Consortium

Project info

Start: 01.01.2023
Duration: 36 months
Participating Organisations: 17
Number of countries: 9
Project acronym: SECURED
Call: HORIZON-HLTH-2022-IND-13
Topic: HORIZON-HLTH-2022-IND-13-02
Type of action: HORIZON Research
and Innovation Actions
EU Contribution: € 6,999,723.25

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Scaling Up Secure Processing, Anonymization and Generation of Health Data for EU Cross Border Collaborative Research and Innovation
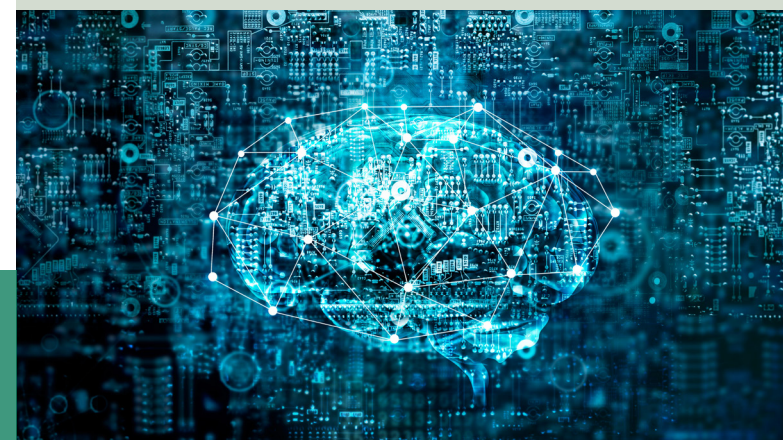
Overview

In SECURED, we offer a one stop collaboration hub, the SECURED Innohub, that can provide a secure environment for decentralized, cooperative processing of health data through SMPC techniques as well as generation of new, synthetic data and anonymization tools to health data providers and users.

Our goal is to facilitate the broad adoption of health data-sets across Europe by making the interconnection between EU health data hubs, the health data analytics research community, health application innovators, and end users.

The SECURED vision is to kick start an EU cross-border health data collaboration ecosystem for data providers, data re-searchers and innovators that will be able to produce new AI based data analytics solutions and stem innovation.

**Scaling Up Secure Processing,
Anonymization and Generation of Health Data
for EU Cross Border Collaborative Research and Innovation**

SECURED
EU Project

Objectives

• Develop scalable Secure Multiparty Computation (SMPC) schemes for AI-based health data analytics tools.

• Provide advanced Anonymization on Health datasets and AI models.

• Provide adaptable, configurable, and versatile Synthetic data-generation tools and services for health/medical synthetic data.

• Offer scalability support for SECURED health-data-related services and tools through the SECURED Federation Infrastructure.

• Integrate SECURED components in the SECURED Innohub that can offer tools, services, training and knowledge for a broad range of researchers and users.

• Evaluate the SECURED solution in terms of legal and ethical aspects, regarding cross-border use of anonymized and synthetic datasets, and AI models.

• Validation and Demonstration with four use cases involving cross-border EU health data hubs.

• Provide a viable dissemination, exploitation and business model of the SECURED solution.

SECURED Pilots

Pilot 1
(Erasmus Medical Center): Real-Time Tumor Classification

Pilot 2
(Paediatric Hospital Niño Jesús): Telemonitoring for Children

Pilot 3
(Semmelweis University): Synthetic-Data Generation for Education

Pilot 4
(Josep Carreras Leukaemia Research Institute): Access to Genomic Data

SECURED Innohub

Scalable SMPC-FHE Development Libraries

Anonymization/Bias Assessment/ Unbiasing Toolkits

Synthetic Data Generation Tools and Services

Risk Assessment, Anonymity & Legal Support Services