



## **European Commission supports DigiTwins**

**Today, 18<sup>th</sup> of May, DigiTwins received an invitation from the European Commission to enter the next stage of the competition to become an EU Flagship for Future and Emerging Technologies. DigiTwins, a large research initiative in Europe and beyond aims at revolutionizing healthcare and biomedical research for the benefit of citizens and society and at contributing to Europe's Digital Single Market strategy through the creation of Digital Twins.**

“Today we're a significant step closer to the establishment of a system of truly personalized healthcare and health maintenance throughout Europe, which will save millions of lives and billions of healthcare costs in the future.”, rejoices Prof. Hans Lehrach, who leads the initiative, after the announcement of the news. The DigiTwins Coordination Team has gathered to celebrate and to plan the next steps leading up to the submission of the full proposal to the EC in September this year. “We're well prepared for the next stage of the competition, but the next three months will be marked by intensive efforts together with all partners and stakeholders, to create a convincing application.”, predicts Dr. Nora Benhabiles, Co-Coordinator of the initiative.

Since its foundation, DigiTwins has grown from an innovative idea to an initiative with more than 200 partners in 32 countries and first applications of its concept in real-life trials. In February, the DigiTwins initiative submitted a first proposal to the EC and thus took the first step, of a three stage process, towards becoming an EU Flagship for Future and Emerging Technologies (FET). Stage two, in which a full proposal for a candidate FET-Flagship is submitted, will kick-start with a DigiTwins partner meeting in Berlin at the end of this month. If successful, DigiTwins would be financially supported by the EC over a one-year period to prepare for stage three: the final selection of the FET-Flagships. FET-Flagships are science- and technology-driven, large-scale, multidisciplinary research initiatives built around a visionary unifying goal that are promoted and financed by the European Commission under its Research and Innovation Program Horizon 2020 with one billion euros over ten years.

ADAGOS supports DigiTwins, because we believe in DigiTwins' promise to create a personal Digital Twin for every European citizen and their revolutionary potential for our digital health society. Digital Twins, accurate computer models of the key biological processes within every individual that keep us healthy or lead to disease, will be used to identify individually optimal therapies as well as preventive and lifestyle measures, without exposing individuals to unnecessary risks and healthcare systems to unnecessary costs.

Are you excited about the idea of revolutionizing healthcare? Interested parties are invited to join the DigiTwins community to contribute actively or simply stay up-to-date on the initiative's activities via the DigiTwins website ([www.digitwins.org](http://www.digitwins.org)).

### **About DigiTwins:**

DigiTwins is a large research initiative that aims at establishing a personal Digital Twin for every European citizen. The community consists of more than 200 partners from industry, academic and clinical research institutions in 32 different countries. DigiTwins combines a transdisciplinary team of visionary scientists, clinicians, public health experts, policy makers, medical informatics experts, experts in Artificial Intelligence, experienced science management professionals, serial entrepreneurs, industry researchers and patient group representatives as well as experts from cross-cutting fields, such as economics, regulation, ethics, health insurance, data security and privacy. The initiative is led by Prof. Hans Lehrach (Charité – Universitätsmedizin Berlin), Dr. Nora Benhabiles (CEA - French Alternative Energies and Atomic Energy Commission) and Dr. Rolf Zetzl (BIH - Berlin Institute of Health).

For more information, please visit: [www.digitwins.org](http://www.digitwins.org)

### **About ADAGOS:**

ADAGOS offers deep learning solutions. In contrast with the state of art technologies in the domain, our products do not need intervention of the user in the learning process. This quality allows the professionals in other fields to take advantage of the deep learning solutions without losing focus on their core business.

In partnership with ANSYS, we developed dynaROM. dynaROM is able to learn physics, biology and human behavior from data and make accurate long-term prediction, thus it builds the digital twin of underlying phenomenon. In medical applications, multiple treatment scenarios can be tested on a digital twin in negligible time, enabling the choice of an optimal decision for a real patient.



ADAGOS is strongly involved in medical applications and is a partner in the H2020 European Project SPINNER (SPINe: Numerical and Experimental Repair strategies). Our mission in the SPINNER project is the development of the digital twin for the spine of individual patient. This will allow the medical practitioners to test the multiple possible scenarios of the surgical intervention instantaneously.

ADAGOS plays a role of technology provider for DigiTwins. However, ADAGOS solutions are not limited to medical applications only, and are of great interest for any field of application that can benefit from the digital twin.

For more information, please visit: <http://www.adagos.com>

**Contacts:**

[contact@adagos.com](mailto:contact@adagos.com)

[digitwins@bihealth.de](mailto:digitwins@bihealth.de)