Developing innovative IT solutions for healthcare

In the initiative’s current phase, universities and partner organisations establish and link data integration centres. These centres allow research and healthcare data that continue to reside securely on-site to be aggregated and integrated across multiple locations. As a support for newly established professorships for medical informatics, the German Federal Ministry of Education and Research (BMBF) is funding junior research groups at universities. In addition, MII consortia develop innovative IT solutions for concrete medical use cases, demonstrating the benefits of high-tech digital healthcare services and infrastructures.

Examples of the first use cases are:

- Multiple sclerosis
- Parkinson’s disease
- Cardiology
- Infection control
- Appropriate antibiotics use
- Precision medicine for tumour patients
- Improvements to healthcare processes

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Consortia and participants during the development and networking phase

**DIFUTURE CONSORTIUM PARTNERS**

- Augsburg: University of Augsburg (UA) Bochum: Avanir GmbH
- Braunschweig: Carl-Thiem-Klinikum
- Dresden: Technische Universität Dresden
- Erlangen: University of Erlangen-Nuremberg
- Freiburg: University Medical Center Freiburg
- Hamburg: Universität Hamburg
- Hannover: Hannover Medical School (MHH)
- Heidelberg: University of Heidelberg
- Jena: Martin Luther University Halle-Wittenberg
- Kiel: Campus Kiel
- Leipzig: Leipzig University
- Munich: Ludwig Maximilians-University Munich
- Oldenburg: University of Oldenburg
- Regensburg: University of Regensburg
- Berlin: Charité – Universitätsmedizin Berlin
- Saarland: Universität des Saarlandes
- Tübingen: Eberhard-Karls-Universität Tübingen
- Tübingen: University of Tübingen (EITF)
- Ulm: University of Ulm
- Würzburg: Friedrich-Alexander-Universität Würzburg

**NETWORK PARTNERS**

- Regensburg: Universität Regensburg
- Saarbrücken: Universität des Saarlandes
- Saarland: Universität des Saarlandes

**HiGHmed CONSORTIUM PARTNERS**

- Berlin: Robert Koch Institute
- Ada Health GmbH
- Charter – Universität medizin Berlin
- Braunschweig: Brunswick University of Technology (TU Braunschweig)
- Heilmichl Zentrum für Forschung GmbH
- Dresden: Darmstadt University of Technology (TU Dresden)
- Erlangen: Gutenberg University – Medical Faculty
- Frankfurt: Eberhard-Karls-Universität Frankfurt/Main
- Hamburg: University of Hamburg
- Hanover: Hanover Medical School
- Nuremberg: Friedrich-Alexander-Universität Nürnberg

**NETWORK PARTNERS**

- Cottbus: Carl-Thiem-Klinikum Cottbus (CTK)
- MIRACUM CONSORTIUM PARTNERS

- Dresden: TU Dresden
- Jena: Martin Luther University Halle-Wittenberg
- Kiel: Universität Kiel
- Leipzig: Universität Leipzig
- Nuremberg: Friedrich-Alexander-Universität Nürnberg
- Regensburg: Universität Regensburg
- Ulm: Universität Ulm
- Munich: Ludwig-Maximilians-Universität München
- Hanover: Hannover Medical School

**Rostock**

- Universität Rostock
- University Hospital Rostock

**Source**

- The German Federal Ministry of Education and Research (BMBF) is investing a total of 180 million euros in the Medical Informatics Initiative through 2022. In a later phase of the initiative, results and solutions will be developed further and consolidated.

**Initial results**

With the support of the coordination office, the National Steering Committee (NSC) and its consent, data-sharing and interoperability working groups have developed core documents to address key MII topics and challenges:

- template text for patient consent forms, developed in cooperation with German Federal and State data protection agencies and the Association of Medical Ethics-Committees in Germany
- contract framework for the use of patient data, biosamples, analytical methods and routines
- use and access policy
- concept of the Central application and registration office (ZARS)
- roadmap for the MII 2017 – 2025
- MII roadmap for enhanced research, education and skills development
- university hospital initiative for interoperable patient records

**Shared success: Collaboration across Germany**

Within the four funded consortia – DIFUTURE, HiGHmed, MIRACUM and SMITH – all German university hospitals and medical centres at over 30 locations cooperate with research institutions, businesses, health insurers and patient representatives. Their mission is to lay the foundations required to enable the use of research findings to the direct benefit of patients.