

EIT HEI Initiative

Innovation Capacity Building
for Higher Education



A body of the European Union



Alliance for Sustainable
Product Innovation in a
Data Driven Economy



RawMaterials

DeepTech & Innovation Online School
Sustainable Product Design in a Digital Age
Monday, 3rd to Friday, 7th November 2025

AGENDA



A-SIDE

a-side-project.eu

Coordinated by



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DAY 1 *Deep Tech and Sustainable Product Design*

Date: **Monday 3rd November 2025**

Host: **Prof. Dermot Brabazon, Dublin City University**

All times are CET time

9.45 - 10.00	Registration to the Zoom Platform
10.00-10.10	Opening of the Online School Prof. Dermot Brabazon, Dublin City University
10.10 - 10.30	EIT RawMaterials: Driving Innovation and Skills for the Raw Materials Sector Dr. Fabio Ferri, Education Manager, EIT RawMaterials, https://eitrawmaterials.eu/
10.30 - 11.00	Getting ready for the labour market of today and tomorrow: the role of the EIT Campus. Mr Gerard Dominguez, Head of Capacity Building at EIT Campus, https://eit-campus.eu/
11.00 - 11.30	A-SIDE project presentation Prof. Dermot Brabazon, Dublin City University
11.30 - 12.00	Break
12.00 - 12.30	SAIFA project, EuroHPC JU AI Factory Antennas, The Serbian Artificial Intelligence Antenna Factory Dr Dusan Vudragovic, Institute of Physics Belgrade, https://www.eurohpc-ju.europa.eu/eurohpc-ju-selects-ai-factory-antennas-broaden-ai-factories-initiative-2025-10-13_en
12.30 - 13.00	The Role of the Centre for Water for Sustainable Development and Adaptation to Climate Change (WSDAC), C2C under auspices of UNESCO, in Promoting New Technologies in the Water Sector Dr Brankica Majkić-Dursun, director WSDAC, Jaroslav Černi Water Institute, Belgrade, https://wsdac.jcerni.rs/
13.00-13.30	What is DeepTech? Intersection of Deep Tech and Sustainability Prof. Fatima Zivic, Vodena, University of Kragujevac
13.30-14.00	Leveraging Life Cycle Thinking (LCT) Tools to Guide Sustainable Design and Certification in Innovation-Driven Sectors Dr Irene Mazzei, University Bergamo
14.00-15.00	Lunch
15.00-15.30	F6S creating opportunities and synergies in DeepTech Dr Raquel Almeida, Co-founder & EU Projects Developer, F6S, https://www.f6s.com/
15.30-16.00	ILIAD3: an Applied Research Competence Center for AI-based Image and Data Processing Prof. Barthélémy Serres, University of Tours, https://iliad3.univ-tours.fr/english-version
16.00-16.30	Sustainability in Materials Design and Development Prof. Hakan Yilmazer, Gebze Technical University
16.30-17.00	Artificial Intelligence for Sustainable Product Design: From Data to Innovation Prof. Christophoros Nikou, University of Ioannina
17.00-17.30	Practical Assignment Session, End of day 1

DAY 2 *AI and Data Science in Sustainable Product Design and Energy Sector*

Date: **Tuesday 4th November 2025**

Host: **Prof. dr Ana Kaplarevic Malisic, Vodena, University of Kragujevac**

All times are CET time

10.00 - 10.30	AI-driven innovations in manufacturing and business Prof. Boban Stojanovic, Vodena, University of Kragujevac
10.30-11.00	Data-Driven Surrogate Models for Sustainable Design and Optimization Prof. Peyman Mahouti, Gebze Technical University
11.00 - 11.30	DeepTech in Cybersecurity Products Prof. Sedat Akleylek, University of Tartu, Estonia
11.30 - 12.00	Break
12.00 - 12.30	Supercomputing and Big Data - Industry Use Cases Prof. Milos Ivanovic, Vodena, University of Kragujevac
12.30 - 13.00	AI Tools and Best Practices for Software Development Dr Sergii Shelpuk, Shelpuk AI Technology Consulting, https://www.shelpuk.com/
13.00 - 13.30	SMARTICITY energy software – smart electricity Mr Nikola Bojović, Vodena, Kragujevac, Serbia, https://vodena.rs/
13.30 - 14.00	Machine Learning Applications for Sustainable Product Design in Energy, Environment, and Health Prof. Özgün Yücel, Gebze Technical University
14.00-15.00	Lunch
15.00-15.30	The Role of Atomistic Calculations in Energy Materials Research: From Hydrogen Capture to Battery Innovation Prof. Stevan Armaković, University of Novi Sad
15.30-16.00	Data management for local-level transition plans – energy and climate Prof. Mitar Perusic, University of East Sarajevo
16.00-16.30	Technology adoption by Energy sector SMEs Dr Maite Couto-Ortega, Mondragon University
16.30-17.00	The Fuel Cell: An Energy Converter of the future Prof. Cécile Autret Lambert, University of Tours, Gremam Laboratory
17.00-17.30	Sustainable Antenna Design for 5G and Beyond Applications via Deep Learning Prof. Peyman Mahouti, Gebze Technical University
17.30-17.40	End of day 2

DAY 3 Sustainable Product Design in Transport Sector

Date: **Wednesday 5th November 2025**

Host: **Prof Fatima Zivic, University of Kragujevac; Dr Aleksija Đurić, University of East Sarajevo**

All times are CET time

10.00 - 10.30	Railway transformation Mr Milos Stevanovic, Head of Production, Siemens Mobility d.o.o. Cerovac, https://www.mobility.siemens.com/rs/en.html
10.30-11.00	Sustainable vehicle design – a way for future mobility Prof. Jovanka Lukic, Faculty of Engineering, University of Kragujevac
11.00 - 11.30	AI-Driven Quality Optimization: Real-World Case Studies from Industrial Practice Dr Nemanja Pajic, ZF Serbia
11.30 - 12.00	Break
12.00 - 12.30	Critical Raw Materials for a Resource Efficient Circular Economy Prof. Inam Ul Ahad, Dublin City University
12.30 - 13.00	Sustainability in Conventional and Advanced Metallic Products Manufacturing Prof Hakan Yilmazer, Gebze Technical University
13.00 - 13.30	Leveraging AI for predictive maintenance Dr Javier Mendez Gomez, HTEC, Munich, Germany, https://htec.com/
13.30 - 14.00	Additive Manufacturing as a Digital Technology Dr. Eanna McCarthy, Dublin City University
14.00-15.00	Lunch
15.00-15.30	Study of finishing operation for thin-walled structures processed by LPBF additive manufacturing with Taguchi approach Lucas Chevailler, University of Tours
15.30-16.00	Managing the Invisible Highways: Transforming Urban Air Traffic into Opportunity Vladimir Spinko, Chief Executive Officer of Aery Bizkaia, Spain
16.00-16.30	The role of precise material model characterization in optimization of sheet metal forming processes Prof. Gábor J. Béres, John Von Neumann University
16.30-17.00	Design Thinking as Problem-Solving Methodology Iker Egizabal, Team Coach & Researcher Mondragon University
17.00-17.30	Joining Technologies in the Transport Sector: A Review Dr Aleksija Đurić, University of East Sarajevo
17.30-17.45	Physico-chemical analysis of the passive film formed on 316L stainless steel in alkaline media and prediction of its behavior using machine learning approaches Dr Kaouthar Bouguerra, Université de Tours
17.45-17.50	End of day 3

DAY 4 Sustainable Product Design in BioTech Sector

Date: **Thursday 6th November 2025**

Host: **Prof. Dr. Muhammet Uzuntarla, Gebze Technical University**

All times are CET time

10.00 - 10.30	Changing Drug Design Through the Use of Artificial Intelligence Prof. Dimitrios Fotiadis, University of Ioannina
10.30-11.00	AI-generated pharmaceutical formulations, Horizon Europe project i-GREENPHARM Prof. Milos Ivanovic, University of Kragujevac; Prof. Mohamed Elbadawi, Queen Mary University of London, https://igreenpharm-project.eu/
11.00 - 11.30	AI-First Pharmaceutical Innovation, DeepCeutix startup, https://www.deepceutix.com/ Prof. Mohamed Elbadawi, Queen Mary University of London
11.30 - 12.00	Break
12.00 - 12.30	Healthcare Technologies in the Era of DeepTech Gebze Technical University Prof.Dr. Muhammet Uzuntarla
12.30 - 13.00	Photonics as a Tool for Deeptech Dr. Ronan McCann, Dublin City University
13.00 - 13.30	DeepTech in Human-Centered and Sustainable Wearable AI Prof. Saban Ozturk, Gebze Technical University
13.30 - 14.00	Strategic Neurobranding in the Digital Age Prof. Snezana Mojsovska Salamovska, University of "St. Kliment Ohridski" Bitola, North Macedonia, EIT project NanoBioTech Nexus, https://eit-hei.eu/projects/nanobiotech-nexus/
14.00-15.00	Lunch
15.00-15.30	Challenges Faced in Establishing a Drug Discovery Startup Ana Bouchet, Co-founder and CEO, Lifesome Therapeutics start-up, Madrid, Spain, https://lifesometherapeutics.com/company/
15.30-16.00	Microelectronics and Sensors: from IoT to high energy physics Prof. Luigi Gaioni, University of Bergamo
16.00-16.30	Diabetes market analysis focused on the manufacturer of early detection products Dr Maider Beitialarrangoitia, Mondragon University
16.30-17.00	Reverse engineering and finite element methods for geometry reconstruction in medical applications Mrs. Klaudia Papp, John Von Neumann University
17.00-17.30	Deep Tech in the Browser: Building Global Access to Atomistic Calculations for Molecular Research Prof. Stevan Armaković, University of Novi Sad
17.30-18.00	Practical Assignment Session, End of day 4

DAY 5 Innovation & Entrepreneurship: Business and Innovation Management

Date: Friday 7th November 2025

Host: Prof. dr Giovanna Campopiano, University of Bergamo; Prof Yorgos Goletsis, Univeristy of Ioannina

All times are CET time

10.00 - 10.30	Pitching for Support: Focus on the Customer, End User, Funder Prof. Emer Ní Bhrádaigh, Dublin City University
10.30-11.00	Unlocking Intellectual Property Mr Peter Olwell, Dublin City University
11.00 - 11.30	Entrepreneurial Experimentation Dr Davide Hahn, University of Bergamo
11.30 - 12.00	Break
12.00 - 12.30	XRL: Exploitation readiness level: A sustainable maturity framework for the commercial valorisation of your technology Prof. Laida San Sebastian from Mondragon University
12.30 - 13.00	Impact finance and measurement Dr Fatima Badgaoui, University of Bergamo
13.00 - 13.30	Rethinking Innovation and Entrepreneurship through Sustainable Product Design Prof. Yorgos Goletsis, Nikolaos Alexandros Theodorou, University of Ioannina
13.30 - 14.00	From Laboratory to Marketplace Dr Nikolaos Alexandros Theodorou, University of Ioannina
14.00-15.00	Lunch
15.00-15.30	Market research for new business ventures Prof. Maria Rosa Scarlata, University of Bergamo
15.30-16.00	Sustainable Business Model Innovation Prof. Tommaso Minola, University of Bergamo
16.00-16.30	Innovation Thinking for Entrepreneurs: Creativity and Critical Thinking Prof. Lela Andreevska, University of "St. Kliment Ohridski" Bitola, North Macedonia, EIT project NanoBioTech Nexus, https://eit-hei.eu/projects/nanobiotech-nexus/
16.30-17.00	Shallow Tech vs Deep Tech Mr Terence Bowden, Dublin City University
17.00-17.30	Practical Entrepreneurship in an University Setting – Startup Experience from DCU Alpha and Video recordings from Start-ups pitching for Investment Mr Terence Bowden, Dublin City University
17.30-18.00	Practical Assignment Session, End of day 5

2 weeks follow up for Practical Assignment - Pitching presentations

Date: **Monday to Friday 10-21 November 2025**

Hosts: **Prof Yorgos Goletsis, Univeristy of Ioannina, Prof. dr Giovanna Campopiano, University of Bergamo; Prof. Fatima Zivic, Vodena, University of Kragujevac**

All times are CET time

Monday, Nov 10	
16.00-17.30	<p>Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring</p> <p>Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges that we provided or for their own idea propositions.</p> <p>Recommended Pitch Structure:</p> <p>Problem/Need</p> <p>Target Group - Early Adopters</p> <p>Market - Basic Segmentation</p> <p>Product/Service</p> <p>The Team</p> <p>How Do You Earn?</p> <p>Call to Action (CTA) – What are you asking for – what support do you need?</p>
Wednesday, Nov 12	
16.00-17.30	<p>Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring</p> <p>Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges that we provided or for their own idea propositions.</p>
Friday, Nov 14	
16.00-17.30	<p>Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring</p> <p>Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges that we provided or for their own idea propositions.</p>
Monday, Nov 17	
16.00-17.30	<p>Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring</p> <p>Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges that we provided or for their own idea propositions.</p>
Wednesday, Nov 19	
16.00-17.30	<p>Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring</p> <p>Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges that we provided or for their own idea propositions.</p>
Friday, Nov 21	
16.00-17.30	<p>Pitching for Support: Trainees' presentation (1-3 slides, pdf) and Mentoring</p> <p>Students will be granted full audio and video access to Zoom to present their solutions: Pitch for support to solve some of the challenges they that we provided or for their own idea propositions.</p>