



ChatMED Quarterly

Knowledge Flow & Technical Mastery

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Edition 03 | Q3 (March – May 2025)

As we entered our third quarter, ChatMED transitioned from building its "engine" to demonstrating its power. This spring was marked by three pivotal milestones: the launch of our inaugural public "Industry Day," the execution of specialized technical training sessions, and an intensive knowledge-transfer mission to Slovenia.

CiiT 2025: Bridging the Industry-Research Divide

⌚ April 25–26, 2025 | Hotel Sirius, Strumica

In April, ChatMED took center stage at the 22nd CiiT Conference. This two-day event served as our first public "Message Transfer" milestone, where research met real-world application.

The Industry Panel:

We hosted an intensive session with regional healthcare and tech leaders to discuss the commercialization of AI.

Strategic Collaboration:

FCSE unveiled a framework offering industry partners access to our H100 research infrastructure.

Attending Industry Leaders:

We were honored to host representatives from Sorsix International, Ekonet, RL Datix, Adagon, Zan Mitrev Clinic, and Axians to discuss the future of AI-driven clinical diagnostics.

Training Mastery:

While the industry discussed strategy, our technical teams led hands-on training for participants:

- 🕒 Generative AI Trends (led by Prof. Dimitar Trajanov).
- 🕒 Prompt Engineering (led by Asst. Ana Todorovska).
- 🕒 Networking & Collaboration / Infrastructure & HPC (led by Prof. Monika Simjanoska Misheva).

Staff Exchange: Advanced Neuro-Informatics at JSI

⌚ May 12–31, 2025 | Jožef Stefan Institute, Ljubljana

Knowledge transfer is the heart of the "Widening" mission. In May, a specialized 5-member delegation from FCSE completed an intensive Short-Term Staff Exchange (STSE) at the Jožef Stefan Institute (JSI).

The Team:

The exchange featured young researchers Asst. Dimitar Kitanovski and Asst. Ana Todorovska, supported by the senior expertise of Prof. Kostadin Mishev, Prof. Katarina Trojancanec Dineva, and Prof. Monika Simjanoska Misheva.

Research Focus:

👤 The activity investigated the design of AI-based systems for guiding users through authentic neurological case studies.

👤 The team implemented a preliminary web interface for future testing and validation of the multi-agent system.

👤 A setup for evaluating the neuroimaging capabilities of multimodal LLMs was established.

👤 The first regulatory paper was initiated guiding the developers through the AI Act while remaining compliant with MyHealth@EU.

👤 A benchmark dataset for evaluating retrieval-augmented generation pipelines in theoretical medical knowledge was created.

Technical Spotlight: Decoding Alzheimer's

⌚ May 23, 2025 | Breakthrough in Knowledge Representation

A Unified Framework for Alzheimer's Disease Knowledge Graphs

This review paper synthesizes the application of knowledge graphs (KGs) in Alzheimer's disease (AD) research, based on two basic questions, as follows: what types of input data are available to construct these knowledge graphs, and what purpose the knowledge graph is intended to fulfill.

Q3 Progress at a Glance

Industry Engagement:

Full-scale panel with Sorsix International, RL Datix, Ekonet, Zan Mitrev Clinic, Adagon, and Axians.

Technical Mobility:

Successful 5-member STSE completion at JSI, Ljubljana.

Neurological Reasoning:

Completion of the orchestrator workflow planning and modular agent functionalities.

Evaluating Neuroimaging Performance:

Establishing a methodology for evaluation of vision-enabled LLMs.

AI Act & MyHealth@EU Compliance:

Writing a paper that addresses the strict high-risk systems requirements of the AI Act and the interoperability demands of MyHealth@EU for full-scale integration of AI-aided clinical decision software.

RAGCare-QA:

A benchmark dataset for evaluating retrieval-augmented generation pipelines in theoretical medical knowledge.

A Message from the Project Coordinator

"Q3 was the moment ChatMED truly opened its doors. By sharing our infrastructure with the industry and sending our specialized team to master AI orchestration in Ljubljana, we are proving that Widening countries are the architects of the medical AI future."

— Dr. Monika Simjanoska Misheva, Project Coordinator

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