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TWIN-IT-ROMANS

**Report on Virtual Trainings and Networking
Events**

Rev-A

25.02.2026

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1. Executive Summary of Virtual Trainings and Networking Events

Virtual training and networking events planned within the scope of the TWIN-IT-ROMANS project are being organized according to the original plan, except for a slight revision on the date of the Workshop on Intelligent Manufacturing. So far, we have completed one virtual training and three networking events as provided in the following list:

- Virtual Training on Intellectual Property Management in Research
 - Organized by RWTH Innovation on 24 April 2025
 - With the participation of the project team and administrative staff of the project office from IZTECH
 - The event focused on intellectual property management in research and innovation, offering valuable insights on how to protect and make the most of the knowledge we generate.
- Workshop on Sustainability (WoS)
 - Organized by POLITIO on 5-7 Feb 2025 in Torino-Italy
 - With the participation of the project team from IZTECH and partners (RWTH, UBAH, LSBU, MCI, HKTM), guests from relevant industry sectors
 - The event focused on sustainability practices, exchanging knowledge, and exploring innovative solutions for a greener future. From insightful presentations on sustainability strategies to discussions on real-world applications, the event served to reinforce our collective commitment to responsible and intelligent manufacturing
- Summer School on Robot-Assisted Milling and Additive Manufacturing
 - Organized by MCI on 26 July – 02 August 2025 in Innsbruck-Austria
 - With the participation of the project team from IZTECH and partners (RWTH, UBAH, LSBU, MCI, HKTM), and guests from relevant industry sectors and academia
 - The event focused on additive manufacturing fundamentals, fiber-reinforced composite mechanics, and hybrid machining to mobile manipulators and human–robot interaction via keynote lectures and hands-on workshops
- Workshop on Components (WoC)
 - Organized by IZTECH on 14-17 September 2025 in İzmir-Türkiye
 - With the participation of the project team from IZTECH and partners (RWTH, UBAH, LSBU, MCI, HKTM), guests from relevant industry sectors
 - The event focused on the core components and future directions of the project, thereby strengthening our international academic and industrial collaboration
- Networking events during the exchange visits:
 - Project coordinator and Giuseppe Quaglia from POLITO attended the Automation & Testing Expo at Turin during the dates 11-13 February 2026. (<https://www.aetevent.com/default.aspx?site=ENG>)

2. Virtual Trainings

Online IP training has been delivered on 24 April 2025 by Alexander Peters from RWTH Innovation (see Figure 1), one of our esteemed partners from RWTH Aachen University. The training focused on intellectual property management in research and innovation, offering valuable insights on how to protect and make the most of the knowledge we generate, which significantly contributed to strengthening institutional capacity at IZTECH.

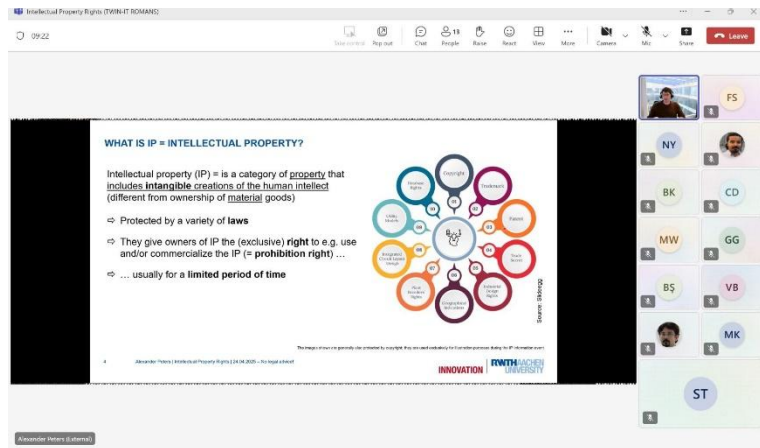
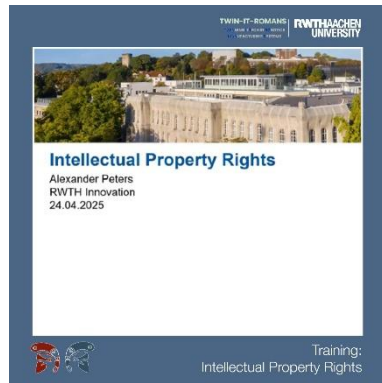


Figure 1: Event post and screenshot for the online IP training session.

3. Networking Events

Enhancing the links between academia and business and promoting the career permeability between those has been set as one of the main targets of the TWIN-IT-ROMANS project. To facilitate those, we have been paying extra attention to identifying and inviting industrial professionals whose business could benefit from our outcomes, providing their technology as input for the TWIN-IT-ROMANS project, or be interested in our project in any way. The very first one of such events, Workshop on Sustainability, has been organized by POLITIO on 5-7 Feb 2025 in Torino, Italy (Figure 2). The workshop brought together project partners to discuss sustainability practices, exchange knowledge, and explore innovative solutions for a greener future. From insightful presentations on sustainability strategies to discussions on real-world applications, the event served to reinforce our collective commitment to responsible and intelligent manufacturing. Also, our guest, Alberto Pelleri from Kuka Robotics, gave an inspiring talk on robotics for sustainability and shared the practices they employ to improve sustainability in their business activities.



Figure 2: Photos from networking events on WoS.

The second networking event, Summer School on Robot-Assisted Milling and 3D Printing, has been organized by MCI on 26 July – 02 August 2025 in Innsbruck, Austria (Figure 3). Over the course of one intensive week, participants engaged in an outstanding program featuring keynote lectures, hands-on workshops, and large-scale robot-milling demonstrations. The summer school explored topics ranging from additive manufacturing fundamentals, fiber-reinforced composite mechanics, and hybrid machining to mobile manipulators and human-robot interaction—all within the framework of advancing intelligent and sustainable production. There have also been some fruitful events with the guests from the business sector. Ralf Stetter from the WIRED 3D company presented his talk entitled “Introduction to Metal 3D Printing”.



Furthermore, an on-site visit to Fergungstechnik Miller Company has been organized, and the project team gained extremely important insights into robotic machining processes.

a)



b)



c)



Figure 3: a) Agenda and b,c) photos from the Summer School on Robot Assisted Milling and 3D Printing.

The third networking event, Workshop on Components, has been organized by IZTECH on 14-17 September 2025 in İzmir-Türkiye (Figure 4). Throughout the four-day event, participants engaged in productive and comprehensive sessions, deeply examining the core components and future directions of the project, thereby strengthening our international academic and industrial collaboration. Besides, with the participants from the business sectors of additive manufacturing, composite manufacturing, and robotics & automation, the project team had a great opportunity to extend their network and learn about the industrial practices in the respective fields. Dr. Doğuş Zeren (Norm Additive Company), Mr. Mert Özkan (Filament Technology Company), and Mr. Murat Merdin (MET Advanced Technology Company) joined our workshop and introduced their company and business activities. We further organized a session where the potential collaborations between the academy and industry were discussed. As a result of these discussions, strong bonds have been formed, and collaborations in different areas have been initiated.



Figure 4: Photos from networking events on WoC.

Besides all the planned networking events, experienced researchers of the TWIN-IT-ROMANS had on-site visits to some industrial companies located in the vicinity of İzmir, whose business sector is highly aligned with the concept of the TWIN-IT-ROMANS project. One such example is the visit to the Norm Additive Company by the experienced researchers Dr. Büşra Karaş and Dr. Halil Tetik (Figure 5a). The visit was held after the WoC event at IZTECH, and collaborative projects with the company have been initiated. Another example is the visit to the Tibet Makina Company by Drs. Karaş and Tetik (Figure 5b). With this visit, a joint project proposal has been developed, and further collaboration opportunities have been discussed.

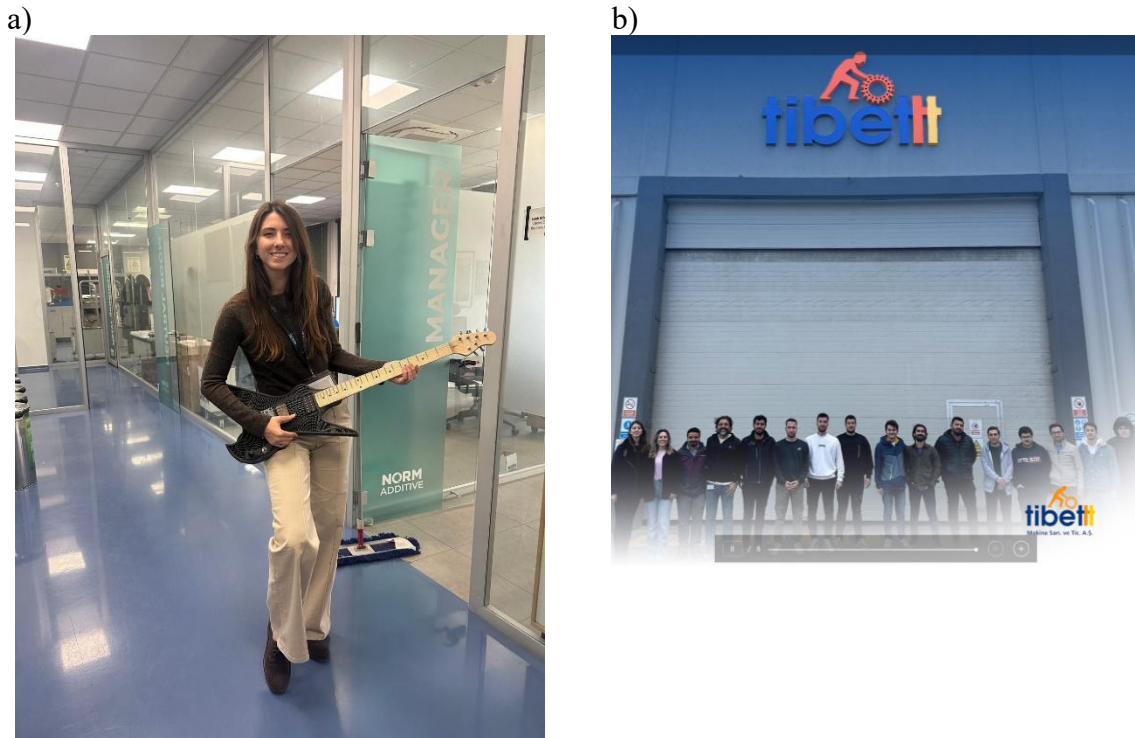


Figure 5: Photos from on-site visits to a) Norm Additive Company and b) Tibet Makina Company



4. Future Events

As discussed earlier, all the networking events planned within the scope of the TWIN-IT-ROMANS project are on track except for a slight delay on the Workshop on Intelligent Manufacturing (WoIM), which is being organized by Dr. Buğra Alkan from LSBU to be held on 13-15 May 2026 in London, UK. The project teams from all the partners and participants from industrial sectors and academia will be ensured to enhance the networking potential.

📅 Day 1 – 13 May 2026		
08:30 – 09:00	👤 Registration & Welcome Coffee	
09:00 – 09:30	🎤 Welcome Addresses	Prof Issa Chaer & Prof Ian Mackie (London South Bank University)
09:30 – 10:15	🏭 Host Institution Keynote – Intelligent Manufacturing at LSBU	Dr Bugra Alkan (London South Bank University)
10:15 – 10:30	☕ Coffee Break	
10:30 – 11:15	🎓 Invited Academic Talk	Prof Saurav Goel (London South Bank University)
11:15 – 11:30	☕ Coffee Break	
11:30 – 12:15	💻 Invited Academic Talk (Online)	Prof Duc Pham (University of Birmingham)
12:15 – 13:30	🍽️ Lunch	
13:30 – 14:05	🎓 Invited Academic Talk	Dr Evelynne El Masri (Brunel University London - Brunel Innovation Centre)
14:05 – 14:20	☕ Coffee Break	
14:20 – 15:05	🎓 Invited Academic Talk	Dr Natalia Hartono & Dr Malarvizhi Kaniappan Chinnathai (University of Exeter)
15:05 – 15:50	🧠 Panel Discussion – From Research to Industrial Impact in Intelligent Manufacturing	
16:00	📸 Group Photo – LSBU Borough Road	
16:15 – 18:00	🔬 Guided Laboratory Tours & Live Demonstrations Intelligent pilot cells with technical staff ⚡ PhD Poster Flash Session	
19:30	🍷 Workshop Dinner (External Venue)	
📅 Day 2 – 14 May 2026		
09:00 – 09:20	🌐 Project Overview & Strategic Vision	Prof Can Dede (Izmir Institute of Technology)
09:20 – 10:00	🏭 Industry Session I – Industrial Expert Presentations	
10:00 – 10:20	☕ Coffee Break	



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10:20 – 11:00	🏭 Industry Session II – Industrial Expert Presentations	
11:00 – 11:15	☕ Coffee Break	
11:15 – 12:15	💡 Industry–University Dialogue Session	
12:15 – 13:30	🍽️ Lunch	
13:30 – 13:50	📄 Project Progress Report	Prof Can Dede (Izmir Institute of Technology) & Dr Evren Samur (HKTM)
13:50 – 14:10	📢 Dissemination & Communication Report	Dr Busra Karas (Izmir Institute of Technology)
14:10 – 14:30	⚖️ Gender Equality & Inclusivity Report	Dr Benay Uzer Yilmaz (Izmir Institute of Technology)
14:30 – 14:45	☕ Coffee Break	
14:45 – 15:00	🔧 Technical Work Package Updates 🌱 Materials & Hybrid Manufacturing Component	Dr Busra Karas (Izmir Institute of Technology) & Prof Alborz Shokrani (University of Bath)
15:00 – 15:15	🔧 Technical Work Package Updates 🔍 Inline Quality Control	Dr Halil Tetik (Izmir Institute of Technology) & Dr Bugra Alkan (London South Bank University)
15:15 – 15:30	🔧 Technical Work Package Updates 🔧 Cell Optimisation	Prof Gokhan Kiper (Izmir Institute of Technology) & Prof Burkhard J. Corves (RWTH Aachen University)
15:30 – 15:45	🔧 Technical Work Package Updates 🏗️ Prototype Development	Prof Can Dede (Izmir Institute of Technology), Prof Giuseppe Quaglia (Politecnico di Torino) & Benjamin Massow (MCI Innsbruck)
15:45 – 16:00	☕ Coffee Break	
16:00 – 16:15	🔧 ESR Technical Presentations - I	Berk Kurt (Izmir Institute of Technology)
16:15 – 16:30	🔧 ESR Technical Presentations - II	Nazife Cerci (Izmir Institute of Technology)
16:30 – 16:45	🔧 ESR Technical Presentations - III	Gizem Merve Gunduz (Izmir Institute of Technology)
16:45 – 17:00	🔧 ESR Technical Presentations - IV	Hasan Cezayirli (Izmir Institute of Technology)
17:00 – 17:15	☕ Coffee Break	
17:15 – 18:00	📁 Parallel Work Package Discussions	
19:30	🍷 Workshop Dinner (External Venue)	



Day 3 – 15 May 2026		
09:00 – 10:30	💡 IP Strategy & Funding Opportunities (EU & UKRI Seminar)	Neil Pearce & Rahimunnessa Syeda Lynam (London South Bank University)
10:30 – 11:00	☕ Coffee Break (30 minutes)	
11:00 – 11:30	🎓 Aachen Summer School – Plans & Expected Outcomes	Prof Burkhard J. Corves (RWTH Aachen University)
11:30 – 12:30	🌐 Concluding Roundtable – Future Collaboration & Joint Funding	
12:30 – 13:00	🏛️ Closing Remarks	Coordinator: Prof Can Dede Host Institution: Dr Bugra Alkan

13-15 MAY 2026

WORKSHOP ON INTELLIGENT MANUFACTURING

TWIN-IT-ROMANS HORIZON EUROPE PROJECT

Passmore Centre, 12 Borough Road, London, SE1 0AN, UK

This invitation-only workshop brings together leading researchers and project partners to advance robotic hybrid manufacturing, AI-enabled digital twins, and interoperable production systems within the TWIN-IT-ROMANS pilot framework.

Workshop Chair:
Dr Bugra Alkan
Director, Human-Centred Industrial Intelligence (HCIP) Lab
School of Computer Science and Digital Technologies
College of Technology and Environment, London South Bank University

Core Themes

- Robotic hybrid manufacturing for large and complex components
- In-process sensing and closed-loop quality assurance
- Digital twins for continuous shop-floor synchronisation
- OPC UA-based industrial communication
- AI for adaptive, resilient and self-optimising production systems
- Reconfigurable and human-centric manufacturing cells
- Pilot-scale implementation and system-level validation

Programme Highlights

- Consortium and invited keynote talks
- AI-enabled demonstrators and digital twin solutions
- Integration workshops and technical alignment sessions
- Collaborative project working sessions and technical roadmap discussions
- PhD and early-career research forum, laboratory tour, and IP briefing

For enquiries: alkanb@lsbu.ac.uk

Official Project Partners:

Keynote Speakers

Prof Duc Pham
University of Birmingham

Prof Saurav Goel
London South Bank University

Dr Evelyne El Masri
Brunel University of London

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Figure 6: Tentative flyer and agenda of the WoIM