



This project is co-financed by the European Union
and the Republic of Türkiye



ICTürkiye2025
10 April, İstanbul

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ORGANIZATION: Mergentech
Eskisehir Osmangazi University (ESOGU)
Bilecik Seyh Edebali University (BSEU)

WORKSHOP NAME: Digital and Smart Health
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Description of the Organisation

Mergentech: As a pioneer in healthcare informatics, Mergentech delivers innovative software solutions to numerous healthcare institutions, enhancing diagnostics and patient care through advanced technology.

ESOGU: A leading institution in medical education and research, ESOGU's Medicine Hospital offers comprehensive healthcare services with advanced facilities, including a Multifunctional Central Laboratory and 20 operating rooms.

BSEU: Through its affiliation with Bilecik Training and Research Hospital, BSEU integrates medical education with practical healthcare services, providing students with hands-on clinical experience in a facility equipped with modern laboratories and imaging devices.



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Your Teams' Expertise



Clinical & AI Synergy

- Generative Assistants
- Trustworthy AI
- Clinical Expertise
- Academic Collaboration



Digital Health Innovation

- Scalable Platforms
- Real-Time Analytics
- Seamless Integration
- Regulatory Compliance

Your Research Fields

AI-Powered Diagnostic Support in Orthopedics

Utilizing generative AI to assist in rapid and accurate diagnosis of rotator cuff tears from MRI scans.



AI-Enhanced Medical Imaging and Communication

Transforming raw MRI data into intuitive visuals using AI to improve both clinical decision-making and patient communication.



Intelligent Virtual Health Assistants

Developing mobile-based virtual assistants to guide patients through diagnostic results and post-diagnosis care pathways.



Healthcare Data Interoperability and Infrastructure

Designing modular, HL7-compliant systems for secure and seamless integration of medical data across platforms.



Your On-going Projects

ESOGU:

- **VALU3S: Verification and Validation of Automated Systems' Safety and Security**
Funded by: *H2020-ECSEL-2019-2-RIA, 2020-2023*
- **OPEVA: OPTimization of Electric Vehicle Autonomy**
Funded by: *HORIZON-KDT-JU-2021-2-RIA, 2023-2025*
- **XR4HRC: Excellence in Extended Reality for Human-Robot Collaboration**
Funded by: *XR2Learn Open Call 1, 2024*

MERGENTECH:

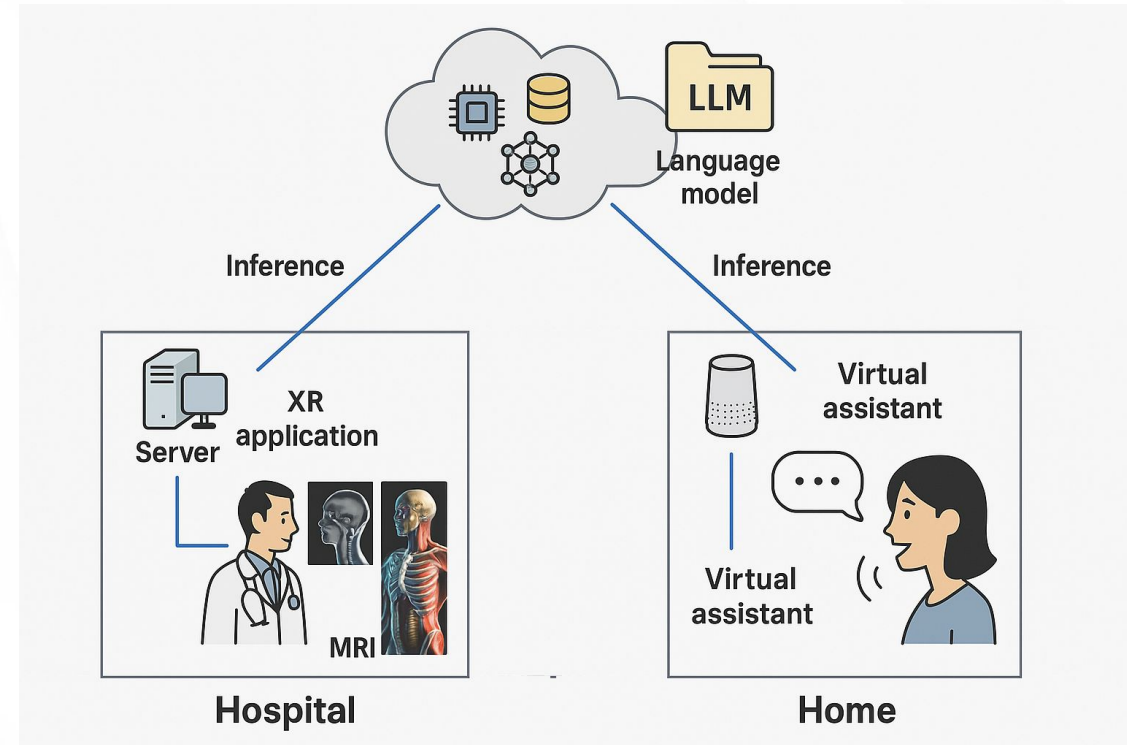
- **Web-Based Design and Development of Kidney Transplant Preparation, Council, Operation, Hospitalization, and Post-Discharge Processes with Decision Support Infrastructure**
Funded by: *TÜBİTAK 1501 Call, 06.2023-12.2024*
- **Design and Development of a Health Tourism Platform with an Algorithmic Decision Support System for Diagnosis**
Funded by: *TÜBİTAK 1501 Call, 11.2023-12.2024*

Project Idea

Call Topic: *HORIZON-HLTH-2025-01-CARE-01*: End user-driven application of Generative Artificial Intelligence models in healthcare (GenAI4EU).

Deadline Dates: 18 Sep 2025

- ❑ **Objectives:** Enhancing healthcare through GenAI.
- ❑ **Expected Results:** Healthcare professionals and patients benefit from trustworthy, user-centric Generative AI virtual assistant solutions, enhancing personalised care quality, patient engagement, cross-country acceptance, and cost-effective healthcare outcomes.



Consortium - profile of known partners (if any)

No	Partner Name	Type	Country	Role in the Project
01	ESOGU	RTO	Türkiye	Leading role
02	MERGENTECH	SME	Türkiye	Technical role
03	BSEU	RTO	Türkiye	Support role
04				
05				

Consortium – required partners

No	Expertise	Type	Country	Role in the project
01	GenAI; Fine Tuning, TRISM	SME-RTO	Out of Türkiye	Technological Partner
02	Cross-country use case	RC-Hospital	Out of Türkiye	Partner
03	+3 Use cases	RC-Hospital	In or Out of Türkiye	Partner
04	Others; related the call	SME-RC	Out of Türkiye	Partner



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