



Subject: Minutes on the Work Package 3 Strategy Workshop

Date: 9-10 October, 2025

Place: Cluj-Napoca, Romania

**Work Package 3 Strategy Workshop
9-10 October, 2025
Cluj-Napoca, Romania**

Minutes

Objectives:

- Presentation of the Work Package 3, its structure, tasks and deliverables;
- Develop 1 strategic plan with timelines, milestones, nominated team members, roles & distribution of tasks;
- Develop 1 list with 5 case studies to be realized 3D & bio-printed;
- Develop 1 template of the e-toolkit manual+content of each module defined.

Activities:

- are presented by the attached Agenda (see please the Annex I) of the meeting; the Agenda had been discussed in advance by the Persons in Charge (via Internet) and finally had been approved at the meeting start.

Participants:

The following people attended the meeting:

from RTU:

Mr. Marks Gorohovs (Project administrator);

from TUCN:

Mr. Razvan Pacurar (Person in charge),

Mrs. Ancuța Păcurar,

Mr. Alin Pleșa,

Mrs. Luminița Pleșa;

from PUT:

Mr. Filip Gorski (Person in Charge);

from UPCT:

Mr. Joaquin Roca-Gonzalez (Person in charge),

Ms. Lucía Martínez Abellan (Remotely);

from NIS:

Mr. Rajko Turudija,

from UNIPU:

Mr. Sven Maričić (Person in charge);

from Materialise NV:

Mr. Radu Popa (Person in charge),

Mr. Wout De Swaef;

from ViscoTec GmbH:

Mr. Raphael Lichtnecker (Person in charge),

Ms. Johanna Bruckhuber;

Synopsis

A WP3 staff training for the BIOMEDIX project took place in Cluj-Napoca, Romania, on October 9-10, 2025, at Technical University of Cluj-Napoca. Representatives from all participating partner institutions attended in person, including: Mr. Marks Gorohovs (Project Administrator) from RTU; Mr. Razvan Pacurar (Person in Charge), Mrs. Ancuța Păcurar, Mr. Alin Pleșa and Mrs. Luminița Pleșa from TUCN; Mr. Filip Gorski from PUT; Mr. Joaquin Roca-Gonzalez (Person in charge), Ms. Lucía Martínez Abellan from UPCT; Mr. Rajko Turudija from NIS; Mr. Sven Maričić (Person in charge) from UNIPU; Mr. Radu Popa (Person in charge), Mr. Wout De Swaef from Materialise NV; Mr. Raphael Lichtnecker (Person in charge), Ms. Johanna Bruckhuber from ViscoTec GmbH.

The Staff training had been divided into *Consortium meeting* and *Students Workshop* sessions.

On the morning of the 3rd of December *Consortium meeting* took place at the Room A13, B-dul Muncii 103-105, 400641, Cluj-Napoca.

Mr. Razvan Pacurar and Mr. Marks Gorohovs had delivered the opening address. Mr. Razvan Pacurar presented the hosting organization, presented the agenda of the Strategy workshop, its aims and expected results.

Mr. Filip Gorski moderated the discussions on the status and progress of planned activities and deliverables for WP2, including e-book reviewing, VR applications, activities, reporting, etc.

The deadline for eBook chapters and VR/AR applications was established to be on 24th of October 2025, as these results will be presented during multiplier event at Poznan University of Technology on 27 of October. By this date, the chapters and applications must be published on the BIOMEDIX website for users to download.

At the moment of the meeting, 1 chapter is fully ready, 3 under revisions, 3 waiting for review, 1 not ready for review. As per AR/VR applications, 16 are ready, 16 are under finalization of development. For VR applications (especially for devices like Hololens, Meta uest etc.) it was also suggested by Mr. Ravan Pacurar to publish video recordings about the use of applications on the website, as these applications are not easily accessible for all.

Mr. Marks Gorohovs and Mr. Filip Gorski switched to the discussion of WP5, status progress and planned activities.

Mr. Filip Gorski suggested the possibility to publish in MDPI, as he and other colleagues from Poland are getting invitations to publish there for free. As well as, suggested the upcoming Conference of Manufacturing, organized at Poznan University of Technology, Poland, 19-21 of May 2026. The deadline for submission of full papers (8-10 pages) is 9th of November 2025.

It was reminded to all partners to update lists of possible journals, publications to cite in frame of BIOMEDIX project, already published lists of publications etc. on project cloud by the end of November, to sum everything up before TPM meeting in Pula, Croatia on 9th – 10th of December 2025.

After that, the discussion on WP3 started, moderated by Mr. Razvan Pacurar.

The tasks given in the project were discussed, the Consortium agreed that the formulation of tasks is unclear and needs to be emphasize the 3D printing along with bioprinting for tissue engineering, in contrast to proposal, that mentions only bioprinting.

List of 5 case studies was established for WP3, that will be described in e-toolkit and videos as a result of work package. The topics are:

- 1.SLA elastic resin scaffolds for heart tissue regeneration (PUT),
- 2.PEEK FDM bone growth implants (TUCN),
- 3.SLS/SLM for printing of metal mandible implant (NIS+Materialise),
- 4.Hydrogel breast implants bioprinting (RTU+ViscoTEC),
- 5.Comparison of silicon 3D printing and vacuum casting (TUCN+ViscoTEC);

Then the consortium discussed the videos to be made in WP3. Videos are decided to be made in align with case studies described and focus on demonstrations of methods of preparation, production and/or measurement. The videos must be consistent, Mr. Sven Maricic agreed to be responsible for composing videos (if others are providing shots and scripts) but asked whether this work may be outsourced. This is to be specify from the Agency by Mr. Marks Gorohovs. Mr. Filip Gorski have shared the videos made during previous project “BRIGHT” as an example.

Next, Mr. Razvan Pacurar focused the discussion on following activities, to establish dates and preliminary plans.

TPM meeting is to be organised at Juraj Dobrila University of Pula on 9th – 10th of December. Mr. Marks Gorohovs suggested to prepare and organize all the documents regarding results and activities done so far and for each of Consortium member to prepare the balance sheet. All this should be stored on the projects' cloud and be ready before the meeting.

Staff training in Bioprinting technologies, organized by ViscoTEC was decided to be on 21st – 23rd of April 2026, as on 23rd of April there will be in-house-trade fair regarding 3d printing and bioprinting with exhibitions and presentations with possibility to disseminate results of the project.

Additionally, Ms. Johanna Bruckhuber suggested that ViscoTEC could provide bioprinting heads to the consortium members to use for e-toolkit materials development, as well as for activities for students, i.e. Hackathon and Summer School.

As per WP3 Hackathon, to be organized in Poznan, Mr. Filip Gorski suggested dates 18th – 19th of May 2026, as there will be Manufacturing Conference at PUT organized on 19th – 21st of May.

Summer School was decided to be organized on 20th – 30th of July at Riga Technical University. Mr. Marks Gorohovs has shared the plans to combine BIOMEDIX summer school with Non-Linear Life Summer School and XR Salento Conference. Also, he suggested the ideas for student's activities, i.e. students who are doing research for diploma projects may come with samples and are training to use RTU equipment for measurements, they are given template of research article to fill in and eventually publish. Some other activities will be with the use of ViscoTEC equipment, available at RTU, as well as training in use of Materialise's Mimics software in collaboration with Riga Stradins University.

WP5 Research Workshop, that is to be organised at TUCN, was decided to be organised on 12th – 13th of March 2026.

WP4 Strategy meeting was suggested to be organised on June 2026, as this Work Package will have little time to successfully make a Metaverse platform. But specific dates are to be discussed with UPCT representatives.

WP5 Training workshop is decided to be organized in September 2026 by Materialise.

With that, the *Consortium meeting* was over.

After the session ended, the partners attended the dinner at "Univers T hotel", str. Alexandru Vaida Voievod nr. 53-55, where they had non-formal face-to-face discussions.

The following day, 10th October 2025 continued with *Students Workshop* session, moderated by Mr. Razvan Pacurar. The activity was announced to the students of TUCN to disseminate the results of the project and raise the interest of students to participate in

BIOMEDIX activities. An event brought together over 150 participants, including faculty members and students (bachelor's, master's, and PhD levels) from TUCN, representing various fields such as Manufacturing Engineering, Mechatronics and Robotics, Medical Engineering, and Materials Science and Engineering, as well as from the University of Medicine and Pharmacy of Cluj-Napoca.

The event started with Welcome address and introduction by TUCN Vice Rector for International Relations prof. Nicolae Vlad Burnete.

Mr. Marks Gorohovs presented the idea and objectives of the BIOMEDIX project.

Mr. Razvan Pacurar shared the results of project so far and plans for future years in frame of the project.

Then Mr. Filip Gorski presented the possibilities for joined diploma projects for students to be developed in cooperation with Consortium members.

After that TUCN students, that already participated in previous BIOMEDIX activities presented their projects and shared the experience.

After a short break, the companies – Zenta Medical, NU Technologies, ViscoTec and Materialise, Bizzcom presented themselves with aim to share the need of the 3D printed solutions in the biomedical field.

Materialise concluded the event with a special session on cranial implant design based on CT images using the MIMICS software. Students received free trial licenses and will benefit from technical support from the company in developing diploma projects in this field, as part of the BIOMEDIX project.

Project Administrator:

Mr. Marks Gorohovs

Annex I

**Work Package 3 Strategy Workshop
9-10 October, 2025
Cluj-Napoca, Romania**

Agenda and time table

Location of the meeting:

Room A13, B-dul Muncii 103-105, 400641, Cluj-Napoca, Romania

9 October 2025

Time	Event
9:00-9:30	Welcome address and introduction Dean of Faculty of Industrial Engineering, Robotics and Production Management, prof. Stelian Brad, TUCN BIOMEDIX coordinator – Marks Gorohovs (RTU) TUCN BIOMEDIX coordinator – Răzvan Păcurar, TUCN
	SESSION 1 – Progress and status of WP2 and WP5
9:30-10:30	Progress of planned activities and deliverables for WP2 (status and progress) – e-book reviewing, VR applications, activities, reporting, budget issue, good practices, etc. <i>Moderators: Filip Gorski (PUT) and Marks Gorohovs (RTU)</i>
10:30-10:45	Coffee break
10:45-11:45	Progress of planned activities and deliverables for WP5 (status and progress) – dissemination plan and publications <i>Moderators: Filip Gorski (PUT) and Marks Gorohovs (RTU)</i>
12:00-13:00	Break
	SESSION 2 – Planning of scientific results related to WP3
13:15-14:00	Aspects related to e-toolkit of WP3– case studies / structure / content / distribution of tasks / template, etc. <i>Moderators: Răzvan Păcurar, TUCN and Rajko Turudija (Nis)</i>
14:00-14:45	Aspects related to videos to be realized in close correlation with e-toolkit (scenario, structure, content, distribution of tasks, etc.) <i>Moderators: Răzvan Păcurar, TUCN and Marks Gorohovs (RTU)</i>
14:45-15:00	Coffee break
	SESSION 3 – Planning of activities related to WP3 and other WPs (2025-2026)
15:00-15:15	Staff for training – ViscoTEC – objective, content, period, responsibilities, KPIs <i>Presenter: Raphael Lichtmecker (viscoTec)</i>
15:15-15:30	Hackathon – PUT – objective, content, period, responsibilities, KPIs <i>Presenter: Filip Gorski</i>
15:30-15:45	Summer School – RTU – objective, content, period, responsibilities, KPIs <i>Presenters: Marks Gorohovs (RTU)</i>
15:45-16:15	Complementary meetings in 2025- 2026 on BIOMEDIX – dates to be established - Multiplier Event WP2 - Filip Gorski – PUT ,Poznan - TPM meeting (WP2) – Sven Maricic , UNIPU - Workshop (WP5) and Multiplier Event (WP3) – Răzvan Păcurar, TUCN - Strategy workshop (WP4) – Roca Joaquin, UPCT - Training workshop (WP5) – Radu Popa, Materialise
16:15-16:30	<i>Final conclusions of day 1</i>
19:00	<i>Dinner – Univers T hotel – str. Alexandru Vaida Voievod nr. 53-55 (near Iulius Mall)</i>

10 October 2025

Time	Event	
	SESSION 4 – Common diploma projects, research and dissemination (round table)	
9:00-9:05	Welcome address and introduction Vice Rector for International Relations, prof. Nicolae Vlad Burnete, TUCN	
9:05-9:15	Introduction of meeting objective, presenting of the participants, results reached so far and case studies proposed in WP3 for the e-toolkit BIOMEDIX coordinator – Marks Gorohovs (RTU) TUCN BIOMEDIX coordinator – Răzvan Păcurar, TUCN	
9:15-10:00	Joined diploma projects topics linked with BIOMEDIX related to e-toolkit (WP3) <i>Moderators: Filip Gorski (PUT) and Răzvan Păcurar, TUCN</i>	
10:00-10:15	coffee break	
10:15-11:15	Company presentations <i>Moderators: Radu Popa (Materialise) and Raphael Lichtnecker (viscoTec)</i> <i>presentations: Zenta Medical (Mihai Selariu) – 10:15-10:30</i> <i>NU Technologies (Cristi Foral) – 10:30-10:45</i> <i>viscoTec (Raphael Lichtnecker) – 10:45-11:00</i> <i>Materialise (Radu Popa)- 11:00-11:15</i>	
11:15-11:45	Presenting of potential research projects and collaborations linked with BIOMEDIX <i>Moderators: Filip Gorski (PUT) and Răzvan Păcurar, TUCN</i>	
12:00-13:00	Break	
	SESSION 5 – Workshop and laboratory visit	
	<i>Materialise workshop (pre-registration will be required)</i>	<i>Laboratory visit</i>
13:15-13:30	<i>Workshop (Materialise) – introduction of part 1 on Mimics (Radu Popa)</i>	<i>Regional Excellence Centre for Creative Industries – CREIC - Cluj-Napoca / National Centre of Innovative Manufacturing</i>
13:30-14:30	<i>Workshop Materialise – part 1</i>	
14:30-14:15	<i>Coffee break</i>	
14:15-15:15	<i>Workshop (Materialise) – introduction of part 2 on Mimics (Radu Popa)</i>	
15:15-15:30	<i>Workshop Materialise – part 2</i>	
15:30-16:00	<i>Final conclusions of day 2</i>	