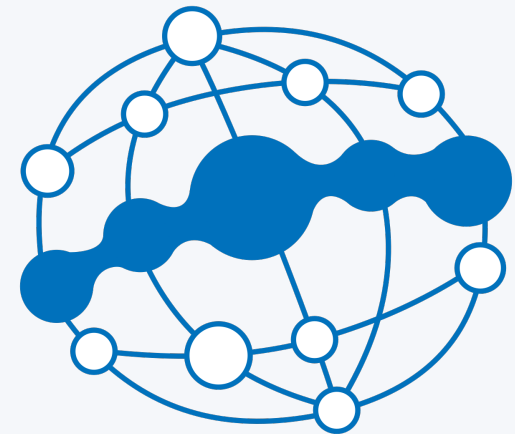


KI-MED-ÖKOSYSTEM NORD

Trusted data spaces for medical AI

How GAIA-X-MED makes clinical data usable – securely, compliantly and fast

Dr.-Ing. Tim Suthau· UniTransferKlinik Lübeck GmbH



KI-Med-Ökosystem Nord



Medical AI rarely fails because of the algorithm

It stalls on three bottlenecks:

01

Data access

Clinical data is sensitive, scattered across institutions and hard to reach.

02

Regulation

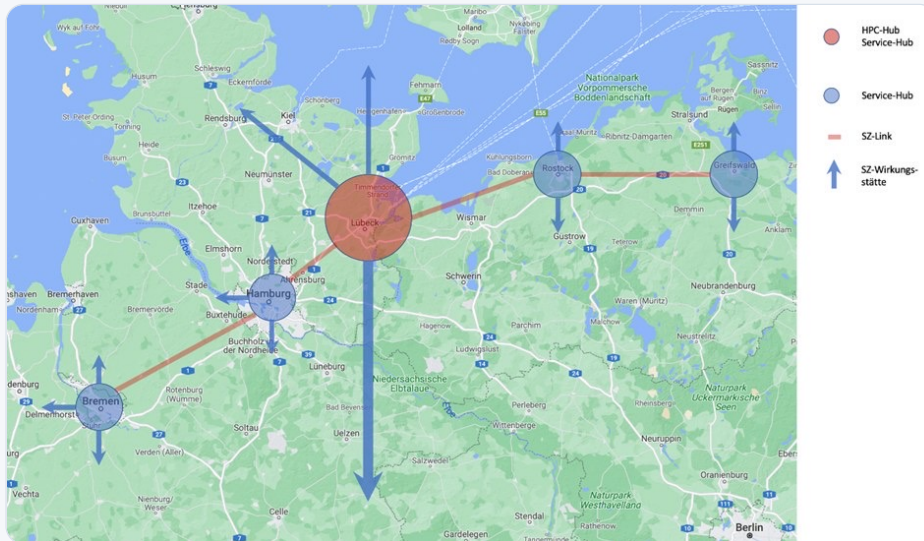
MDR, FDA and the EU AI Act demand risk management and thorough documentation.

03

Clinical validation

AI products must be tested in real clinical settings before anyone trusts them.

One northern hub for medical AI



Regulatory support

MDR, FDA, AI Act · risk management, documentation, testing



Compute infrastructure

6 NVIDIA DGX H100 · GitLab · Nextcloud



Access to medical data

University hospitals (UKSH, Rostock, Greifswald) · workflow support



Training

AI Master programme · workshops



Collaboration & networks

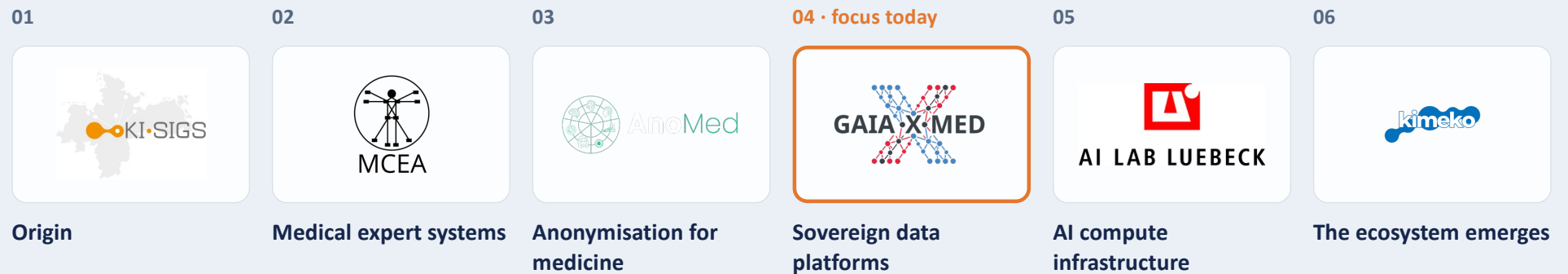
Meetings · industry conference



Joint R&D teams

University, hospital and company · shared process model

Grown from projects, shaped by practice



Each project added a building block. **GAIA-X-MED contributed the sovereign data layer.**

Focus: GAIA-X-MED data spaces



Funded by the State of Schleswig-Holstein. **Goal:** make health data usable for research, diagnostics and therapy – controlled, secure and GDPR-compliant, built on European GAIA-X standards.

Consortium: University of Lübeck, UniTransferKlinik Lübeck, Dataport, visotec, PLATO, Stryker, Hypros, Johnson & Johnson, IMAGE Information Systems

CLINICAL USE CASES

Radiology

Ablation
therapy

HomeOCT

Trauma care

Smart
hospital

Decision
support

SHARED SERVICE LAYERS

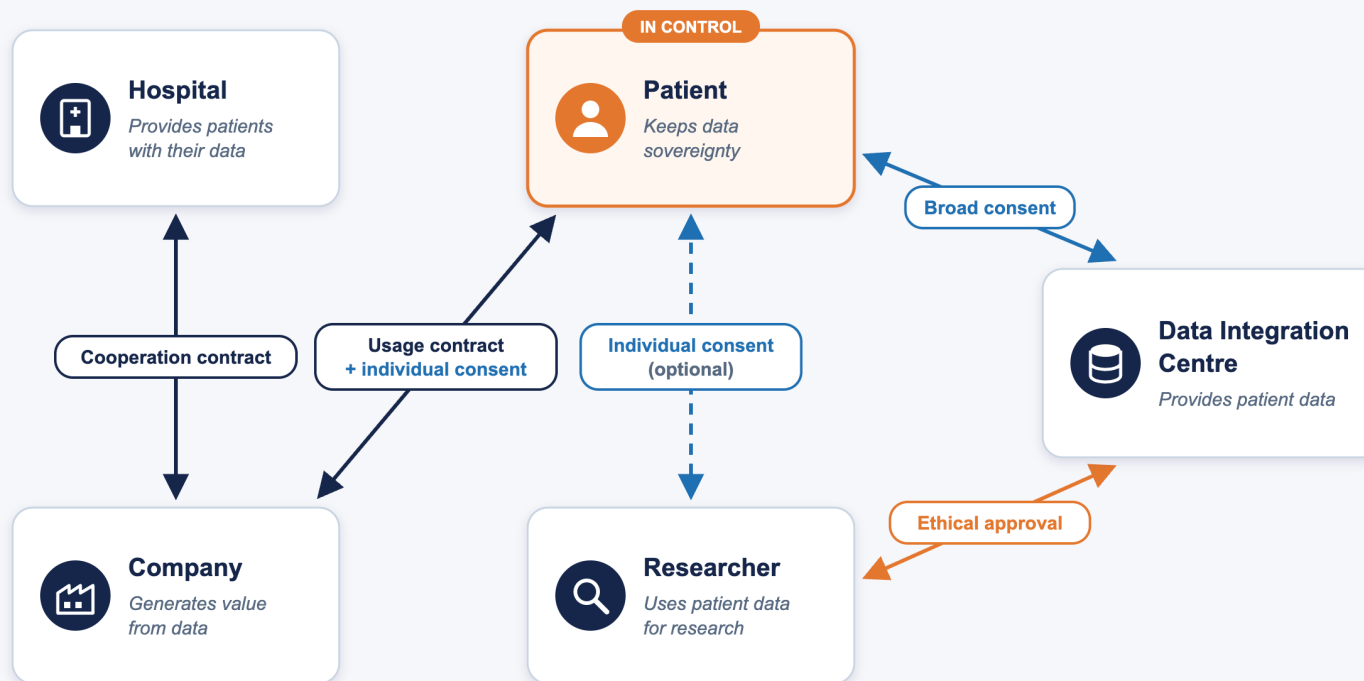
Basic Data Services

Basic Patient Services

Basic Engineering
Services

Foundation: GAIA-X federation services – identities, catalogue, contracts, consent

Trust by design



— Contract — Consent — Ethical approval - - - Optional

Every data flow is backed by a contract or consent.

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Data trustee model

Contracts and consent link hospital, patient, researcher, company and data integration centre – broad or individual consent, plus ethical approval.

Yo-Ga-X, open source

A lightweight GAIA-X federation: catalogue, contract service, credential store – based on W3C Verifiable Credentials and DIDs.

What data spaces unlock for the ecosystem



Hospitals & patients

Data stays sovereign. Every use is contracted and consented.



Researchers

Compliant, traceable access to clinical data across sites.



Companies

A regulatory-sound path from idea to approved AI product.

Data spaces turn the ecosystem into an **AI sandbox** for medical products from the North.

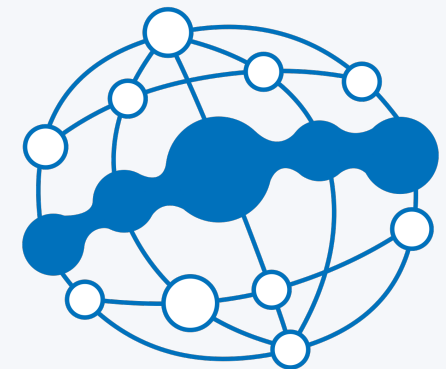
Let's build medical AI in the North – together.

ki-med-nord.de

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