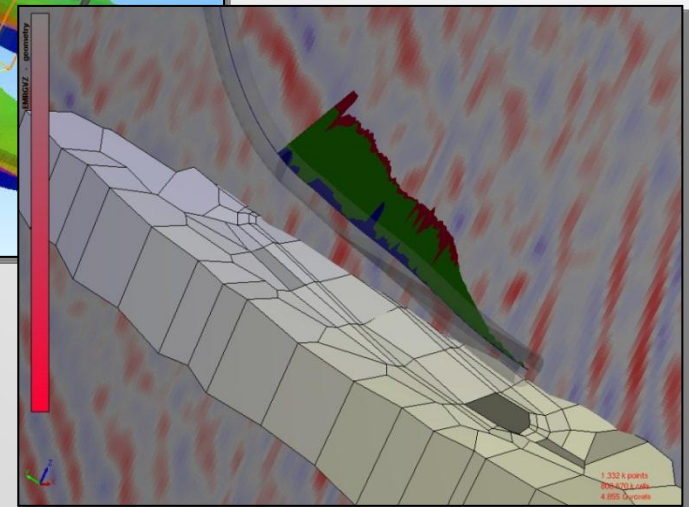
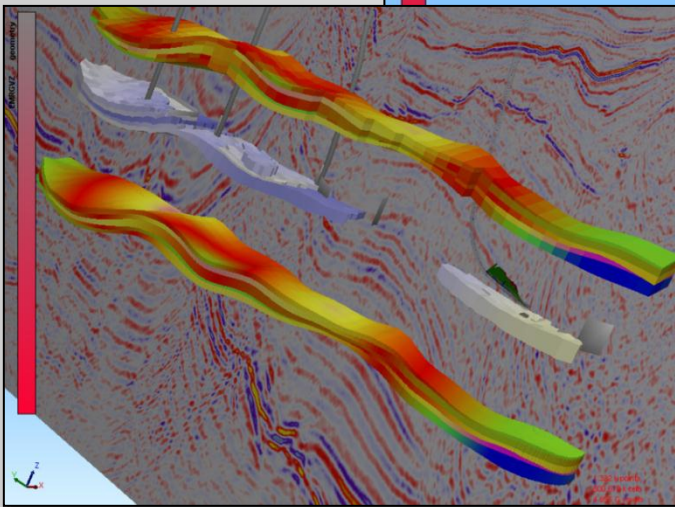
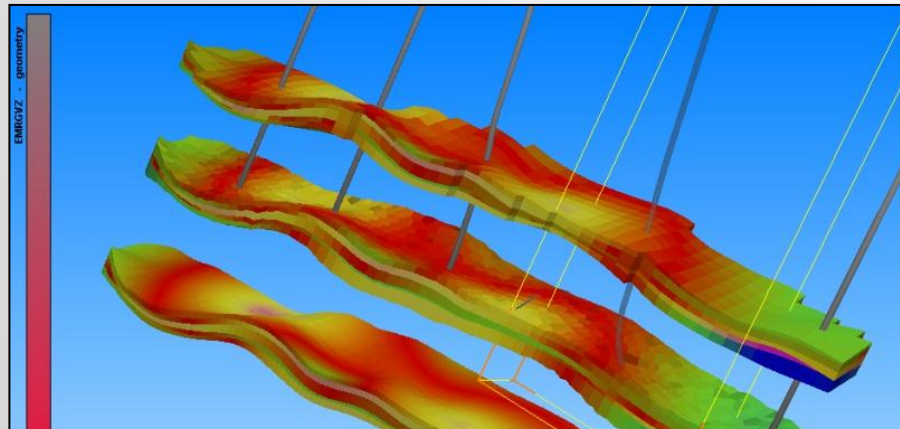




# 2012 - KAPPA-VIZ v5.0



## 3D Collaborative Environment



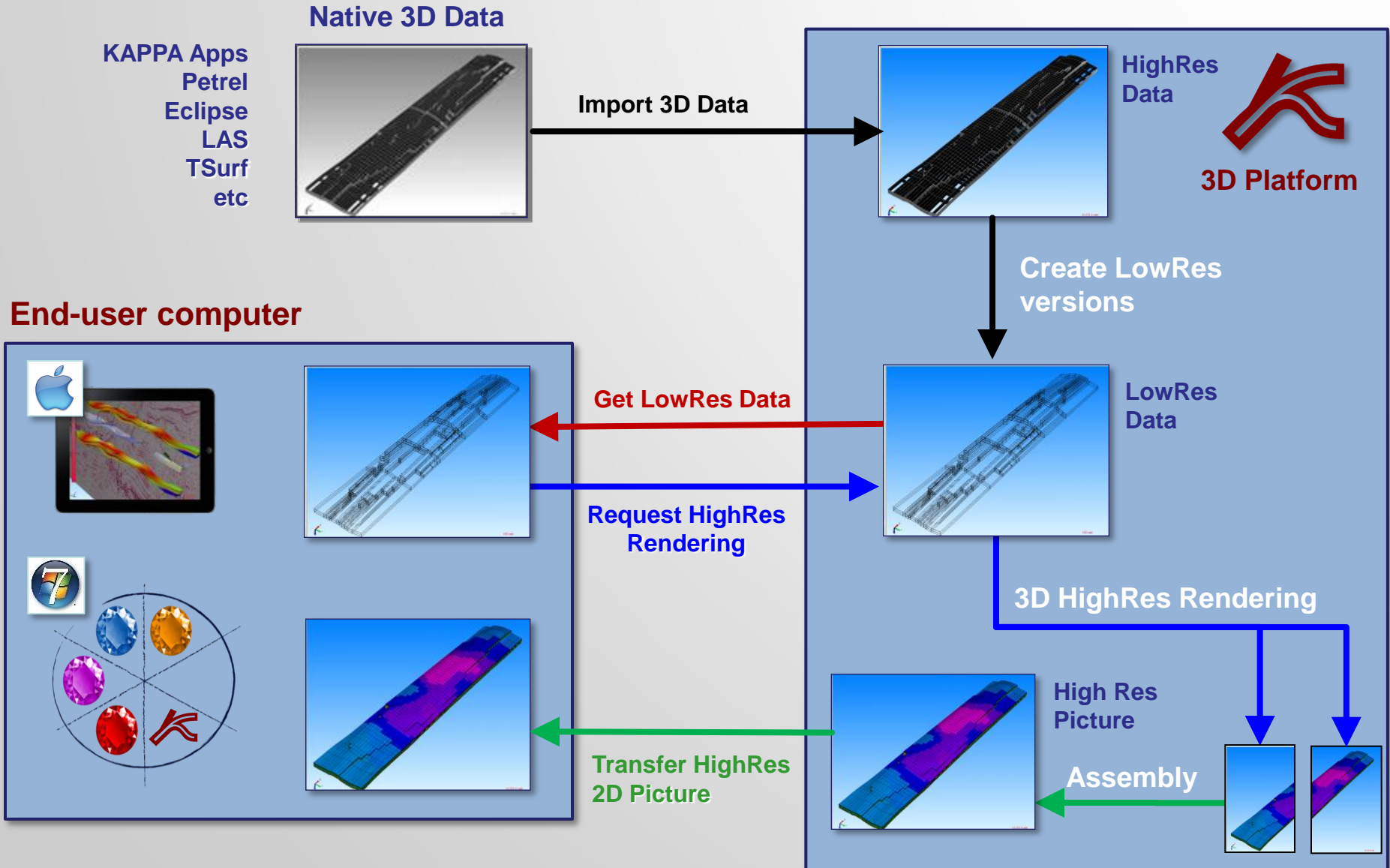


**KAPPA Viz:** *“A remote collaborative platform for the post-processing visualization of huge 3D datasets”*

- Implements a conference room metaphor, providing near real-time collaboration capabilities on a shared 3D view
- Allows manipulating and visualizing Gigabytes of 3D data from remote locations over the Internet.
- Can cope with low-bandwidth or degraded network connections
- Provides scalable server-side computational and 3D rendering services (high availability cluster infrastructure).



# 2012 – KAPPA-VIZ v5.0

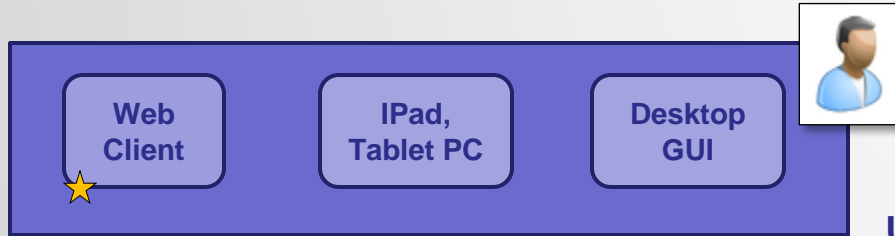




# 2012 – KAPPA-VIZ v5.0



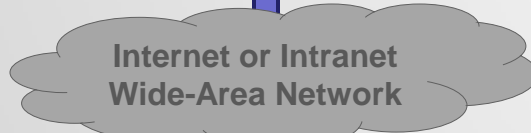
  
**KViz Clients**



**Remote Users**

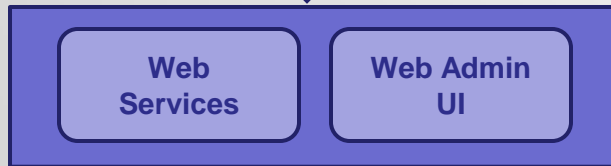
**Ubiquitous Desktop and Mobile Clients**

**Standard Web Protocols (HTTP + XML)**




**Firewall**

**Web Access Front-End (Microsoft IIS + AppFabric)**

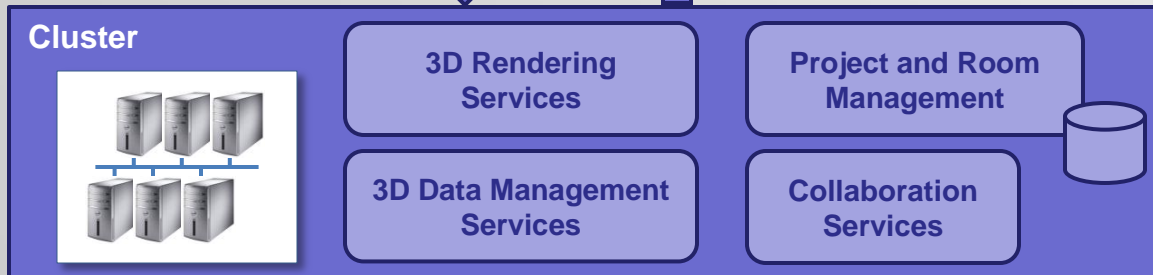


**Authentication & Access Control**

  
**3D Platform**



**High Performance Processing (Real-Time Async. Messaging)**



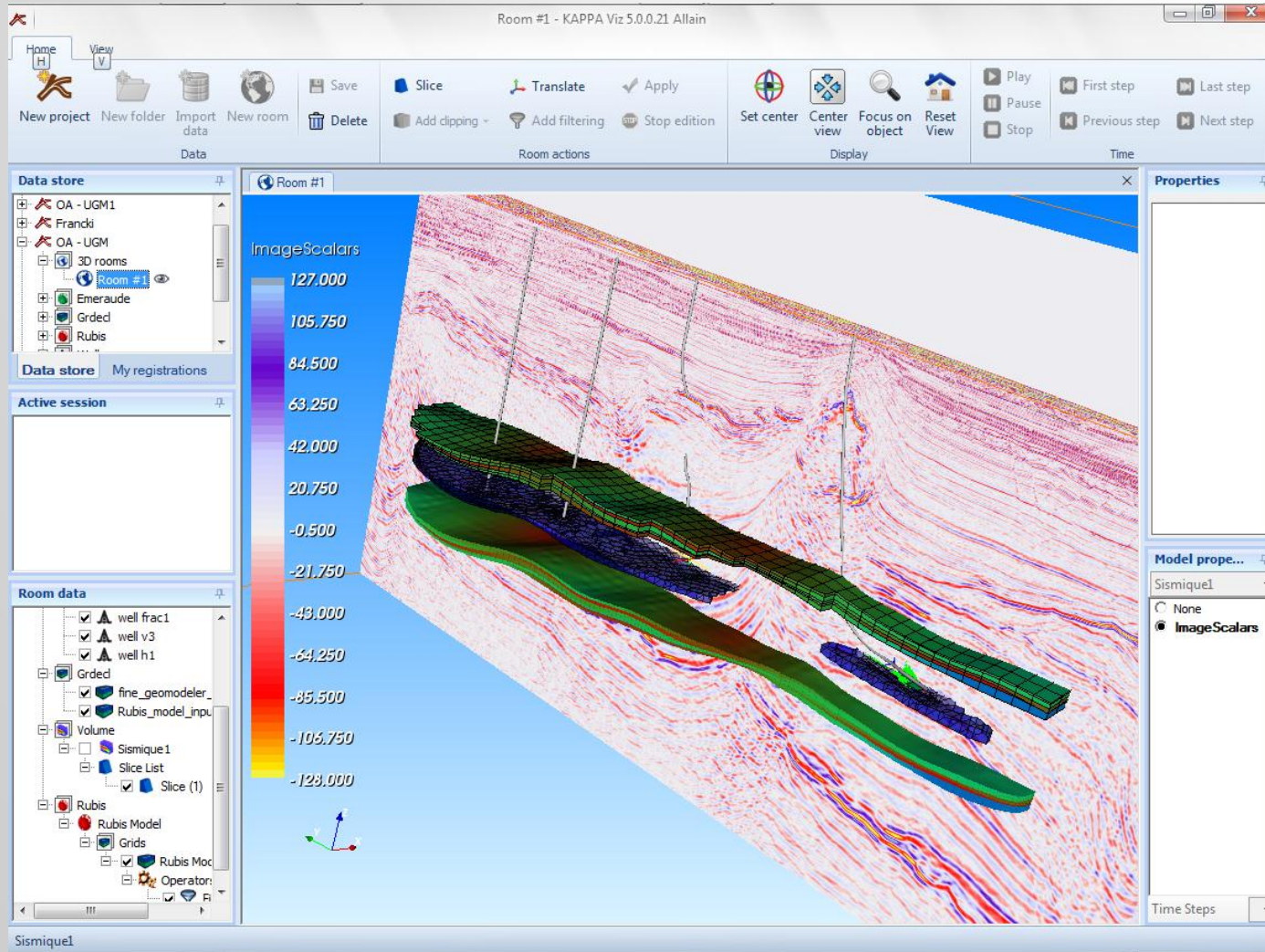
**Single-Node or Multi-Node Cluster** ★

★ Future versions





# Demonstrations





## Roadmap to Final Release (Oct. 2012)

- User Interface enhancements
- 3D Data Import: Support for additional 3D formats
  - Energistics - RESQML (structured grids only)
  - Digital Log Interchange Standard (DLIS)
  - Paradigm GOCAD - TSurf (triangulated surfaces)
- Enhanced visualization of wellbore trajectories and logs
- Enhanced clipping (e.g. clipping plan based on wellhead location)
- Integration with KAPPA Ecrin
- Enforce licensing policy



## Roadmap to V5.1 (Q? 2013) – (Non exhaustive)

- Windows client:
  - Additional UI customization capabilities
  - Multi-plan clipping (e.g. follow wellbore trajectories)
  - New slicing capabilities (e.g. fences)
  - Cell filtering: support for more complex rules
  - Ternary color palette for W/O/G saturations
- iPad Client:
  - Convergence with the Windows client features
- 3D Platform:
  - Support for additional 3D input formats and objects types - e.g. WITSML, 3D Point Clouds, etc.
  - Enhanced Web Admin UI
  - Generate movie from simulation results (time steps animation)
  - Multi-Node Clustering



## Backup Slides





## Client User Interfaces

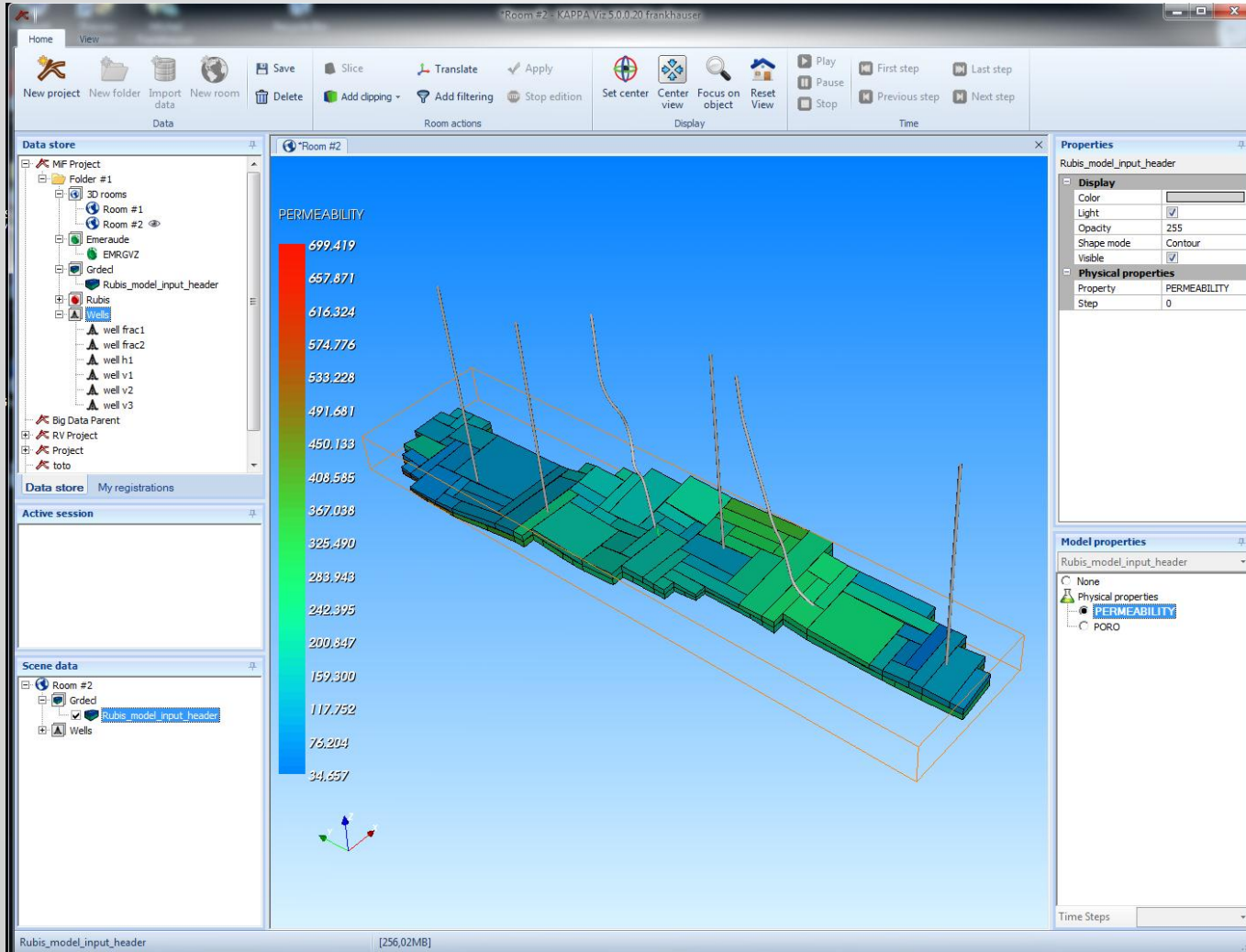
- Windows .NET
- iPad







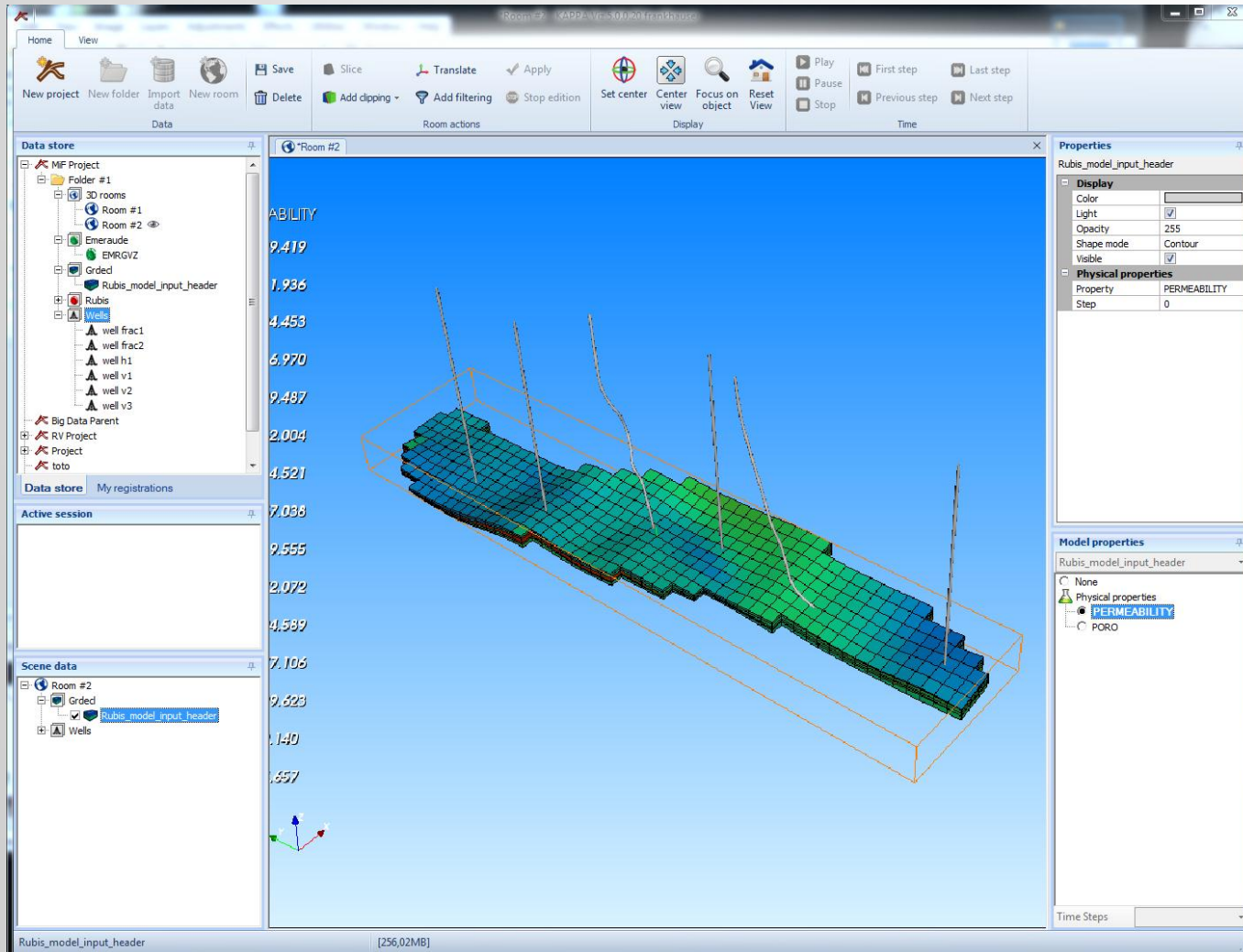
# KAPPA Viz



Local rendering of LowRes model while orbiting



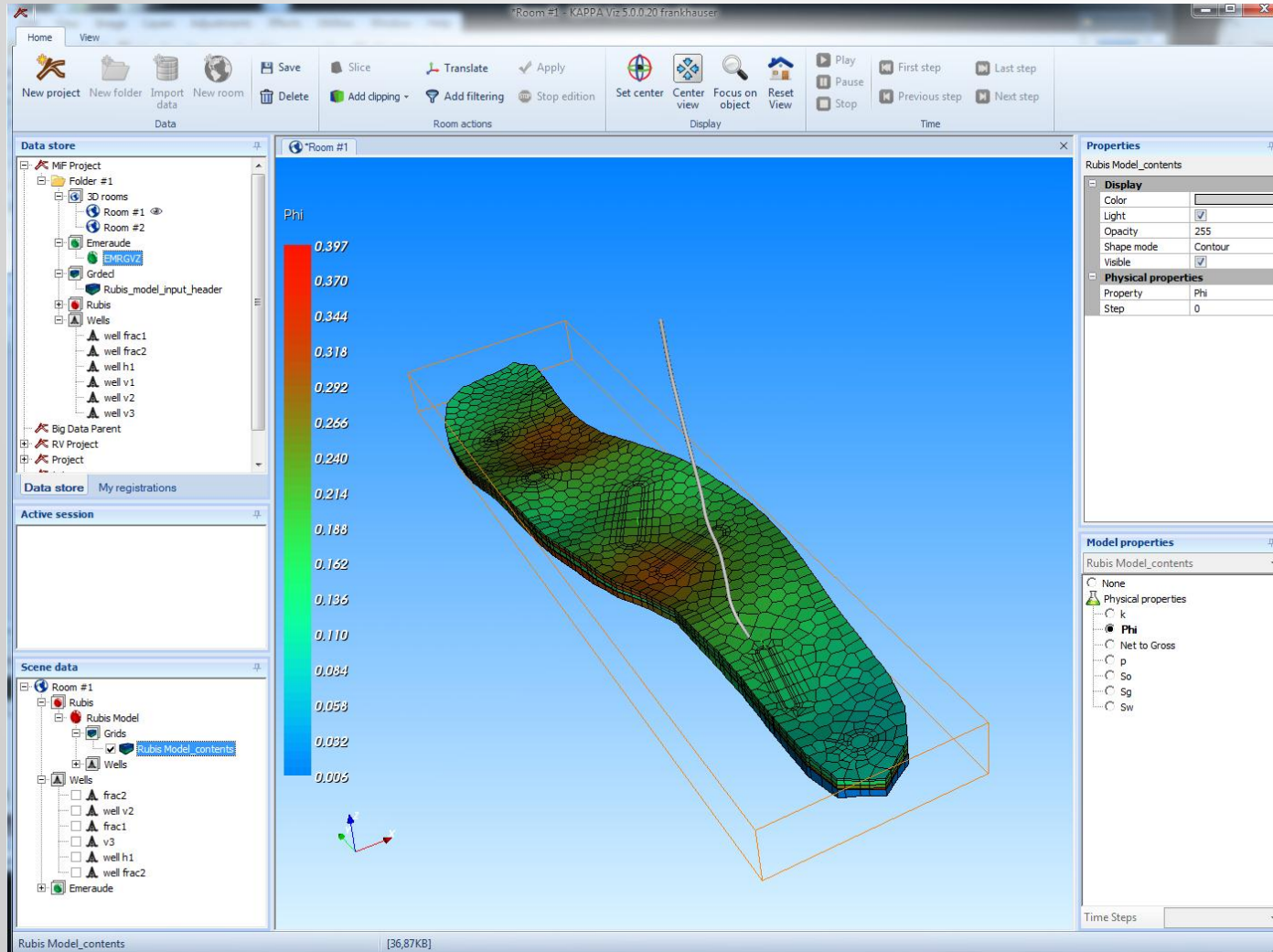
# KAPPA Viz



Remote rendering of HighRes model at the end of an interaction



# KAPPA Viz

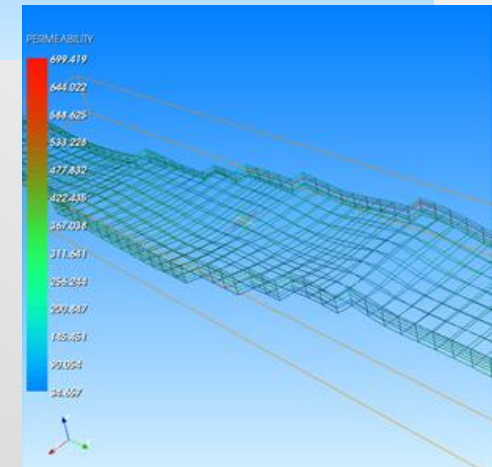
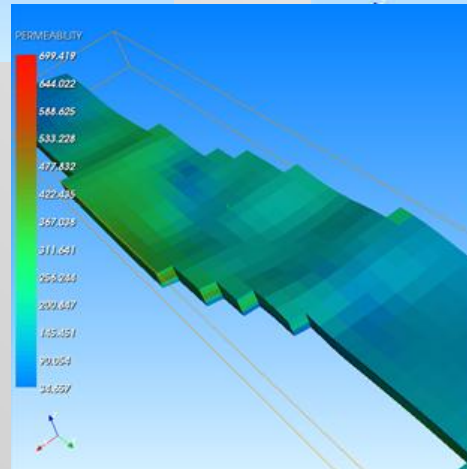
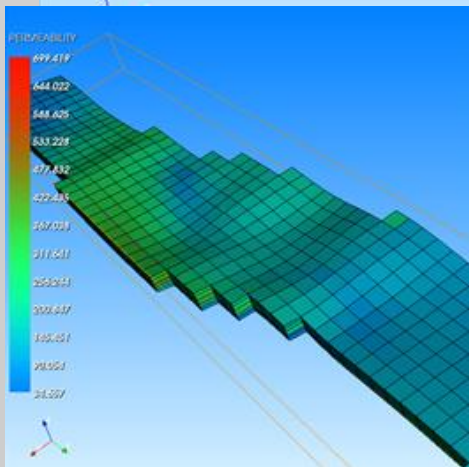
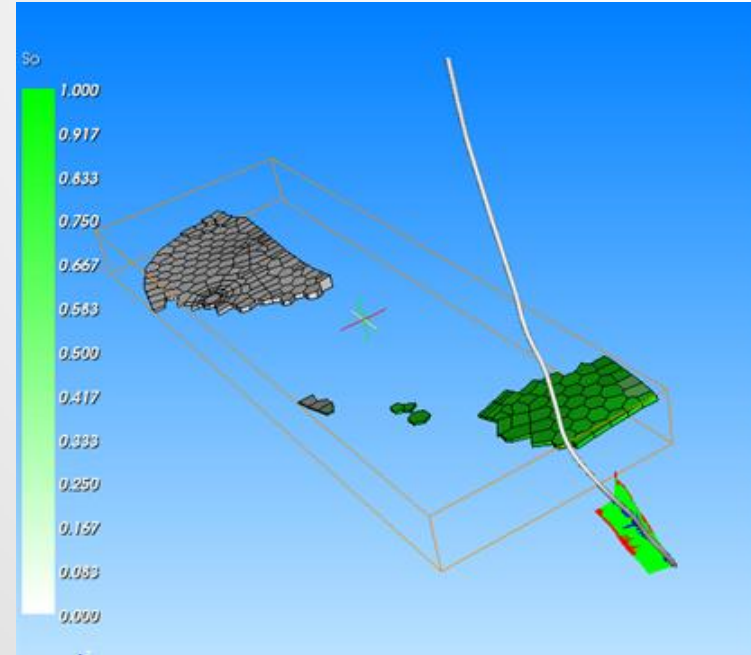
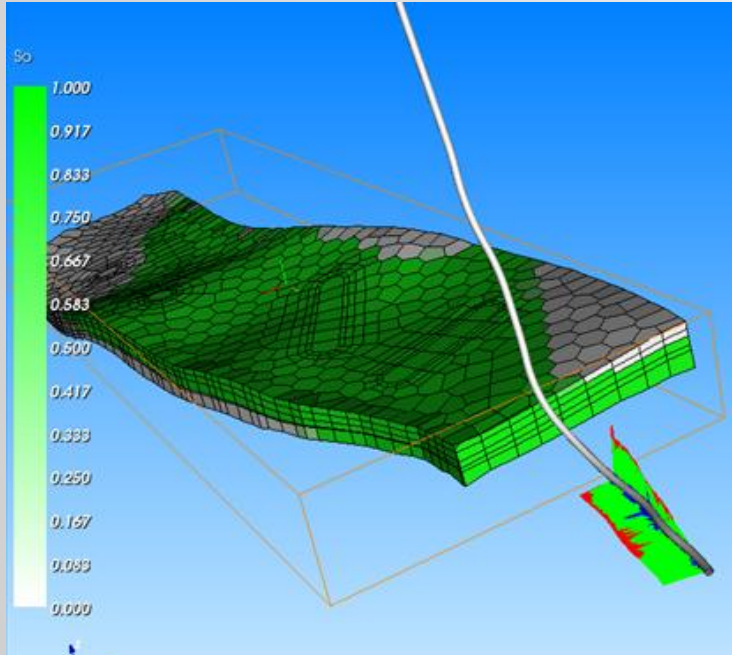


3D Scene containing a simulation Grid and a Well trajectory





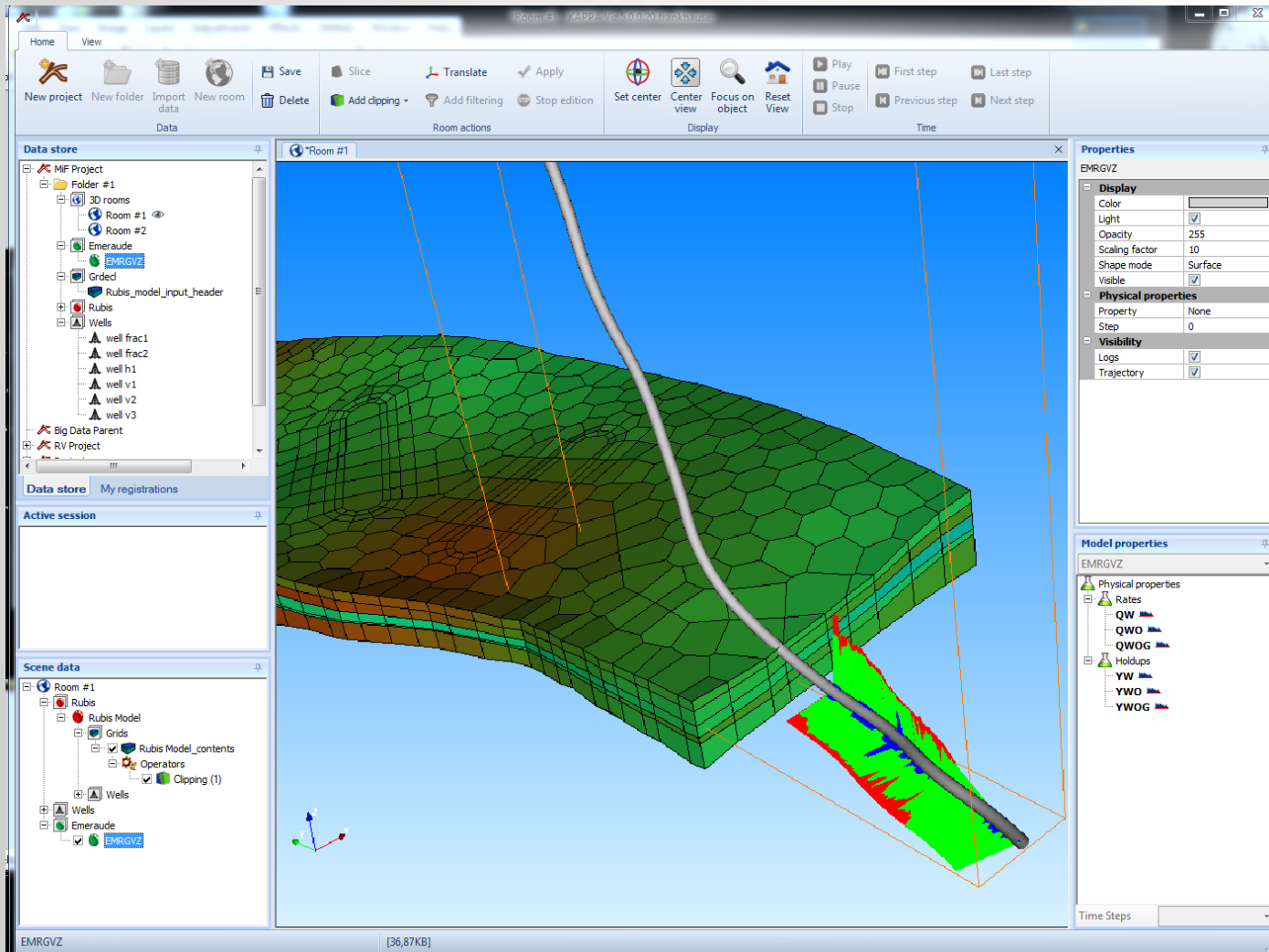
# KAPPA Viz







# KAPPA Viz



Zoom on Well Trajectory and Logs



# KAPPA Viz

