

## Where We are Now

- Primary available software
  - —Agreed on list with vendor to have a base set of continuity
  - —Specific widely used tools to augment vendor supplied software
- Facility supported software list is dynamic based on user needs
- Data driven
  - —User base is more than DOE community
  - —We do not officially adopt every project's needs
  - —Adopt when there is a broad need for the software, and we have the expertise to deploy it (frameworks, visualization, debugger)
  - —Staff might assist a project in software specifically for their project
- Most projects bring their ecosystem with them



## **Benefits/Opportunities**

- Improve commonality across computing facilities
  - —Build a skeleton of a shared ecosystem
- Faster time to science
  - —Easier user engagement and adoption
  - —In worse case, could some teams adopt what they need if sustainability fails?
- Help define an effective deployable, supported eco-system for HPC



## Risks/Challenges

- Support level agreements with HPC facilities for deployed software
- Migration for users when products are retired
  - Opportunity cost for projects investing in software that might not be maintained
  - —Support level agreements with users
- Reduced to no buy-in from users or facilities due to lack of confidence
- We have a dynamic need from year to year. How does that fold into a model?
  - —Does ALCF need for a dynamic list from year to year due to mission undercut some of this? If so, how is that managed?



## **Some Open Questions**

- Can users select from a menu and install themselves?
- Can we agree on a service level that incorporates our needs on metrics?
  - —Can we have reliable support for a piece of software in a timely manner? During urgent campaigns? Etc
- What is expected out of the facilities if we have a set of supported software?
  - —Early access for porting? Access to test&development systems for new software drops. etc

