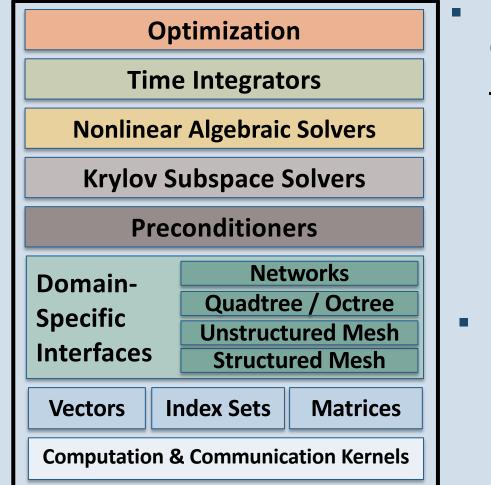
Portable, Extensible Toolkit for Scientific **Computation / Toolkit for Advanced**



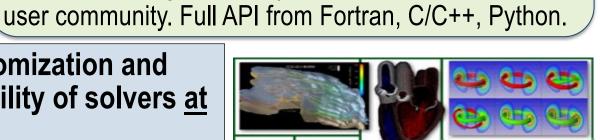
Easy customization and composability of solvers at runtime

- Enables optimality via flexible combinations of physics, algorithmics, architectures
- Try new algorithms by composing new/existing algorithms (multilevel, domain decomposition, splitting, etc.)

Portability & performance

- Largest DOE machines, also clusters, laptops; NVIDIA, AMD, and Intel GPUs
- Thousands of users worldwide

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PETSc provides the backbone of diverse scientific applications. clockwise from upper left: hydrology, cardiology, fusion, multiphase steel, relativistic matter, ice sheet modeling



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Scalable algebraic solvers for PDEs. Encapsulate parallelism in high-level objects. Active & supported