

Partner Search Form
Horizon Europe
Health



Date

Deadline

CONTACT

Organisation	Digital Kinetics d.o.o.	Department	
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Country	Croatia		

Organisation type

Research organisation type	☐ Research Organisation ☐ University ☒ Company ☐ Other	Is your company a Small and Medium Sized Enterprise (SME*)? Number of employees: 3	☒ YES ☐ NO
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Your enterprise is an SME if:

- it is engaged in **economic activity**
- it has **less than 250 employees**
- it has either an **annual turnover not exceeding €50M**, or an **balance sheet total not exceeding €43M**
- it is **autonomous**

For the definition of SMEs, look at: http://ec.europa.eu/growth/smes/business-friendly-environment/sme-definition_en

Short introduction of key areas of institute's research:

Digital Kinetics d.o.o. is a specialized technology SME based in Croatia, operating an elite **motion capture studio** equipped with **24 Vicon Valkyrie VK-26 motion capture cameras**. Having built our core expertise delivering high-fidelity data for top-tier AAA film and game productions, we are now actively transferring this infrastructure into the European digital healthcare sector. We provide the **physical tracking environments and precise data generation necessary to power virtual human twins, biomechanical modeling, and personalized medicine frameworks**.

We specialize strictly in capturing exact full-body human kinematics and baseline gait profiles. Our studio delivers fully cleaned, calibrated, and labeled .C3D and .FBX datasets. These raw data streams are completely optimized for seamless ingestion into AI algorithms. By turning physical movement into precise data, we help partners train and validate AI-driven virtual human twins. Our focus is capturing absolute-precision, real-world human movement data to feed, train, and validate innovative health technologies.

We aim to join consortia led by medical universities, research hospitals, and established healthcare coordinators who already possess the medical and clinical expertise, but require a highly capable, agile partner to build, scale, and secure the digital components of their Cluster 1 Health projects. We serve as a technological partner.

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Former participation in an FP European project?

☐ YES ☒ NO

Project title / Acronym:

Activities performed:

Expertise / Commitment offered

Description of your expertise:

Digital Kinetics d.o.o. is a Croatia-based technology SME operating an elite, 24-camera **Vicon Valkyrie VK-26** motion capture studio. Built on delivering high-fidelity data for top-tier AAA film and game productions, we deploy this advanced setup within the European digital healthcare sector. We specialize in capturing exact full-body human kinematics and baseline gait profiles to fuel **Horizon Europe Cluster 1 (Health)** projects.

Our studio maps onto three critical destinations within the Horizon Europe Health Work Programme:

Destination 1: Staying Healthy in a Rapidly Changing Society

- **Baseline Gait Profiles:** Tracking early functional decline and mobility changes in aging populations.

Destination 3: Tackling Diseases and Reducing Disease Burden

- **Validated Data Generation:** Providing absolute-precision movement data as objective endpoints for clinical trials.

Destination 5: Unlocking Digital Solutions for a Healthy Society

- **Virtual Human Twins:** Capturing real-world human movement data to train, feed, and validate AI-driven virtual twins.
- **Biomechanical Modeling:** Delivering calibrated inputs required for predictive modeling and personalized medicine frameworks.

We are the ground-truth data engine. While computer scientists build the AI algorithms for the biomarkers and Virtual Human Twins, Digital Kinetics d.o.o. provides the 24-camera Vicon Valkyrie physical infrastructure required to feed, train, and validate those models with absolute-precision, AI-ready human kinematics.

Keywords specifying your expertise:

Motion capture, Vicon, Kinematics, Gait Analysis, Biomechanical Data, Ground-truth Data, Virtual Human Twins, VHT, digital twins, .C3D Parsing, .FBX Skeletal Rigging, Sensor Fusion, AI Predictive Analytics, Computer Vision, Real-world Evidence (RWE).

Commitment offered:

☐ Research ☐ Demonstration ☐ Training
☒ Technology ☐ Dissemination ☐ Other:

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Interested in participation in project types:

☒ Research & Innovation Action	☒ Innovation Action	☐ EIC Pathfinder
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Work Programme research areas: indicate your interest

Health cluster Cluster 1 Health projects

Call topic(s):

HORIZON-HLTH-2027-02-TOOL-01-two-stage: Development of predictive biomarkers of disease progression and treatment response by using AI methodologies for chronic non-communicable diseases
HORIZON-HLTH-2027-03-TOOL-04: Virtual Human Twins (VHTs) for integrated clinical decision support in prevention and diagnosis

Do you have other partners for this topic (which partners/country)?

Currently no.

Profile of partner sought

Role	☒ technology development	☒ research	☐ training
	☐ dissemination	☐ demonstration	☒ other <u>seeking consortium / coordinator</u>
Country /region	☒ Any		
Expertise required	To complete our technical loop, we require a Clinical lead – a major Research University or a University Hospital with access to patients, an AI & Technology lead who can ingest our .C3D/.FBX streams to train/test/validate the predictive algorithms.		

I agree with the publication of my contact data: ☒ YES ☐ NO