

Academic training programs, flexible working models, the promotion of women (Else Hirschberg Program) and a nursing academy (together with Greifswald) are counteracting the shortage of specialists. Non-academic staff are also taking advantage of staff development courses.



Targeted management, transparent allocation of funds, and gender and diversity strategies are strengthening research and participation. A Citizen Science Hub and a Patient Advisory Board ensure participation of citizens, patients, and students. Participation is a crucial unique selling point.



Large-scale projects for structural centralization:

- New CTU building with SmartHomeLab for patient-centered research
- NeuroPart for participatory neuroscience
- New teaching building for modern training, including SkillsLab and AI lab



The Master Plan aims to secure the future of care, research and teaching – with a focus on centralization on the Schillingallee campus and modernization of existing buildings.

Against the backdrop of the specific challenges and change processes in the healthcare sector, the University Medical Center Rostock (UMR) is currently developing, alongside this Strategy for Research and Teaching, its Medical Strategy 2030, Digitalization Strategy 2030 and IT Strategy 2030. Together, these substrategies form the overarching UMR Strategy 2030. The Construction MasterPlan for the University Medical Center Rostock is also up-dated into the MasterPlan2038^{UMR}.



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Strategy for Research and Teaching including Patient Care until 2030



Objectives and orientation

Through "HealthTechMedicine" (HTM), the University Medical Center Rostock (UMR) has set itself the goal of becoming a leading international location for medicine and technology by 2030. Central challenges such as demographic change are being addressed with an integrative strategy that combines research, teaching, digitalization, and patient care.

1 HealthTechMedicine research focus

HealthTechMedicine combines medicine with engineering sciences, particularly the fields of biomedical engineering, biomaterials, and neurosciences. The aim is to create patient-centered, technology-based innovations – AI-supported diagnostics, smart implants, and new materials, for example. Cooperation projects with the University of Rostock and non-university institutions are strengthening research in MV.



2 Excellence in teaching at UMR

Interdisciplinary degree programs, skills labs, and digital campus structures make UMR an attractive place to study. Training involving a practical year (PY) is particularly encouraged. HealthTechMedicine is also integrated into teaching and covers topics such as high-performance medicine, ethics, and public health.



The **strategy process** began in **2015**, was consolidated in **2022/2023** (appointment of the Core Group, strategy paper "Research and Teaching 2.0"), is based on the benchmarks for **2026-2030**, and will be evaluated at the end of **2030**.



3 Cutting-edge medicine in Mecklenburg-Vorpommern

With the "UMR Strategy 2030" and a new organizational structure, medical care in MV is being redesigned. Eight departments and clinical lighthouses – including in the fields of cardiac, cancer, and transplant medicine, clinical neurosciences, musculoskeletal medicine, pediatric and adolescent medicine – are delivering cutting-edge complex care. Remote medicine is being expanded significantly.



4 MV on course to become a Comprehensive Cancer Center

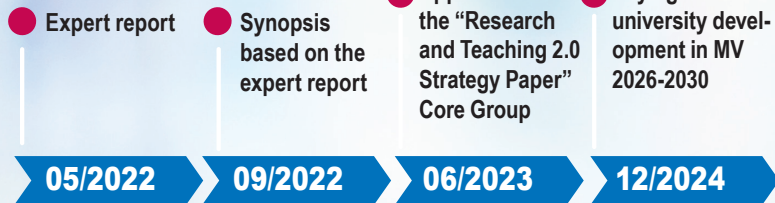
The MV Comprehensive Cancer Center (CCC-MV) is set to become a top oncology center thanks to funding from the German Cancer Aid Foundation. It combines clinical care, research, and training in oncology under one roof – supported by biobanks, study centers, and personalized medicine.



5 Digitalization and AI

The Digitalization Strategy 2030 includes:

- Introduction of a modern hospital information system ("Future-KIS")
- Expansion of the data integration center (MeDIZ.Rostock)
- Establishment of an AI lab and a Data Science Center to support clinical research



6 Translation - from the laboratory to the patient

Findings from research should find their way into practice more quickly. A Patient Advisory Board and a Clinical Trial Unit (CTU) with SmartHomeLab are being set up for this purpose. One example: an AI app for diagnosing dementia. In addition, cooperation with industry and third-party funded research is being intensified.



7 Regionally anchored transfer

Technology, business, and knowledge transfer are crucial. UMR is strengthening structures for IP management and supporting spin-offs via incubators. Partners such as the Fraunhofer Institutes, the Center for Artificial Intelligence MV, and the Institute for Implant Technology are supporting this process.



Regionally anchored & sustainable

→ Participatory & patient-oriented

→ Comprehensive & connected