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For connected and digitalized
healthcare

Mobile Health Lab

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Bayerisches Staatsministerium für
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Mobile patient care in the digital age

Fraunhofer IIS Mobile Health Lab Bamberg is developing a generic IT platform for telemedicine, called the Digital Patient Manager (DPM). The solution provides a network that connects service providers across all sectors and creates a decentralized infrastructure for medical communication.

The system enables automatic patient data collection and sharing between users and healthcare providers (physician, hospital, therapist), with patients themselves determining who has access to which parts of their data. Likewise, healthcare providers can make all relevant information available to patients using the same system.

Services for start-ups, SMEs and pharmaceutical companies

- Implementation and licensing of telemonitoring technology for interdisciplinary, integrated care concepts, from clinical studies all the way up to use in general healthcare
- Product adaptation based on customer-specific requirements
- Consulting, definition of specifications and development of (standardized) interfaces

Advantages at a glance:

- DPM enables rapid prototyping and significant cost savings
- Several wearables already integrated and ready for use
- Easy extendable system to support new sensor/wearable interfaces
- enabling round-the-clock measurement of the vital parameters relevant for your application
- DPM is GDPR-compliant and can be approved as a class IIa medical device
- Compatible with gematik telematics infrastructure and other information technology systems (KIS, PVS)
- Integration of AI-supported digital health pathways enables application-specific support of treatment (in partnership with the Digital Health Pathways Group, Fraunhofer IIS)
- Using the DPM's medical ui makes it possible to create your own visualizations and apps

Quality management, data security and interoperability

Established interfaces and standards (e.g. POCT1-A, HL7, FHIR) ensure interoperability with other digital health services. The protection of personal data is guaranteed through compliance with GDPR and applicable safety and security standards and through various authorization levels that regulate access to individual patient data. The system offers inherent support for the creation of audit trails for end-to-end quality assurance.

Fraunhofer IIS Mobile Health Lab Bamberg is part of the Medical Valley Center Bamberg.