



An Assessment of Technology Innovation and Commercialization of Northeast Indiana Region: Opportunities and Capacities

December 2, 2011

Max Yen, Dean, College of ETCS
Paul I. Lin, Professor of ECET
Sean Ryan, Director of University Engagement
Steve Frank, Director of Programs, NIIC
Scott Naltner, Executive Vice President, North East Indiana
Economic Development Alliance



INDIANA UNIVERSITY-PURDUE UNIVERSITY FORT WAYNE

Topics of Discussion

- ITTTES and GATTE
- Challenges of Technology Innovation and Commercialization
- Technology-based Companies: Northeast Indiana/Fort Wayne
- The Alliance Projects, Fort Wayne-Allen County Economic Development Alliance
- University R&D as External Sources of Corporate' Advanced Technology Development
- Indiana University-Purdue University Fort Wane: Northeast Indiana University Engagement
- ETCS College Assisted Technology Innovation and Commercialization
- Lesson Learned: College of ETCS's Technology
 Engagement Project Examples
- Opportunities and Capacity
- Innovation Park and Northeast Indiana Innovation Center and Entrepreneurs
- Summary





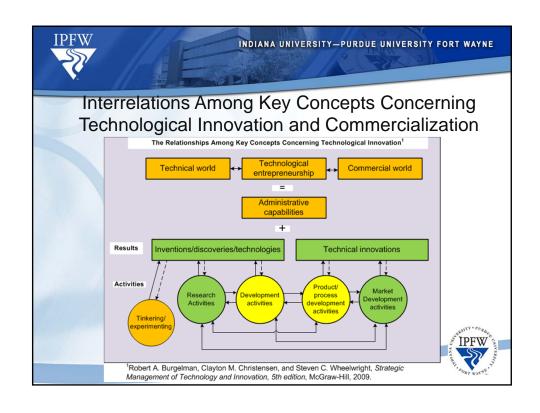
INDIANA UNIVERSITY-PURDUE UNIVERSITY FORT WAYNE

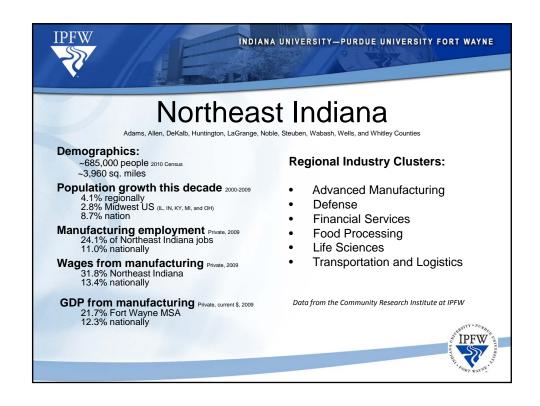
Challenges of Technology Innovation and Commercialization

- Challenges
 - Globalization
 - Time Compression
 - Technological Changes
 - New products
 - Value Chain
 - Rivalry
 - Technology Integration

- Technological Characteristics of Competitiveness
 - Technological Opportunity
 - Appropriability
 - o Resource Requirements
 - o Speed/Time
 - Process of Technology Change
 - Technology Strategy IPFW



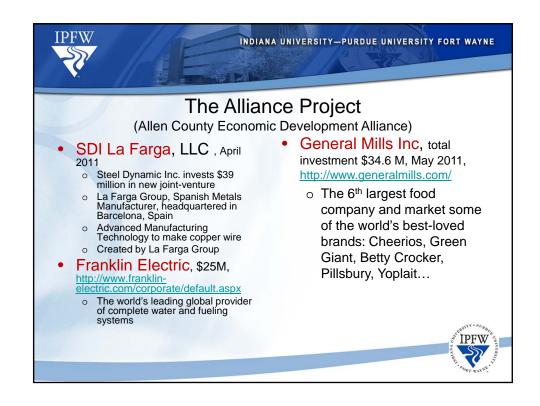


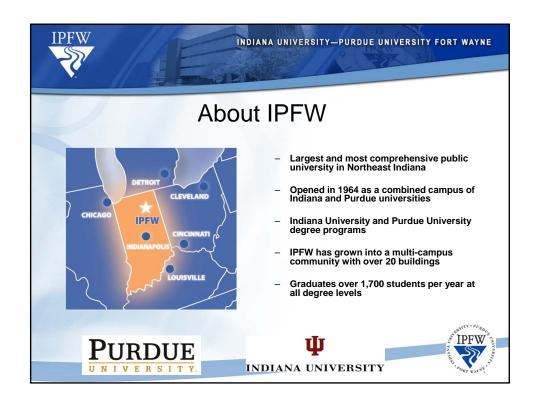


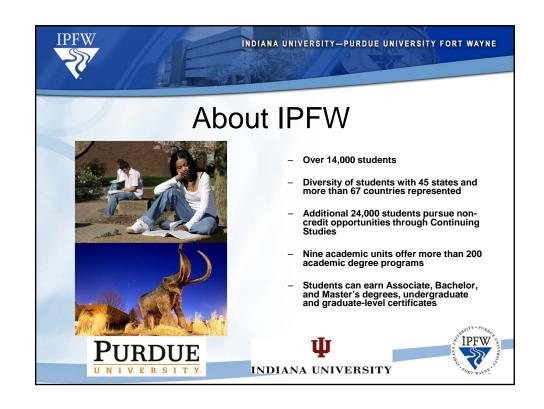


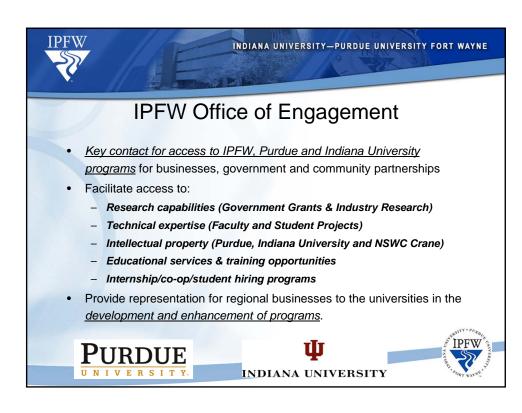




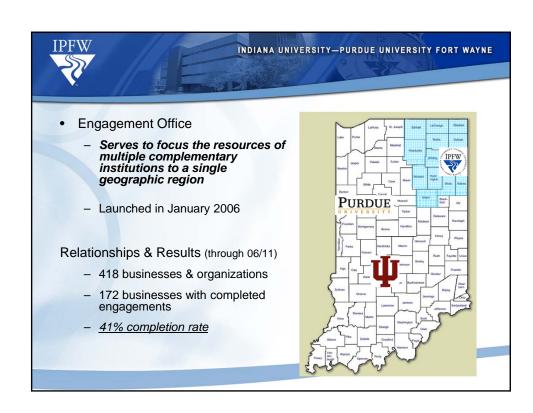










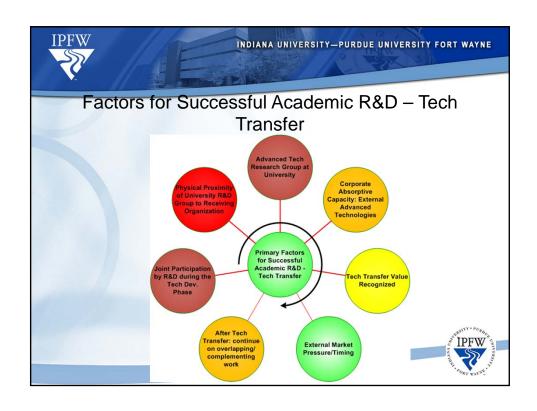


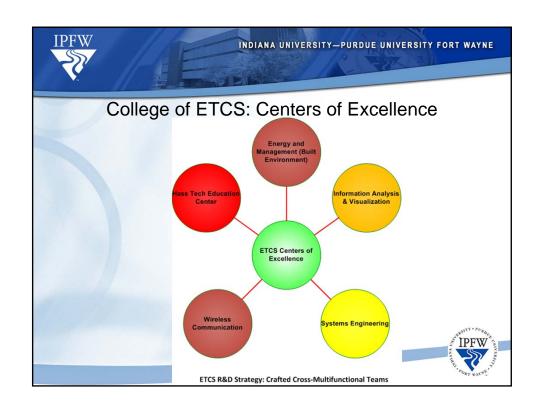


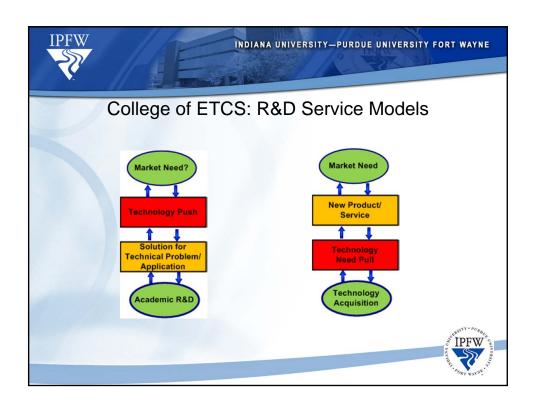














INDIANA UNIVERSITY—PURDUE UNIVERSITY FORT WAYNE

Technology Push Model Example - ITTTES

- Indiana-Taiwan Technology Transfer & Entrepreneurship Summit (ITTTES), Sept. 27-30, 2011, hosted by IPFW
 - Indiana Partners: Indiana University-Purdue University Fort Wayne, Purdue University, Indiana University, U of Southern Indiana, NSWC Crane
 - Taiwan Partners (from North to South)
 - National Taipei University of Technology
 - o Chung Yuan Christian University
 - o Feng Chia University
 - National Formosa University
 - National Cheng Kung University



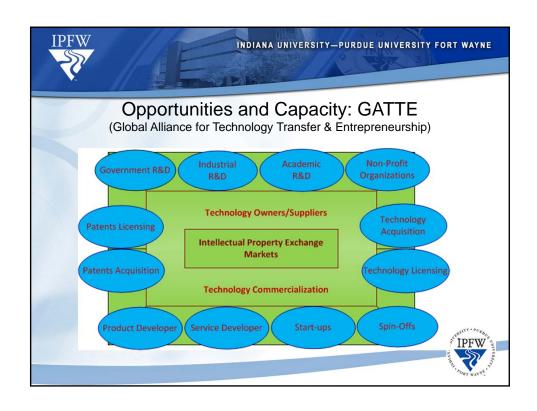


INDIANA UNIVERSITY-PURDUE UNIVERSITY FORT WAYNE

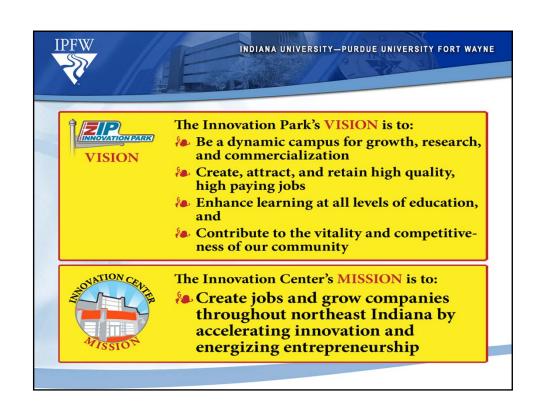
ITTTES - Technology Presentations

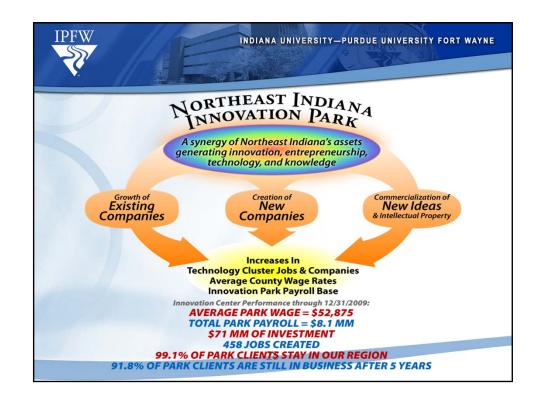
- Track 1: Nano-Scale, Electronics and Thermoelectric Material technologies
- Track 2: Renewable Energy, Environmental and Water Management Technology
- Track 3: Wireless Sensors, Data Acquisition, and Monitoring Technology
- Track 4: Novel Instrumentation and Detection
- Poster Presentations: NSWC Crane (17), Purdue Research Foundation (6), Taiwan Research Partners (5)













INDIANA UNIVERSITY—PURDUE UNIVERSITY FORT WAYNE

Key Focus Areas

Some of the areas that NIIC focuses on are:

- Life Sciences/Healthcare
- Clean Energy/Alternative Energy
- Defense Applications
- Material substrates
 - Composites
 - Biomaterials, or other Material Science Applications
- Mobile Computing Applications
- Areas that have significant national or global reach.





INDIANA UNIVERSITY-PURDUE UNIVERSITY FORT WAYNE

Clients

Established companies:

- American Axle leading companies in the automobile industry,
- IPFW

Emerging Companies

- 'Bee Mobile' Enabling customers to advertise via the mobile channel,
- 'Mesco' focused on the development commercialization, manufacturing, and sales of the Cardiac Guardian System

On-Campus: Clients who have leases spaced at NIIC at Stellhorn, Fort Wayne, IN Off-Campus: Clients who are not leasing space at the center but are NIIC clients





INDIANA UNIVERSITY—PURDUE UNIVERSITY FORT WAYNE

NIIC's Current Tenant Profile

- Information Technology Companies 23
 - Cirrus ABS a web technology company
 - GooRoo LLC a NIIC student venture Lab company
 - Guild Press LLC a NIIC student venture Lab company
 - Honor Education a NIIC student venture Lab company
 - IntelliTek Systems a Cloud-based integrated CRM, Sales Force Automation, etc.
 - BBK Group, Inc corporation telecommunication management and cost control
 - Scadata Scientific, LLC communication and data transfer technologies
- Biomedical Companies 5
 - BioDuct LLC developing patent protected avascular tissue repair platform technology
 - BioPoly RS LLC developing a joint resurface biomaterial
 - Schwartz Biomedical Tissue engineering research
 - Solistice Medical a medical device asset lifecycle management company





INDIANA UNIVERSITY-PURDUE UNIVERSITY FORT WAYNE

NIIC's Current Tenant Profile (cont.)

- Advanced Manufacturing Companies 3
 - Digital Hydraulic LLC
 - Phoenix Consulting, LLC
 - American Axle leading companies in the automobile industry
 - SysteMental Inc Lean manufacturing/enterprise methods technical services and software
- Entrepreneurial Service and Support and Other Companies – 18
 - Siemens Industries, Inc
 - Stahl Engineering & Failure Analysis, LLC



