

Forming a LEARN Research Advisory Council

Richard Ewing and Guy Almes

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Outline

- ★ LEARN, Cyberinfrastructure, and Texas
- ★ Objectives
- ★ The Research Advisory Council
- ★ Initial Activities

LEARN, Cyberinfrastructure, and Texas

- ★ Cyberinfrastructure is an increasingly critical enabler for university research and learning
 - high-performance computing
 - access to research data
 - support for collaborative research and learning
 - discipline-specific resources
- ★ Advanced networks are critical to tapping into all of this

- ★ HPC facilities now include sites with 10s of teraflops, and soon in the 100s of teraflops
- ★ Data collections
- ★ High-speed wide-area file systems
- ★ International collaborations such as Large Hadron Collider project in high-energy physics
- ★ Research network testbeds such as GENI
- ★ Streaming real-time data such as NASA EOS and NWS weather radars
- ★ Many scientific fields increasingly data-intensive

Objectives

- ★ Ensure that LEARN be appropriately driven by the need to enable/empower researchers at LEARN member institutions
- ★ Identify new LEARN applications that could transform how research is done at Texas universities and laboratories
- ★ Clarify to our constituencies why investment in LEARN is paying off
- ★ Increase confidence among researchers that LEARN is strategic for them

The Research Advisory Council

- ★ Appropriately sized team
- ★ Aware of LEARN's potential capabilities
- ★ Passionate for enabling science and enabling researchers
- ★ Articulate, but critical, advocates for the Texas research constituencies
- ★ To be recruited and convened in October

Possible Initial Activities

- ★ Canvas researchers asking, e.g., what could a 720-Gb/s network do that would transform how you do research?
- ★ Plan a major Research Advisory Council session at the December LEARN retreat.
- ★ Study synergies between, e.g., LEARN and HiPCAT/TIGRE

