

The Medical Informatics Initiative Strengthening research and advancing healthcare

GOALS

- The aim of the Medical Informatics Initiative (MII) is to digitally network data from routine care across Germany and make it available for medical research.
- Medical research helps to better recognise and treat diseases and to prevent them as effectively as possible.
- The initiative additionally strengthens medical informatics in research, education and skills development.

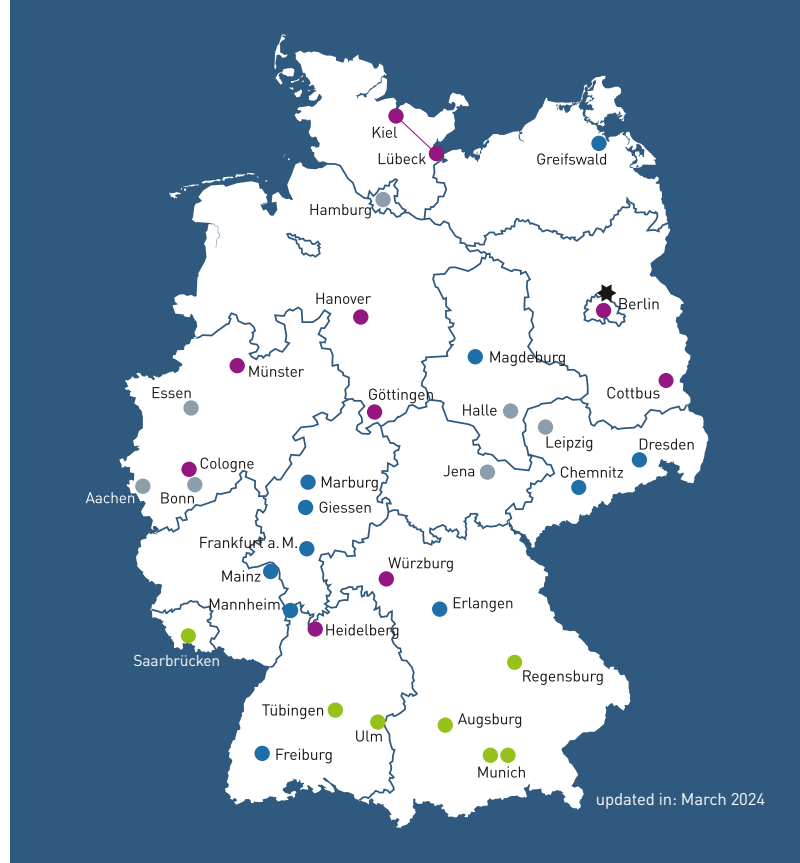
FUNDING PHASES

The German Federal Ministry of Education and Research (BMBF) is investing a total of more than 400 million euros in the Medical Informatics Initiative through 2026. In addition, the BMBF is funding “Digital Hubs: Advances in Research and Health Care” (2021-2025). These integrate data from regional and outpatient care into the structures of the MII.



CONSORTIA

Within the four funded consortia – DIFUTURE, HiGmed, MIRACUM and SMITH – all German university hospitals and medical centres at over 30 locations cooperate with non-university clinics, 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.



Locations of the data integration centres of the Medical Informatics Initiative



DIFUTURE

- Augsburg:**
 - University Hospital Augsburg (UKA)
- Munich:**
 - Technical University of Munich (TUM)/ University Hospital rechts der Isar (MRI)
 - Hospital of the Ludwig-Maximilians-University (LMU) Munich
- Regensburg:**
 - University Hospital Regensburg (UKR)
- Saarbrücken/Homburg:**
 - Saarland University/Saarland University Medical Center (UKS)
- Tübingen:**
 - University Hospital Tübingen (EKUT)
- Ulm:**
 - Ulm University Medical Center (UKU)

HiGmed

- Berlin:**
 - Charité – Universitätsmedizin Berlin
- Cottbus:**
 - Carl-Thiem-Klinikum Cottbus gGmbH
- Göttingen:**
 - University Medical Center Göttingen
- Hanover:**
 - Hannover Medical School
- Heidelberg:**
 - Heidelberg University Hospital and the Medical Faculty of Heidelberg
- Kiel/Lübeck:**
 - University Medical Center Schleswig-Holstein (UKSH)
- Cologne:**
 - University Hospital Cologne (UKK)
- Münster:**
 - University of Münster
- Würzburg:**
 - University Hospital of Würzburg/ Julius-Maximilians-Universität (JMU)

MIRACUM

- Chemnitz:**
 - Klinikum Chemnitz
- 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

Gießen:

- Justus Liebig University Gießen/ University Hospital Gießen/Marburg

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

Marburg:

- Philipps-Universität Marburg/ University Hospital Gießen/Marburg

SMITH

Aachen:

- Uniklinik RWTH Aachen

Bonn:

- University Hospital Bonn

Essen:

- Essen University Hospital

Halle (Saale):

- University Hospital Halle

Hamburg:

- University Medical Center Hamburg-Eppendorf

Jena:

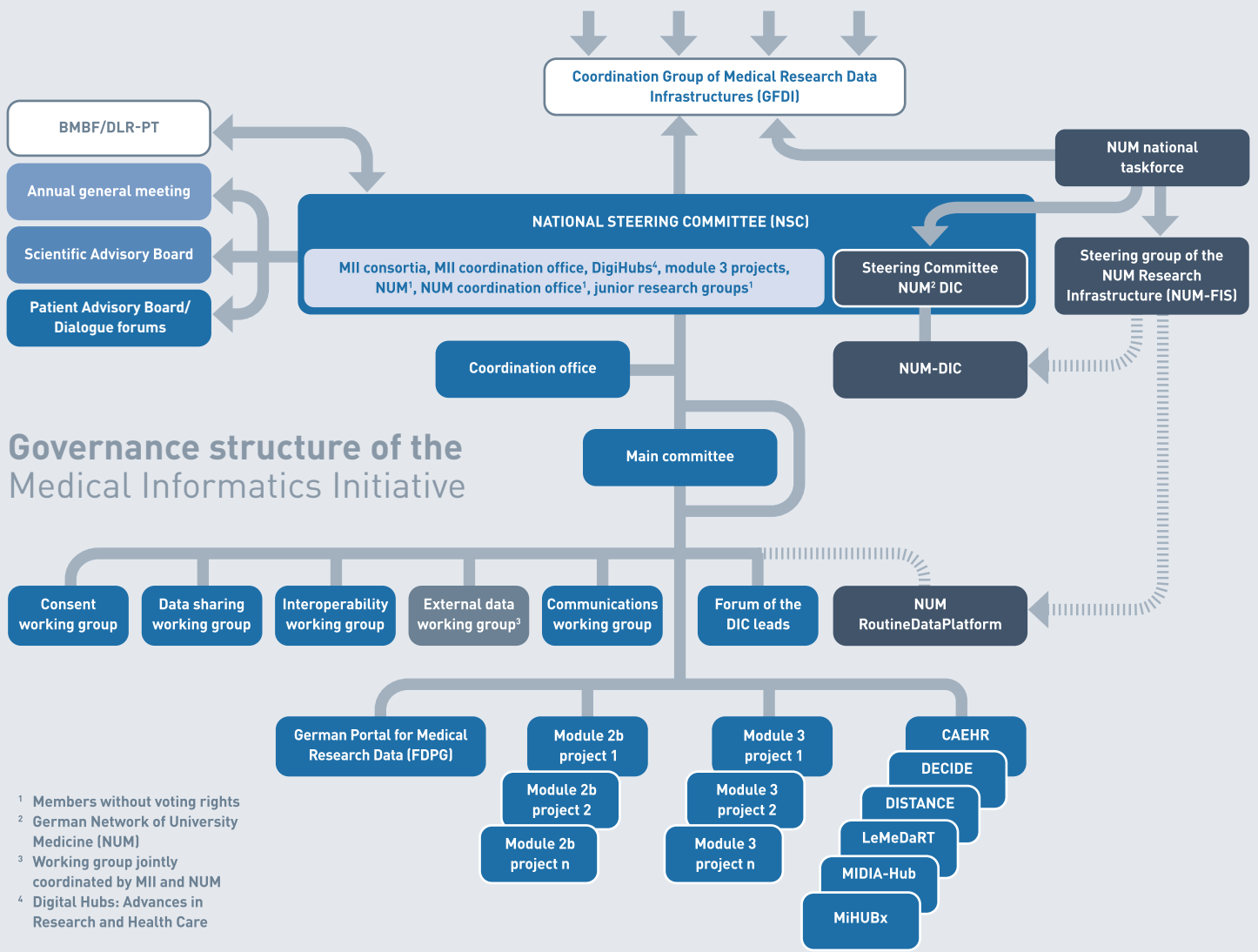
- University Hospital Jena

Leipzig:

- Leipzig University Medical Center

Coordination office

- Berlin:**
 - TMF/MFT/VUD



PROJECT STRUCTURE

- The 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, external data and communication working groups, which develop specialist resources.
- The main committee coordinates the "Module 3 projects" and the "Digital Hubs".
- Dialogue forums involve relevant stakeholders in the strategic development of the MII.
- An international Scientific Advisory Board and a Patient Advisory Board provide 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 (Broad Consent), developed in cooperation with German Federal and State data protection agencies and the Association of Medical Ethics Committees in Germany
- Contractual framework for the use of patient data, biosamples, analytical methods and routines (user agreement and framework participation agreement)
- Data protection concept
- Use and access policy
- German Portal for Medical Research Data (FDPG)
- Shared core data set in line with international standards
- Specifications for harmonised metadata
- Paper summarising key points on interoperability
- MII roadmap for enhanced research, education and skills development



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