

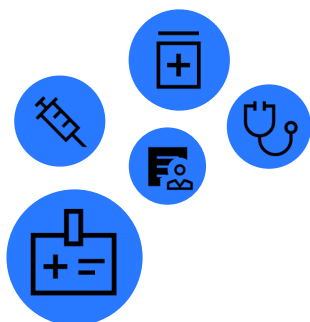
A woman in a white lab coat is shown in profile, looking through a microscope. The scene is dimly lit with a blue and purple color palette. The microscope is the central focus, and the woman's hair is tied back in a bun. The background is a blurred laboratory environment.

# DECENTRIQ

Data Clean Rooms for  
privacy preserving sensitive data collaborations

# There is a lack of data collaboration in healthcare

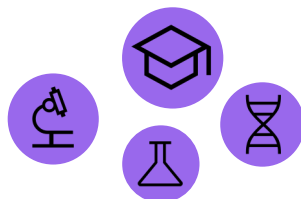
## Health care



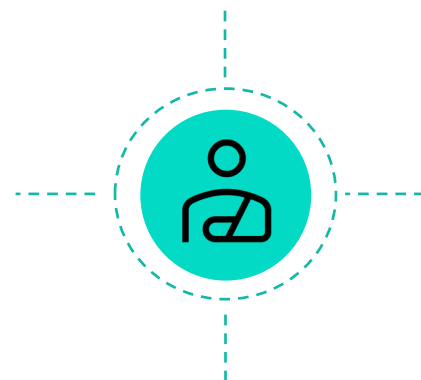
## Biopharma



## Research



## Payers & Government

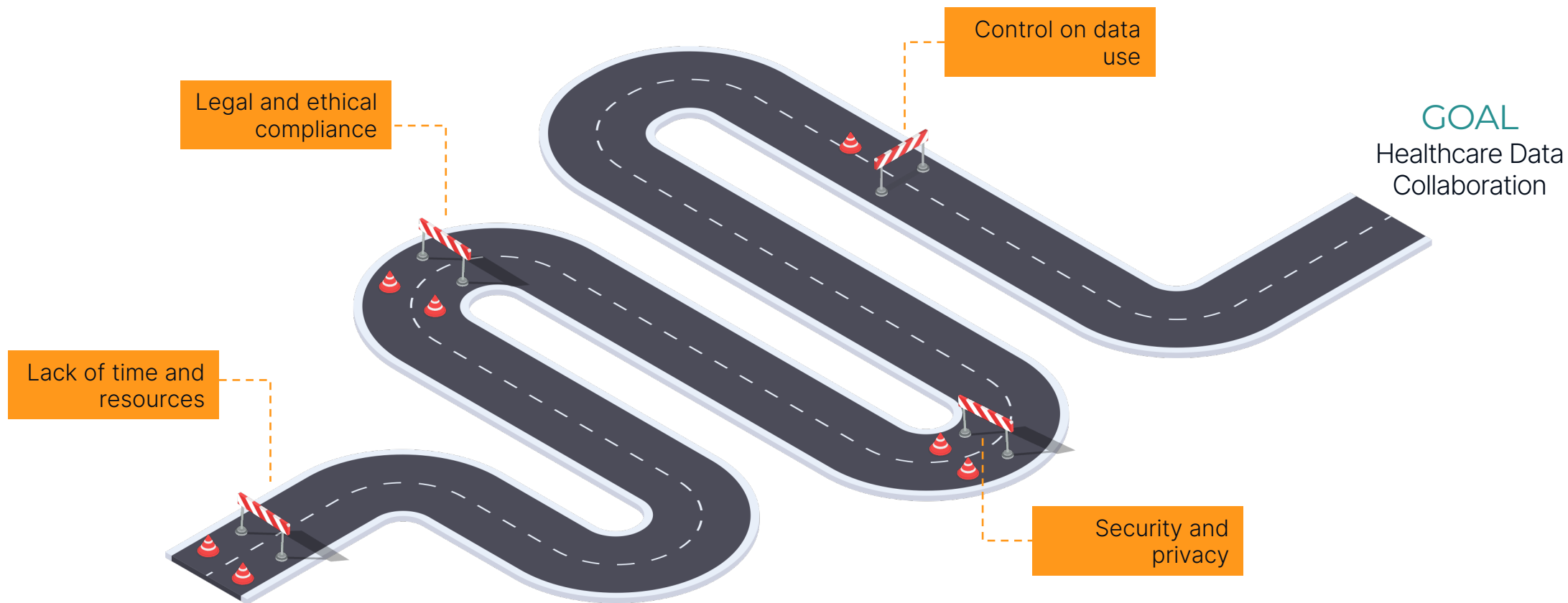


Too few data collaborations across partners, within and across the industry

Standard collaboration have low utility as data is pre-aggregated/anonymized before being shared

# Why are data collaborations so arduous?

Organizations want to make health data more accessible, but continue to run into issues



**“ WHAT IF WE HAD  
A WAY TO COLLECT  
DATA BUT NOT  
REVEAL INDIVIDUAL  
RECORDS? ”**



Bill Gates (2019) on how to learn more from data while maintaining privacy

# Trusted by the most privacy-conscious organizations

Based in Europe with experts from healthcare, cryptography and privacy

**UNIKLINIK  
RWTHAACHEN**

**Maastricht  
University**



**ihi** innovative  
health  
initiative



**Swiss Armed Forces**

Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

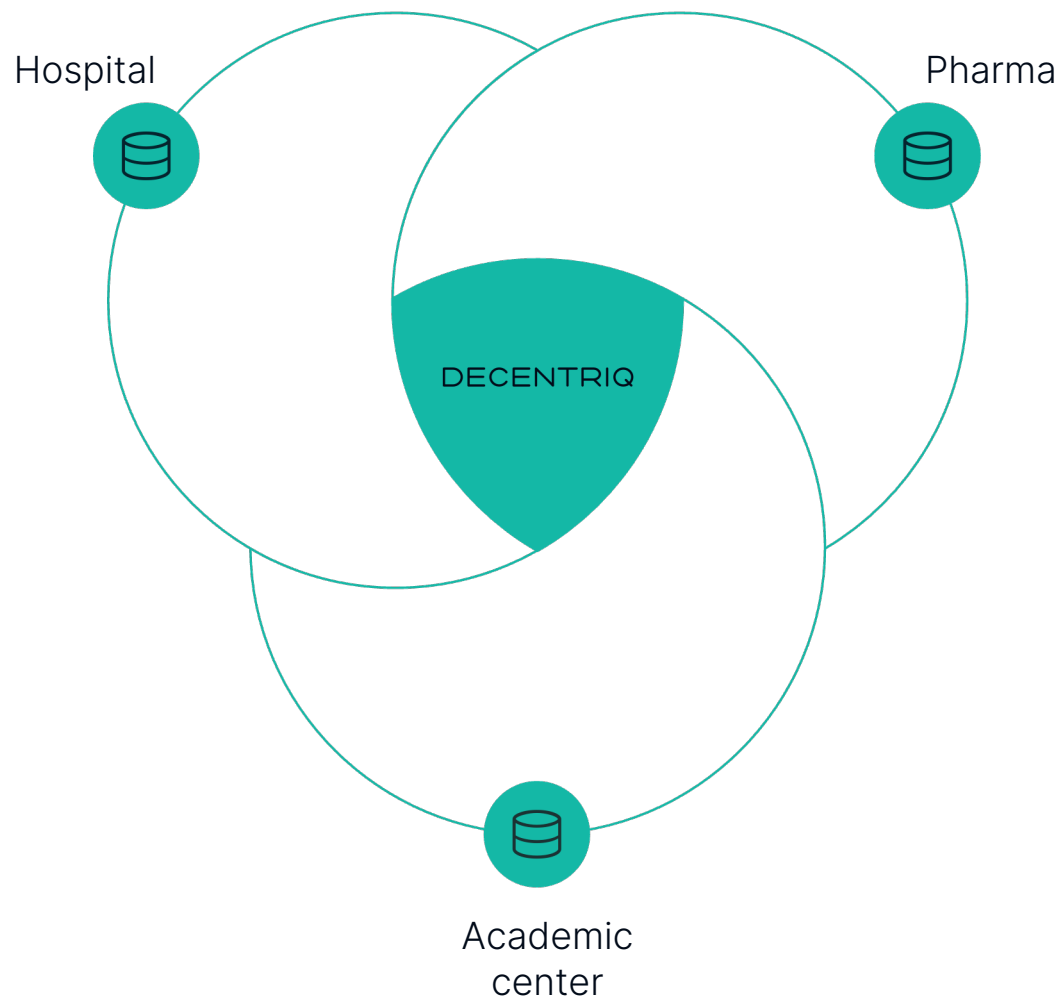
**SWISS MEDTECH**

*"Confidential Computing helps protect German Electronic Patient Records, including sensitive patient and health information."*



**Bundesministerium  
für Gesundheit**

# Decentriq enables sensitive data collaborations



Quick and cost-effective deployment

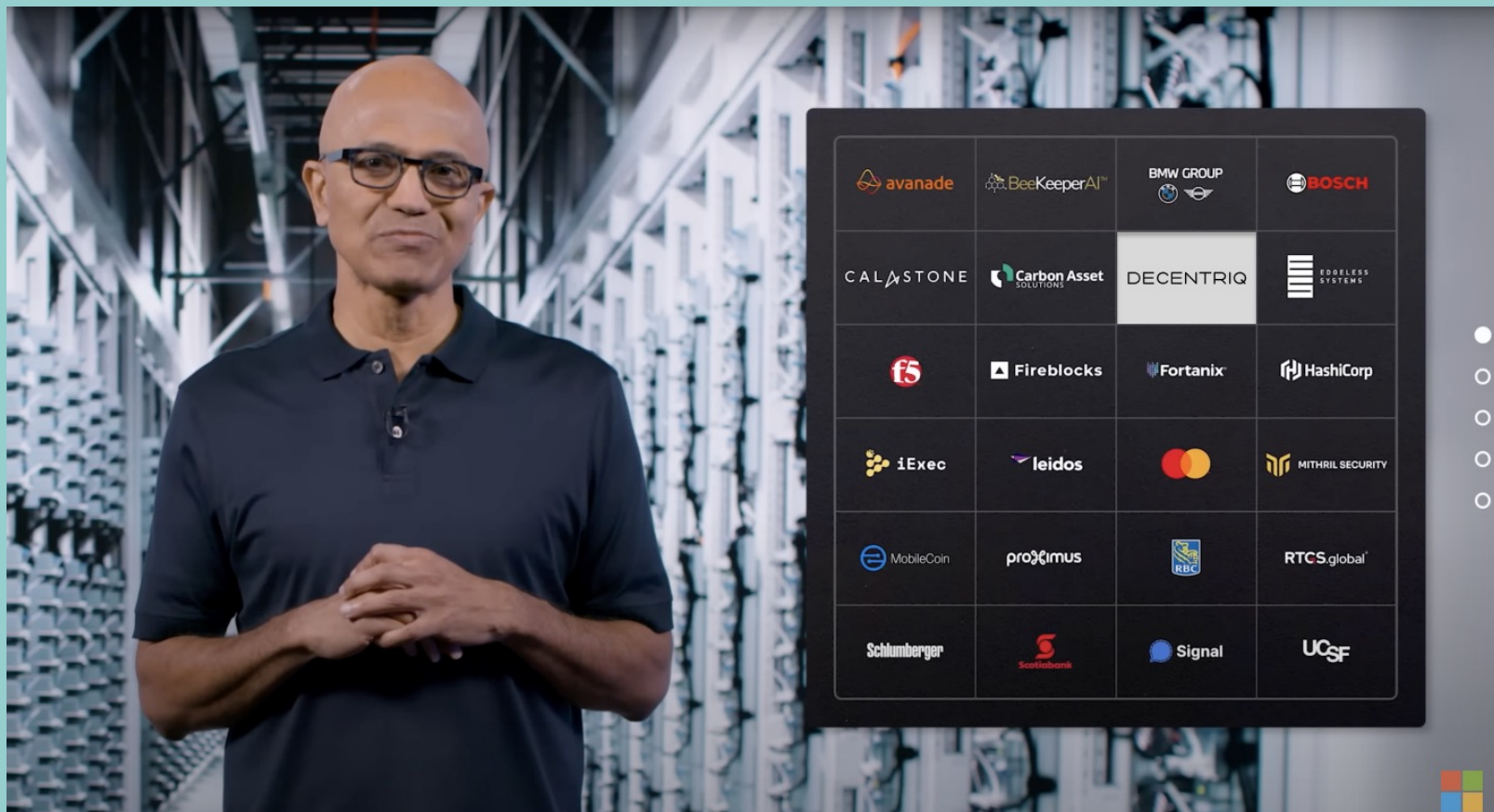


Data is always protected and under your control



Native workflows in R, Python and SQL

# Decentriq is a trusted Microsoft partner



Satya Nadella, CEO of Microsoft, Ignite 2022

# Strategic scalability



One-to-one



One-to-many



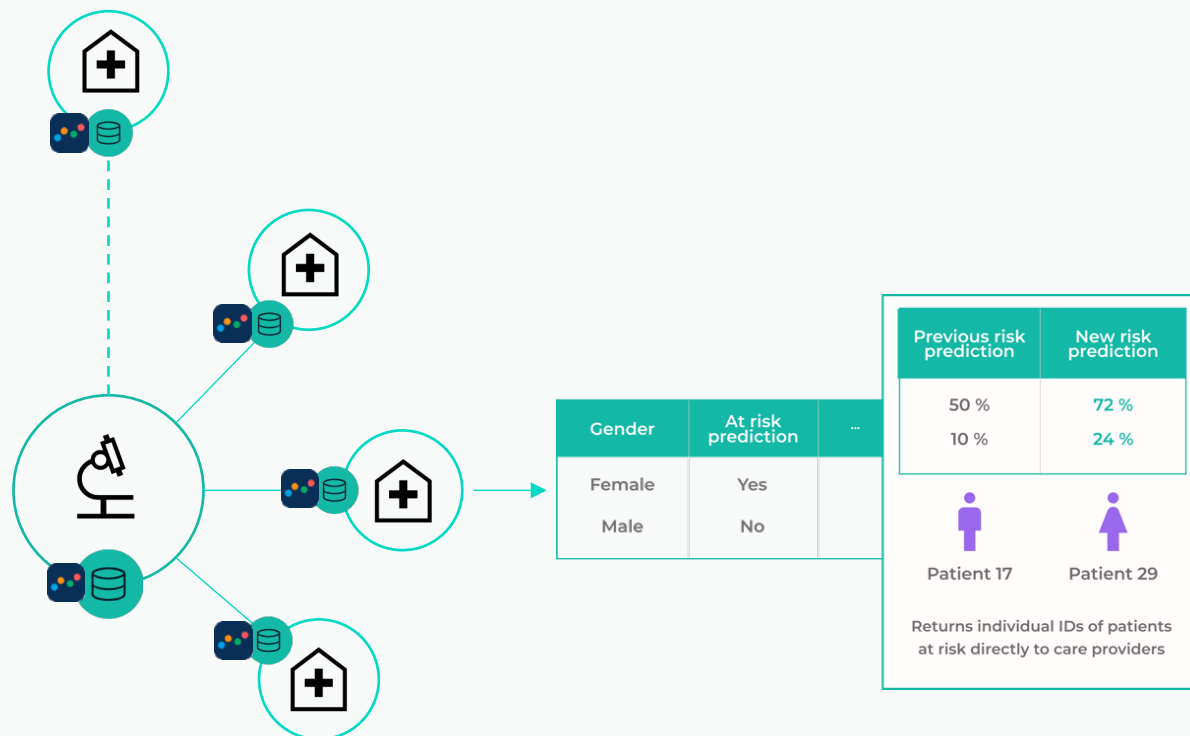
Transformative  
ecosystems

Generating value from day one with full privacy and security



# Use case: AI Rare disease prediction

Develop, train and deploy AI models to predict rare diseases patients at risk



Patient data is always protected



Model IP is always protected



Cost effective and safe global deployment

# IHI Consortium: iCARE4CVD



- 34 partners
- 13 health providers
- 12 countries
- €22M budget
- Over 1M patients from RWD and CT sources

## BIGGEST CVD PRIVACY PRESERVING INITIATIVE IN EUROPE

[Learn more](#)

# Enabling insights without ever sharing raw data

## 1 Data custodian provisions dataset



Your data is encrypted at source and stays encrypted during all steps

The screenshot shows the 'Data Clean Room' interface with a modal window titled 'Provision dataset to pharmacy\_data'. The modal contains two buttons: 'Import from my computer' and 'Choose from my stored datasets'. Below the buttons, there is a note: 'To import datasets using data connectors please access the "Datasets" page.' and a 'Close' button. The background interface shows a sidebar with 'New DCR', 'DCRs', 'Publisher p...', 'Datasets', 'Admin', and 'Docs'. The main content area has tabs for 'DATA', 'COMPUTATIONS', 'PERMISSIONS', and 'OVERVIEW'. A table at the bottom lists users and their associated datasets and computations.

User	Datasets	Computations
jeff.smith@thenewsbrand.com	3 datasets	4 computations
jonas.muller@thenewsbrand.com	0 datasets	3 computations
max@thenewsbrand.com	2 datasets	0 computations

## 2 Researcher explores metadata and request analyses approval

The screenshot shows the 'Data Clean Room' interface with the 'OVERVIEW' tab selected. The overview displays metadata for datasets, computations, and permissions. The 'Data' section lists datasets: 'pharmacy\_data' (4 columns, US), 't1' (3 columns, US), and 'hospital\_data' (6 columns, US). The 'Computations' section lists: 'Synthetic\_data\_from\_hospital' (SYNTHETIC, US), 'Treatment adherence, diabetes and correlation with heart failure complications' (SQL, US), and 'Logistic regression - prediction on the complications after 1 year' (PYTHON, US). The 'Permissions' section shows two checked items: 'Enable data clean room interactivity' and 'Enable development environment'. Below this is a table with columns for 'Email', 'Data owner of', and 'Analyst of'.

Email	Data owner of	Analyst of
thomas@thenewsbrand.com	5 datasets	3 computations
jeff.smith@thenewsbrand.com	3 datasets	4 computations
jonas.muller@thenewsbrand.com	0 datasets	3 computations
max@thenewsbrand.com	2 datasets	0 computations

# Enabling insights without ever sharing raw data

3 Data custodian reviews results and approves analysis

The screenshot shows the 'Data Clean Room' interface. On the left is a sidebar with navigation options: '+ New DCR', 'DCRs', 'Publisher p...', 'Datasets', 'Admin', and 'Docs'. The main area has tabs for 'ACTIONS', 'DEVELOPMENT', 'REQUESTS', 'OVERVIEW', and 'AUDIT LOG'. Under 'Data', there are three entries: 'pharmacy\_data' (4 columns, US 3, provisioned Feb 9, 19:05), 't1' (3 columns, US 3, no dataset provisioned), and 'hospital\_data' (4 columns, US 3, no dataset provisioned). Under 'Computations', there are three entries: 'Synthetic\_data\_from\_hospital' (SYNTHETIC, US), 'Treatment adherence, diabetes and correlation with heart failure complications' (SQL, US), and 'Logistic regression - prediction on the complications after 1 year' (PYTHON, US). The SQL query for the second computation is visible: `1 SELECT adherent`, `2 FROM`, `3`, `4`, `5`, `6`.

4 Researcher gets access to results without raw data ever being exposed

The screenshot shows the 'Data Clean Room' interface with a focus on a computation. The top navigation is the same as in the previous screenshot. The 'Data' section shows 'hospital\_data' (11 columns, US, synthetic\_pital\_data.csv) and 'CT\_data' (14 columns, US, CT\_data.csv). The 'Computations' section shows 'summary\_statistics' (PYTHON, US, last ran just now). Below this is a 'Show script' button and a grid of histograms for 'CT Dataset Key Metrics Distribution' and 'Hospital Dataset Key Metrics Distribution'. At the bottom, a table titled 'CT\_Summary\_Statistics.csv' displays summary statistics for various metrics.

	LDL Cholesterol	HDL Cholesterol	Total Cholesterol	Systolic BP	Diastolic BP	Blood Sugar
count	50.0	50.0	50.0	50.0	50.0	50.0
mean	143.04	41.78	217.48	133.22	86.26	151.9
std	14.324176793670432	4.117112124402001	11.261710458406379	5.949755615533559	3.492323944111177	6.964794138592006
min	120.0	35.0	200.0	125.0	80.0	140.0
25%	131.25	39.0	208.5	129.0	84.0	147.25
50%	140.0	41.5	215.0	131.0	86.0	150.0
75%	155.0	45.0	228.0	138.0	89.0	158.0

[Demo Video](#)