



Winner of the "AI for SMEs" innovation competition organized by the Baden-Württemberg Ministry of Economic Affairs.

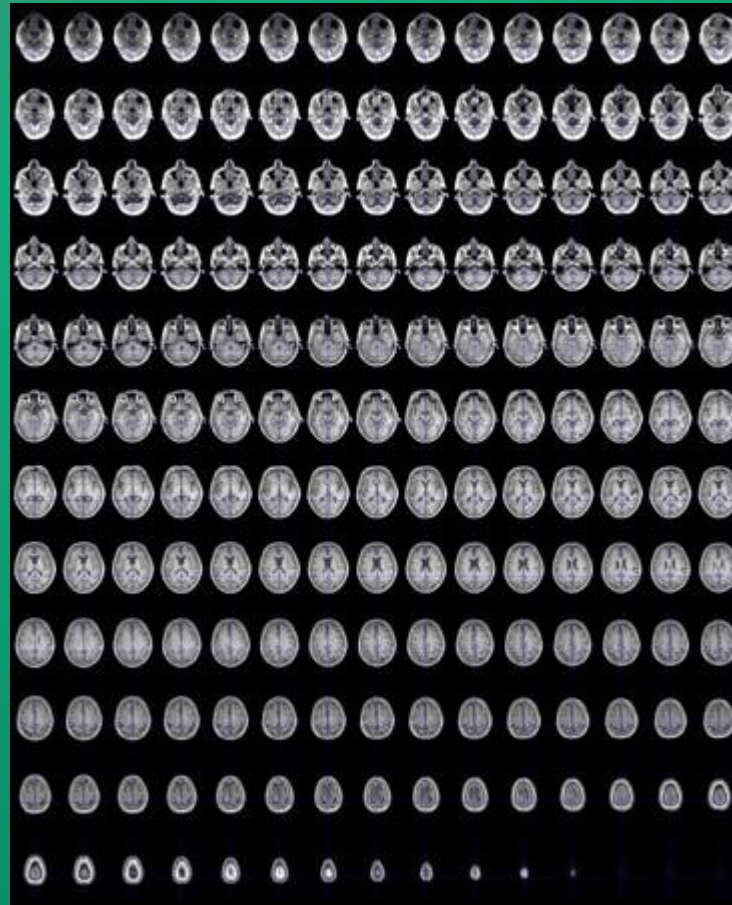
Our mission:

Rethinking radiological analysis

The problem



- Visual comparison of approx. 800 images within 10 minutes
- carries the risk of overlooking pathological findings

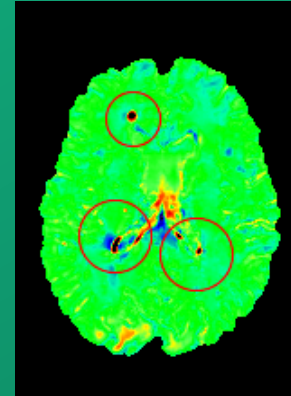
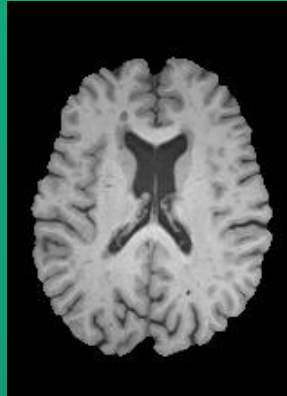
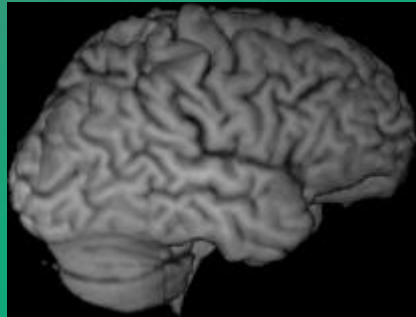


The solution: Voxel-Guided Morphometry (VGM)

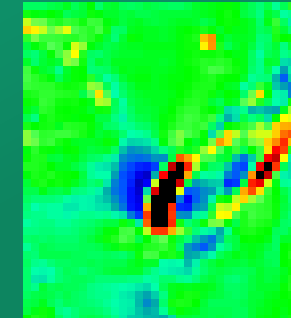
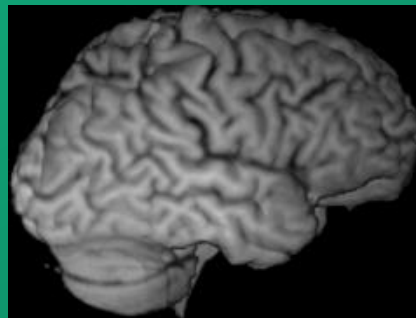


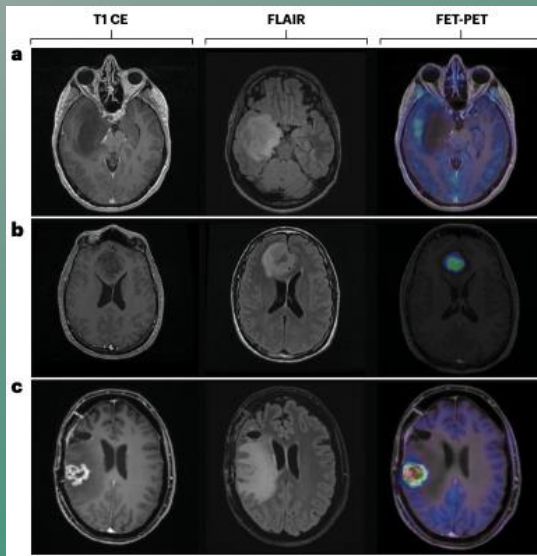
Voxel-Guided Morphometry (VGM): Fully automated analysis and visualization of structural changes in the brain with millimeter precision using innovative AI support

MRI 1



MRI 2

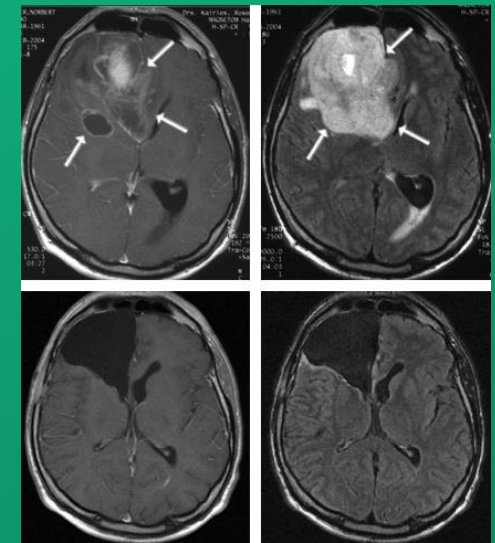




Weller et al., Nature Reviews Dis Primers 2024

EIC Pathfinder Challenge 2025: Generative AI-based agents to revolutionize medical diagnosis and treatment of cancer

Pathfinder challenges 2023: funding sum 160 M €
 Chance of success: 12 %
 Average budget 3,7 M €



http://www2.medizin.uni-greifswald.de/neuro_ch/index.php?id=456

Diffuse gliomas in adults account for > 90% of gliomas

- Project goal: Building a base for multimodal AI-supported analysis of primary brain tumors and their dynamics
- Integration of
 - imaging characteristics
 - location
 - microscopic appearance
 - immunohistochemistry
 - paraclinical findings
 - molecular characteristics
 - genetic alterations



VGMorph's part:

- Exact 3D individual longitudinal assessment of gliomas and their imaging dynamics
- Early differentiation of tumor recurrence and pseudo-recurrence, treatment response, and pseudo-response
- Contribution to the establishment of a multiparametric database for diagnosis and individualized treatment of gliomas
- Integration of information from different imaging modalities (MRI, MRS, PET)

Partners wanted for multimodular imaging and analysis of brain tumors



- Hospitals and scientific institutions that deal with brain tumors
 - neurological exam
 - EEG
 - serial MRI scans
 - MRS
 - PET
 - assessment of genetic and paragenetic alteration
 - IDH mutations
 - molecular subtypes
- AI specialists
- Database specialists
- Pharmaceutical companies