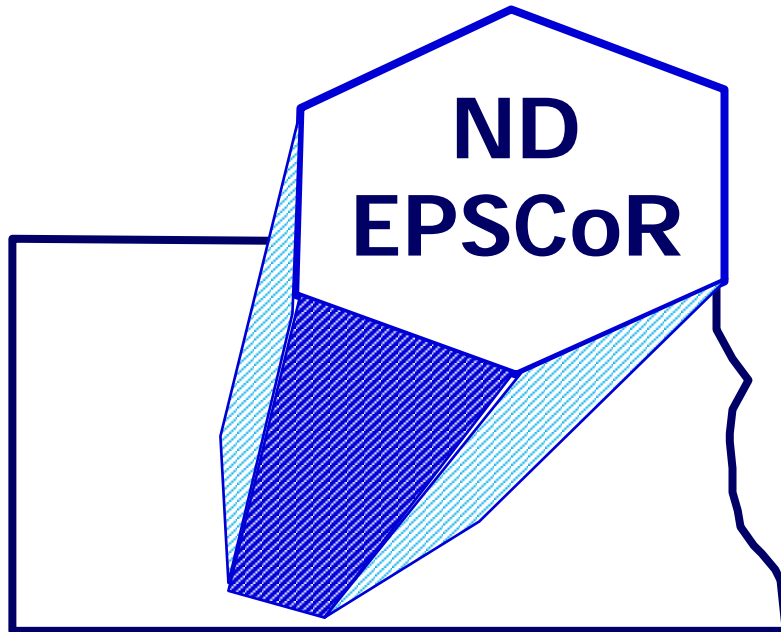


# 2006 ND EPSCoR State Conference

## ND EPSCoR – Progress through Programs



**Advancing  
Science  
Excellence in  
North  
Dakota**

**Dr. Philip Boudjouk**

**Vice President for Research, Creative Activities & Technology Transfer  
North Dakota State University**

# Reasons for EPSCoR

- Concentration of Federal R&D funds in a few coastal states postured to capitalize on dramatic post-WW II growth in academic research
- Most states missing the ultimate payoff from R & D \$: **Economic Development!**

# The EPSCoR Promise

*Diversify the nation's scientific enterprise to ensure that citizens in all parts of the country benefit from an active and competitive R&D base.*

## Benefits:

- Access to high-quality higher education
- Front-line research
- Expanded economic opportunities
- Improved quality of life

# Progress through EPSCoR – *an Overview*

- Greatly improved research infrastructure
- Increased productivity: publications, patents
- Increased national stature
- Increase competitiveness for grants/contracts
- Greater involvement with the private sector

# Impact of ND EPSCoR

- Program established in 1980; funded in 1986
- Since 1986, ND invested \$24.3M in EPSCoR; ROI (cash) is \$169M in merit-based awards to EPSCoR PIs
- ND now ranked 7th for University R&D/\$1,000GSP
- ND EPSCoR has facilitated hiring > 140 researchers to ND
- 18 EPSCoR PIs are NSF CAREER awardees

# Impact of ND EPSCoR

- Over **865 graduate students** and over **1,105 undergraduates** have received research education through ND EPSCoR
- ND EPSCoR's programs have supported faculty and students in **ALL** of the NDUS institutions and the tribal colleges
- Over 230 students and 13 faculty members have worked on solving technology problems for 81 companies across the state
- 20 patents have been issued for EPSCoR-supported research discoveries and inventions

# EPSCoR's Strategy is Consistent with the Roundtable on Higher Education

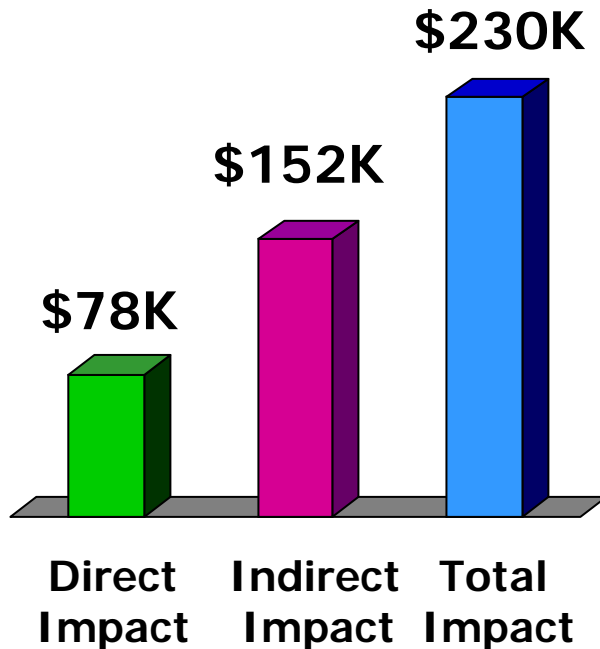
## *Cornerstone 1:*

### *The Economic Development Connection*

- “The research foundation on which entrepreneurial activity will necessarily be based must be expanded...”
- “To this end, the state should maximize the opportunities of EPSCoR funding available through Congress to assist in developing research and technology infrastructure”

# University Research as Economic Development

## Impact of Typical \$100K Research Grant



- Over **\$169M** in new funds since 1986
- Over **\$388M** total impact on ND economy

Source: F. Larry Leistritz, Ph.D.,  
NDSU Dept. of Agribusiness & Applied Economics, 2000

# Assessment

- ND *per capita* statistics are **VERY** impressive
- The universities are having significant economic impact via new income to ND
- There is more work to do → the broader impact, i.e., improving economic opportunities for our stakeholders, the citizens of North Dakota