

2016 DSI Winter Symposium



Office of Research, Innovation, and Economic Development
February 5, 2016



Dr. Alan Rebar

Vice Chancellor

Chronology:

- **DVM – Purdue** **1973**
- **PhD – Purdue** **1975**
- **Mixed Veterinary Practice – Gainesville, FL** **1973**
- **Experimental Toxicologic Pathologist – Lovelace Inhalation Toxicology Research Institute** **1976-1978**
- **Purdue University Faculty** **1978-2015**
 - **Associate Dean for Research** **1988-1995**
 - **Department Head** **1993-1995**
 - **Dean** **1995-2004**
 - **Senior Associate VPR and Executive Director, Discovery Park** **2005-2015**



Dr. Alan Rebar

Vice Chancellor

Specialization and Research:

- **Board Certified Veterinary Clinical Pathologist**
 - **Hematology**
 - **Clinical Chemistry**
 - **Cytopathology**
- **Research Emphasis**
 - **Hematopathology**
 - **Inhalation Toxicologic Pathology**

Office of Research, Innovation, and Economic Development

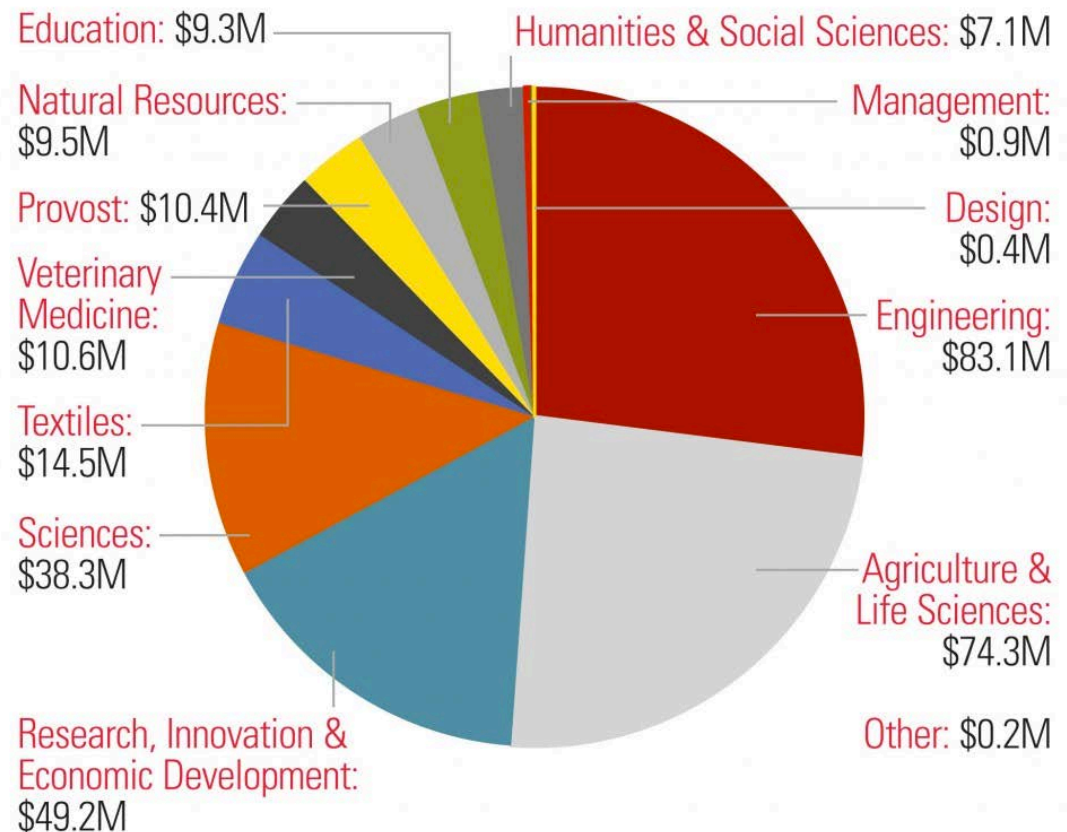
- Research Development
- Research Administration
Sponsored Programs and Regulatory Compliance (SPARCS)
- Technology Transfer
- Research Federal Affairs
- Partnerships and Alliances





Sponsored Research

Awards by NC State Unit, FY2014-15



Total Sponsored Awards: \$307.7M



Innovation

- **1st in licenses and options executed (among all public universities without a medical school)**
- **5th in startups launched**
- **6th in license revenue**
- **6th in invention disclosures**
- **7th in patents issued**
- **9th in patents filed**

2015 Association for University Technology Managers (AUTM)



Economic Development

- *“Our public universities provide a staggering impact to the local and state economies and are primary drivers of growth across North Carolina” - NC State Chancellor Randy Woodson*
- During the 2012-13 fiscal year, NC State and its various enterprises created \$6.5 billion in added income to the North Carolina economy
- A significant portion — about \$1.6 billion — comes from NC State research spending and startup activities

Focus on Interdisciplinary Research

- Research Infrastructure
- Faculty Development and Support
- Research Incentives



Game-Changing Research Initiative Program (GRIP)

- Funded by
 - ORIED
 - RTI International
 - Kenan Institute
- Large seed grant program – up to \$500K per project
- Support up to 4 new projects
- Lead to larger, sustaining research and training grants
- Target research areas where NC State has potential to be a national/world leader
- Leverage the diversity, strength and expertise of existing scholars, centers, and programs of the NC State research community and beyond



Research Strategic Focus Areas



Health &
Well-Being



Energy &
Environment



Educational
Innovation



Safety &
Security

Cross-cutting initiatives:

- Advanced Computing & Networking
- Advanced Materials & Manufacturing
- Data Science & Analytics
- Evaluation, Policy & Leadership
- Innovation & Entrepreneurial Networking

**Societal
& Economic
Benefit**