From AI Research to Clinical Implementation – BosomShield Summer School
(September 8th - 12th, 2025)

Venue: Maribor, Slovenia (Faculty of Electrical Engineering and Computer Science, University of Maribor)

Day 1: Opening Ceremony & Introduction to Clinical AI (September 8th)

Opening Ceremony (9:00 - 09:30)	Opening statements and welcome addresses
	Prof. dr. Zdravko Kačič, rector University of Maribor, Slovenia
	Mag. Ksenija Klampfer, Minister of Digital Transformation, Slovenia
	Dr. Aida Kamišalić Latifić, State secretary at the Ministry of Digital Transformation, Slovenia
	Iztok Kos, MD, State secretary at Ministry of Health, Slovenia
	Ministry of Higher Education, Science and Innovation, Slovenia, TBC
	Dr. Izidor Mlakar, University of Maribor, Slovenia
EU vision for healthcare AI (policy view) (9:30 – 10:00)	
EU Cancer Mission & Cancer Clusters	Marianne Ines DA SILVA, Health and Digital Executive Agency (HaDEA), TBC
AIA, MDR-IVDR	EVAS Tatjana, DG CNECT, European Commission
MSCA	Domna PASCHALIDOU, Research Executive Agency (MSCA), European Commission (REMOTE)
Keynote Address (10:00 - 11:00)	
Digital Transformation of Hospitals	Prof. dr. Vojko Flis, MD, general director of University Medical Centre Maribor, Slovenia
Healthcare innovation strategy	National Institute of Public Health (NIJZ), Slovenia, TBC
Vision for academic-clinical collaboration	Dr. Izidor Mlakar, University of Maribor, Slovenia
Coffee Break (11:00 - 11:30)	
Medical Research in Action (11:30 - 13:30)	**Research projects showcase session with Q&A**
BosomShield, Horizon Europe MSCA project	Prof. dr. Domenec Puig, Universitat Rovira i Virgili, Spain
DIOPTRA, Horizon Europe project	Dr. Christos Fotis, Protavio, Greece
RAIDO, Horizon Europe project	Prof. dr. John Shawe Taylor, Jožef Stefan Institute, Slovenia, TBC
SHIELD, Horizon Europe project	Prof. dr. Athanasios Anastasiou, Harokopio University of Athens, Greece (remote)
TARGET, Horizon Europe project	Dr. Hatem A. Rashwan, Universitat Rovira i Virgili, Spain
Immune checkpoint inhibitors	Assist. dr. Nežka Hribernik, MD, Institute of Oncology Ljubljana, Slovenia

Lunch & Networking (13:30 - 15:00)

Clinical Trial Design for AI-driven Cancer Research (15:00 - 16:30)

Topics: Trial types and methodologies, Statistical considerations, Protocol development.
Lecturers: Assoc. prof. dr. Georgios Dimitrakopoulos and Prof. dr. Athanasios Anastasiou, Harokopio University of Athens, Greece (remote)

Closing Remarks, Student Task assignments & Day 1 Wrap-up (16:30 - 17.00)

Day 2: Regulatory Framework & Compliance (September 9th)

European Medical Device Regulation (9:00 - 10:00)

Topics: Overview of MDR framework, Classification of AI-based medical devices, Risk classification and management, Post-market surveillance requirements
Lecturer: Dr. Magda Chatzikou, PharmEcons Easy Access, Greece

Coffee Break (10:00 - 10:30)

AI Act & Compliance (10:30 - 11:30)

Topics: Intersection of MDR and AI Act, Additional requirements for AI systems, Impact on medical device development
Lecturer: Dr. Piercosma Bisconti, DEXAI, Italy

HTA and Health Economics (11:30 - 13:00)

Topics: Economic evaluation methods, Cost-effectiveness analysis, Quality-adjusted life years (QALYs), Healthcare resource utilizationLectu
Lecturer: Dr. Magda Chatzikou, PharmEcons Easy Access, Greece

Lunch & Networking (13:00 - 14:00)

Practical Compliance Workshop (14:00 - 17:00)

Lecturers: Dr. Magda Chatzikou and Dr. Piercosma Bisconti

Closing Remarks & Day 2 Wrap-up (17:00 - 17:30)

Day 3: Clinical Research & Ethics (September 10th)

Bridging the Gap Between AI Research & Clinical Adoption (9:00 - 10:30)

Success stories and lessons learned   Dr. Matej Horvat, MD, Department of Oncology, UMC Maribor, Slovenia

Key challenges and opportunities	Sara Močnik, MD, Unit for pediatric and adolescent psychiatry & Prof. dr. Hojka Gregorič Kumperščak, MD, Head of Unit for pediatric and adolescent psychiatry, UMC Maribor, Slovenia
The potential of AI in health registries - the case of the Slovenian Cancer Registry	Dr. Tina Žagar, Institute of Oncology Ljubljana, Slovenia
Coffee Break (10:30 - 11:00)	
Ethical Aspects of Medical AI (11:00 - 12:30)	
Ethical Frameworks for Clinical Implementation of AI	Dr. Antonio Carnevale, University of Bari, Italy
Bias & End-User Perspective	Prof. dr. Bojan Musil, University of Maribor, Slovenia
XAI & Transparency	Dr. Izidor Mlakar, University of Maribor, Slovenia
Lunch & Networking (12:30 - 14:00)	
Internet of Things - Case Studies & Workshop (14:00 - 17:00)	
Cloud Computing and Sensing networks 1	Dr. Zouhair Haddi, NVISION Systems, Spain
Cloud Computing and Sensing networks 2	Dr. Nurlan Dauletbayev, University Marburg, Germany
Closing Remarks & Day 3 Wrap-up (17:00 -17.30)	

Day 4: Interoperability, Commercialization & Funding (September 11th)

Interoperability, Standardization and Data Spaces in Medical AI (09:00 - 10:00)	
Healthcare data standards, Data spaces implementation, Cross-border sharing	Dr. Antonis Billis, Aristotle University of Thessaloniki, Greece
Coffee Break (10:00 - 10:30)	
Commercialization and Funding	
From Cancer Research to Startup (10:30 - 11.30)	Dr. Christos Fotis, Protavio, Greece
Commercial Exploitation of Research and Innovation Projects (11:30 - 12:30)	Dr. Marios Logothetis, Netcompany – Intrasoft, Greece
Medical Research Ecosystem (12:30 - 13:00)	Prof. dr. Denis Horgan, European Alliance for Personalised Medicine
Lunch & Networking (13:00 - 14:00)	
Future of AI in Cancer Research and Practice (14:00-14:30)	Dr. Antonis Billis, Aristotle University of Thessaloniki, Greece
Closing Remarks & Day 4 Wrap-up (14:30 -15:00)	

*Maribor - guided city tour (15:00 - 16.15) - TBC
BosomShield project meeting (15:00 – 17.00) (CLOSED meeting for BosomShield project partners)

Day 5: Student, Early Research Contributions (September 12th)　　　　　　　　(CLOSED meeting)

Group Project Presentations & Discussion (9:00 - 12:00)	BosomShield Students
Closing Remarks and Wrap-up (12:00-12:30)	
Lunch & Networking with goodbye (12:30 - 15:00)	