Promise and Barriers in the Campus Environment to Innovative Research

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Barriers or Keys
to Innovative Research

- **Overcoming the Impedance Mismatch:** Between those who define scientific research more narrowly, and more broadly
  - Engagement and collaboration remain the key
  - “Just go away and make it work”: means it won’t work

- **Strategic Role of the Enablers:** Empowering the faculty to meet multiple demands, and engage in what matters most
  - To compete successfully
  - To improve the position in a field or as a university as a whole; which has non-linear benefits

- **Barriers to Innovation:** Misconceptions Q&A
  - The faculty is already doing well; they don’t need more help. [Help]
  - We’ve done well so far: why worry? [Worry]
  - We need to be sure they pay their way from grants; after all it’s a zero sum game [It isn’t]
Barriers or Keys
Specific to Cyberinfrastructure

- The conventional problems:
  - Out of date infrastructure; Out of date strategy
  - Lack of understanding of the new role of CI

- Innovation, Problem Solving and Progress:
  - Who Owns this Problem? Where is the architect?
    - *Is there an architect?*
      - [Or - Can the scientists and engineers “spontaneously” collaborate to close the gap?]
  - Where is he in the organization? Where does he belong?
  - Where to find them? Where to train them?

- Do we need to recognize these scientists and/or engineers as a key class for our success, recognized by their “peers”?

- Persistence: The time-dependence of problems; matched by the mission-orientation of (some) scientists