Doubling Research at IUPUI: Can It Be Done?

Charles R. Bantz
IU Research Symposium
April 13, 2004
The Call to Double
IUPUI’s Achievements

- Challenges
- Opportunities
- Assets
- Commitment
Challenges
- Brain Drain
- Job Losses
Opportunities

Economic Development Foci:
- life sciences
- information technology
- logistics
- advanced manufacturing
- nonprofit enterprises
Assets

- Public
- Private
- Partnerships
- IUPUI
Fort Wayne Journal Gazette

March 7, 2004

“Cartilage regeneration looks like growth industry”

School of Science
“Discovering the Secrets of Regeneration” ($1.7m)

School of Medicine
“Gene Therapy for Joint Damage” ($2m)
Private Assets:

**Lilly Endowment**

- Pervasive Computing
- Indiana Genomics Initiative
- IUPUI Solution Center
- Center on Philanthropy
- Center on Urban Policy and the Environment
Partnership Assets:
Indiana Future Fund
$72 million
Partnership Assets:

Facilities Construction

$1 billion in life sciences related construction has been completed downtown since 1995
Partnership Assets:
Research and Biotech Park at Canal Station
Partnership Assets:
Information Sciences  

Current View

EXISTING VIEW FROM 10TH STREET BRIDGE

Proposed View

Proposed View
Partnership Assets:
Indiana Venture Center

Steve Beck, President
“Usually, increasing exports is good economic news. But as Indiana’s economy has stalled, we’ve been shipping all the wrong resources out of state – college graduates, for example.”

Todd Saxton, Faculty Fellow
Assistant Professor of Management
IU Kelley School of Business at IUPUI
Partnership Assets: Biotechnology Research and Training Center

Mayor Bart Peterson: "From our world-class companies to our outstanding universities and our groundbreaking research projects, Indianapolis is poised to become an international leader in life sciences."
Mayor Bart Peterson: “The success of companies assisted by the ETC will mean new jobs and new economic opportunities for our citizens.”
Gus Watanabe: "What we'd like to do is build on and leverage the strengths that are already here as well as the universities, and begin to stimulate activity in new companies."
Partnership Assets:
Indiana Health Information Exchange

Thomas Inui, CEO, Regenstrief Institute:
"There's a critical need for effective information-sharing that might affect a physician's treatment decisions. Indiana can be a pioneer in this area. Software sales and services is clearly an industry that’s about to explode."
IUPUI Assets: Infrastructure

- INGEN: 5 Programs and 9 research cores
- School of Informatics
- Regenstrief Institute Medical Records System
- Stark Neurosciences Institute facilities for noninvasive biomedical imaging.
IUPUI Assets:

Research Income at IUPUI

<table>
<thead>
<tr>
<th>Year</th>
<th>Research Income</th>
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<tr>
<td>1997-98</td>
<td>$150</td>
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<tr>
<td>1998-99</td>
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<td>2001-02</td>
<td>$250</td>
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<td>2002-03</td>
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IUPUI Assets:
Sources of Sponsored Funding
FY 2003

- Federal: 48%
- Non-profit: 9%
- Foundations: 23%
- Commercial: 11%
- Higher Edu.: 3%
- State of IN: 5%
- Other Gov.: 1%
IUPUI Assets:
IUPUI Proposals and Awards
FY 92 - 03

Proposals

Awards
IUPUI Assets:

Cross-Disciplinary Research

- Neural auditory prostheses
- Cochlear implants
- Auditory brainstem implants.

Bioelectrical Engineering
Mario Svirsky
Sponsor, NIH
IUPUI Assets: Cross-Disciplinary Research

Imaging instruments to study human physiology

Biomedical Imaging: Gary Hutchins, Evan Morris, Ti Lie, and Yun Liang

Sponsors: NIH, Whitaker Foundation, 21st Century Fund, INGEN Center
IUPUI Assets:

Major New Centers/Institutes to Advance Scholarship

Institute for American Thought
Lake Family Institute on Faith and Giving
Center for International and Comparative Law
IUPUI Assets:

Cross-Disciplinary Research

PDA Device for Music Therapists

Collaborators

- Music
- Health and Rehabilitation Sciences
- Informatics
- CyberLearning Lab
- Computer Technology
- Digital Music Library (IUB)
Ideas from the Task Force on Doubling Research at IUPUI

- Retain productive faculty
- Establish research professoriate
- Hire promising investigators
- Raise tenure threshold
- Deploy startup packages, bridge funds, targeted funds (e.g. interdisciplinary research)
- Create institutes to bring faculty together across disciplines
- Reward faculty mentoring
- Space, space, space
IUPUI’S Commitment

Double the ideas

Double the energy

Double the jobs