

EDITH: An ecosystem for digital twins in healthcare

Description

The overall aim of the EDITH project is to foster an inclusive ecosystem for Digital Twins in healthcare in Europe and to prompt the convergence of such an ecosystem towards a common strategy conducive to its further development. This is achieved by mapping and analysing the status of the fields which are crucial for the growth, uptake and use of digital twins in healthcare, including in silico medicine, health data interoperability, high performance computing, ethical and legal regulations etc. A vision for the integrated human digital twin will be developed, based on standardised (meta-) data and models, and a roadmap to realise that vision will be articulated. Additionally, a federated cloud-based repository will be established, to bring together currently available resources and best practices. The ecosystem will be leveraged to create a repository catalogue with available resources and recruit resources into the repository during the project. Conditions for integration in the repository in terms of required standards, regulations, meta-data, and others will be identified.

Finally, building on available infrastructure, a framework for a simulation platform will be put forward with pre-selected prototypes demonstrating a proof of concept. User communities (healthcare professionals, patients, industry and academia) will be actively involved in the process to ensure their needs are built into the architecture. Several activities will focus on the exploitation of parts of the repository and simulation platform. Throughout the entire EDITH action, the community, its stakeholders and relevant international partners will be consulted via advisory boards, public meetings, community challenges and other public activities in order to firmly establish a sustainable ecosystem allowing to realise the vision of the integrated digital twin for personalised healthcare.

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