

The growing volume of image and video data has enormous potential for quality assurance, research, training, and product development. Our browser-based solution **ImViA (Image and Video Annotation, Analysis & AI)** analyzes this data by enabling precise, AI-supported annotations of images and videos in an intuitive, scalable, and immediately usable way.

Our system is suitable for clinical and academic research as well as for industrial development. It supports collaborative annotation projects across multiple teams. It even allows you to integrate your own AI models (model zoo) for pre-annotation or comparison.

Whether you need to perform retrospective analyses and documentation, annotate training data, or develop surgical assistance systems, our ecosystem is flexible and configurable. It grows with your requirements and is GDPR-compliant, media disruption-free, and completely browser-based.

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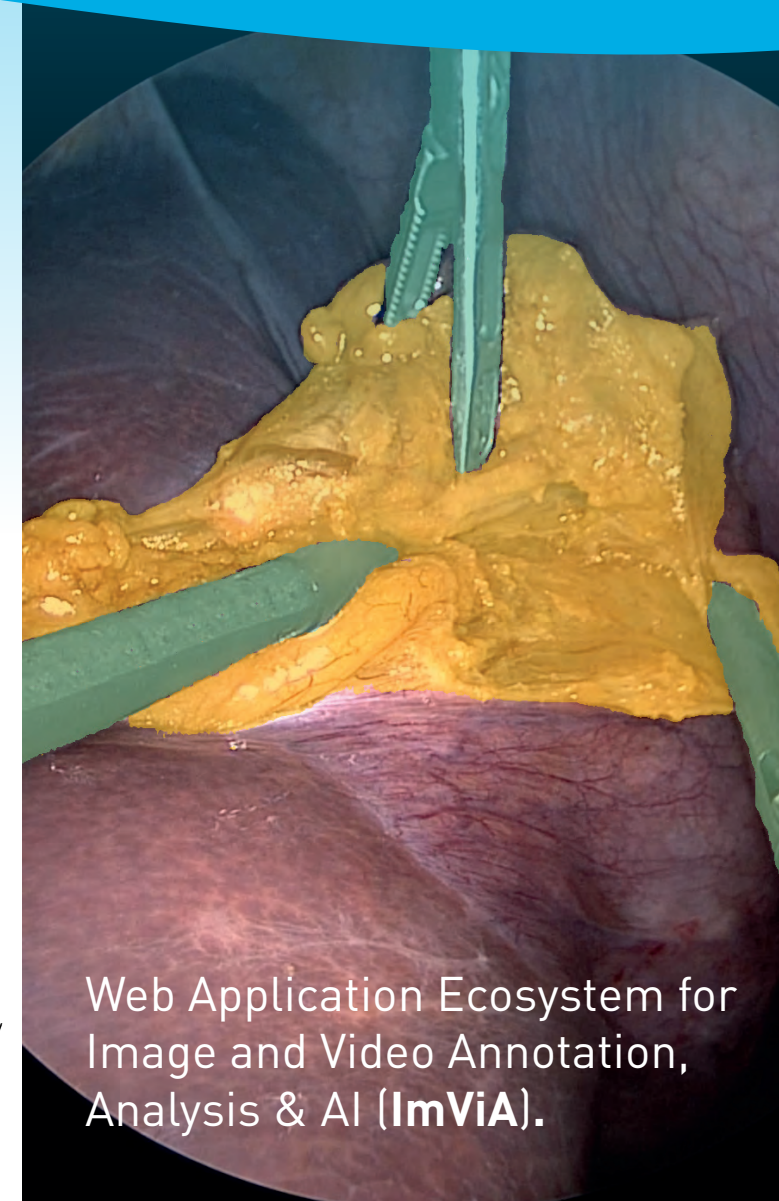
Partner of the BMBF-funded project



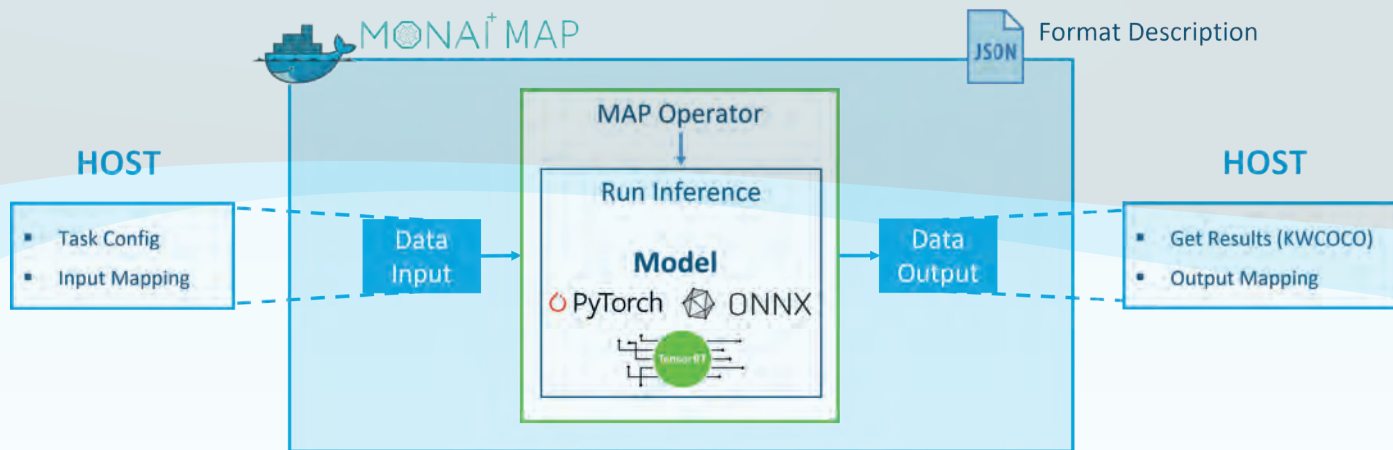
Surgical AI Hub
Germany



Federal Ministry
of Education
and Research



Web Application Ecosystem for
Image and Video Annotation,
Analysis & AI (**ImViA**).



ImViA AI model zoo based on MONAI application package (MAP).

What the ImViA web application ecosystem offers:

- Browser-based use: No setup or downloads required!
- AI-supported annotation
- Configurable annotation templates for different interventions
- AI Model Zoo with support for GPUs and Enterprise Edge AI (NVIDIA IGX, Jetson)
- Interfaces and API for research and clinical systems
- GDPR-compliant data processing and user management
- approved quality process for control/documentation

Typical fields of application:

- Marking surgical phases and events (e.g. critical safety considerations)
- Object identification and tracking, e.g. of instruments or anatomical structures
- Automated classification of surgical scenes
- Identification of anatomical landmarks and intraoperative control
- Creation of annotated data sets for AI models (e.g. phase recognition and instrument classification)
- Support for surgical training and supervision
- Automated generation of surgical reports for documentation and analysis
- Retrospective case analysis and process optimisation
- Pathology detection

