Research Update

Provost’s Forum
Grant McGimpsey
Outline

• What are Our Carnegie Numbers?
• What are our Carnegie Data Sets?
• What are our Carnegie Goals?
• How do we meet this goal?
• Investments and Actions
• Logistics
What are Our Carnegie Numbers?

- FY18 Research Expenditures: $103M
  - Internal: $32M; External $71M
  - FY17 ($102M), FY16 ($70M)
- FY18 Post Doctorals: 50
- FY18 Ph.D.'s awarded: 73
  - Humanities: 3
  - Social Sciences: 4
  - STEM: 29
  - Other (e.g., education – not Ed.D.): 37
- FY18 Non-Ph.D. (may be counted in next Carnegie round): 60
  - Includes DPT, DNP DA, Ed.D.
What are our Carnegie Data Sets?

• External Research expenditures
  – (Science/Engineering, Non-Science/Engineering)
  – Analyzed each fall for previous fiscal and reported to the NSF Higher Education Research and Development (HERD) Survey in January

• Internal Research expenditures
  – (Science/Engineering, Non-Science/Engineering)
  – Combined with external expenditures and reported to HERD

• Post-Doctorals on staff
  – Measured once each fall and reported for the entire year to the NSF-NIH Survey of Graduate Students and Post Doctorals

• Ph.D. and Doctoral degrees
  – Humanities, Social Sciences, STEM, Other Ph.D., and Other Doctoral
  – Summed for the fiscal year and reported to IPEDS in the fall
What are our Carnegie Goals?

• Raise level of research/scholarly/creative productivity to be consistent with Carnegie R1 universities.

• Metrics include funding, post doctorals, Ph.D.'s awarded
  – Raise total annual research expenditures to **$120M**
  – Raise Post Doctorals to **80**
  – Raise Ph.D.s awarded - STEM Ph.D.s to **60**
How do we meet this goal?

• UND must invest in boosting research productivity and use **reliable data** to support university research investment decisions.

• What kind of data is important: **Investment and Return on Investment**
  – Internal funds invested in order to support research/scholarship (reported on HERD survey)
    • Faculty Page 2 research effort: ~$22M salary/benefits
    • Ph.D. stipends and tuition waivers (GA's): ~$2.7M
    • Unreimbursed effort on grants: ~$3M
    • Re-investment of F&A into research: ~$1.8M
    • Seed funding/Computational research infrastructure: ~$1.5M
  – Return on investments (Measured by Novelution, Digital Measures)
    • External grant funding received (how well does this align with funds spent?)
    • Products of research and scholarship (discipline specific – journal articles, conference proceedings, books, book chapters, reviews, performances, exhibitions, patents, licenses)
    • Ph.D./doctoral degrees awarded
Investments and Actions

- We will continue investing in Grand Challenges to Drive More External Funding and to Integrate them into the fabric of the university. Grand Challenge Seed Funding Programs include:
  - Energy and Environmental Sustainability – White Paper grants, development grants
  - Rural Health and Communities – Small grants for proposal development
  - Health – Matching grants with SMHS for development of R01 proposals
  - UAS – Development grants, Rapid Response Team
- The third round of the Post-Doctoral Pilot Program closes on November 15th.
  - 20x2-year post docs supported through 2 rounds by VPRED and Colleges
  - Round 3 closes next week. An additional 10 post docs to be funded
- Early Career Award Program Closes on November 15th.
  - 10x1-year grants made
- We will continue investing in Computational Infrastructure Improvement and Faculty Cluster Recruitment
  - $1.5M in infrastructure
  - Computational Research Faculty Cluster to be recruited - $3M commitment annually
- We will continue working with our federal congressional delegation
  - FY19 approved legislation provides for ~$4M in UAS research funding
- We will continue working with our state legislative and business stakeholders
  - President Kennedy teaming with President Bresciani in proposing 25M per year per institution in research funding
Logistics

- Office of the Vice President for Research and Economic Development has moved to the Technology Accelerator
  - Pre-award will be expanded over time to include proposal development staff
  - IRB, IACUC, IBC (compliance staff)
  - Corporate Engagement
  - EPSCoR
- Financial Post Award has moved under the Office of the VPFO/COO (Jed Shivers) (currently still in Twamley first floor offices)