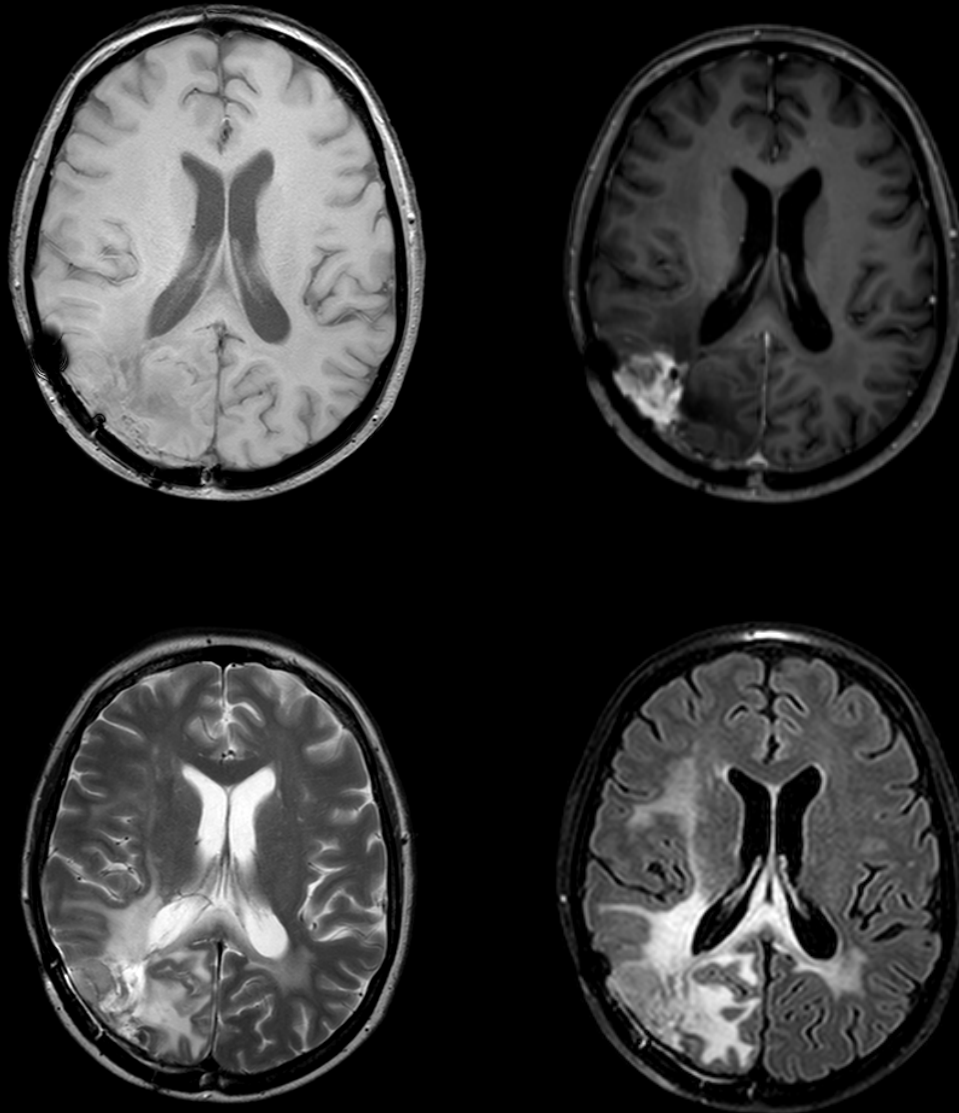


ilastik

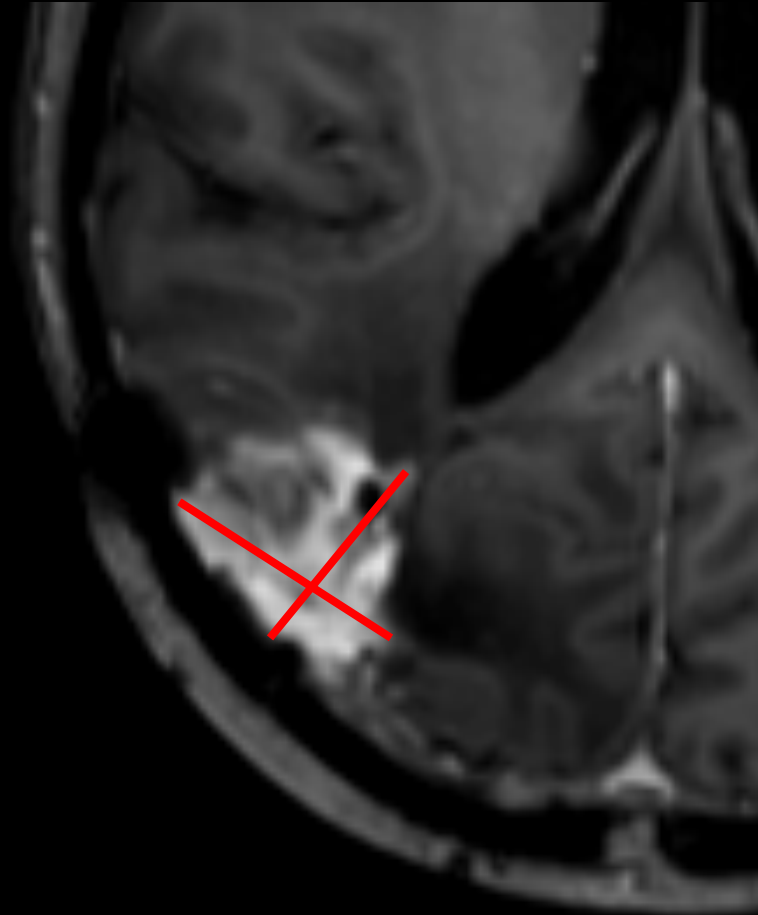
MRI Volumetry Workflow

Jens Kleesiek, Markus Döring & **Jens Petersen**
Junior Group Medical Image Computing
DKFZ Heidelberg

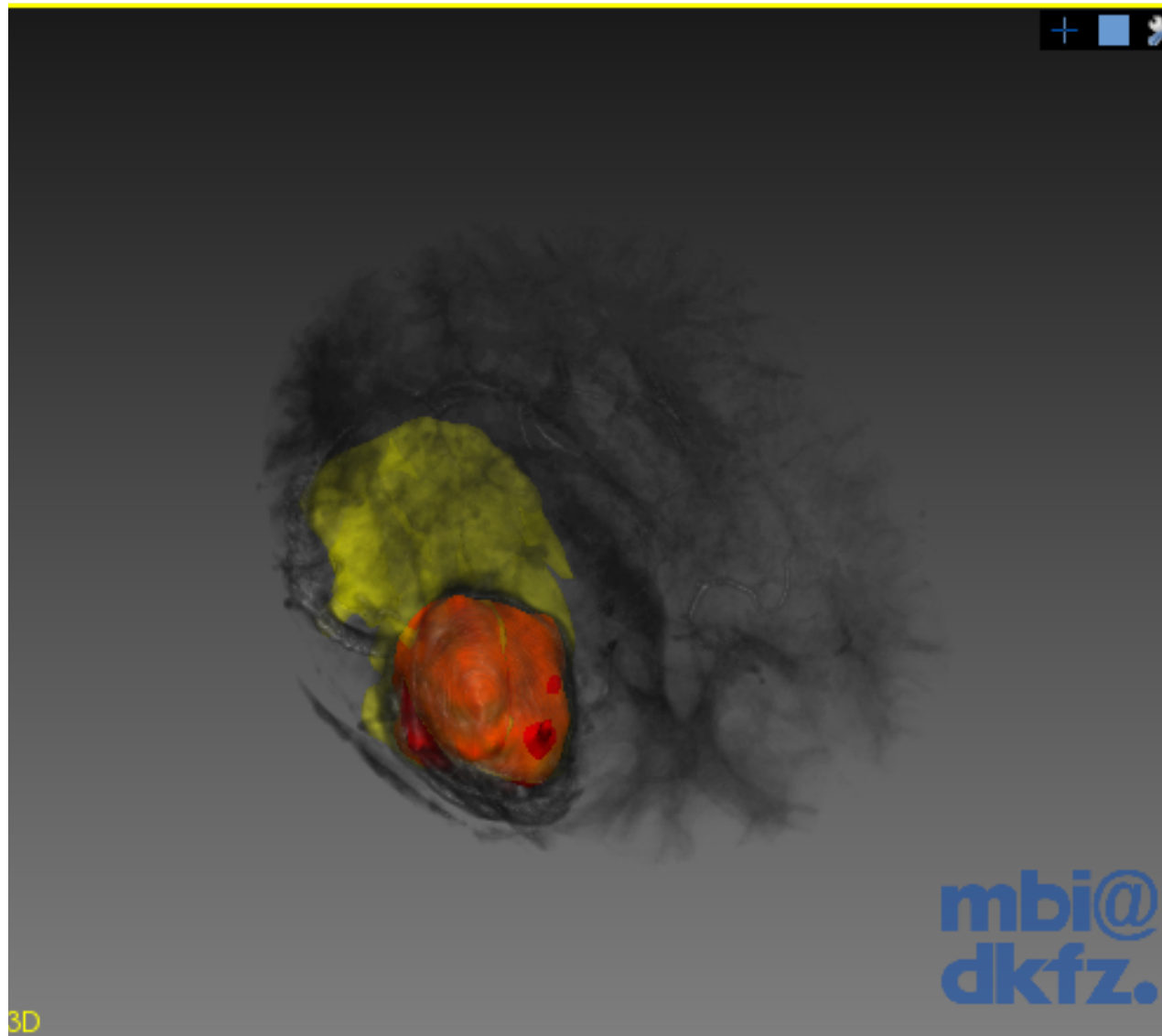
Tumor Progression Monitoring



Tumor Progression Monitoring



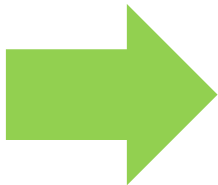
Tumor Progression Monitoring



What Can We Improve?



- Highly irregular tumor shapes
- 2D measurements of 3D shapes
- High inter- and intra-rater variability (up to 30%)



Fast & reproducible volumetry

Kleesiek, J., Petersen, J., Döring, M., Maier-Hein, K., Köthe, U., Wick, W., Hamprecht, F.A., Bendszus, M., Biller, A.:

Virtual Raters for Reproducible and Objective Assessments in Radiology

Scientific Reports 6, 25007 (Apr 2016)

A photograph of the German Cancer Research Center (DKFZ) building, a modern multi-story structure with a glass facade and balconies. The building is surrounded by a paved courtyard with benches and young trees. The sky is blue with some clouds. The DKFZ logo is visible on the building's facade.

Thank you for your attention!

dkfz.

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50 Years – Research for
A Life Without Cancer