From 3D Images to Simulation with Simpleware and COMSOL

Simpleware software provides solutions for generating high-quality models from 3D image data (MRI, CT, micro-CT, FIB-SEM...) for direct export to COMSOL Multiphysics[©] software. This solution is smooth and robust for workflows using complex image data, and opens up a wide range of applications for COMSOL users needing a straightforward route from scan to CAD, FEA and CFD models that represent real world geometries.

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Simpleware Key Benefits

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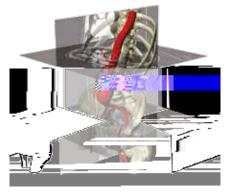
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- · Fast and time-saving workflow
- Dedicated COMSOL Multiphysic[®] export (.mph and .mphtxt)
- Work with wide range of 3D image FCVC CPF %#& 'NGU
- · Easy-to-use and intuitive interface
- Customizable, including scripting
- Extensive technical support and consulting services

Simpleware Features

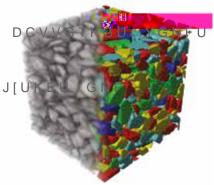
- structural FEA and CFD
- Fix models (dirty CAD, orphan/ deformed meshes, Booleans...)
- Rapid image data visualization and animation in 2D and 3D
- Comprehensive image processing & analysis tools
- CAD integration & NURBS (IGES) export
- FE-based homogenization modules

Selection of Application Areas for COMSOL Multiphysics © Users

- Life Sciences G g. medical devices, orthopedics, physiological flows...
- Materials Science G g. alloys, composites, soils, concrete, porous media, plastics, rubbers...
- Reverse (ngineering G g. automotive, aerospace, consumer and legacy products...
- Industrial NDT e.g. product design, industrial 'NVGTU HWGN EGNNU
- Oil & Gas e.g. digital rock physics, special EQTG CPCN[UKU IGQRJ[U data...
- Synthetics e.g. textiles, ceramics, insulation OCVGTKCNU 'DTGU







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Simpleware Software Solutions

The Simpleware product group at Synopsys develops software for the conversion of 3D scan data (MRI, CT, micro-CT...) into high quality design,

NDE, and Oil and Gas. Easyto-learn and use, the software offers a robust bridge between the latest imaging technologies and multiple design and simulation applications.

For more information go to www.simpleware.com

