

STUDY VISIT AND MATCHMAKING DIGITAL HEALTH

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aiSynesthesia!



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Who we are?



We are start-up company experienced in incubating ideas from the seed phase through start-up development and implementation to the final phase to servicing the finished idea.



Our team is experienced in **technological**, **medical** as well as **business areas**.

Our **research team** has extensive experience in:

conducting research in the
field of **artificial
intelligence** and **Big Data**

building neural networks

designing and implementing large IT
systems related to **Data Mining**
and **Business Intelligence**

Our research support asset

- Experienced in the development and implementation of IT solutions based on AI (Artificial Intelligence) to be used by the following sectors: **MedTech**, **Security**, **FinTech** and **EdTech**.
 - Finding and initiating cooperation with project partners from Poland and Europe: scientific and medical institutes, hospitals, LEA's, public security services responsible for public safety issues



Calls of interest

HORIZON-HLTH-2026-01-TOOL-01 - Development of predictive biomarkers of disease progression and treatment response by using AI methodologies

Develop an **AI-powered platform** that integrates and analyses multimodal biomarker data — including molecular, imaging, physiological and digital signals — to identify and validate predictive biomarkers of disease progression and treatment response in chronic non-communicable diseases. The solution could offer clinicians intuitive, interactive visualisations and trustworthy AI explanations to support personalised treatment planning and better patient outcome.

HORIZON-HLTH-2027-01-TOOL-04: Virtual Human Twins (VHTs) for integrated clinical decision support in prevention and diagnosis

Develop explainable **AI-powered tools** to integrate and analyse multi-scale, multi-organ patient data, creating dynamic, patient-specific Virtual Human Twin (VHT) models to support prevention and diagnosis of complex diseases. The solution could offer clinicians intuitive visual interfaces and real-time decision support, enhancing understanding of comorbidities and disease trajectories. Making these AI tools interoperable and user-centred we could translate advanced modelling into cost-effective, personalised care pathways.

HORIZON-HLTH-2027-01-IND-03: Regulatory science to support translational development of patient-centred health technologies

Develop **AI-based methodologies** and **user-friendly tools** to integrate and visualise diverse biomedical and digital evidence, helping regulators better evaluate safety, performance and patient impact of innovative health technologies across their lifecycle. By **combining** explainable **AI with interactive visual dashboards**, we could support clearer interpretation of complex multimodal data for clinical evaluation, including real-world and AI-generated evidence. This would help accelerate the translation of patient-centred technologies into clinical practice while maintaining robust regulatory standards.

Our experience

Member of national consortium:

- **COVID FAST: Evaluation of pulmonary parenchymal damage occurring in patients with COVID-19 infection and its impact on pulmonary circulation - an innovative, hybrid protocol based on MRI and US examination, assisted by artificial intelligence algorithms**
(Estimated Project Cost: 9.465.870,00 PLN starts 01.12.2021)

Members of our team also take part in international projects such as:

- **HOTHREAT - CBRNe protection measures for hotels and conference centres**
(Estimated Project Cost: €3.277.228,10 starts 01.06.2023) → <https://hothreat.eu>
- **ICAREWOUNDS - Intelligence and integration of care for smarter chronic wounds management**
(Estimated Project Cost: €1.609.345,33 starts 01.04.2024) → <https://icarewounds.eu>
- **UNICOPS - Universal CBRNE protection system supporting the safety and open nature of higher education institutions**
(Estimated Project Cost: €3.333.332,48 starts 01.03.2025)

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Thank you

