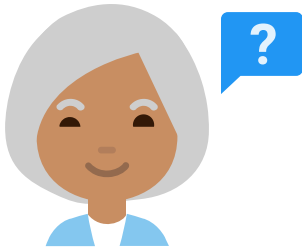


LETHE (λήθη)

A personalized prediction and intervention model for early detection and reduction of risk factors causing dementia, based on AI and distributed Machine Learning



01 Cognitive impairment



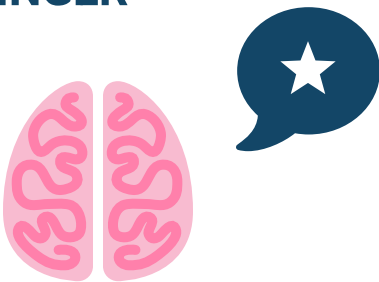
Cognitive impairment is common among elderly adults. Dementia, the most severe expression of cognitive impairment, affects nearly 50 million individuals worldwide.

02 Preventive interventions



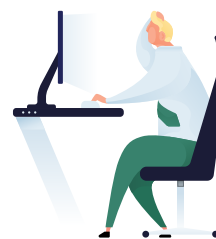
Dementia has long been considered to be neither preventable or treatable, today we know that the disease course might be modifiable with preventive interventions.

03 FINGER



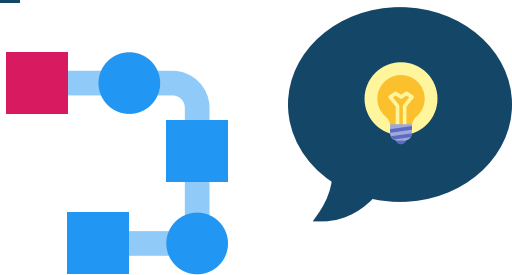
FINGER is the first large randomised controlled trial showing that it is possible to prevent cognitive decline using a multi-domain intervention.

04 LETHE project



LETHE project will evolve the clinical study into a digital model - **FINGER 2.0** - based on the IoT, Mobile, Big Data and AI, technologies.

05 Prediction model

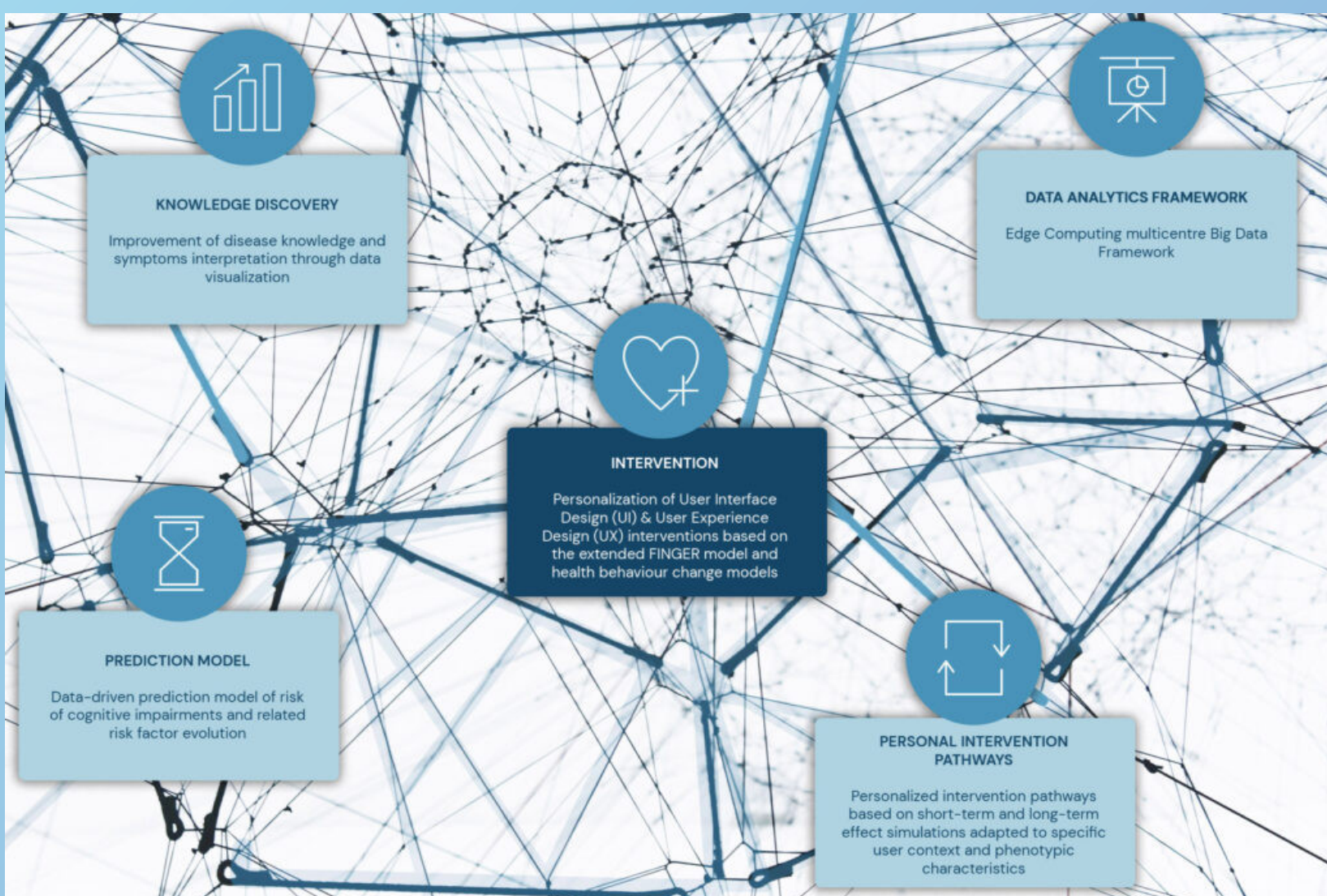


Data-driven prediction model of risk of cognitive impairments and related risk factor evolution.

06 Personal intervention pathways



Personalized intervention pathways based on short-term and long-term effect simulations adapted to specific user context and phenotypic characteristics



The LETHE approach targets the monitoring of the clinical markers, physical activity, cardiovascular risk, cognitive function, nutrition, relaxation and social interaction.

For more information www.lethe-project.eu



This LETHE-Project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no 101017405
<https://ec.europa.eu/digital-single-market/en/policies/ehealth>