

IS3R 2023 Berlin/Germany

Berlin/Germany August 24–26, 2023

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How will various AI business models affect AI adoption and success?

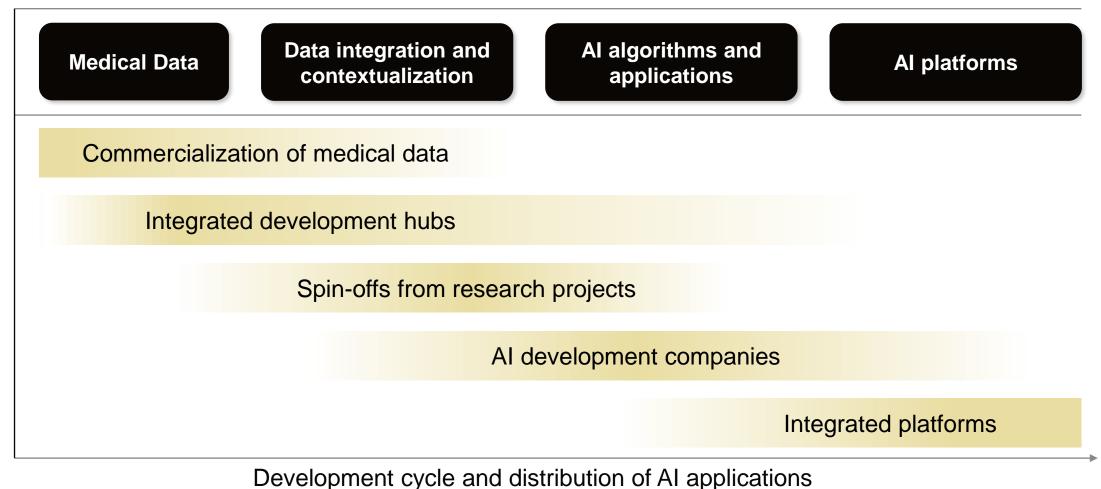
Prof. Dr. Stefan Schönberg

Director and Chair, Department of Radiology and Nuclear Medicine

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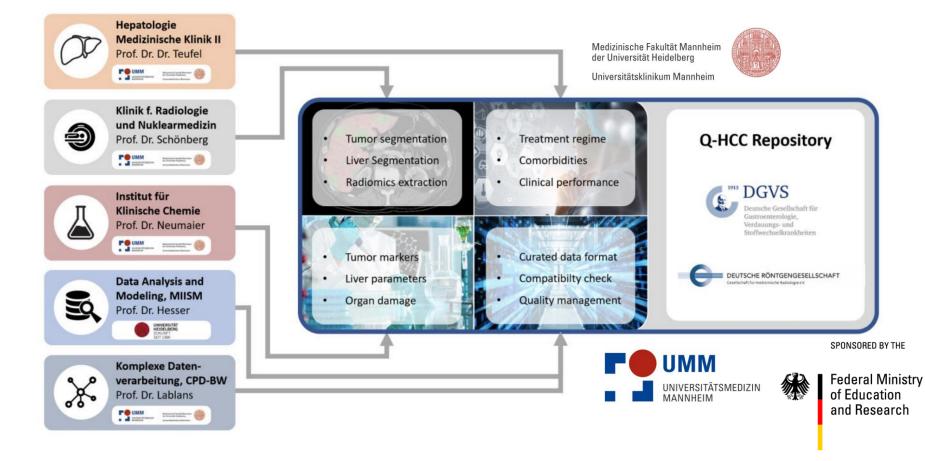
Business models of AI in radiology



INTERNATIONAL SOCIETY FOR STRATEGIC STUDIES IN RADIOLOGY



Open data and AI: The Q-HCC project



- Data curation in experts' hands
- Structured and annotated multimodal medical data
- Quality control to avoid risks of bias, privacy and security

From commercialization of medical data to clinical testing of digital health apps

Inspire Living Lab Mannheim

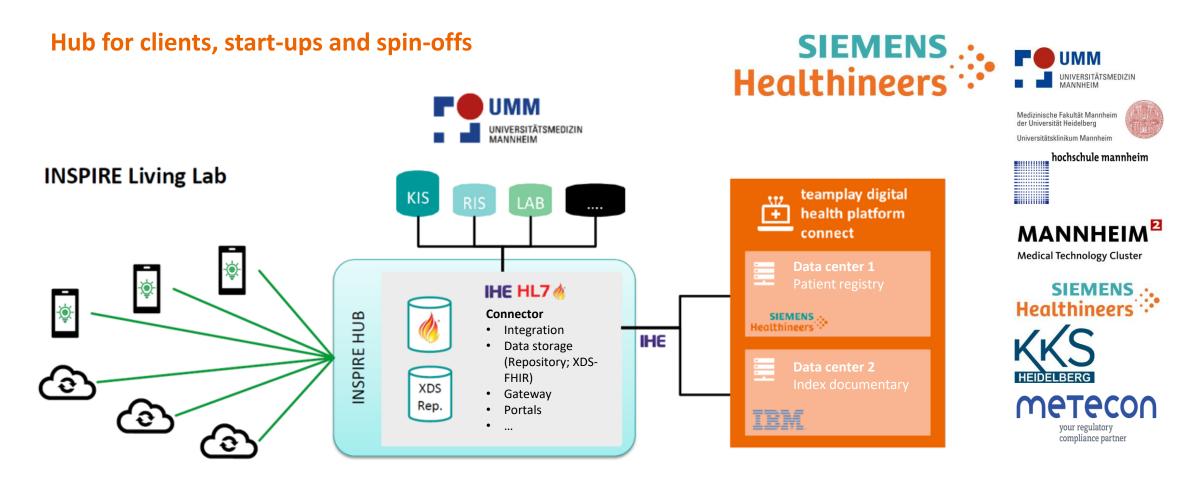
- Hospital as a service contractor for Al developers
- Clinical framework for development of digital health applications
- Support of the entire workflow from provision of data to testing of algorithms







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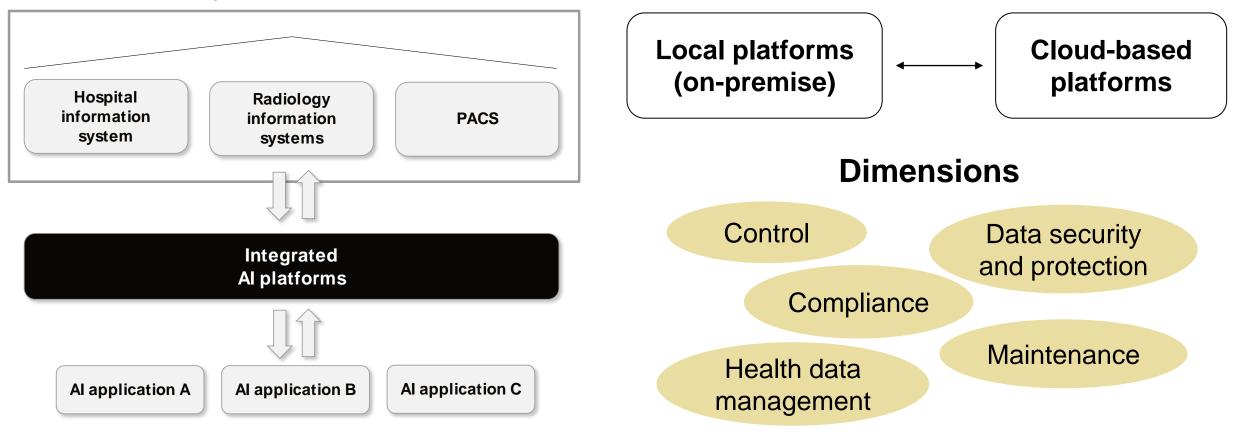
Research spin-off: QUIBIM

- Cloud-based AI platform
- Integrated pipeline from deidentification to quantitative image analysis to prediction and biomarker panels
- Spin-off from University of Valencia
- FDA, UKCA, and CE mark-cleared (in part)
- Applications for prostate, brain, liver, breast and lung



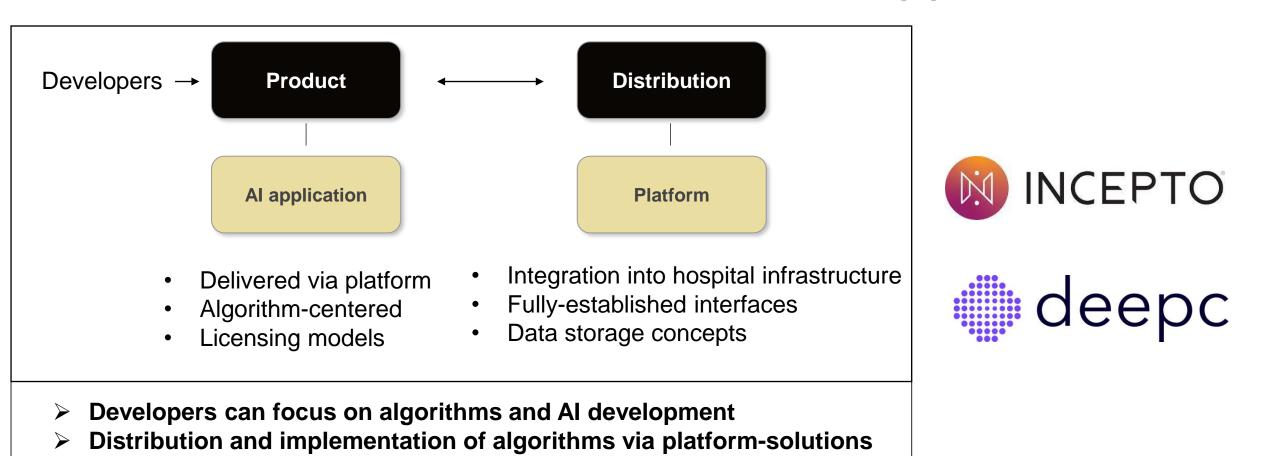
Integration of AI applications

Hospital IT infrastructure



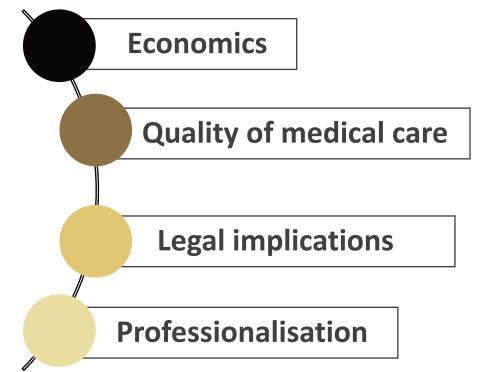


Platform-based distribution of AI applications

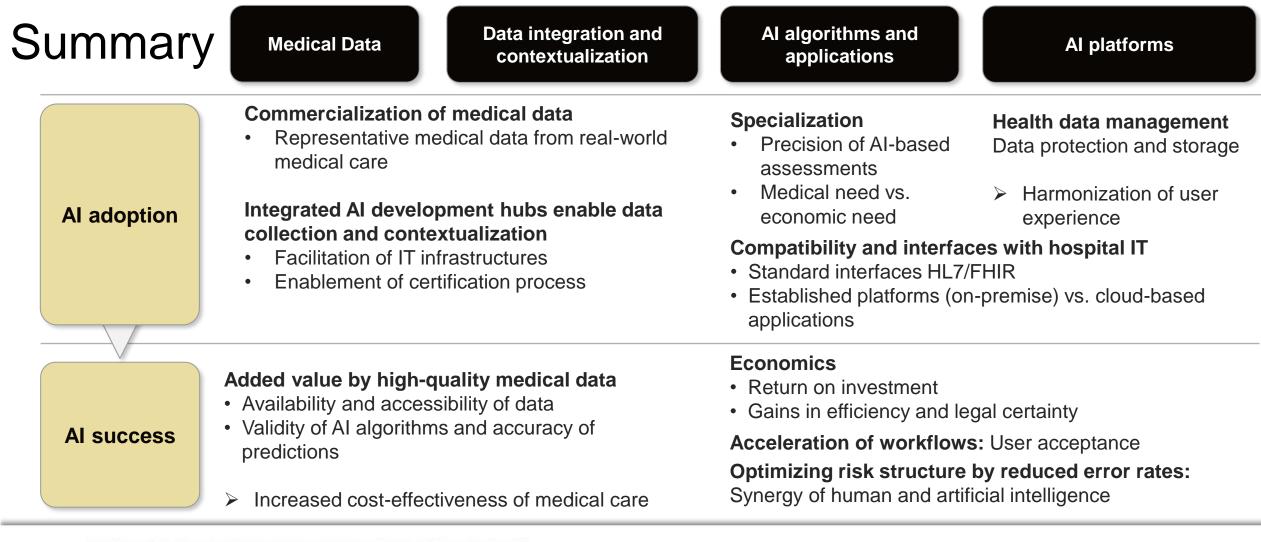


Capturing the impact of AI solutions on radiology departments and hospitals

Dimensions



- Workflow optimization
- Increase in efficiency
- Synergy of human and artificial intelligence
- Medical error rates
- Patient satisfaction
- Compliance and legal certainty
- Shift of standards
- Self-conception of radiologists
- Data stewardship



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