University of Alaska Fairbanks

- Virtual Machine Introspection and Development of a Model Federation Framework for GENI

- Project Team
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Spiral 2 Objectives

- Deploy VMI on-demand data acquisition at cluster scale.
  - API to allow measurement/instrumentation system to make data requests.
- Deployment Plan
  - Deploy and test in ASSERT Lab environment
  - Deploy and test on cluster nodes at UA
  - Deploy and test on cluster nodes at cluster scale

Challenges

- Need to understand data requirements in this environment
  - Some discussion on this already at GEC 6
- Integration with management/instrumentation layer tools
- Virtualization Layer compatibility
- Semantic Gap
  - Data → Information

Proposed Approach

- Requirements Gathering
  - Discuss with data consumers and management/instrumentation layer architects.

- Phased Deployment
  - ASSERT Lab → Cluster nodes at UA → Cluster nodes at cluster scale

- Virtualization Layer independence
  - VMI layer → Context Layer → API