



# Developing and Funding Cyberinfrastructure

## Panel Discussion

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USC



# Overview

- How we got here
- Cyberinfrastructure at Penn State
- Positioning for the future



# Timeline

- Computation Center
  - ~1960-1988
  - For ~20 years, reported to the Sr. Vice President for Research
  - Renamed and redefined as Academic Computing ~1988



# Timeline (continued)

- Center for Academic Computing
  - 1988-2000
  - Support for Research embedded, but not on center stage
  - While being moved from the center, investments were being made to centrally support research at the NSF Supercomputer Centers



# Timeline (continued)

- Graduate Education and Research Services
  - 1997-Today
  - Incremental investments continued
  - Funded at 15 staff and a Director
  - Traditionally focused on HPC, Viz, storage, applications support, training



# Timeline (continued)

- Outside of central IT
  - Applied Research Laboratory
  - Computer Science and Engineering
  - Earth Systems Science Center
  - Information Sciences and Technology
  - Institute for Computational Sciences
  - Population Research Institute
  - Materials Research Institute



# Who's paying?

- Central IT
- Dean's for their specific college
- Department heads for their departments
- Dean's for Institutes
- Vice President for Research for Institutes
- The faculty
- Indirectly, the funding agencies



# Who's steering?

- Central IT tries
  - Honeypot mentality for resource acquisition
    - condo, co-lo for comp and viz
  - Stimulate coordination with dollars, skills, space, electricity
- Strong vectors opposing coordination
  - the academy's organization and culture
  - misunderstood role and stresses upon campus cyberinfrastructure by agencies



# Looking ahead

- Another round of central IT investment
- Campus coordination, integration, investment
- Dean's, Associate Deans for Research
- Vice President of Research
- Provost, Executive Vice President
- Always understand how to serve the faculty for ourselves