

ITEA PO Days 2025

SIGNET

ITEA Award of Excellence 2025 ceremony
16 September 2025
Saurav Kumar Baidya



SIGNET

Project data

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This project has received funding from:



Project duration:

November 2021 - January 2025

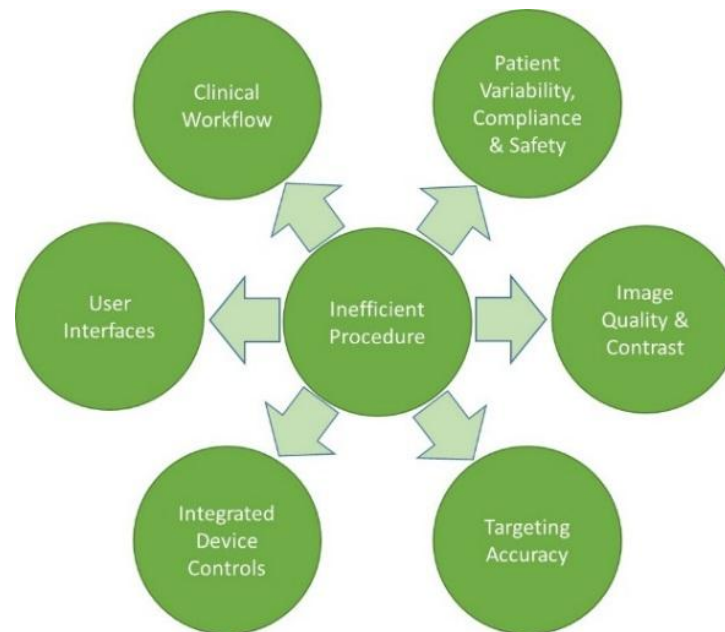
Project website:



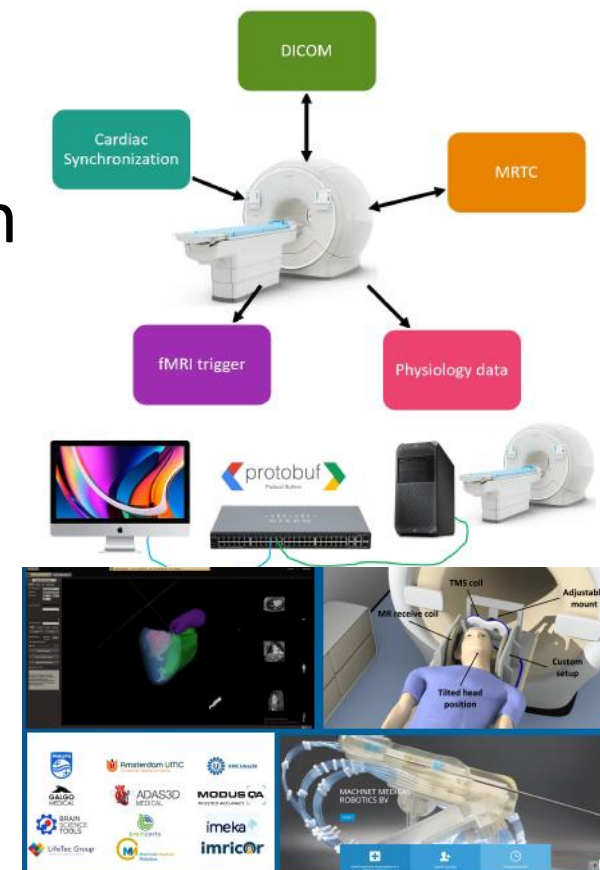
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Challenge and objectives

- Bottlenecks for adoption of image-guided interventional procedures
- The overall objective of SIGNET is to realize the North Star of replacing complex medical workflows and procedures by single-episode personalized, dose-adaptive, precision Magnetic Resonance guided treatments and interventions, improving patient comfort, safety, treatment outcome, and economic viability.



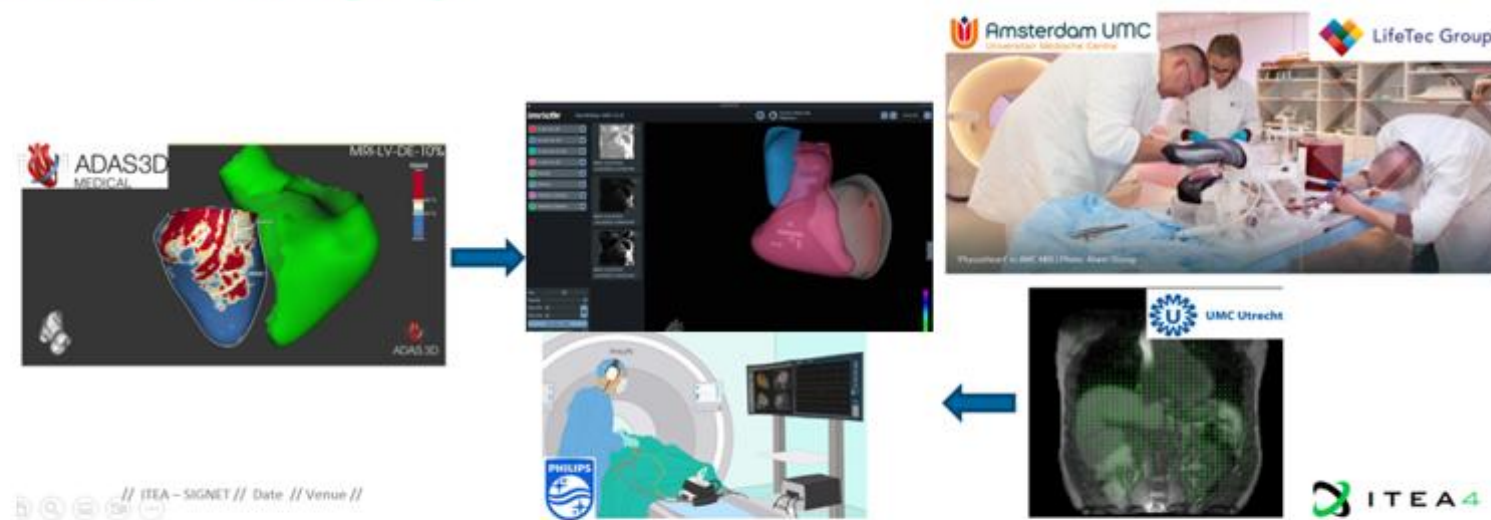
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Key results / highlights

Integrated cardiac ablation (AUMC, LifeTec, Imricor, Adas3D, Philips)

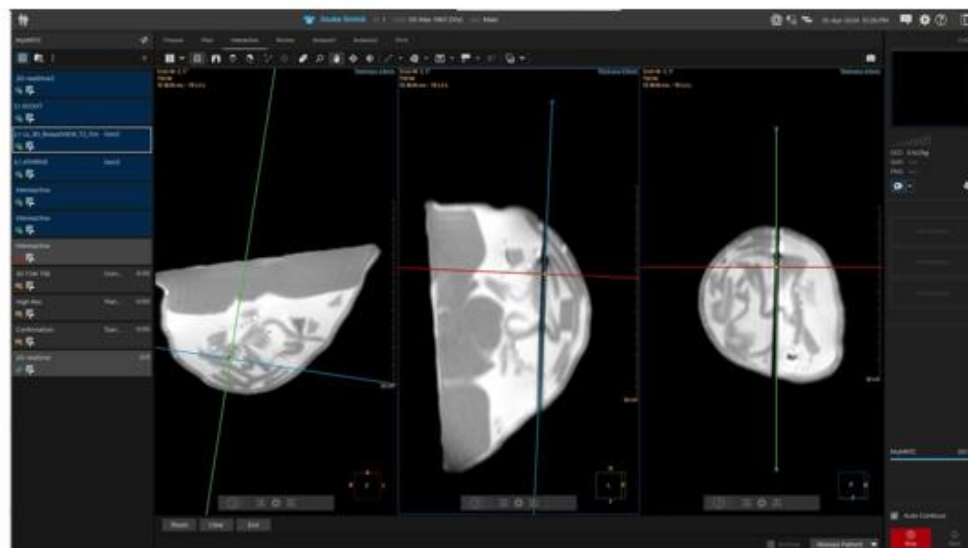
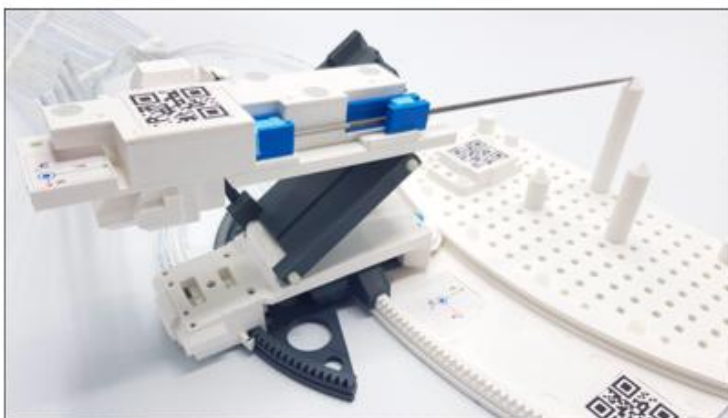


See the cardiology demonstrator in <https://itea4.org/news/seamless-mr-guided-treatments-and-interventions-reduce-procedural-complexity-in-cardiology-oncology-and-neurology.html>

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Key results / highlights

Integrated biopsy robot (Machnet, Philips)

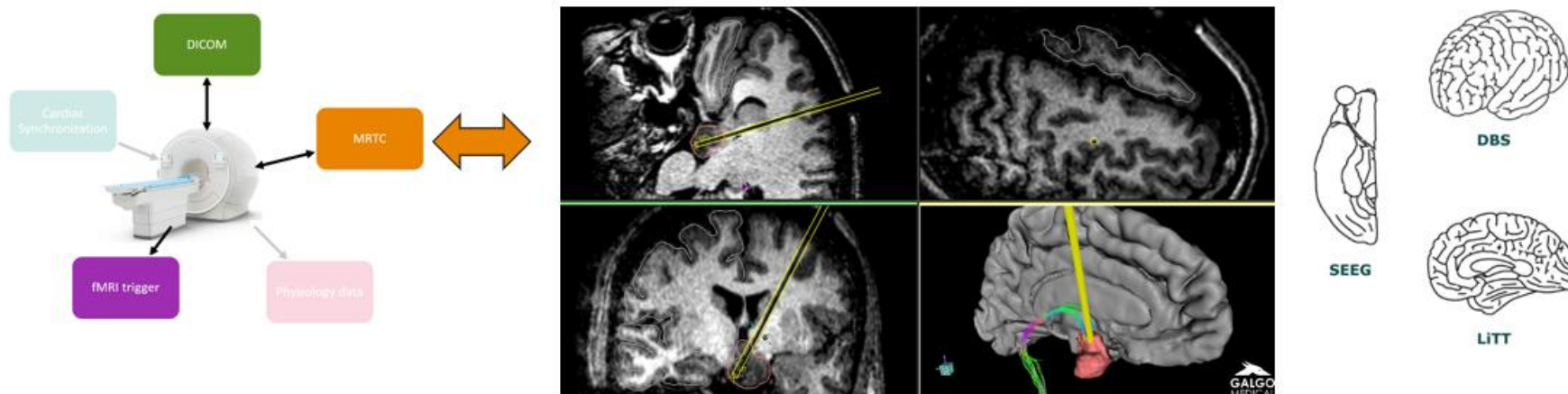


See the oncology demonstrator in <https://itea4.org/news/seamless-mr-guided-treatments-and-interventions-reduce-procedural-complexity-in-cardiology-oncology-and-neurology.html>

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Key results / highlights

Integrated stereotactic neurosurgical planning (partly with simulator) (Galgo, Imeka, Philips)

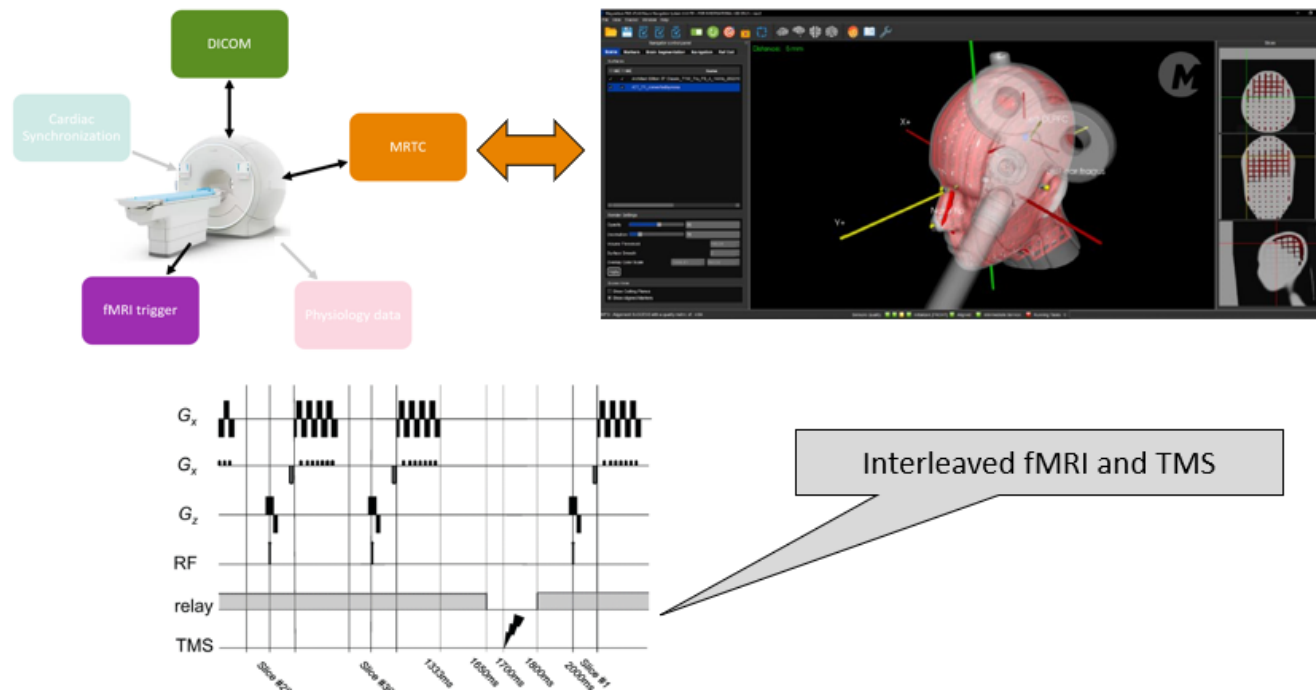


See the neurology demonstrator in <https://itea4.org/news/seamless-mr-guided-treatments-and-interventions-reduce-procedural-complexity-in-cardiology-oncology-and-neurology.html>

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Key results / highlights

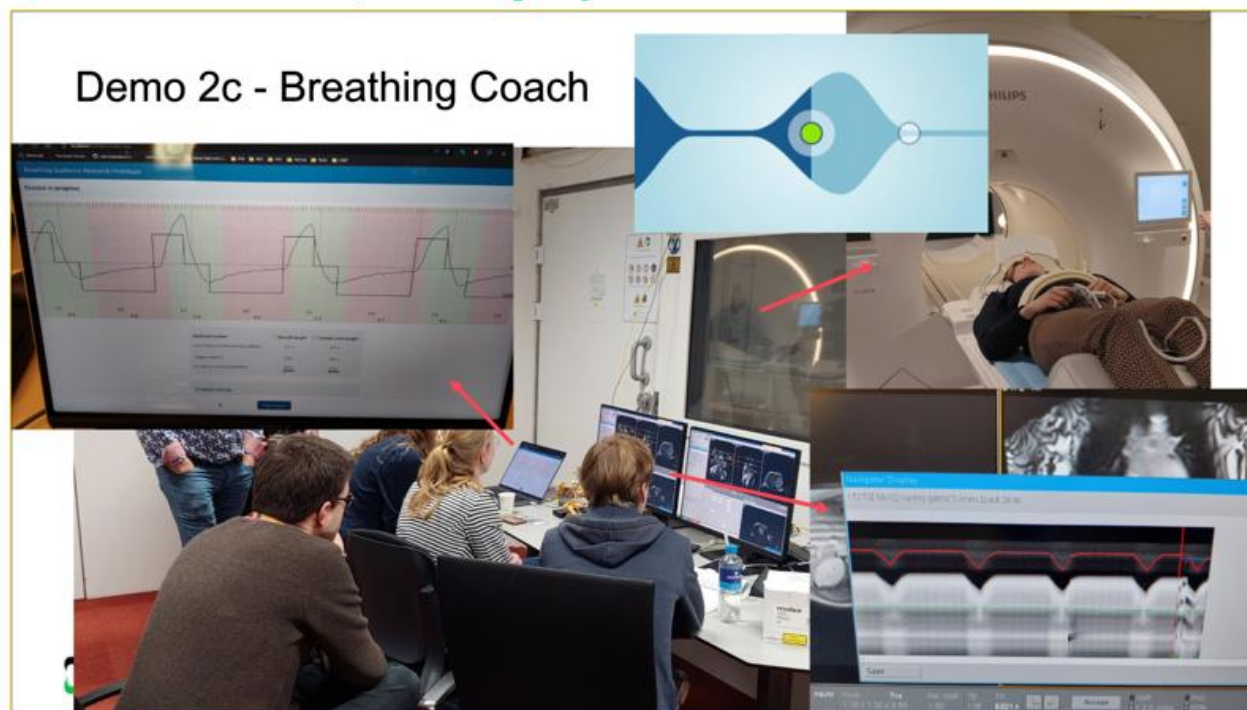
Integrated TMS neuro therapy (BST, Modus QA, Imricor, Philips, Magventure)



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Key results / highlights

Breathing guidance and Modus phantom for MR-SIM (UMC Utrecht, Modus QA, Philips)



Impact and future outlook

- Deployment of different business models from traditional to pay-per-click
- Securing intellectual property through 1 patent submission and 4 invention disclosures.
- 4 joint exploitations opportunities besides solid exploitation opportunities
- Contributions towards sustainability
- Follow up with clinical deployment partnership projects

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Thank you!