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**TWIN-IT-ROMANS - 101160215**

**Workshop on Components – 1  
@ İzmir  
Report**

**Rev-A**

**26.09.2025**

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## Summary of the Workshop on Components – 1 Report

This report contains the information on all the activities carried out during the Workshop on Components -1 (WoC - 1) organized by the project coordinator IZTECH in İzmir, Türkiye.

The WoC – 1 took place in between 15<sup>th</sup> and 17<sup>th</sup> of September, 2025 in İzmir, Türkiye.

The on-site attendees were as follows:

- IzTech: 4 Researchers, Gender Equality Manager, 3 ESRs
- UBAH: 1 Researcher
- RWTH: 1 Researcher
- LSBU: 2 Researchers
- MCI: 2 Researchers
- HKTM: 1 Researcher
- POLITO: 1 Researcher

On the first day of the workshop, the Vice Rector, the Vice Dean and the Manager of the Technology Transfer Unit attended indicating the importance of the TWIN-IT-ROMANS project to IZTECH. The progress on each work package is summarized and discussed. The key performance indicators are reviewed. In the afternoon, the technical works carried out during the 1<sup>st</sup> year are presented and the obtained results are discussed. The future directions are set for the success of the project.

The TWIN-IT-ROMANS consortium has taken the incentive to apply for a larger EU Horizon 2020 project. As a last activity of the first day, A-RE-DREAM project proposal preparations are reviewed. This project is being prepared to be submitted to the Integrated approaches for remanufacturing (Made in Europe Partnership) (IA) - HORIZON-CL4-INDUSTRY-2025-01-TWIN-TRANSITION-01 call in accordance with the aims of the TWIN-IT-ROMANS project to apply to new project calls.

For the second day, external parties from NORM Additive (<https://normadditive.com/en/>) and MET Advanced Technologies (<https://metltd.net/en>) were invited for networking activities and dissemination of the project's results. Two presentations were provided by NORM and MET companies indicating possible collaborations with the TWIN-IT-ROMANS project. Project partners had focused collaboration meeting with MET and NORM companies. The aims of the TWIN-IT-ROMANS project, and its desired output is presented to the companies.

The Robotic Manufacturing Systems (ROMANS) Laboratory is visited together with the companies and the consortium partners. The components of the robotic manufacturing cell are reviewed during the visit.

For the next season of ESR exchanges, focused meeting are organized together with the host institute, the related ER and ESR. Work package 3, 4 and 5 revision requirements are reviewed.

The schedule for the next workshop, which is the Workshop on Intelligent Manufacturing (WoIM), is discussed. The IPR manager of the project, Dr. Buğra Alkan, presented the schedule for the researchers and the parallel sessions for the administrative staff.

The 2<sup>nd</sup> day was concluded with a hybrid meeting between the partners of the A-RE-DREAM project proposal consortium. The next day, the TWIN-IT-ROMANS consortium members visited İzmir city center.



# Workshop on Components – 1 @ İzmir Report

Rev. A  
26 September 2025

## Schedule of the Workshop on Components @ İzmir

### DAY-0: 14 September 2025 Sunday

10:00 – 18:00	Boat Excursion in Çeşme
~ 18.30	Dinner in Çeşme (Local Aegean Food Menu)



<https://www.cesmeladvbente.com/en>

### DAY-1: 15 September 2025 Monday

09:30 – 10:00	Registration & Introduction	Can DEDE (IZTECH)
10:00 – 10:45	Welcome Speech – Manager of Atmosfer TTO Welcome Speech – Vice Dean of the Engineering Faculty Welcome Speech – Vice Rector	Burak KÖLE (Atmosfer TTO) Mehmet DÖRDÜNCÜ Cem CELEBİ
10:45 – 11:15	Report on General Progress of the Project & WP1 Report on Gender Equality	Can DEDE (IZTECH) Benay UZER-YILMAZ
11:15 – 11:30	15 Minutes Coffee Break	
11:30 – 11:45	Report on WP3 Report on Workshop on Sustainability	Gökhan KİPER (IZTECH) Giuseppe Quaglia (POLITO)
11:45 – 12:00	Report on Summer School & WP4 Summer Internships of ESRs	Benjamin MASSOW (MCI) Berk KURT (HKTM)
12:00 – 12:15	Report on Dissemination Activities & WP5 Report on Exploitation and Communication	Buğra ALKAN (LSBU) Buğra KARAAŞ (IZTECH)
12:15 – 13:45	1.5 hour Lunch Break	
13:45 – 14:00	Report on Materials and Hybrid Manufacturing Components	Buğra KARAAŞ (IZTECH)
14:00 – 14:15	Discussions on Materials and Hybrid Manufacturing Components	Alborz SHOKRANI (UBAH)
14:15 – 14:30	Report on Inline Quality Control	Hallı TETİK (IZTECH)
14:30 – 14:45	Discussions on Inline Quality Control	Buğra ALKAN (LSBU)
14:45 – 15:00	15 Minutes Coffee Break	
15:00 – 15:15	Report on Cell Optimization	Gökhan KİPER (IZTECH)
15:15 – 15:30	Discussions on Cell Optimization	Burhard CORVES (RWTH)
15:30 – 15:45	Report on Prototype Development	Berk KURT (IZTECH)
15:45 – 16:00	Discussions on Prototype Development	Giuseppe QUAGLIA (POLITO)
16:00 – 16:30	30 Minutes Coffee Break	
16:30 – 18:30	A-RE-DREAM Project Proposal Meeting #1	
~ 18.30	Dinner (Pide Menu)	

### DAY-2: 16 September 2024 Tuesday

9:00 – 09:10	Introduction of End-Users and Technology Provider Companies	Can DEDE (IZTECH)
09:10 – 09:30	Norm Additive	Doğuş ZEREN (NORM)
09:30 – 09:50	Filament Technology	Yusuf Can UZ (Filament Tech)
09:50 – 10:30	MET Advanced Technology Systems	Murat MERDİN (MET)
10:30 – 11:00	30 Minutes Coffee Break	
11:00 – 11:30	Description of the TWIN-IT-ROMANS Project Output	Can DEDE (IZTECH)
11:30 – 12:00	Report on System Integration at IZTECH Report on System Integration at MCI	Berk KURT (IZTECH) Benjamin MASSOW (MCI)
12:00 – 13:00	1 hour Lunch Break	
13:00 – 13:30	Robotic Manufacturing Laboratory Visit	
13:30 – 14:30	Focused Meetings of Partners with Companies	All Partners & Companies
14:30 – 15:00	30 Minutes Coffee Break	
15:00 – 15:45	Focused Meetings of ESRs with Hosting Institutes	All Partners
15:45 – 16:00	Revisions on WP3, WP4 & WP5 activities	All Partners
16:00 – 16:15	Discussions on the Workshop on Intelligent Manufacturing Schedule	Buğra ALKAN (LSBU)
16:15 – 16:45	A-RE-DREAM Project Proposal Meeting #2	
~ 17.00	Köstem Olive Oil Museum Tour & Dinner (Duck Menu)	

### DAY-3: 17 September 2025 Wednesday

10:00 – 12:00	Excursion in İzmir Center @ Kemeraltı Bazaar	
12:00 – 13:00	Lunch @ Döner Shop	
13:00 – 15:00	Refik Anadol Exhibition (Sense of hearing and Machine Hallucinations) in İzmir Fairground <a href="https://refikanadol.com/">https://refikanadol.com/</a>	
15:00 – 18:00	Archaeology and Ethnography Museum	
~ 18.30	Dinner at the Cordon Area (Fish Menu)	



Abbreviations:  
IZTECH: İzmir Institute of Technology  
WP: Work Package  
LSBU: London South Bank University  
POLITO: Politecnico Di Torino  
UBAH: University of Bath  
RWTH Aachen: Rheinisch-Westfälische Technische Hochschule Aachen  
HKTM: Hidropar Hareket Kontrol Teknolojileri Merkezi Sanayi ve Ticaret Anonim Şirketi  
MCI: Management Center Innsbruck Internationale Hochschule GmbH



### Attendance Information with Photos

Attendance		
Role in the project	Name- Surname	Institution
ESR	Gizem Merve GÜNDÜZ	IZTECH
ESR	Berk KURT	IZTECH
ESR	Hasan Cezayirli	IZTECH
ER	Gökhan KİPER	IZTECH
ER	M. İ. Can DEDE	IZTECH
ER	Büşra KARAŞ	IZTECH
ER	Halil TETİK	IZTECH
ER	Benay Uzer Yılmaz	IZTECH
ER	Burkhard Corves	RWTH
ESR	Hannes Unterhuber	MCI
ER	Benjamin Massow	MCI
ER	Alborz Shokrani	UBAH
ESR	Louie Webb	LSBU
ER	Bugra Alkan	LSBU
ER	Evren Samur	HKTM
ER	Quaglia Giuseppe	POLITO

### The first-day presentations and discussions





The second-day presentations, focused meetings, laboratory visit and discussions







## Workshop on Intelligent Manufacturing Draft Program

The draft program and the dates of the Workshop on Intelligent Manufacturing (WoIM) is discussed during the WoC – 1. The WoIM will be organized by the project partner LSBU during the dates 13-15 May 2025.



The WoIM will take place in the facilities of LSBU at London, UK. The WoIM will include the following events:

### Day 1 – Academic Foundations and Project Reporting

- Keynote: National Perspectives on Intelligent Manufacturing (Prof Saurav Goel)
- Guest Seminar: University of Exeter – Agent Based Simulation for Adaptive Manufacturing Systems (Dr MK Chinnathai)
- Guest Seminar: Cranfield University – Enabling Metaverse for Smart Manufacturing (Dr F Assad)
- Guest Seminar: Brunel University – TBD (Dr M. Wang)
- Panel Discussion: “University Research Driving Intelligent Manufacturing”
- ESR Presentations – Work from Exchanges (4 in sequence, ~25 min + Q&A each)
- Work Package Reporting and Discussions (4 sessions in sequence, ~30 min each)

### Day 2 – Industrial Engagement and Applied Perspectives

- Introduction of Industrial Participants
- JLR Seminar – TBD (K. Ananthanarayan)
- GSK Seminar – Intelligent Quality and Pharma 4.0
- ATS Automation Seminar – System Integration for Intelligent Factories (Dr M. Ahmad)
- UKAEA Seminar – TBD (Dr E Uzunoglu)
- Panel Discussion: “Industrial Challenges vs Academic Solutions”
- Industry-University Dialogue Session – Boardroom discussion
- Laboratory Visits – Demonstrations of intelligent manufacturing testbeds and pilot cells (guided tour with technical staff) - Poster Flash Session – ESRs, PhDs



- Hands-on Session on Industrial AI – small groups (Computer Lab FW).
- Focus Group Meeting (Industry 5.0)

Day 3 – Wrap-Up and Future Outlook

- Consolidated WP Report Back (summaries, actions, next steps)
- Report on Dissemination
- Parallel Session - Bid Writing and Funding Clinic (EU & UKRI)
- Summer School at Aachen – Plans, structure, expected outcomes
- Concluding Roundtable – Future collaboration and funding opportunities

These topics will be finalized and their schedule will be set in the next months before March, 2026. The WoIM will be open for external parties to join.



### **Conclusions**

The researchers from all consortium partners attended the WoC – 1 to review the 1<sup>st</sup> year progress and to reshape the future direction of the current collaboration. IZTECH researchers gained experience on organizing workshops through this event. The inclusion of the companies had a strong influence on the impact of the project outcomes. The consortium has shown their incentive in writing proposals together by working on the A-RE-DREAM project proposal. This proposal has been submitted 1 week after the conclusion of the WoC – 1 by the inclusion of 5 new partners including ARCELIK, CUB, MESS, ICCS and SCIENCE TOKYO.

The components of the robotic manufacturing cell that is being developed at IZTECH with the help of HKTM are reviewed and approved by the consortium partners. The future works to be carried out by the ESRs at IZTECH during the Fall 2025 semester and at the host institutions during the Spring 2026 semester are decided. The host institutions will continue to collaborate with the respective ERs and ESRs during the second year of the project.