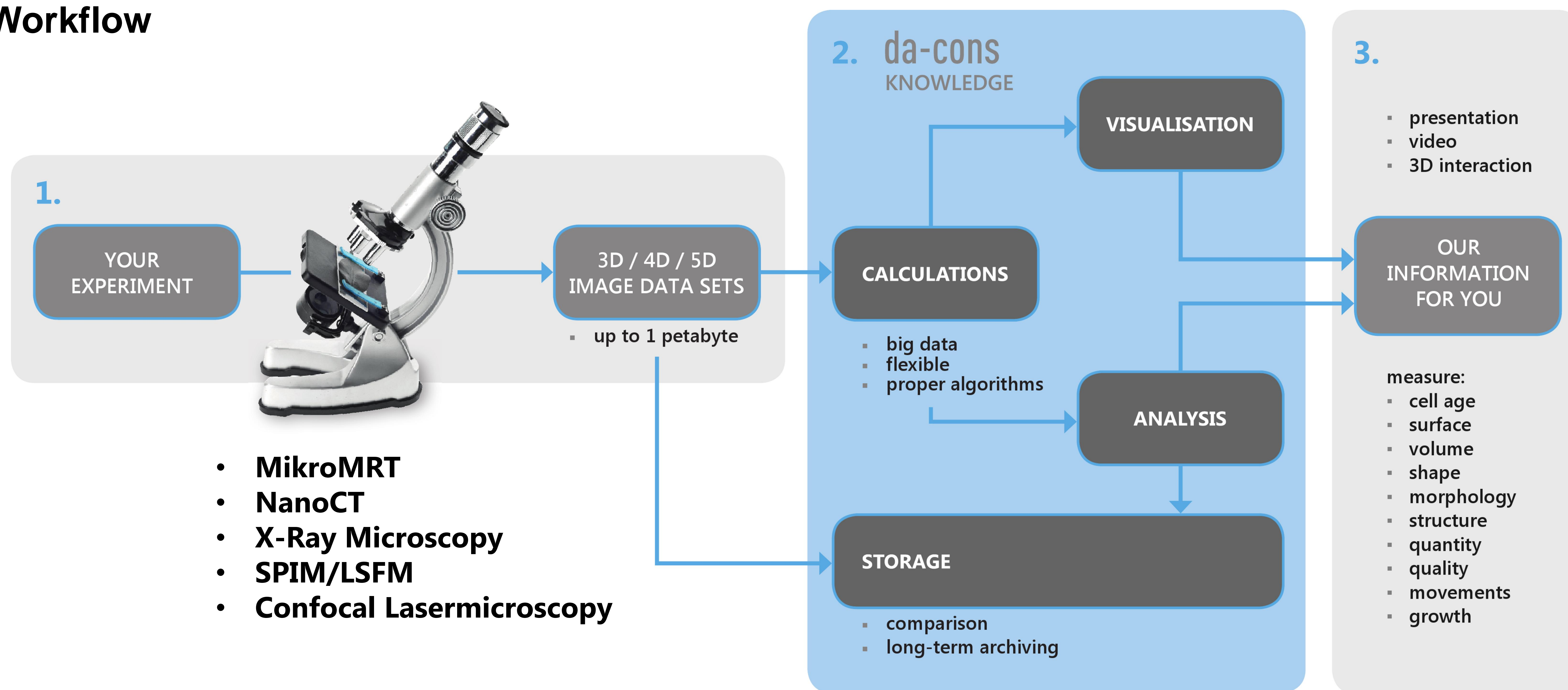


Multidimensional image analysis with a flexible sequence of operators and cluster computing

Workflow



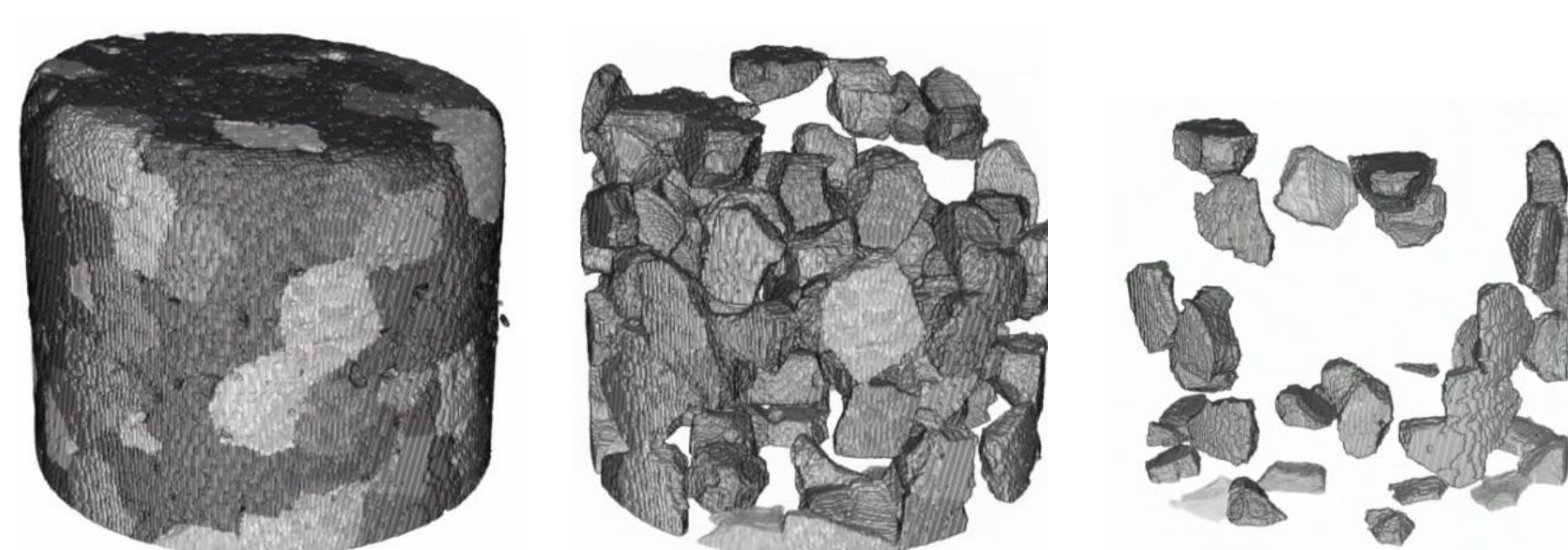
Your research possibilities with High Technology Image Analysis Service for:

- Analysis of big data sets
- Flexible libraries
- Visualization of big data sets
- Long time data archive
- Access to computing centers
- Cluster computing
- Customised solutions
- Modular algorithms
- Integrate your algorithms
- Offer your algorithms to third parties
- Use algorithms from other groups
- Create & standardize workflows
- Scale up your workflows to big data
- No computing limit
- Eliminate image analysis bottle neck
- Enhance experiment schemes
- Save time (up to 95%)
- Save hardware
- Save staff
- Focus on your core competence

Examples

Example: Grain Analysis in Ceramics

Image acquisition with CT:
Objective: tall grain sizes with low roundness



Ceramic sample

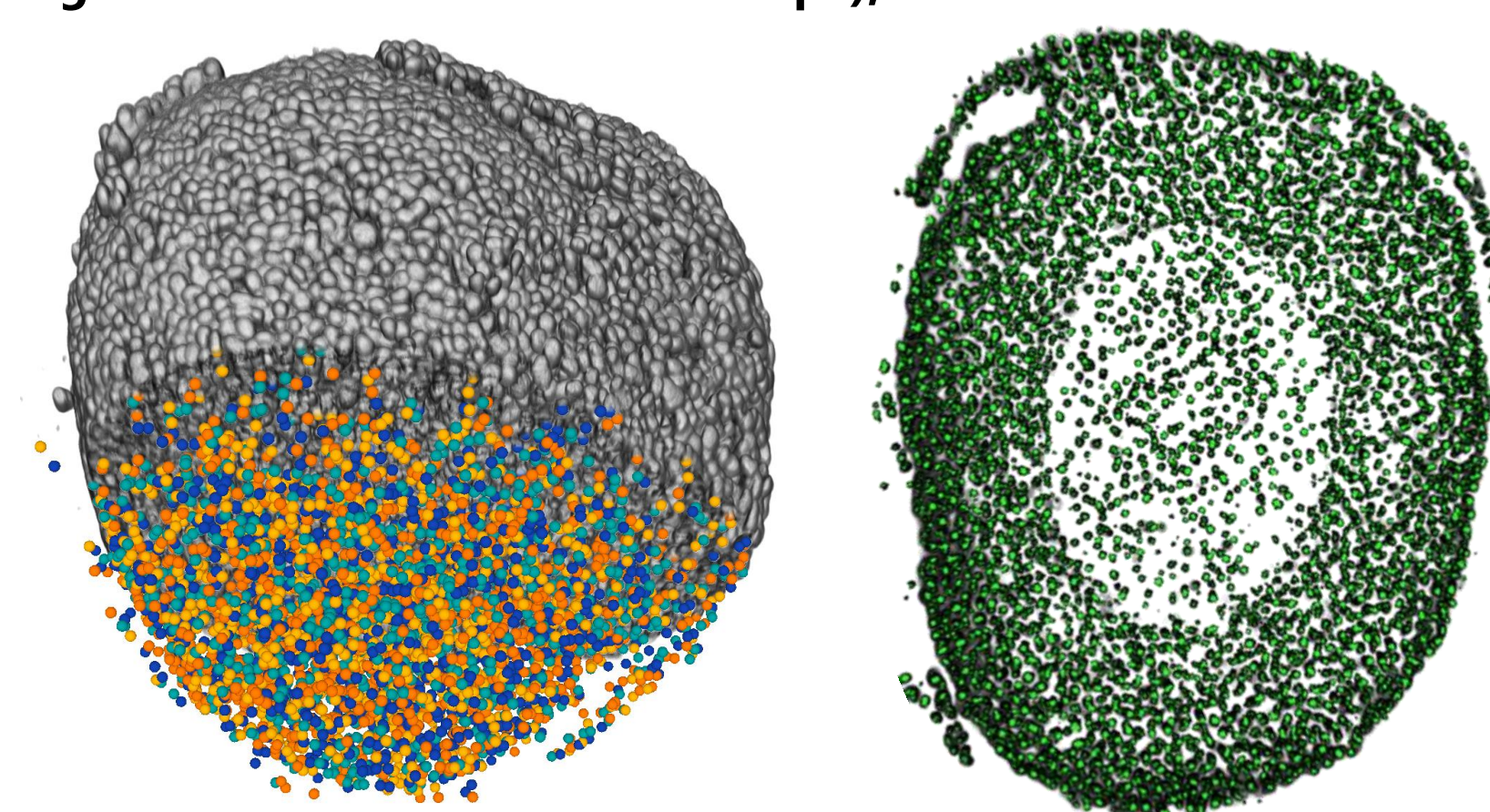
Filter of all grains with size < 200,000 voxel

Filter of all grains with size < 200,000 voxel & roundness < 0.65

Data provided by KIT IAM-ZBS

Example: Large Spheroid Analysis

3D Visualization and Analysis of 35.000 Cell Spheroid.
Image acquisition with mDLSM (monolithic Digital Scanned laser Light sheet fluorescence Microscope),



Data provided by Christian Mattheyer, BMLS University Frankfurt

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