

PRESS RELEASE

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## Diabetes, prevention and Artificial Intelligence: Spindox contributes to healthcare with the project PRAESIIDIUM

*Among the “Staying Healthy” projects, PRAESIIDIUM is coordinated by Spindox Labs, and is one of a series measures by which the EU aims to fight the risk of chronic diseases by using AI tools and technologies.*

On 30-31 January, Trento will host the kickoff meeting of **PRAESIIDIUM**, financed by the European Commission within the program **Horizon Europe** – Research and Innovation Actions. The project acronym stands for **PHYSICS INFORMED MACHINE LEARNING-BASED PRAEDICTION AND REVERSION OF IMPAIRED FASTING GLUCOSE MANAGEMENT**. The purpose of the prototype in study will serve as a **real-time, forecasting tool for diabethic risk**.

Undiagnosed diabetes affects a large portion of the population: 36% of adults citizens in Europe. Nevertheless, prediabetes is a condition that can be inverted even without the prescription of drugs. Hence the interest in applying mathematical models to simulate one’s own metabolism, hormone production from the pancreas, metabolites in the microbiome, the inflammatory process and the response of the immune system. This predicting algorithm will be trained with a rich set of information deriving from previous clinical data, from one’s own family history and from pilot studies which, thorough wearable sensors, will provide monitoring of glucose, bioimpence and heart rate.

The **consortium** is **finacend from the European Comminssion for the amount of €5,808,740** and will last for 36 months, until December 2023. It will be composed by 11 partners from Italy, Austria, Belgium, Latvia, Sweden and Switzerland. The project will be coordinated by **Cristiano Carlevaro, Managing Director of Spindox Labs**. In addition to coordinating, Spindox will handle the web infrastructure, data management, software and app development, and the data integration of the microbiota.

**Mauro Marengo, CEO of Spindox Labs:** «We continue to engage with the development of health technologies for prevention, monitoring and treatment of diseases and pathologies. After our project COD19 on the monitoring of Covid patients and predicting models for the course of the disease, the experience with our spin-off Dynamedics and GAIA!, the app for sharing updated information for infection and disease prevention during pregnancy, and the project REXASI PRO, for the design of intelligent wheelchairs, we explore a new area, to which we are certain we can bring value and accumulate experience».

**Paolo Costa, Chief Marketing and Communications Officer dof the Group:** «We embrace the guidelines established by the European institutions on the topic: “Staying healthy in a rapidly changing society”»



### About Spindox

*Spindox operates in the ICT services and products market, positioning itself as a company that designs, develops and integrates innovation. It is one of the top 50 companies in the sector in our country by turnover (source: IDC / Data Manager, 2020 data) and one of those with the highest growth rate over the last four years (CAGR 2017-2021 of 21%). The group has more than 1,000 employees (as of 31 December 2021) spread across nine Italian offices: Milan, Rome, Maranello, Turin, Florence, Cagliari, Trento, Bari and Ivrea and four foreign offices in Spain, Switzerland, the UK and the USA. Spindox's mission is to support its customers' business innovation by offering consultancy, IT and network engineering services, integrating technology, research and artificial intelligence.*

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