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EIC INNOVATION PROCUREMENT PROGRAMME

BMVision Kidney AI (v1.3)
case study

Better Medicine

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PILOT: Better Medicine OÜ & Universitätsmedizin Mainz

BMVision Kidney AI (v1.3) | Healthcare, Medical Artificial Intelligence, and Abdominal Radiology

95.1%
SCAN PROCESSING SUCCESS
78 out of 82 hospital abdominal CT scans successfully processed by AI

TRL 9
FULL OPERATIONAL MATURITY
Software deployed and validated inside a major German teaching hospital

100% AI
AUTOMATED INFERENCE
Delivers automated 3D kidney tumour volume segmentation

0 BREACHES
STRICT GERMAN PRIVACY COMPLIANCE
Fully cleared German hospital data security and privacy protection audits

PILOT PROFILE

EIC Awardee: Better Medicine OÜ
Solution: BMVision Kidney AI (v1.3)
Partner: Universitätsmedizin Mainz (Mainz University Hospital, Germany)
Testing Ground: Secure on-premise container environment integrated into the private cloud network at Mainz University Hospital
Sector & Challenge Focus: Healthcare, Medical Artificial Intelligence, and Abdominal Radiology

The Challenge

An aging population has led to a steady rise in kidney cancer cases. Hospital radiology departments face high volumes of abdominal Computed Tomography (3D abdominal X-ray) scans. Manually reviewing scans slice-by-slice to locate, outline, and measure kidney tumours is time-consuming, creating reporting backlogs and risking missed incidental early-stage tumours when radiologists are overworked.

The Solution

BMVision Kidney AI is a European-certified (Class IIa medical device) Artificial Intelligence software. Installed inside the hospital's secure computer network, the AI automatically analyses abdominal CT scans, detects renal lesions, generates 3D volume outlines of kidney tumours, and alerts radiologists to early-stage findings.

Objectives

The pilot aimed to deploy BMVision Kidney AI inside Mainz University Hospital's computer network, process historical hospital scan archives, and verify diagnostic accuracy and radiologist time savings while satisfying strict German medical data protection laws.

Constrains

Connecting medical AI software into a German university hospital required passing rigorous data transfer audits to ensure patient privacy compliance.

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Performance

The software was installed on a secure hospital server at Technology Readiness Level 9. It processed 78 out of 82 submitted abdominal CT scans (95.1% success rate), automatically flagging early-stage kidney tumours and completing 3D volume measurements in minutes, saving significant radiologist reporting time.

Partner Operational Improvements

Faster kidney scan interpretation, automated secondary screening for early-stage tumours, and full compliance with German health privacy laws.

SUCCESSFUL PILOT VALIDATION

Mainz radiology leadership is completing a final clinical scan review to select between annual fixed-license or pay-per-scan pricing ahead of a commercial contract.

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