Currently, a focus at Fraunhofer MEVIS lies on the development of mobile and web-based user interface concepts to support the clinicians’ mobility and collaboration.

New technologies, such as mobile devices and gesture-based systems, have the potential to change the traditional interaction between doctors and the hospital information systems and patients. Context-aware and personal devices ensure a tailored view of patient records and medical images and can therefore support medical professionals in analyzing data and to treat patients more efficiently.

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**WORKFLOW & USER INTERFACE CONCEPTS FOR MEDICAL IMAGE ANALYSIS**

**Vision**

By analyzing the requirements, understanding the context of use, and applying human-computer-interaction and user-centered design styles we provide clinicians with personal tools for diagnosis and therapy support. In this process, prototypical interactive products are tested and analyzed with regard to user performance and user acceptance.

**Solutions and Features**

By analyzing the requirements, understanding the context of use, and applying human-computer-interaction and user-centered design styles we provide clinicians with personal tools for diagnosis and therapy support. In this process, prototypical interactive products are tested and analyzed with regard to user performance and user acceptance.

**Highlights**

**MRI Breast-Reading**
- Combining the benefits of mobile multi-touch devices and medical workstations
- Providing radiologists with a personal tool for diagnosis and therapy planning that runs on mobile devices such as the iPad

We applied the concept to Breast MRI reading by combining mobile multi-touch devices and diagnostic reading workstations to provide a workstation-grade reading experience of medical images with mobile devices. The patient-centric, workflow-oriented design uses dedicated diagnostic monitors and adapts the behavior and the presented content of the mobile device depending on the location and access permission level of the user.