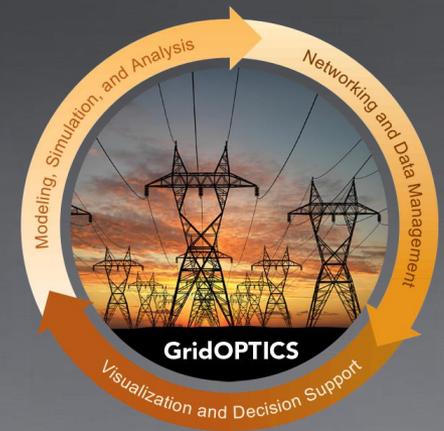




Pacific Northwest
NATIONAL LABORATORY

Proudly Operated by **Battelle** Since 1965

4th Workshop on Next-Generation Analytics
for the Future Power Grid
Richland, WA
September 2-3, 2015



Forming a Consortium for Grid Analytics



4th GridOPTICS™ Workshop Organizing Committee

- ▶ Henry Huang, PNNL (chair)
- ▶ Mihai Anitescu, ANL
- ▶ John Grosh, LLNL
- ▶ Tom King, ORNL
- ▶ Ben Kroposki/Bryan Palmintier, NREL
- ▶ Jean-Paul Watson, SNL
- ▶ Jonathan Woodring, LANL

- ▶ Committee Responsibility
 - Determine the structure and agenda of the workshop.
 - Invite speakers to support the workshop agenda.
 - Ensure the quality of the workshop report.

GridOPTICS™ workshops bring together researchers, vendors, and practitioners

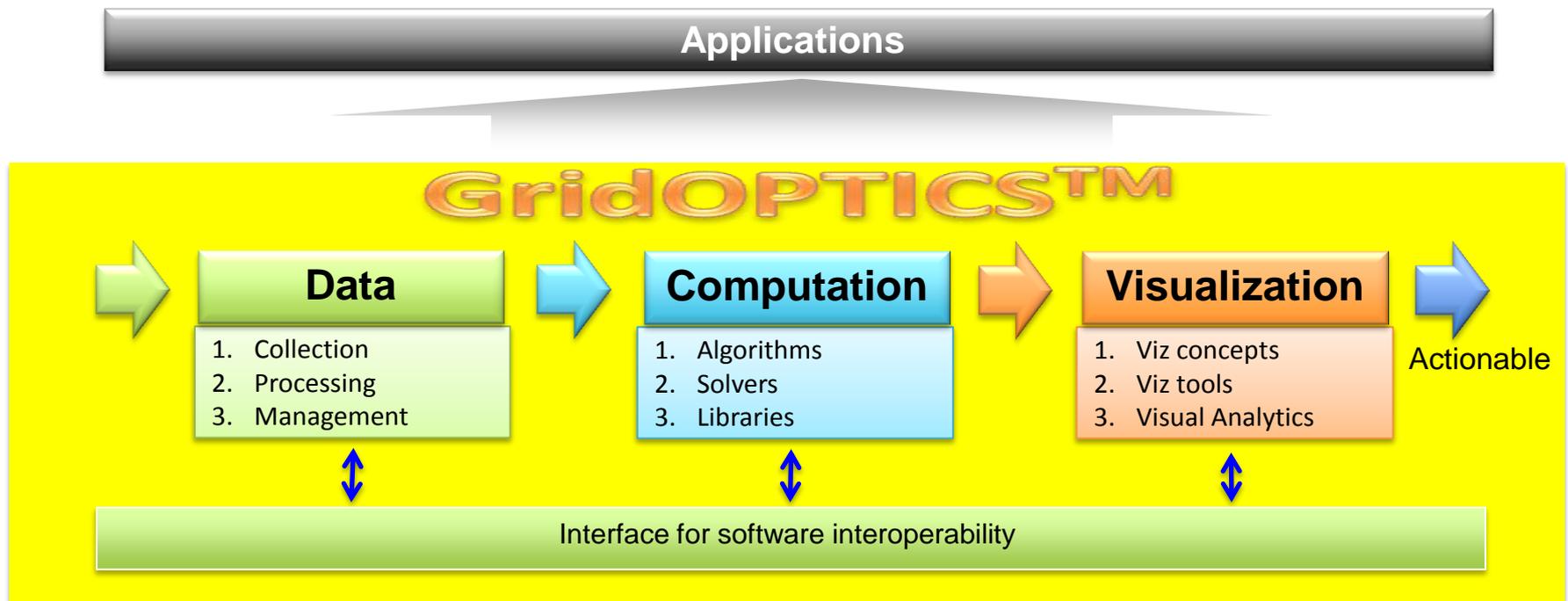
▶ Theme (progression)

- 1st workshop, 2012, Seattle, WA: Identify challenges
- 2nd workshop, 2013, Seattle, WA: Frame vision
- 3rd workshop, 2014, Richland, WA: Develop use cases
- 4th workshop, 2015, Richland, WA (this one): Find solutions
 - Time: Weds.-Thurs., Sept 2-3, 2015
 - Location: Richland, WA

▶ Expected Outcomes of the 4th workshop

- Disseminate latest analytical **advancements** on data, computing, and visualization for power grid applications.
- Find **solutions** to challenge problems in grid analytics with an accepted, grid-specific computing architecture.
- Form a **consortium** to sustain the community for power grid analytics including data, computing, and visualization.

- ▶ A suite of methodologies & software modules designed to:
 - Accelerate the development and adoption of new **analytical tools** for the power grid facing new **complexity**, **stochasticity**, and **dynamics**, through **open-source software** and **interoperability**.



GridOPTICS™ Consortium

- ▶ Start with a group of core national labs
- ▶ Engage industry stakeholders as advisors
- ▶ Expand to include other research organizations over the next five years.

- ▶ Initial tasks for the Consortium
 - Host annual GridOPTICS™ workshops
 - Develop a roadmap for grid analytics
 - Define common interfaces for software interoperability.



Questions?



Pacific Northwest
NATIONAL LABORATORY

*Proudly Operated by **Battelle** Since 1965*