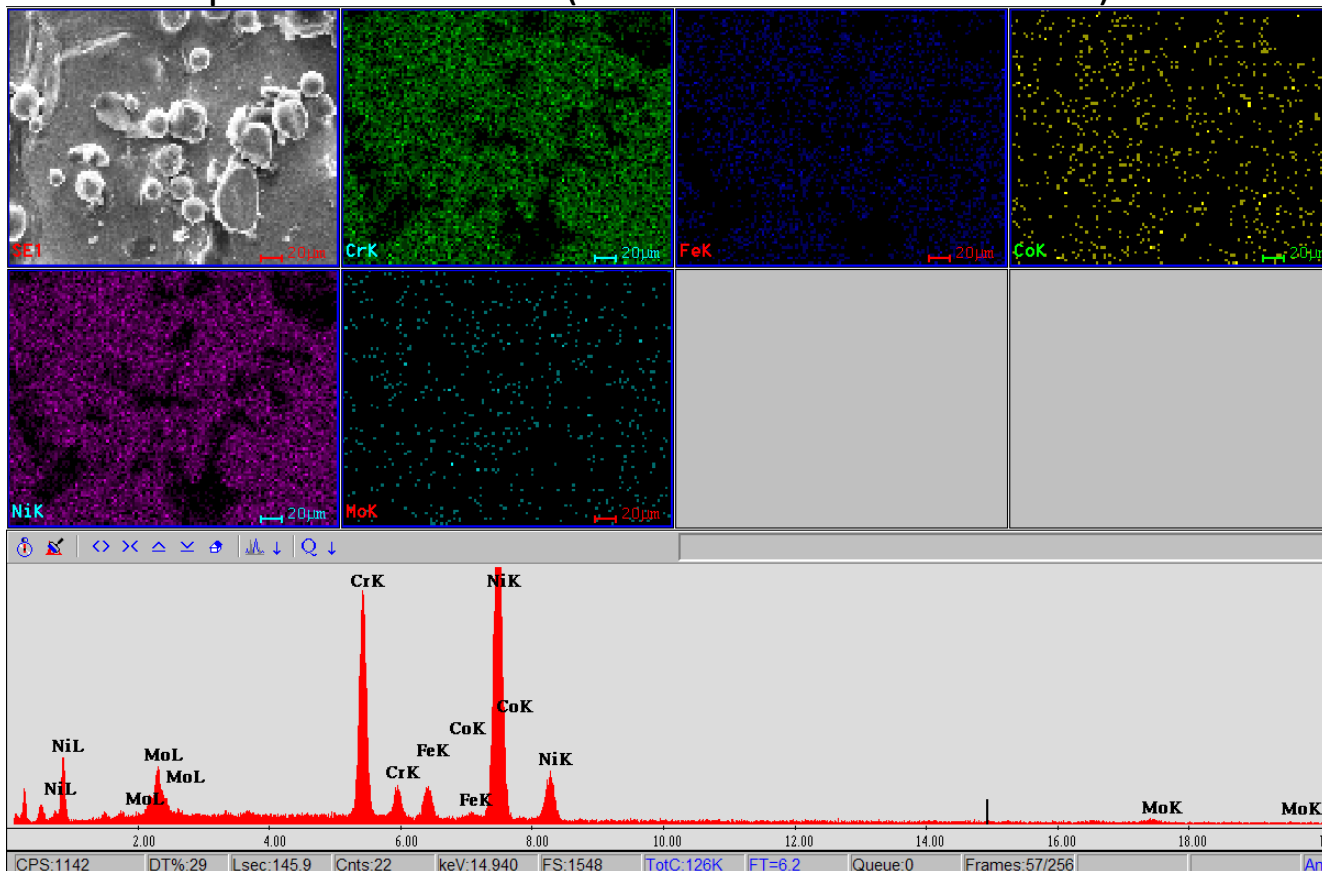


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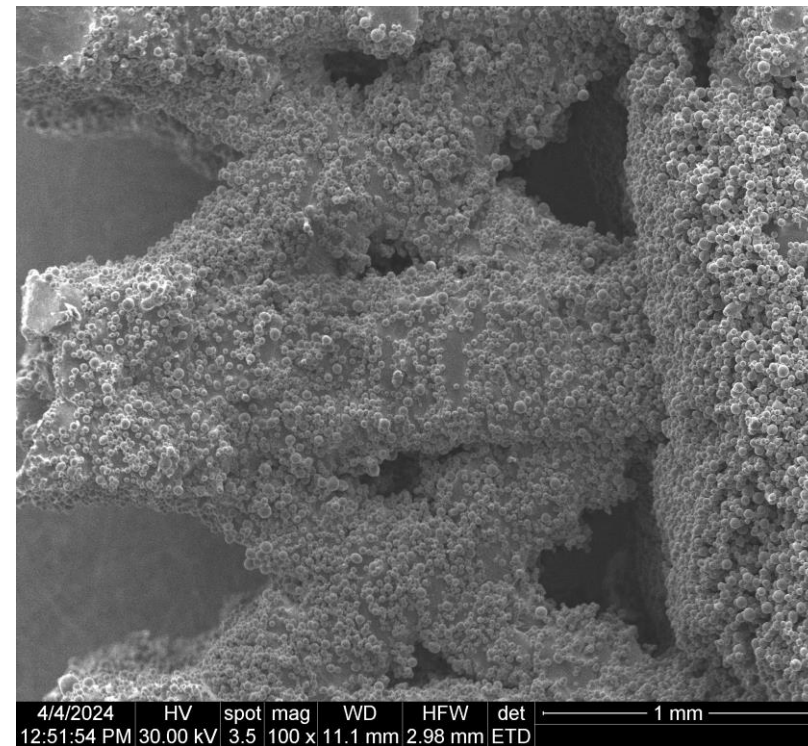
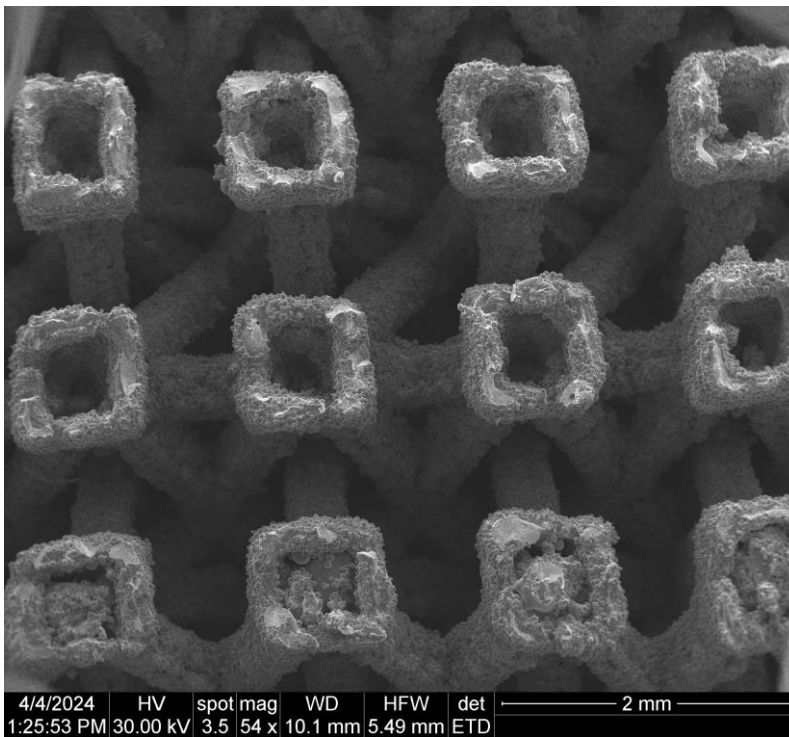
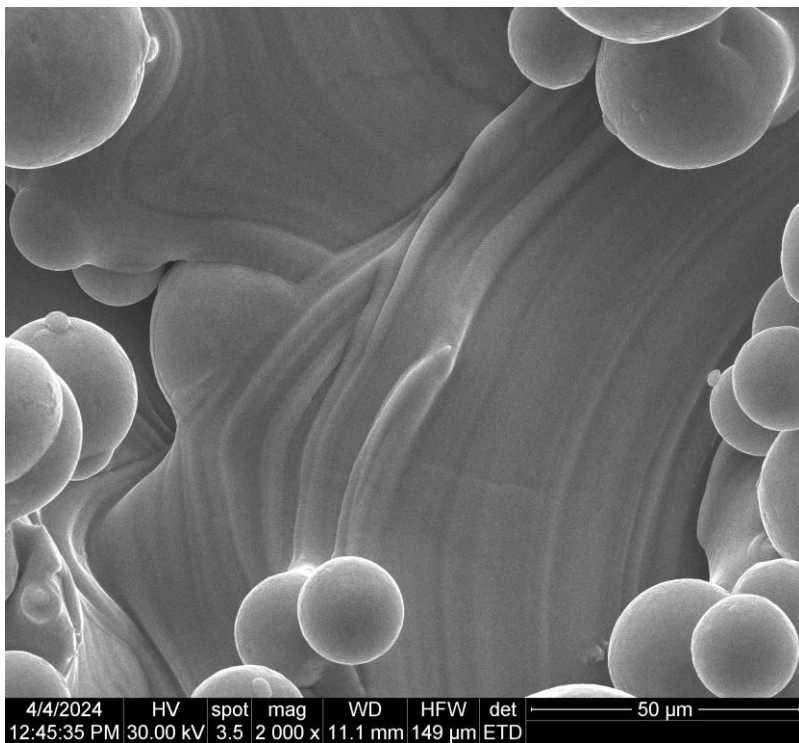


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Ti6Al4V



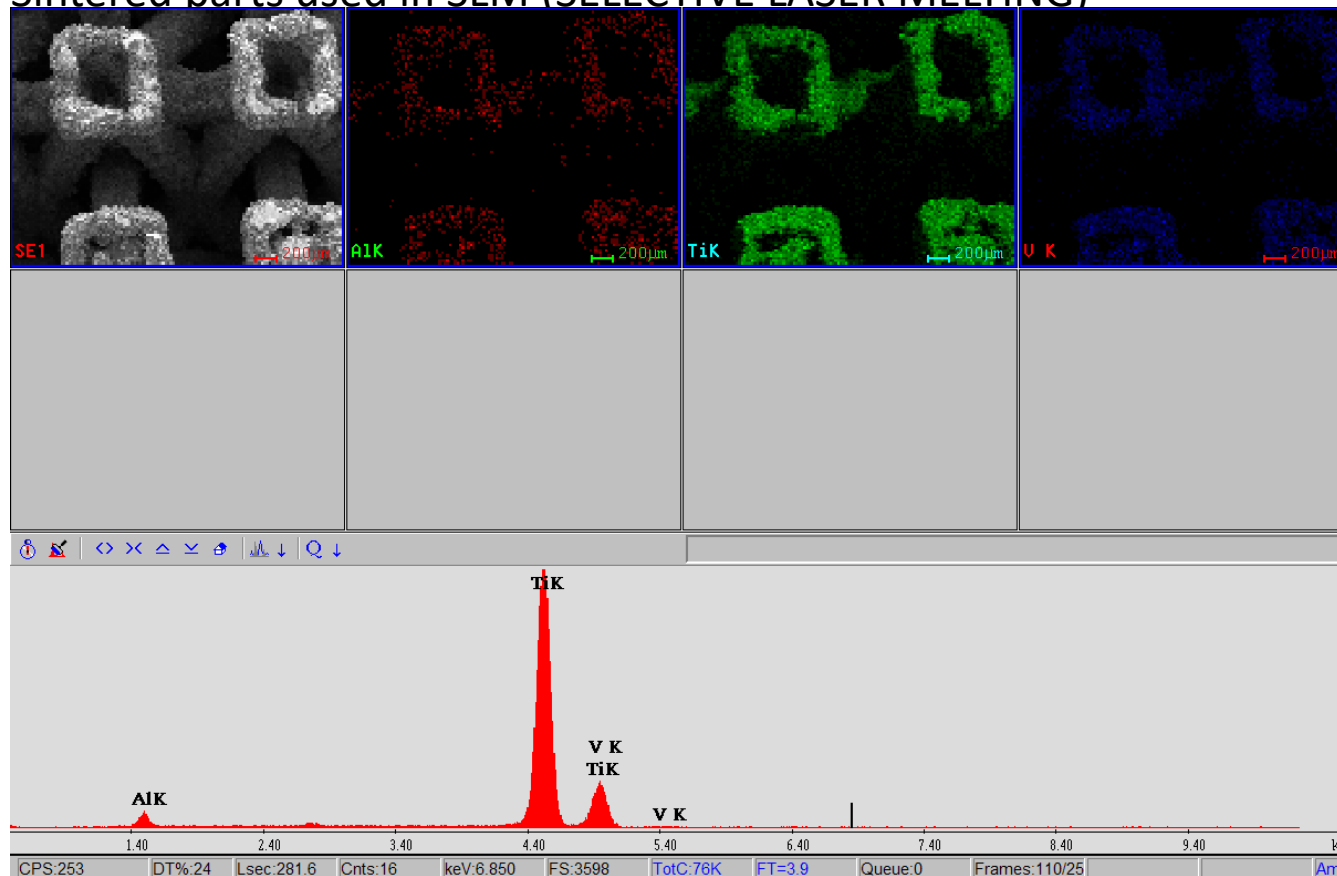


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AMAZE PROJECT - RESEARCH DIRECTIONS

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!