

Explore your VMAP data with ParaView

Louis Gombert - VMAP Users forum 24/02/26

Kitware / Delivering Innovation, Advancing Knowledge

Software and AI R&D Services

Customers in government, industry, and academia
200+ active projects worldwide



Sustained Growth

100% employee-owned
Over \$50M revenue



230 Employees Worldwide

Europe, France - Lyon



Deep Expertise

Strong academic reputation
90% staff hold a graduate degree



25+ Years of Experience

Kitware USA, 1998
Kitware Europe, 2010

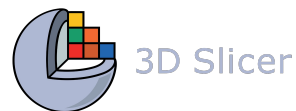
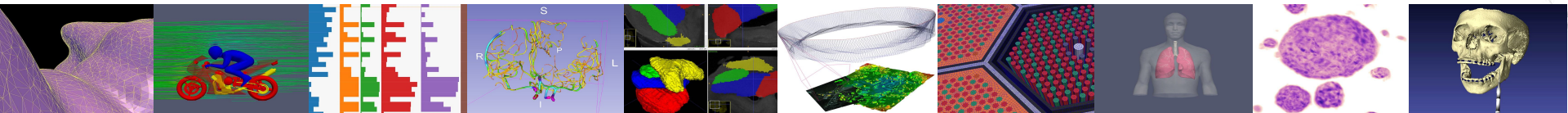


Founded on Open Source

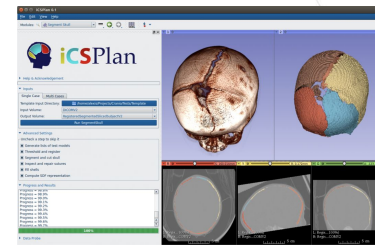
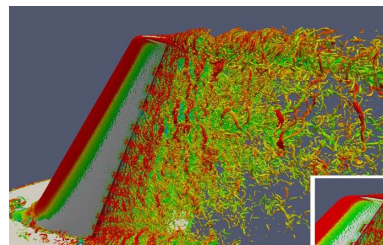
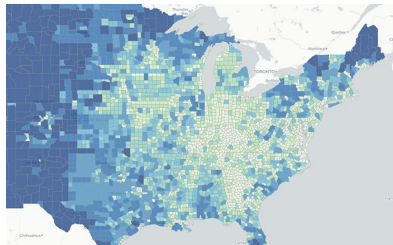
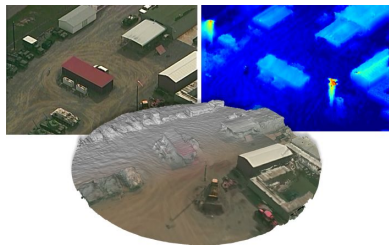
Vibrant, enduring platform/communities
Strong commitment to Open Science



Kitware / Open Source Platforms - Open Science Focus



Areas of expertise / Built on open source



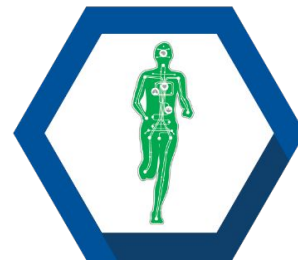
Computer Vision



Data and Analytics



Scientific Computing



Medical Computing



Software Solutions

Open Source Benefits / Shifting Power



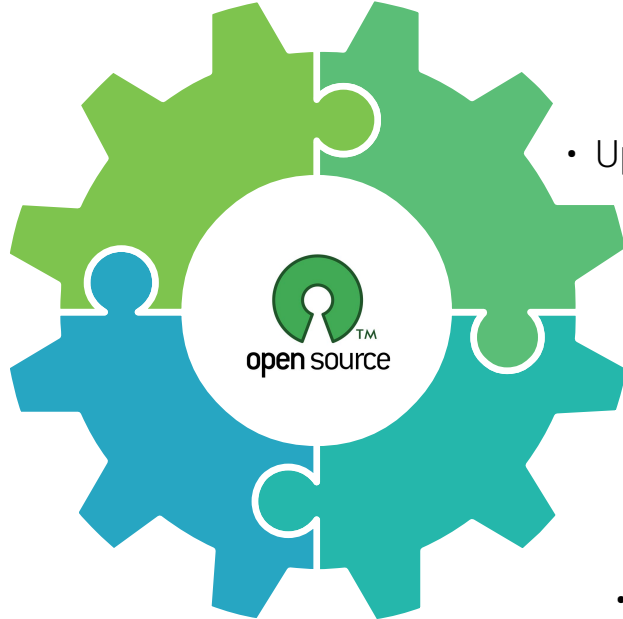
Source code ownership

- Source code ownership
- Integration with commercial software solutions



Cost effectiveness

- No license fee
- No vendor lock-in
- Shared maintenance costs



Flexibility and Agility

- Continuous development
- Up to date with new technologies
- Ability to customize and fix



Security

- Robust software and libraries
 - Transparency
 - Community effort
- Open Innovation mitigates risk



Kitware / Services



TRAINING



SUPPORT



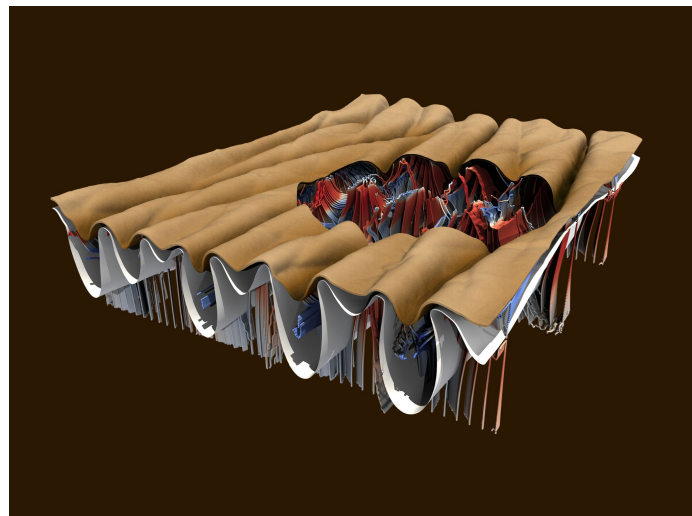
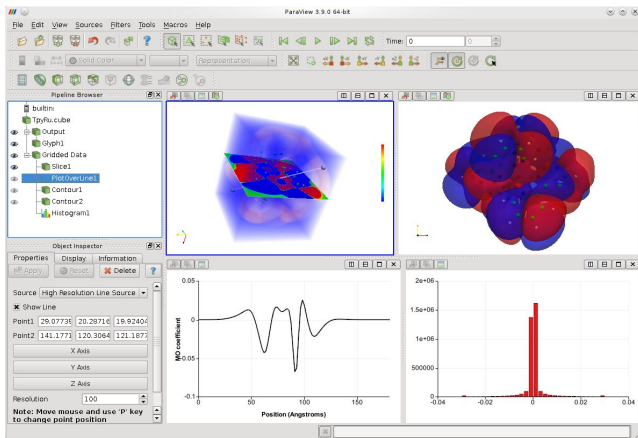
DEVELOPMENT



GRANT
COLLABORATION

ParaView / High-Performance Post-Processing (2002)

- Open-source, multi-platform, data analysis and visualization application
- Analysis of extremely large datasets using distributed memory computing resources



Features / Application Domains



Fluid
Dynamic

Structural
Analysis



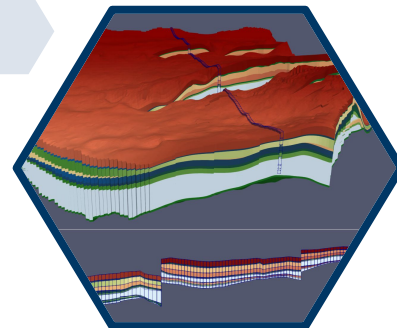
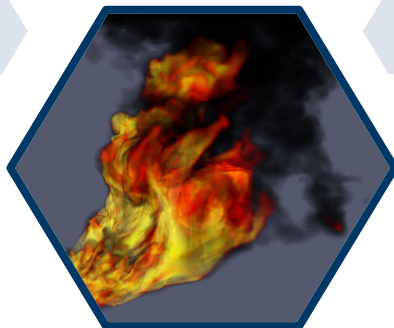
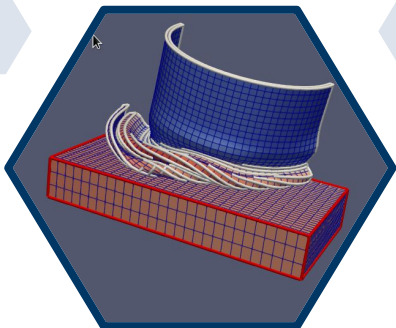
Medical

Particles



Astrophysic

Geoscience



Physically Based Rendering



ParaView Demo: Guided waves

- **Rescale** to data range over time
- **Warp** by scalar
- **Clip**
- **Select** points
- **Plot** selection over time
- **Export** to image

ParaView Demo: Blow moulding

- **Warp** by vector
- 3D **Glyph**
- Export animation
- Save/Load state

In summary

Use ParaView to explore your VMAP datasets !

- Handle large datasets in 3D interactively
- Script with Python
- Generate 3D renderings and plots
- **Free and Open source** software!

VMAP ParaView plugin is available in the software package

Thank you!

Contact: louis.gombert@kitware.com