

AVATAR-Transfer - Anonymisation of personal health data by generating digital avatars



The Mission

The use and analysis of health data is essential for medical progress. However, since the data often contain sensitive personal information, they require special protection and their application is often legally restricted. The AVATAR-Transfer project aims to address this challenge by securely anonymising patient-related data, making it usable for research and development.



Project Goals

- Research and development of new solutions for the secure collection, processing and provision of health data
 - Further design and implementation of the AVATAR platform
 - Support of the development and application of a secure legal frame for the usage of secondary data
- Support of research in medicine and healthcare
 - Accelerated and cost-efficient development, admission and data-based monitoring of medical devices
 - Transfer of researched concepts and technologies into application



Contact

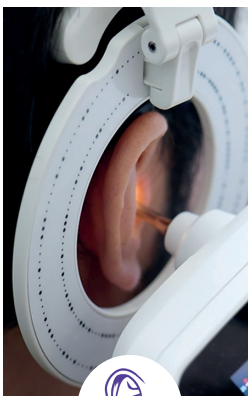
AVATAR-Transfer
info@avatar-projekt.de

Project coordinator:
Dr. Jens Hellwage
Managing Director
InfectoGnostics Research Campus
jens.hellwage@infectognostics.de

Technical project coordinator:
Dr. Florian Rasche
Navimatix GmbH
florian.rasche@navimatix.de



Transfer into Use Cases



Prediction of treatment outcomes in hearing health



Optimisation of ophthalmological rehabilitation services



Anonymisation of clinical biosignal data (EEG data)



Anonymisation of human genome data during sequencing



Use of anonymised health data for post-market surveillance



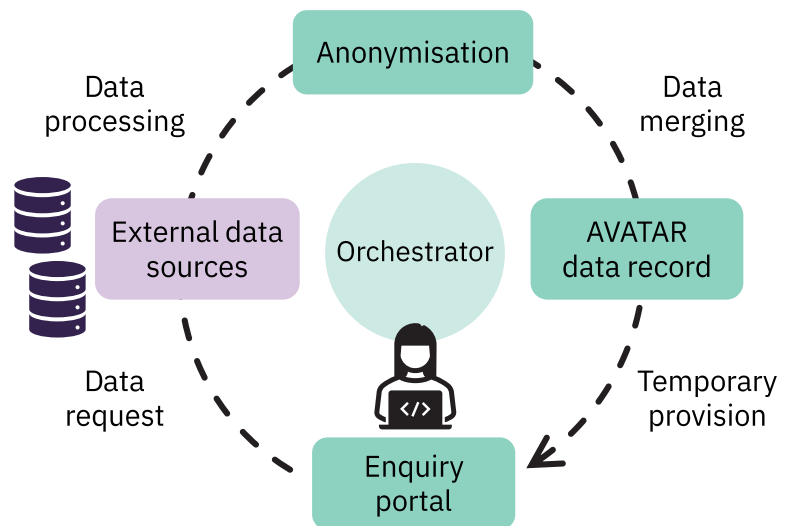
AVATAR Platform

Establishment of a **federated system** for querying and anonymising health data

Linking various data sources into a **data space**

Flexible integration of suitable anonymisation algorithms (generative AI, differential privacy, etc.)

Control of services via a **configurable orchestrator**



Complex content explained simply: The Open Science Lab

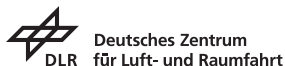


- Presentation of project results for teaching, learning, and illustrative purposes
- Target groups: data donors, data users, interested public (doctors, researchers)
- Presentation of technical processes based on selected use cases
- Access via the project website (browser-based) or via VR technology



Interdisciplinary Competence Cluster

- 16 partners from health care, industry, research and IT law



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