

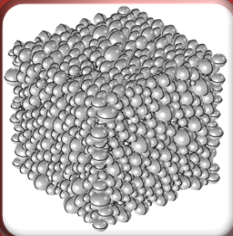


PermLab
DIGITAL CORE LABORATORY

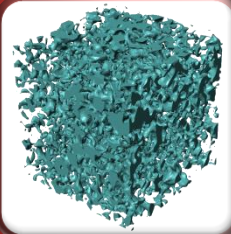
Conventional
Reservoirs

Unconventional
Reservoirs

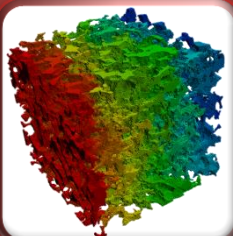
In House Software



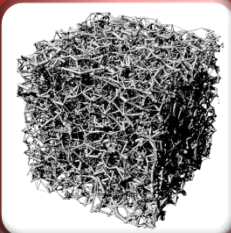
**Virtual
Reconstruction**



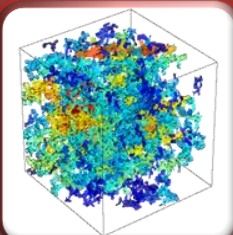
**Tomographic
Reconstruction**



**Morphological
Predictions**



**Network
Modeling**



**Direct
Simulation**



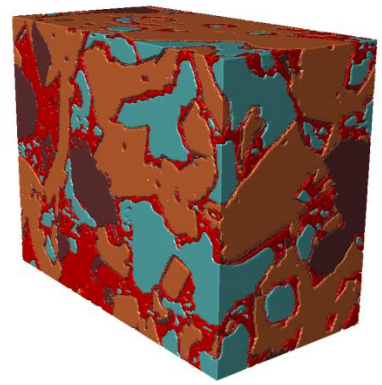
Up Scaling



PERM Inc
TIPM LABORATORY

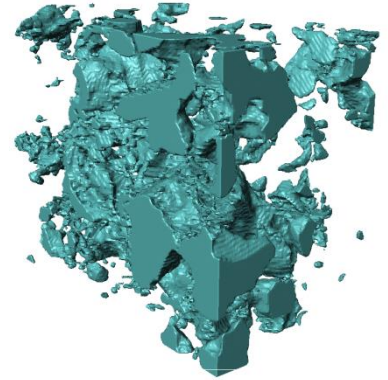
Input Data

- 2D Thin Section SEM Images
- 3D Micro-CT Images
- Grain Size Distribution
- Pore Size Distribution
- MICP Data



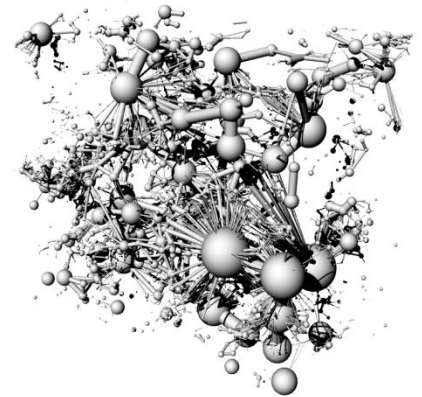
Reconstruction

- Virtual Porous Media
- Tomographic
 - Limited Number of Images
 - Series of Images
- Different Mineralogy



Single Phase Properties

- Porosity
- Permeability
- Formation Factor
- Thermal Conductivity
- NMR



Multi Phase Properties

- Capillary Pressure
- Relative Permeability
- Resistivity Index
- Saturation Exponent
- Cementation Exponent

Up Scaling

- Single Phase Properties
- Multi Phase Properties

