



Ministry of Science and Higher Education
Republic of Poland

Co-financed by the project of Minister of Science and Higher Education "Industry
Contact Points for the Horizon Europe Research and Innovation Framework
Programme"



LOWER
SILESIA



DOLNY
ŚLĄSK

STUDY VISIT & MATCHMAKING

Digital hospital

SURGERIX



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Future of Microsurgery



Microsurgeons problem is poor visibility



Using microscope and other tools in microsurgery

Working with narrow & deep openings

Instruments are blocking the view

→ Workflow interruption, risk of errors

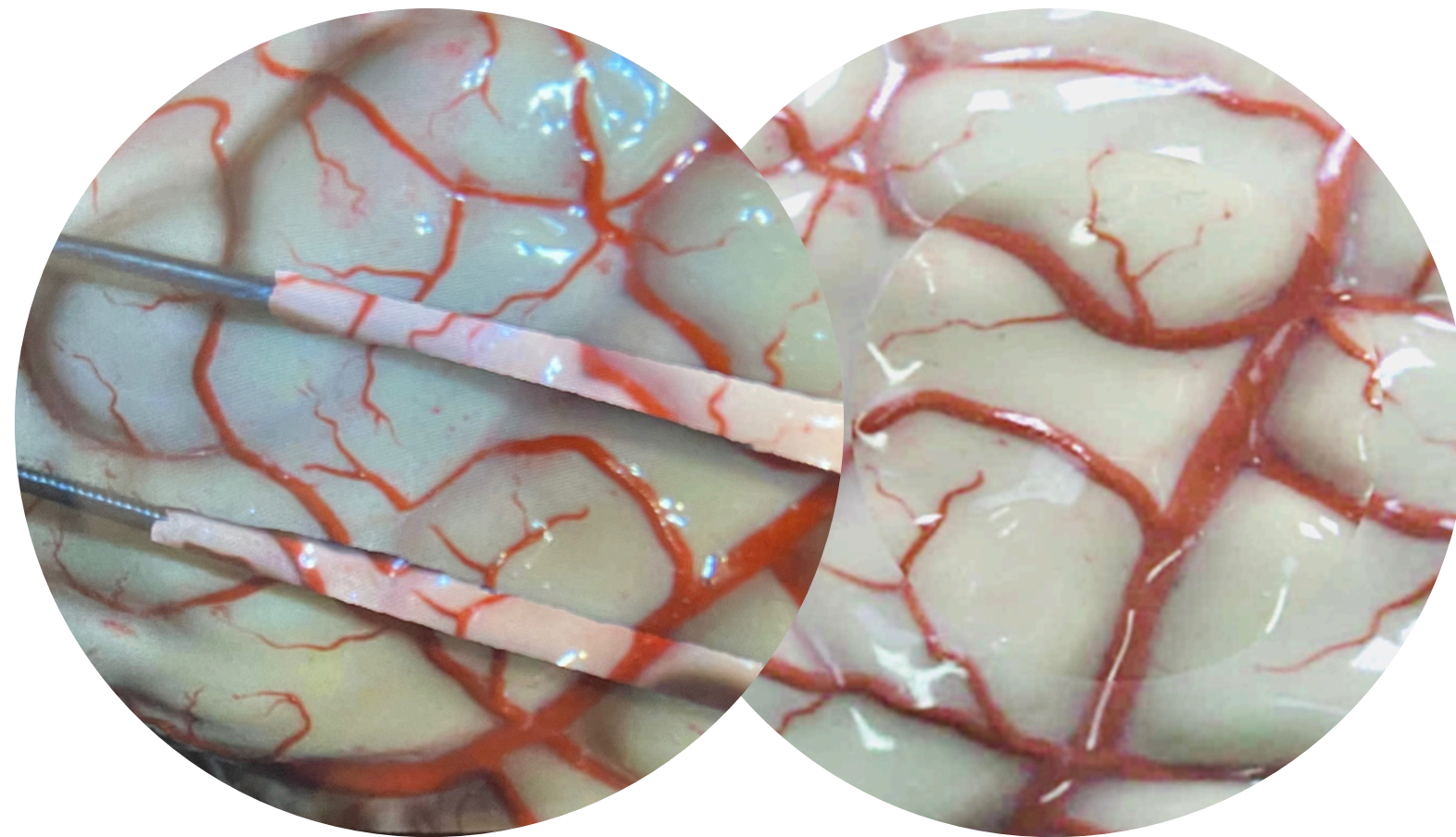
→ Expensive complications



Our vision for the future of microsurgery



Patent pending software solution analyses surgical video
from several cameras in real-time.



Transparent instruments

Context preserving zoom



Scientific publication: Acta Neurochirurgica “Evaluation of visual ergonomics in microsurgery: a real-time video processing solution”





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Senior
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Faiqa Shahzad

R&D Quality
and
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Moona Korhonen

Product
Manager

Calls of interest

- HORIZON-HLTH-2027-03-TOOL-02:
Advancing bio-printing of living cells for regenerative medicine
- HORIZON-CL4-2027-04-DIGITAL-EMERGING-04: Apply AI: Challenge-Driven AI Innovation Booster in Apply AI prioritised sectors (RIA) (Partnership in AI, Data and Robotics)
- HORIZON-HLTH-2026-01-TOOL-03:
Integrating New Approach Methodologies (NAMs) to advance biomedical research and regulatory testing
- HORIZON-HLTH-2027-02-DISEASE-01-two-stage: Innovative healthcare interventions for non-communicable diseases



Collaboration on Surgical visualisation with ML and AI



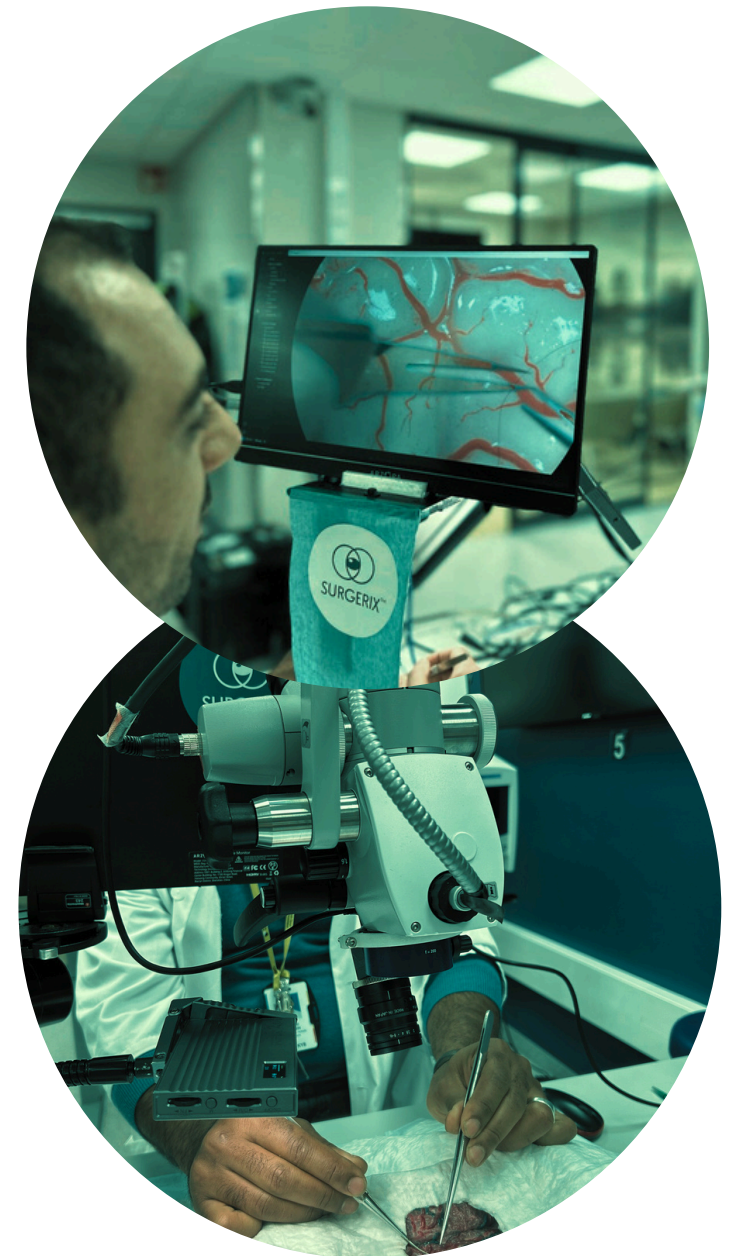
Surgerix Oy has expertise in SaMD, Machine Learning, Real Time Image Recognition, Microsurgery Training, collaboration with leading neurosurgeons and ENT at Microsurgery Center of Eastern Finland.

Scope of the project:

- Multi-site hospital collaboration and user testing with real case studies: e.g. Glioma, Aneurysm, skull base tumors. Conduct observational and pilots, pre-clinical and clinical testing and validation of product features TRL 3-8.
- Aiming for CE mark and FDA approvals

Who is needed

- Hospitals, neurosurgery & ENT departments
- Hardware providers or surgical training centers with equipment
- Horizon, Eurostars, EIT, EIC, Other partnerships





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and Health



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Digital
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