BIOMEDIX

Biomedical Innovations through Digital Transformation of Additive Technologies and Knowledge Exchange

MULTIPLIER EVENT – Digital Transformation in Biomedical Engineering

Technical University of Cluj-Napoca, Romania | B-dul Muncii 103-105 | Room: Aula Centenar | 9 October 2026

AGENDA

SESSION 1 – OPENING & BIOMEDIX TOOLKIT RESULTS	
09:00–09:05	Opening and welcome remarks – Rector, prof.dr.eng. Ţopa Vasile, Technical University of Cluj-Napoca
09:05–09:10	Opening and welcome remarks – prof. dr.eng. Brad Stelian – Dean, Faculty of Industrial Engineering, Robotics and Production Management, Technical University of Cluj-Napoca
09:10–09:20	Presenting of the BIOMEDIX consortium and project, main aim of the Multiplier Event and Agenda – prof.dr.eng. Păcurar Răzvan, BIOMEDIX project responsible on behalf of Technical University of Cluj-Napoca
09:20–09:40	BIOMEDIX project and presentation of the main toolkit results: digital transformation in biomedical engineering, additive manufacturing / Toolkit no. 1 - SLA Printed Scaffold for Heart Tissue Regeneration & Toolkit no. 5 - Silicone Tongue Implant for Oral Reconstruction Produced by 3D Printing and Vacuum Casting. VR applications / VR demonstration provided in afternoon session at the exhibiting stand, prof. Gorski Filip, PUT, Poland
09:40–09:50	BIOMEDIX project and presentation of the main toolkit results: digital transformation in biomedical engineering, additive manufacturing / Toolkit no. 2 - Patient-Specific Cranioplasty by Laser Powder Bed Fusion: From Medical Imaging to Implant Manufacturing, lecturer dr.eng. Cosma Cosmin, Technical University of Cluj-Napoca, Romania and Makaryan Arsham, Materialise, Begium
09:50–10:05	BIOMEDIX project and presentation of the main toolkit results: digital transformation in biomedical engineering, additive manufacturing / Toolkit no. 3. Fused Deposition Modeling of a Patient-Specific PEEK Skull Implant for Cranial Reconstruction, prof. Vitkovic Nikola, University of Nis, Serbia
10:05 -10:15	BIOMEDIX project and presentation of the main toolkit results: digital transformation in biomedical engineering, additive manufacturing / Toolkit no. 4 - Bioprinting of a Hydrogel-Based Breast Implant for Soft Tissue Reconstruction, Gorohovs Marks, administrator of BIOMEDIX project, RTU, Riga, Latvia and Lichtnecker Raphael, ViscoTec GmbH, Germany (recorded presentation)
SESSION 2 – TECHNICAL & MEDICAL PERSPECTIVES / STUDENT MOBILITY OPPORTUNITIES	
10:15–10:30	Novel nano-structured biomaterials in nanomedicine, prof.dr.eng.Popa Cătălin, Materials Science and Enginering Department, Technical University of Cluj-Napoca, EUt+ Institute for Nanomaterials and Nanotechnologies, EUTINN
10:30–10:45	New Challenges in Medical Robotics, prof.dr.eng. Pîslă Doina, Research Center for Industrial Robots Simulation and Testing, Head of Doctoral School, Technical University of Cluj-Napoca
10:45–11:00	Digital planning dental implants in maxillofacial reconstructive surgery, Rotar Horaţiu, Ostaş Daniel, Iuga Teodora, Fodor Lucian , Samuilă Sergiu, University of Medicine and Pharmacy „Iuliu Haţieganu" Cluj-Napoca / Medicover Hospital, Cluj-Napoca/ Plastic & Reconstructive Surgery Cluj-Napoca and Bihor County Clinical Emergency Hospital
11:00–11:25	Digital Transformation and Advanced Manufacturing in Healthcare: From Hospital Labs and Biomedical Applications to 3D Printing, Biofabrication and the e-Metaverse, prof.dr.eng. Roca Joaquin, Polytechnic University of Cartagena, Spain and Baena José Manuel (CEO), Regemat 3D bioprinting, Granada, Spain
11:25–11:50	Diploma Projects in Medical Applications Developed by TUCN Students: BIOMEDIX Achievements &Future Topics in Collaboration with the University of Medicine and Pharmacy, prof.dr.eng. Păcurar Răzvan,Technical University of Cluj-Napoca & assoc. prof.dr. Burdea Alexandru,University of Medicine & Pharmacy „Iuliu Haţieganu" Cluj-Napoca
11:50–12:00	Student mobility and international study opportunities within the BIOMEDIX project and the ERASMUS+ programme (discussions / Q&A), prof.dr.eng. Răzvan Păcurar & Petz Renata, ERASMUS International office, TUCN
12:00–13:00	**Lunch break / press conference (12:45)**

SESSION 3 – INDUSTRY PRESENTATIONS & EXHIBITION	
13:00–13:05	Opening of the session organized with the companies, Vice Rector responsible with University Management and Relations with the Socio-Economic Environment, prof.dr.eng. Popescu Daniela, Technical University of Cluj-Napoca
13:05–13:10	Opening of the session organized with the companies (Cluj-Napoca City Hall institution)
13:10–13:15	Delegation of Indonesia – educational and health interest cooperation (Cluj-Napoca City Hall institution)
13:15-14:15	Brief presentations made by exhibiting companies / (maximum 5 minutes per presentation) / (details: company profile, company main developing directions and interests, technological solutions for medical applications (software / hardware / materials), what people are going to see at the exhibiting stands) Presenting of companies in the BIOMEDIX consortium - Materialise, Belgium, Popa Radu – 13:15 -13:20 - viscoTec, Germany, Gruber Felix (recorded video) – 13:20 -13:25 Presenting of exhibiting companies - Regemat 3D bioprinting, Baena José Manuel (CEO) – 13:25 - 13:30 - Total Biotek SRL Bucureşti, Handra Florian – 13:30 – 13:35 - 3D Republika (Belgrade, Serbia), Rare Kolesar – 13:35 - 13:40 - NU Technologies Timişoara, Foral Cristian – 13:40 -13:45 - CAD Works Craiova, Bîrlogeanu Claudiu – 13:45 -13:50 - Admasys Odorheiu Secuiesc, Molnar Endre – 13:50 -13:55 - Apel Laser Bucureşti, Enache Alin – 13:55 - 14:00 - Epic Crafting Suceava, Koczynski Alfred – 14:00 - 14:05 - Zala Medical SRL Cluj-Napoca, Şelariu Mihai – 14:05 - 14:10 - Brain Symphony Cluj-Napoca, Cosmin Coţia – 14:10 - 14:15
14:15–15:30	Exhibition & networking – demonstrations, interaction with exhibiting companies, presentation of equipment items /software/materials/discussions with participants. Virtual Reality experience. ERASMUS+ Information Point
SESSION 4 – FUTURE PROJECT OPPORTUNITIES, COLLABORATION & CLOSING	
15:30–15:35	Opening of the session related to future project opportunities and collaboration, prof.dr.eng. Nemeş Ovidiu, Research Director, Technical University of Cluj-Napoca and prof.dr.eng. Păcurar Răzvan, BIOMEDIX project responsible on behalf of Technical University of Cluj-Napoca
15:35-15:45	Opportunities for future European Horizon and national research projects in the biomedical engineering domain, Pop Liliana, director, Knowledge and Technological Transfer Centre (TTO), Technical University of Cluj-Napoca
15:45–15:55	Erasmus project opportunites for collaboration (ERASMUS KA, ERASMUS for VET, ERASMUS technological transfer, ERASMUS MUNDUS, etc.), Petz Renata, ERASMUS International office, TUCN
15:55–16:05	LevelUP Accelerator: From Health Innovation to Better Care, Roman Anca, Head of Inno at North West Regional Development Agency
16:05–16:15	The Protype Gap: From Idea to Product, Bota Florentin, PhD Executive Director, INNOCORE Foundation
16:15–16:25	Digital Transformation Projects and Interventions – Trends and Musts, Tănase Andra, Strategy Manager Transylvania IT cluster / The European Digital Innovation Hub in Transylvania (TEDITH)
16:25–16:35	From Evolution to Revolution: AI Transforming Healthcare, Cluj IT cluster, prof. dr.eng. Brad Stelian, Dean, Faculty of Industrial Engineering, Robotics and Production Management, Technical University of Cluj-Napoca
16:35–16:45	Test Before Invest with DIH4Society 2.0: Fully Funded Access to Testing Infrastructure, assoc. prof. dr. eng. Pop Grigore, DIH4Society, Technical University of Cluj-Napoca
16:45–16:55	Strategic Collaboration between Academia, Industry and Healthcare: Experiences and Perspectives on Innovation, prof.dr.eng. Dan Doru Micu, Electrical Engineering Faculty and associate prof. dr.eng. Sergiu Dan Stan, Department of Mechatronics and Machine Dynamics, Technical University of Cluj-Napoca
16:55–17:00	Q & A / conclusions / follow-up collaborations / ending of Multiplier Event