MedViz
The Medical Imaging and Visualization Network
in Bergen

IllustraVis 2009
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What is MedViz?

• A cluster of research groups in Bergen
• A consortium between 3 institutions
  – A consortium agreement
• A network of persons dedicated to R&D in the field of advanced imaging and visualisation
The MedViz Network

University of Bergen
- Faculty of Medicine and Dentistry
  - Institute of Medicine
  - Dept of Biomedicine
  - Dept of Surgical Sciences
  - Dept of Clinical Medicine
- Faculty of Mathematics And Natural Sciences
  - Dept of Informatics
  - Dept of Physics and Technology
  - Dept of Mathematics
  - Bergen Image Processing Group

Haukeland University Hospital
- Dept of Radiology
- Bergen fMRI Group
- National Centre for Ultrasound in Gastroenterology
  - Dept of Thoracic Medicine
  - Dept of Cardiology
  - Dept of Oncology and Medical Physics
  - Neuro Clinic
  - Surgical Clinic

Christian Michelsen Research AS
- Dept of Computing
- Dept of Instrumentation
- PET-CT Centre

External Companies:
- Nordic Neuro Lab
- GE Vingmed
- StatoilHydro
Our Mission

To promote the development of biomedical and clinical imaging technologies with the goal of improving diagnosis and treatment of patients

The patient-doctor interface is in the centre of MedViz’ challenge
Ultrasonography - Characteristics

- A clinical method
- Cheap and flexible in use
- Worldwide access
- Very high temporal resolution
- Very good spatial resolution
- ..., but somewhat noisy
“Illustrasound”

Illustrated Ultrasound for Multimodal Image Interpretation
Multimodal Visualization
Explosion View
"The red wood effect"