ITEA PO Days 2025

IWISH

ITEA Award of Excellence 2025 ceremony 16 September 2025 Robert Hofsink – Philips







IWISH Challenges

- Complex clinical procedures in Operating Rooms (OR) or Image Guided Therapy (IGT) labs
- Lack of insight in user interaction during clinical procedures leads to suboptimal usage of valuable medical equipment
- Dynamics and unpredictability of complex clinical procedures leads to inefficient usage of hospital OR and interventional labs and suboptimal use of clinical staff
- Scheduling of clinical procedures is not optimal and does not take into account real-time procedure status updates





IWISH Challenges

Operating Room (OR) is one of the most expensive areas of a hospital

1 OR costs ~€1500/hour ~240 hours/OR is lost yearly due to inefficiency in changeover times



~ €360k is lost yearly per OR >25.000 ORs in Europe



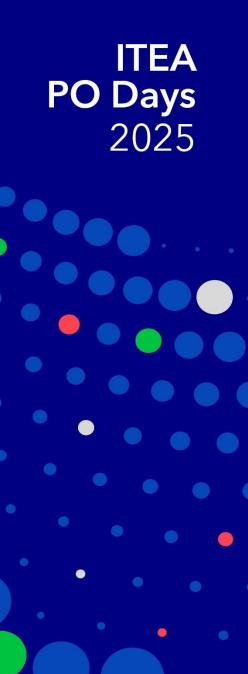
€9 Billion lost yearly in Europe due to OR inefficiencies

IWISH Innovations and objective

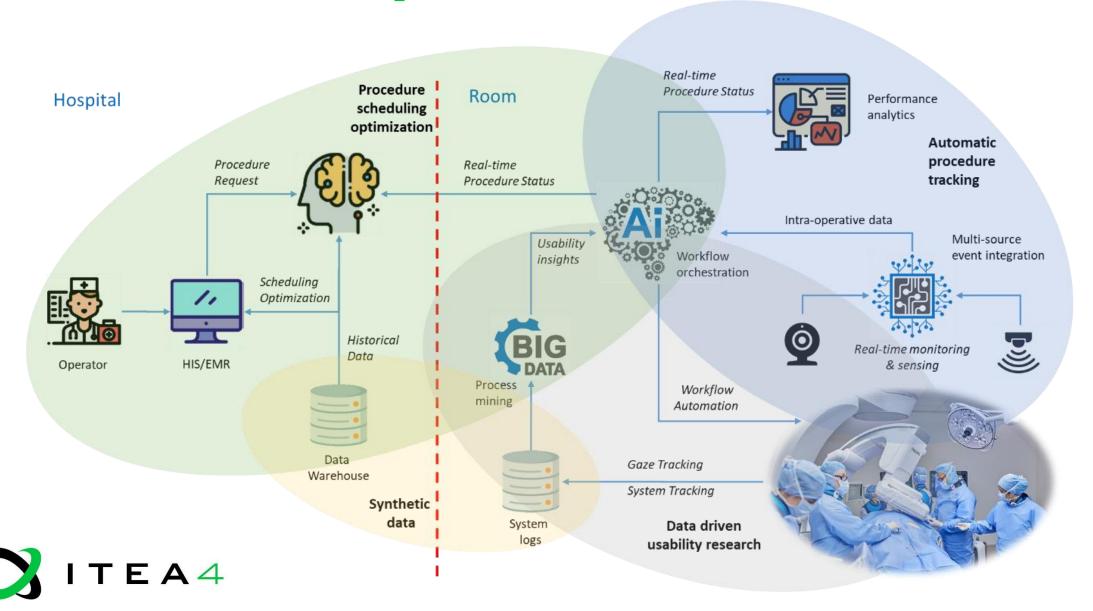
- Automated data gathering to create insights about the clinical workflow
- Realization of automatic procedure tracking applications
- Software applications for optimal workflow scheduling
- Gaze tracking to provide insights about user system interaction
- Synthetic data generation tools

Within IWISH we propose solutions to realize automated data gathering combined with Al-enabled data analytics applications to deliver valuable insights about the clinical workflow





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IWISH Key results / highlights

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Synthetic data generation

- Deployment at multiple hospitals
- Syntho platform 3.0 released

Gaze tracking

- Gaze tracking successfully demonstrated for radiology case
- Evaluation continues, first release expected by end of 2028

Video based procedure tracking

- Demonstrations of surgery phase recognition
- Video based detection of key events

Adaptive procedure scheduling

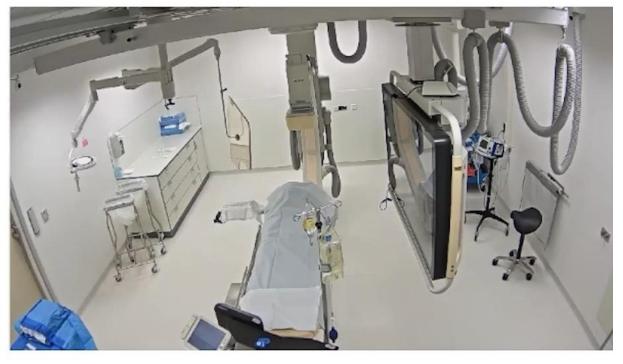
- Surgery duration prediction evaluated
- Scheduling applications demonstrated



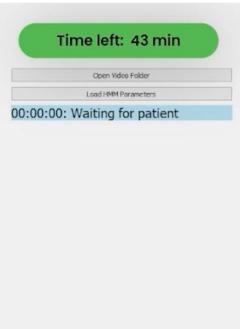












IWISH Impact and outlook

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The IWISH project has demonstrated how Al-based applications can help optimise clinical workflows and reduce healthcare costs.

Next steps are to make its achievements part of clinical practice.





IWISH Project data



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Project website:



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Thank you!

