

*Helping Indiana Build a  
21<sup>st</sup> Century High  
Technology Economy*

David R. McKinnis, Director





# Technical Assistance Program

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## *Tap Mission*

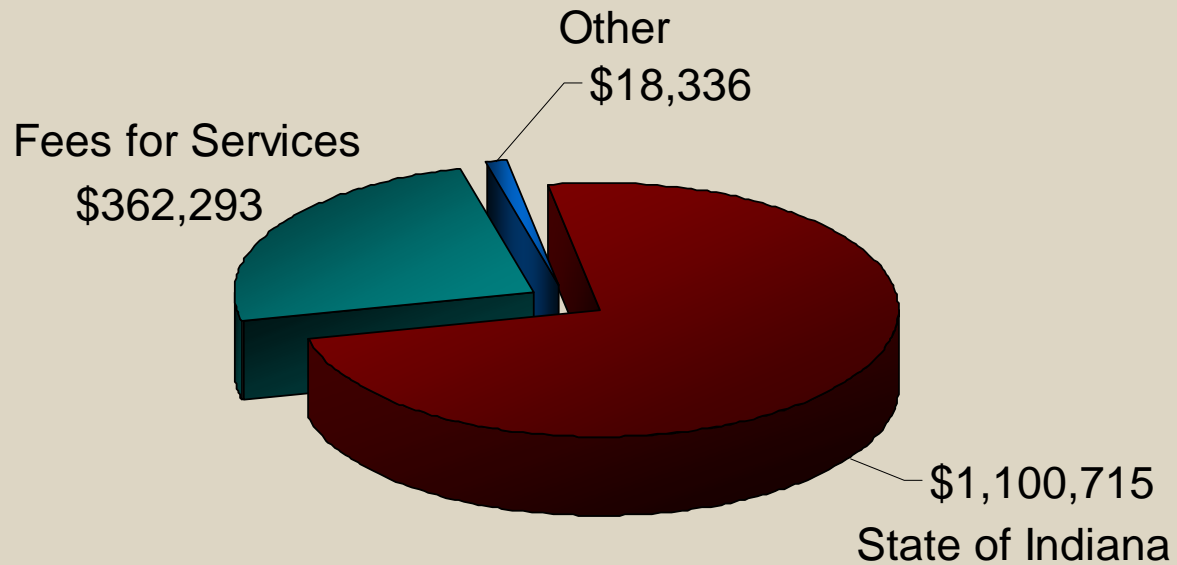
To strengthen the Indiana economy  
and improve the quality of life for all  
Indiana citizens.

# Technical Assistance Program

- Established 1986
- Engages 200 faculty/staff/students with 400 companies per year
- Economic impact is significant
- Member of the Purdue Engagement Team
- Supports manufacturing, life science, and information technology sectors

# Technical Assistance Program

## *TAP Funding Sources 2003-04*



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Total \$1,481,344



# Technical Assistance Program

## *TAP Activity in Elkhart County*

<b>TAP Activities</b>	<b>Elkhart County</b>
Assistance Projects	260
Summer Interns Placed	65
High Tech Job Fair (companies attending)	8
<b>TAP Economic Impact</b> (as reported by companies)	
Capital Investments	\$1,090,000
Cost Savings	\$482,000
Increased Sales	\$886,000
Jobs Added	18
Jobs Saved	38

*1986 through June 2004*

# Technical Assistance Program

## *Program Services*

- Assistance Projects – up to 5 days free
- Summer Interns
- High Tech Job Fair
- Technical Information Service (TIS)

# Technical Assistance Program

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## *2004 TAP Assistance Project*



**Naval Surface Warfare Center, Crane Division**

Professor Dayananda, MET and Eric Scheid, NSWC

## *Naval Surface Warfare Center 2004 Project*

### **Projects:**

- Microstructure analyses of aluminum parts.

### **Purdue Participants:**

- Mysore Dayananda, professor of materials engineering and Zeynep Kasapoglu, graduate assistant

### **Results:**

- \$25,000 in production savings

# Technical Assistance Program

## *2003 TAP Assistance Project*



**R & S Welding and Fabricating, *Winamac***

Prof. Mileta Tomovic (MET), Bob Rosenbaum (R&S)

# Technical Assistance Program

## *R & S Welding and Fabricating Project 2003*

### **Project:**

- Welding fixture design

### **Purdue Participants:**

- Mileta Tomovic, professor of Mechanical Engineering Technology

### **Results:**

- Increase in sales of \$150,000

# Technical Assistance Program

## *2003 TAP Assistance Project*



**Suros Surgical Systems, Indianapolis**

Dave McKinnis (TAP) and Rich Rella (Suros)

## *Suros Surgical Project 2003*

### **Projects:**

- Develop flow processing

### **Purdue Participants:**

- Jack Posey and Pornthep Anussornnitisarn of the TAP industrial engineering group

### **Results:**

- Capacity doubled to 5,000 units per month
- Cost savings of \$250,000 per year

# Technical Assistance Program

## *2003 TAP Assistance Project*



**Griffin Analytical Technologies, West Lafayette**

Dennis Barket (Griffin), Prof. Charlene Sullivan (MGMT) and Dylan Zhou (Graduate Assistant)

## *Griffin Analytical Project 2003*

*Develops Miniaturized Mass Spectrometers*

### **Project:**

- Determine the value of the company's technology

### **Purdue Participants:**

- Prof. Charlene Sullivan, management and Dylan Zhou, graduate assistant

### **Results:**

- \$2.2 million in new investments for the company

# Technical Assistance Program

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## *2004 TAP Assistance Project*



**Pratt Corporation, Indianapolis**

## *Pratt Corporation Project 2004*

*Manufactures banner, pennants, flags, etc.*

### **Project:**

- Consolidation plans, layout development and production management

### **Purdue Participants:**

- Prof. Mark Lawley, industrial engineering and Aman Sapra, graduate assistant

### **Results:**

- \$200,000 in cost savings for the company

# Technical Assistance Program

## *2004 TAP Assistance Project*



**Indiana Fish and Wildlife, *Avoca***

Craig Johnson (STAT), Robert Ball (IF&W)

## *Indiana Fish and Wildlife Project 2004*

*Protection, Care & Management of Wild Animal Populations*

### **Project:**

- Analysis of survey data

### **Purdue Participants:**

- Regina Becker, manager of Statistical Center, Kyle Harrison and Craig Johnson, graduate assistants

### **Results:**

- Cost savings of \$115,000

## *TAP Technical Consulting*

### Costs:

- Up to five days free for qualified projects

### Confidentiality:

- No information released without permission

### Availability:

- Most projects begin within 2 weeks

### Intellectual Property:

- TAP does not develop IP
- IP development & ownership is defined in research contracts with sponsors

## *Connections with Purdue Students*

- Summer Interns
- Co-op's
- Class Projects
- High Tech Job Fair

# Technical Assistance Program

## *2004 Summer Interns*



**Hill's Pet Nutrition, Richmond**

Tiffany Spann (*EET*) and Zoe Bassey (*ME*)

# Technical Assistance Program

## *2004 Summer Interns*



**Lawson-Fisher Associates P.C., South Bend**

Kim Boner, (CE) and Scott Richmond (CE)

# Technical Assistance Program

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## *2004 Summer Intern*



**Aircom Manufacturing, Indianapolis**

Prof. Ed Sullivan (left) and Daniel Parrott, CIT-IUPUI;  
Jon Hall, Aircom (right)

# Technical Assistance Program

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## *Co-op Program 2003*



*AE Staley – North, Lafayette*

Mike Brunelle (ChmE)

# Technical Assistance Program

## *Class Project*



# Technical Assistance Program

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## *2003 High Tech Job Fair*



**Anthem Blue Cross Blue Shield, Indianapolis**

*for Indiana Companies*

# Technical Assistance Program

## *Job Fair Success Story*



**Best Access Systems, Indianapolis**

*Tyler Back (MET)*

## *Information Competitiveness*

- Technology Alerts
- Information Searching
- Document delivery via Web

# Technical Assistance Program

*The leading resource for technical information?*



“...when the topic turns technical, the unquestioned leader is Purdue University’s Technical Information Service (TIS).”

Biz Voice Jan/Feb 2004

# Technical Assistance Program

## *Participants in TAP & TIS – FY 04*

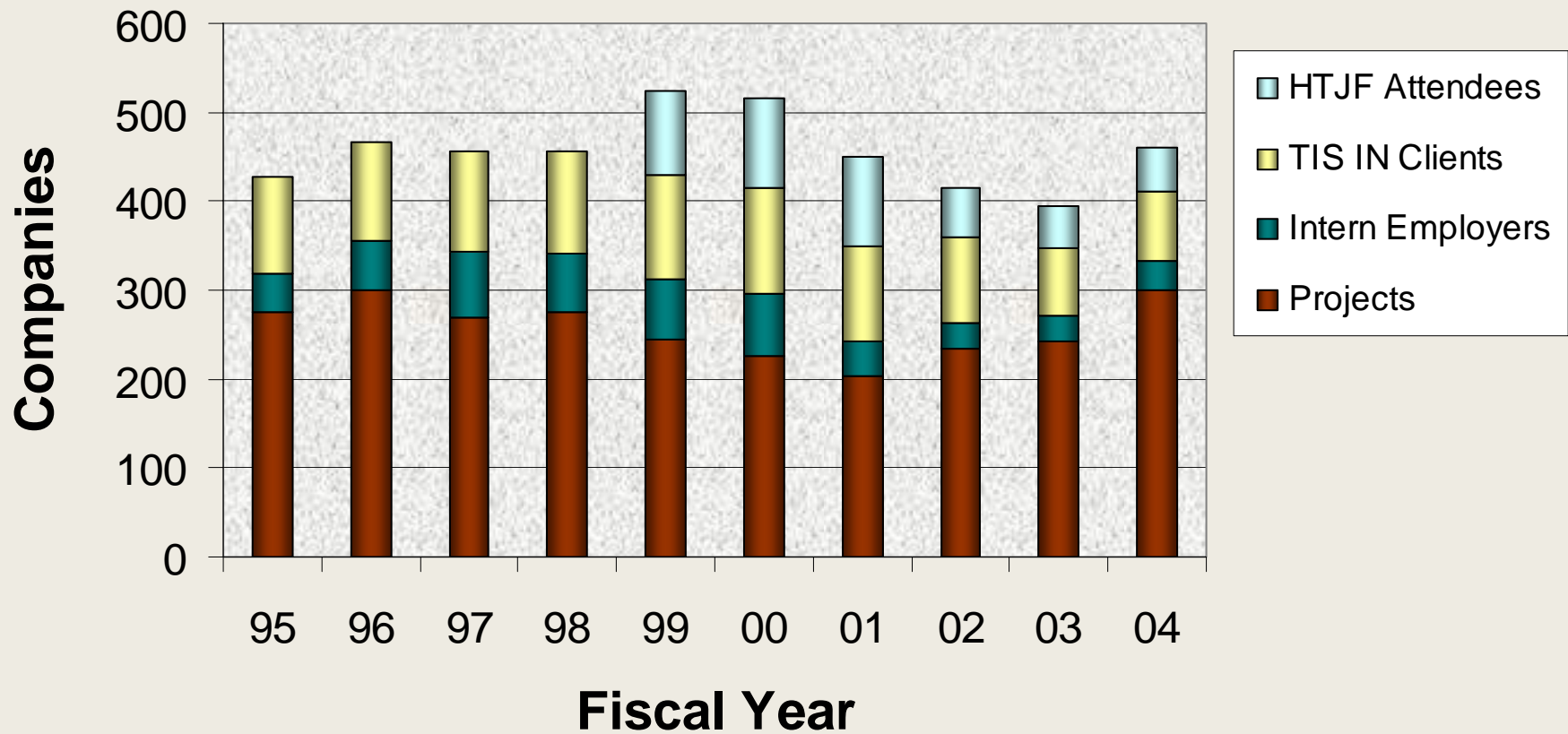
	<b>Engr</b>	<b>Mgmt</b>	<b>Sci</b>	<b>Tech</b>	<b>Ag</b>	<b>Other</b>	<b>*</b>
<b>TAP</b>							
Faculty	20	1	3	15	2	0	7
Grads	19	6	4	7	0	2	0
Undergrads	48	8	3	25	0	1	2
Staff	1	1	8	1	1	10	0
<b>TIS</b>						<b>20</b>	
<b>Total</b>	<b>88</b>	<b>16</b>	<b>18</b>	<b>48</b>	<b>3</b>	<b>33</b>	<b>9</b>

**Grand Total = 215**

\*Other Campuses

# Technical Assistance Program

## *Companies Served by TAP/TIS*

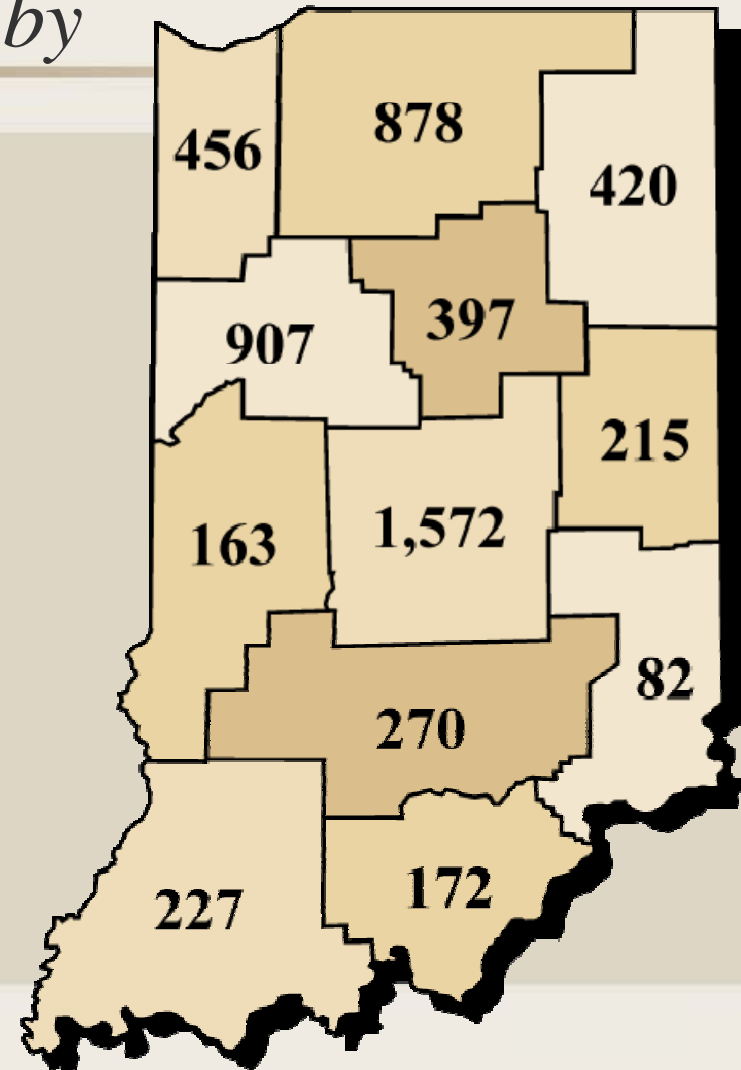


# Technical Assistance Program

## *Assistance Projects by Region*

May 1986 through  
June 2004

**Total Projects: 5,759**



# Technical Assistance Program

## *Savings and Investments \**

Capital Investments	\$63 M
Cost Savings	\$29 M
Increased Sales	\$297 M

## *Employment \**

Jobs Added	1,556
Jobs Saved	2,560

# Technical Assistance Program

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