THE UNIVERSITY OF UTAH
usignite
FutureGENI
Glenn Ricart
December 10, 2015

US Ignite Interests

1. We need a thriving FutureGENI for our Metropolitan Internets and applications.

2. We have an interest in governance and administration especially if FutureGENI incorporates big bandwidth / low latency / dynamic slicing.

A Thriving FutureGENI

New name
Additional research focus(es)

Thriving = Large and growing community

\+ Stable and adequate funding

Compelling new research
Good fit to funder's priorities

usignite

REAL: Time-Sensitive Distributed Systems

One such example of a FutureGENI!

New name: **REAL**
Additional research focus(es)
Time-sensitive distributed systems

Thriving = Large and growing community

\+ Stable and adequate funding

NSF priorities:

- **Smart and connected communities**
- **Cyberphysical systems**
- **IoT, Industrial Internet**
- **Big data**
- **Cross-directorate, cross-agency**

Compelling new research
Good fit to funder's priorities

usignite

FutureGENI Governance (Strawman)

FutureGENI Council and Administrative Office

- Council: 7 representative researchers, educators, users, CIOs
- Strategic direction, priorities, funding, training, demo nights, etc.
- Distributed Systems research and education NSF solicitation
- Administrative support including Executive Director - US Ignite or Internet2

FutureGENI Infrastructure Partners

- PIs of a Collaborative Proposal for FutureGENI Infrastructure
  - Software Development: e.g., one or more of Utah, RENCI, GRAM
  - Clearinghouse, IdP, Portal, other services
  - Federation with: NSFCLoud, CISE ACI, perhaps others
  - Network and Operations support: e.g., Internet2
  - Hardware refresh: e.g., US Ignite and its corporate partners
- Coordination by GENI Council and Administration Office

usignite

THE UNIVERSITY OF UTAH
usignite