



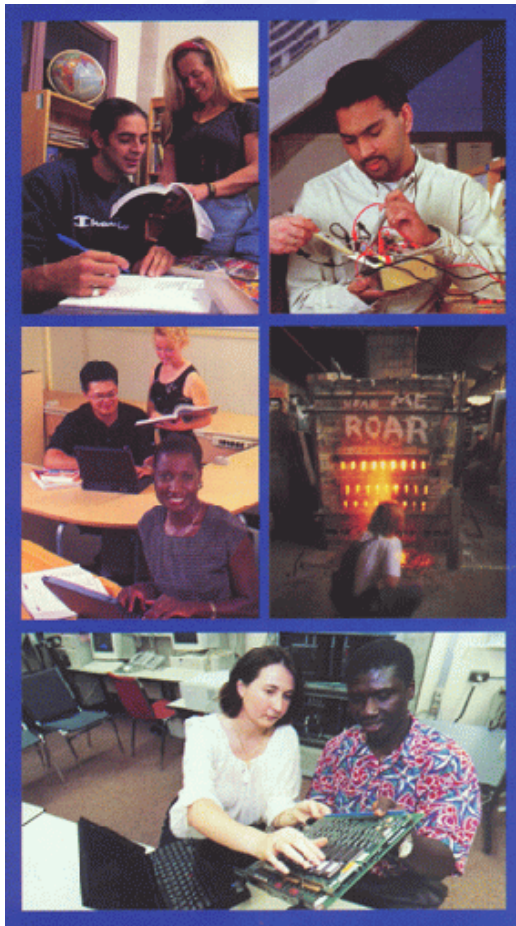
The College Connection: Partners in Skills Development

The Association of Colleges of Applied Arts and
Technology of Ontario

January 9, 2006



Presentation overview



1. Ontario's Productivity Challenge
2. Ontario's Colleges: Creating a Skilled Workforce
3. Toronto's Colleges: Serving the GTA
4. Conclusion: Colleges Partners in Economic Development



Ontario's Productivity Challenge

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- Global Competition
- Evolving Technology
- Demographic Change



Ontario's productivity challenge

- Global competition
 - Emerging economic powers: China, India, Brazil
 - Canada's productivity lagging behind U.S.
 - Economy is restructuring, jobs outsourced off-shore
- Evolving technology
 - Half of the jobs in the next 15 years will require the ability to use technology not yet invented
 - Half of the workforce in 2015 are already working, so have completed their formal education



Ontario's productivity challenge (cont'd)

- Demographic change
 - Aging workforce: in 1991, 29% between 45 and 64; by 2015, this age group is expected to be 48%
 - By 2025, 3 workers for every retiree vs. 6 workers per retiree in 1991
 - 52% of skilled tradespeople expected to retire within 15 years
 - 45% of steel tradespeople to retire in 5 years
 - Immigrants represent 30% of new labour market entrants



Ontario's productivity challenge (cont'd)

- Resulting skills shortages must be addressed:
 - 45% of Canadian manufacturers report difficulties finding skills and experience they need
 - Ontario will face shortage of 100,000 skilled trades workers in manufacturing in next 15 years
 - Canada's mining industry will be short 81,000 workers
 - Canadian plastics industry estimates needs will exceed available graduates by 10 to 1 by 2008
 - Rapidly growing sectors: information and communications technology, business and financial services, entertainment and creative cluster



Colleges: Creating a Skilled Workforce for Global Economy

Ontario's 24 Colleges

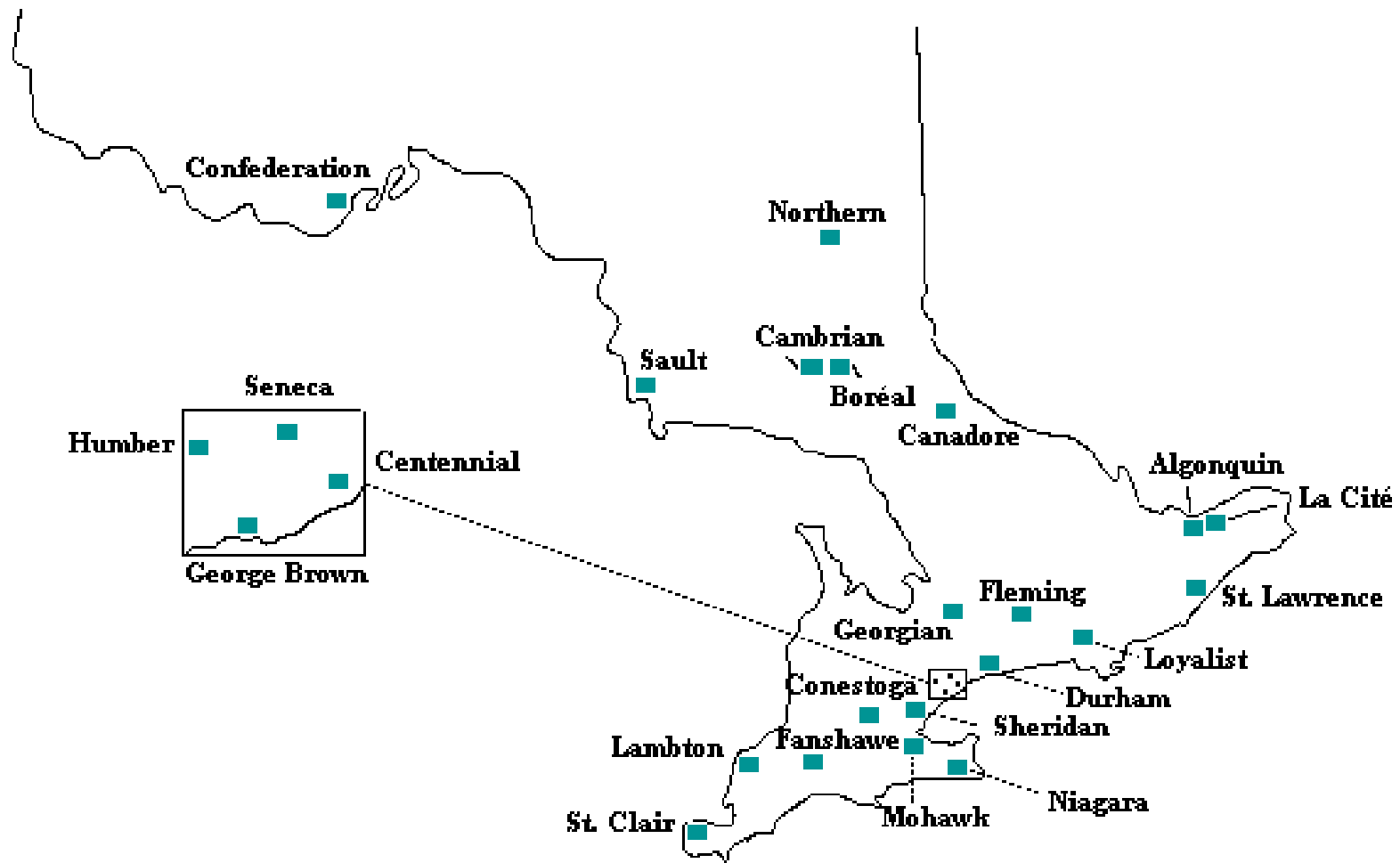
An established, stable, accountable public infrastructure to:

- address the province's skills needs by working with industrial and sector partners, labour, governments and communities
- support individuals in maximizing their potential and career opportunities





Serving Students and Employers Across Ontario





Ontario's Colleges are accessible...

- Network of 24 colleges serve 200 communities
- Both English and French
- Expanding distance education
- CON*NECT serves geographically dispersed employers/sectors (www.collegeconnect.on.ca)

CON*NECT

Colleges of Ontario Network for Education and Training



Colleges have strong ties to their employer community...

- Co-op and field placements, including for Job Connect
- Contract training for employed workers
- Employer participation on program advisory committees
- Serve on local economic development organizations



Colleges are accountable...

- Community-based governance
- Program advisory committees
- Provincial program standards
- Quality improvement systems
- Key performance indicators



Role of Colleges in Labour Market Programs

- Colleges are key providers of:
 - Apprenticeship training (approx. 25,000 apprentices annually)
 - Literacy programs (approx. 14,000 clients annually)
 - Job Connect (approx. 27,500 clients annually)
 - Bridging programs for internationally trained
 - Labour market adjustment programs
 - Information on local labour market activity



Colleges – Key Players in Apprenticeship

- Apprenticeship is a key part of Ontario's adult learning system; “core business” of colleges
- Ontario's colleges deliver over 85% of the in-school portion of apprenticeship
- Over the past 5 years, total apprentices enrolled in colleges increased significantly to almost 25,000 in 2004-05



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THIS YEAR.**

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Strengths in Apprenticeship Delivery

- Colleges are innovative, e.g.:
 - Co-op apprenticeship/diploma courses (6 colleges in 2004, expanded to 13 in 2005)
 - Flexible part-time, evening, distance and e-learning
 - Development of support tools for teaching curriculum
 - Skilled trades/technology career exploration programs
 - French-language distance education for Francophone apprentices anywhere in Ontario



Strengths in Apprenticeship Delivery (cont'd)

- Colleges have effective partnerships with employers, other stakeholders and each other:
 - With industry to develop, deliver, evaluate alternative training tools for employees, including on-line delivery
 - With unions to revise exemption tests
 - With other colleges to deliver practical sessions closer to apprentices' home/worksite
 - With Aboriginal and other community partners to develop/deliver apprenticeship targeted to First Nations trainees
 - With other program deliverers (Job Connect, Literacy and Basic Skills, school boards) to develop/deliver pre-apprenticeship programs



Strengths in Apprenticeship Delivery (cont'd)

- Colleges provide other services and programs that can benefit apprentices:
 - Literacy and basic skills, Job Connect, Bridging programs for internationally trained
 - Postsecondary diploma courses (direct links)
 - Ancillary student support services such as health, job placement, library



Colleges: Serving the GTA and its economy

- Toronto has four colleges: Seneca, Centennial, Humber and George Brown, (Sheridan and Durham also in GTA)
- Each college makes a significant contribution to Toronto's economy
- Industries are more productive due to college graduates
- Graduates have improved earning potential



Humber College

- Based in west end of city
- Serves 15,000 full-time and 55,000 part-time learners in over 350 postsecondary programs
- Provides business-to-business partnerships and customized corporate training to 11,000 employees annually



Humber College

- Employs 1,000 full-time and 1,400 part-time faculty and staff
- Total college expenditures: \$176 million
- Graduates contribute an estimated \$1.2 billion worth of added income per year to the GTA economy
- Associated multiplier effects in other industries increase output by \$533 million – CCbenefits, Inc., Jan. 13, 2004



Seneca College

- Largest college in Canada
- Campuses throughout Greater Toronto Area
- 17,000 full-time students and 90,000 part-time
- Programs recognized nationally and internationally include accounting and finance, 3-D digital animation and 3-D gaming



Seneca College

- Employs 1,300 full-time and 1,700 part-time faculty and staff
- Total expenditures: \$180 million
- Graduates contribute an estimated \$1.5 billion worth of added income per year to the GTA economy
- Associated multiplier effect in other industries increase output by \$643.6 million – CCbenefits, Jan. 13, 2004



Centennial College

- Ontario's first college, established in 1966
- Serves eastern part of GTA
- 12,500 full-time students and 35,000 in continuing education
- One of the most culturally diverse postsecondary institutions in Canada. Almost 100 ethnocultural groups are represented
- Programs include tele-health, book and magazine publishing, aviation technician and hospitality



Centennial College

- Employs 800 full-time and 725 part-time staff
- Total expenditures: \$150 million
- Graduates contribute an estimated \$973.8 million worth of added income per year to the GTA economy
- Associated multiplier effects increase output by another \$418.4 million – CCbenefits Inc., Jan. 10, 2004



George Brown College

- Established in 1967
- Serves 12,000 full-time students and 50,000 continuing education students
- Three campuses in downtown Toronto, along with 10 other training facilities
- Programs include Business Management, Sports and Event Marketing, and Business Marketing Analysis.



George Brown College

- Employs 950 full-time and 2,500 part-time faculty and staff
- Total expenditures: \$146 million
- Graduates contribute an estimated \$372.6 million worth of added income per year to the GTA economy
- The estimated multiplier effect in other industries increase output by another \$152.9 million — CCbenefits Inc., Jan. 10, 2004



Example: Partnership with Industry - Apprenticeship

Centennial-School of Transportation

- Largest on-site transportation training facility in Canada
- Partners: General Motors, Ford, Toyota, Canadian Tire, Volvo, Freightliner, Honda, Air Canada
- Highly-skilled faculty, state-of-the-art equipment; latest technology for cars, trucks, heavy duty vehicles
- Modified apprenticeship programs: provincial curriculum plus product-specific training
- Industry approves apprentices up-front; may guarantee job if graduate with 75% average (Volvo)
- Over 3,000 apprentices; plus over 300 grads/year in postsecondary Diploma courses



Example: Partnership with Industry – Health Sector

Seneca-York Region Education Health Alliance

- Alliance has been serving the educational needs of health providers in York Region since 1997
- Has trained over 300 Critical Care and Emergency Nurses over past four years
- Other programs include: Acute Care, Coronary Care, Paediatric Nursing, Physical Assessment, Practical Nursing
- Custom-designed programs, developed and sometimes delivered with assistance of nursing staff
- Various sites and on-line; sites include hospitals outside of York Region, e.g., St. Michael's, Humber River, Scarborough
- New website will show courses, seminars, programs for convenience of staff of Alliance partners



Example: Partnership with Govt. and Industry - Manufacturing

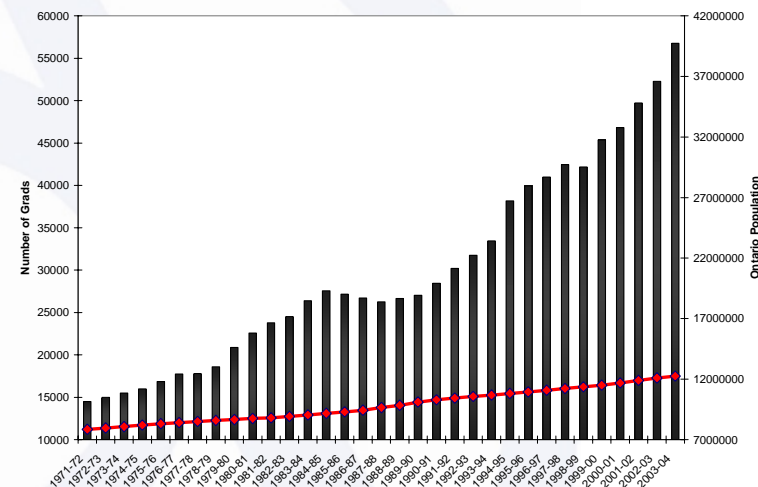
Sheridan Centre for Advanced Manufacturing and Design Technologies (CAMDT)

- Opened in October 2005, through partnership and funding from 2 levels of government and industry
- To help address current and projected skill needs of industry: 1 out of 6 jobs in Ontario is related to manufacturing; in Brampton, ratio is 1 out of 3
- State-of-the-art centre to train students and workers in the latest design and manufacturing technologies
- Also will provide customized in-house training for companies for existing workers; capacity to train hundreds of workers annually



Conclusion

- Colleges have grown and evolved over 40 years
- They are an important part of Ontario's economic and social infrastructure
- In our global economy, a skilled and educated workforce is key to any economic strategy





Conclusion

- Ontario's 24 Colleges of Applied Arts and Technology are an important source for skills training and career education
- They are designed to be responsive to local economic need
- They are entrepreneurial
- They should be an important tool in your economic development strategy