The Medical Informatics Initiative
Strengthening research and advancing healthcare

GOALS

→ The aim of the Medical Informatics Initiative (MII) is to harness innovative IT solutions to enhance research and patient care.
→ These solutions enable the sharing and utilisation of data, gained from healthcare and from clinical and biomedical research, across multiple entities and sites.
→ The initiative additionally strengthens medical informatics in research, education and skills development.

FUNDING PHASES

The German Federal Ministry of Education and Research (BMBF) is investing a total of 150 million euros in the Medical Informatics Initiative through 2021. In a later phase of the initiative, results and solutions will be developed further and consolidated.

CONSORTIA

Within the four funded consortia – DIFUTURE, HiGHmed, MIRACUM and SMITH – nearly 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 create an environment that allows research findings to be used to the direct benefit of patients – while ensuring robust data protection and security.

PROJECT STRUCTURE

→ The funded consortia meet regularly within the initiative’s National Steering Committee (NSC) to coordinate activities and agree key parameters.
→ The NSC is supported by consent, data sharing, interoperability and communication working groups, which develop and discuss specialist resources.
→ A dialogue forum involves all relevant stakeholders in strategic planning and ongoing development of the initiative.
→ A Scientific Advisory Board comprising international experts provides assistance and specialist expertise to help advance the initiative.
→ Collaboration between and beyond consortia is the remit of a coordination office operated by TMF (Technology, Methods and Infrastructure for Networked Medical Research) with MFT (German Association of Medical Faculties) and VUD (German Association of Academic Medical Centers).

INITIAL RESULTS

→ 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
→ Shared core data set in line with international standards
→ Recommendations for shared use of standardised metadata
→ Paper summarising key points on interoperability
→ Roadmap for the Medical Informatics Initiative 2017 – 2025
→ Use and access policy
→ MII roadmap for enhanced research, education and skills development
→ University hospital initiative for interoperable patient records
Consortia and participants during the development and networking phase

**DIFUTURE**

**CONSORTIUM PARTNERS**
- Augsburg: University of Augsburg (UA)
- Bochum: Kairos GmbH (KAIROS)
- Munich: Technical University of Munich (TUM)/University Hospital der Isar (MRI) Ludwig-Maximilians-Universität (LMU) München/Hospital of the Ludwig-Maximilians-University (LMU) Munich
- Tübingen: University of Tübingen (EKUT)/University Hospital Tübingen (UKT)
- Ulm: Ulm University/Unimed Center

**NETWORK PARTNERS**
- Regensburg: University Hospital Regensburg
- Saarbrücken, Homburg: Saarland University/Saarland University Medical Center

**HiGHmed**

**CONSORTIUM PARTNERS**
- Berlin: Robert Koch Institute
- Adal Health GmbH
- Charité - Universitätsmedizin Berlin
- Brunswick: Brunswick University of Technology (TU Brunswick)
- Helmholtz Centre for Infection Research GmbH (HZI)
- Darmstadt: Darmstadt University of Technology (TU Darmstadt)
- Erlangen: Siemens Healthcare GmbH
- Göttingen: University Medical Center Göttingen
- HAWK University of Applied Sciences and Arts Goettingen
- Hannover: Hannover Medical School
- Hannover University of Applied Sciences and Arts
- Heidelberg: Heidelberg University Hospital and the Medical Faculty of Heidelberg
- German Cancer Research Centre
- NEC Laboratories Europe
- Heilbronn: Heilbronn University
- Kiel: University Medical Center Schleswig-Holstein (UKSH) – Campus Kiel
- Cologne: University of Cologne/University Hospital Cologne (UKK)
- Münster: University of Münster/Münster University Hospital (UKM)
- Potsdam: Hasso Plattner Institute
- Waldorf: InterComponentWare AG
- Würzburg: University Hospital of Würzburg/
- Julius-Maximilians-Universität (LMU)

**MIRACUM**

**CONSORTIUM PARTNERS**
- Dresden: TU Dresden/University Hospital Dresden
- Erlangen: Friedrich Alexander University Erlangen-Nuremberg/University Hospital Erlangen
- Frankfurt am Main: Goethe University Frankfurt/Main/University Hospital Frankfurt
- Freiburg: University of Freiburg/Medical Center – University of Freiburg
- Averbis GmbH
- Giessen: Justus Liebig University Giessen/University Hospital Giessen/Marburg
- THM University of Applied Sciences
- Greifswald: Greifswald University Hospital
- Magdeburg: Otto von Guericke University Magdeburg/University Hospital Magdeburg
- Mainz: University Medical Center of the Johannes Gutenberg University Mainz
- Mannheim: Medical Faculty Mannheim, Heidelberg University/University Medical Centre Mannheim
- Mannheim University of Applied Sciences
- Marburg: Philipps-Universität Marburg/University Hospital Giessen/Marburg

**SMITH**

**CONSORTIUM PARTNERS**
- Aachen: RWTH Aachen University
- Uniklinik RWTH Aachen
- Berlin: ID Information und Dokumentation im Gesundheitswesen GmbH & Co. KGaA
- Bonn: University Hospital Bonn
- Dortmund: Fraunhofer Institute for Software and Systems Engineering ISST
- Essen: März Internetwork Services AG
- Essen University Hospital Freiburg
- Averbis GmbH
- Halle (Saale): University Hospital Halle (Saale)
- Hamburg: University Medical Center Hamburg-Eppendorf
- Jena: Friedrich Schiller University Jena
- University Hospital Jena
- Jülich: Forschungszentrum Jülich GmbH (Jülich Research Centre)
- Leipzig: Leipzig University
- Leipzig University Medical Center
- Leverkusen: Bayer AG

**NETWORK PARTNERS**
- Düsseldorf: Düsseldorf University Hospital
- Rostock: Rostock University Medical Center

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