

Gaining the Edge: Unlocking Potential

**Presentation the 5th Annual Tri-
Association Conference**

**Belleville, November 13, 2013
10:20-11:15 AM**

The logo for the University of Ontario Institute of Technology (UOIT) is displayed on a blue rectangular background. It features a stylized white '10' inside a square, followed by the text 'UNIVERSITY OF ONTARIO' in a bold, sans-serif font, and 'INSTITUTE OF TECHNOLOGY' in a smaller, sans-serif font below it.

**10 UNIVERSITY
OF ONTARIO**
INSTITUTE OF TECHNOLOGY

Brad's Challenge

- ① What has the relationship looked like in the past between universities and industry?
- ② How might technology around delivery of training and education change the relationship between PSE and industry?
- ③ How are the needs of industry changing the ways and means for developing, documenting and delivering training to their enterprise staff?
- ④ What trends are driving education—aging populations, multiple generations in business, ICT and skills gap?
- ⑤ What effect is the layering of ICT having on your program development and delivery?
- ⑥ Are there global issues pushing both PSE and man that we should be preparing for?



Challenge – Innovate -- Connect



University of Ontario Institute of Technology “Canada’s STEM University”

- Created in 2002
- First class in 2003
- 200+ full time core faculty, in 7 Faculties
- 9800 students in undergraduate and graduate programs (including Ph.D.)
- Lap Top University
- Flexible learning environments



Strategic Priorities -- 2012-2016



- Prepare our graduates for the 21st century workplace
- Build our strength and capacity through research, innovation and partnerships
- Be distinguished as a 21st century workplace

Research Mandate

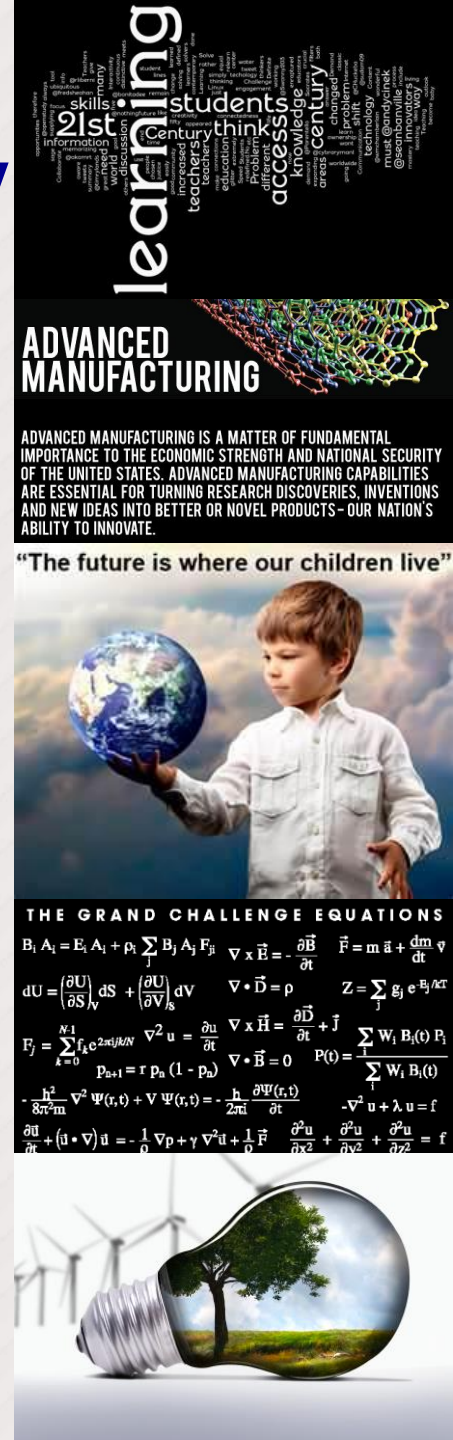


- International reputation for research excellence.
- Focused fields of research excellence.
- Research and scholarship that makes a difference – [and] will significantly improve Canada's quality of life and competitive advantage.
- **PARTNERSHIPS: A PRIORITY**
 - Researchers apply their knowledge to real-world problems while pursuing groundbreaking research work.

UOIT: A research intensive university

High Impact Research Areas

- Advanced Manufacturing for 21st Century Innovation
- Education for the 21st Century
- Energy & The Environment
- Human Health and Community Wellness
- ICT & Informatics
- Life Sciences & Biotechnology



The Changing University

- Education:
 - For Citizen Leaders
 - For Intellectual Leaders
 - For Community Development
 - For Economic Development
 - Responds to a Competitive Environment
 - New players
 - Online, Colleges, Polytechnics
 - New approaches to education –
 - DL, MOOCs, Hybrid, Flipped classrooms
 - Work-place learning, coop
 - Entrepreneurship

Universities:
“state assisted”
not
“state funded”

The Changing University

- Most revenues come from:
 - Students tuition
 - Students ancillary fees
 - Student Housing/Food
 - Books, clothing lines, etc.
 - Fund raising/Donations
 - Research grants and contracts



The Research University

- Encourages and Sustains Research & Scholarship
 - Collaborative
 - Trans-disciplinary
 - International
 - Big Data
- Engages in Partnerships
 - Academic
 - Community
 - Industry
- Promotes Regional and National Economic Development
- Competes and collaborates nationally & internationally



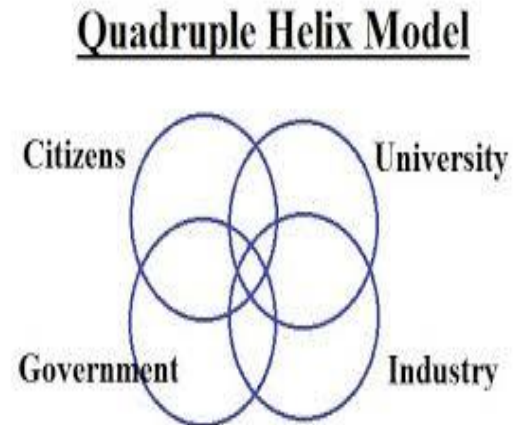
What was/is the relationship between universities and industry?

- Challenging
- Collaborative
 - Experiential Learning
 - R&D: Fundamental and Applied
- Evolving
 - Industry-friendly contracting

Universities:

Engines are economic and social development

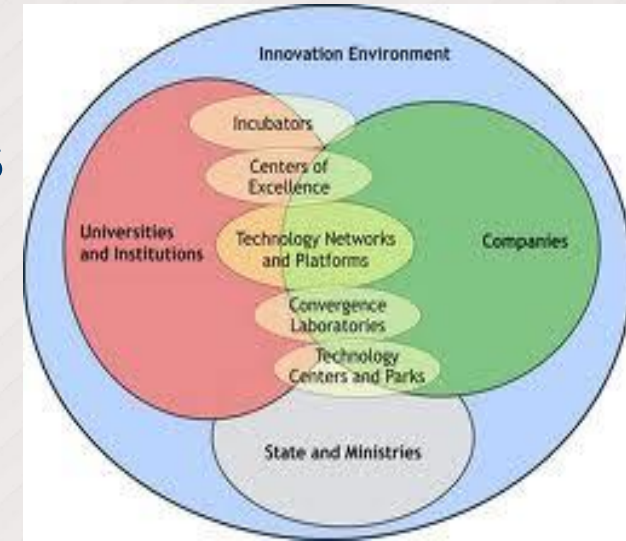
- By being in a region
- By engaging in practices that actively encourage and support economic development

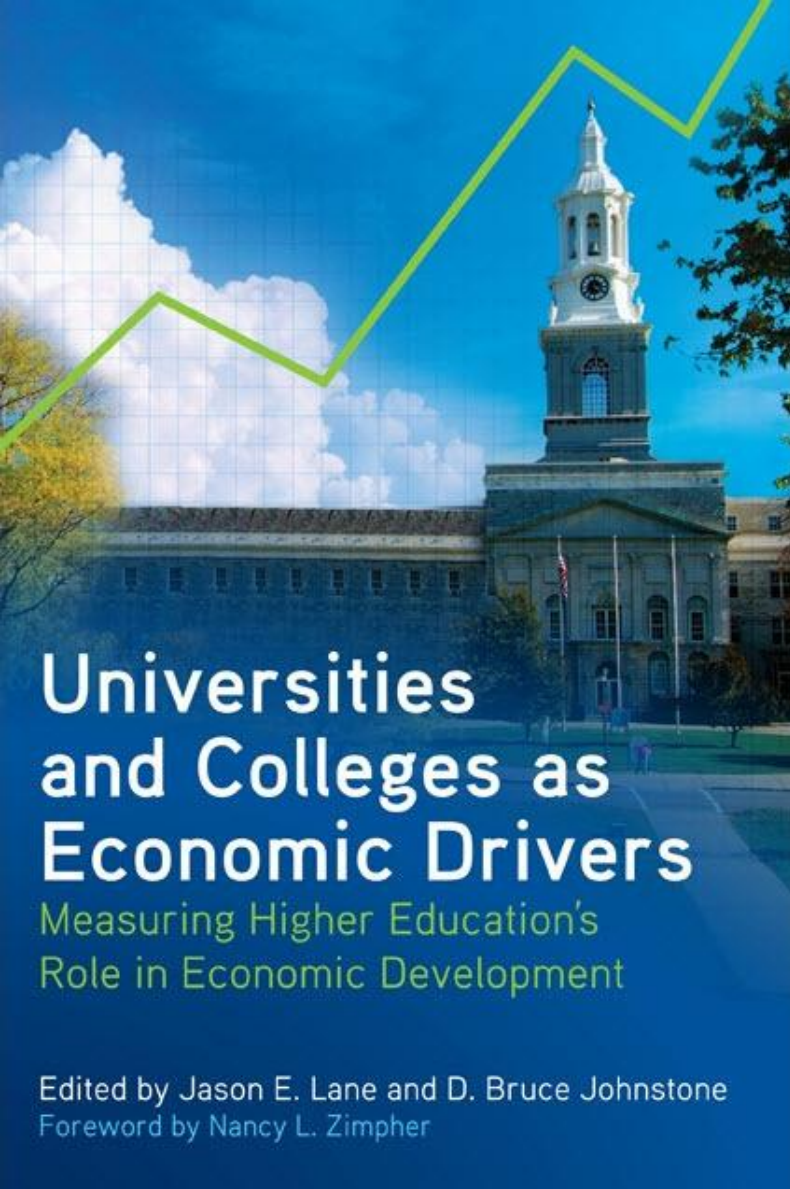


What does it mean for universities to be engines of economic development?

- ✕ Not ‘in the business of producing “plug and play” graduates’ ...[Universities engage students in] broad intellectual and personal development that enables graduates to thrive in a world that is constantly changing, a world that demands innovation and adaptability, a world in which they will change jobs frequently” Max Blouw, President, WLU, G&M Sept 3, 2013
<http://www.theglobeandmail.com/commentary/universities-should-educate-employers-should-train/article14078938/>

- ✓ Educational and research programs responsive to industry needs





What does it mean for universities to be engines of economic development?

- Educated people
- Market ready graduates
- New ideas/applied solutions
- Industry- and community-oriented research programs
- Industry partnerships
 - Fundamental and applied research
- Entrepreneurs
- Spin-off companies

Are there global issues pushing both PSE and manufacturing?



TALENT



- The next generation will change jobs 6-8 times over their career
- Many will want to create their own jobs



Fostering Student entrepreneurship

- “Firefly” Student Entrepreneurship Program
 - Available to all students
 - Entrepreneurship Boot Camp
 - Investment Seed Fund
 - Industry Advisory Committee
- Collaborations with regional incubators and accelerators:
 - IdeaHub
 - SPARK Centre
 - CORE21



Thank You

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