



Networks of Centres of Excellence of Canada
Réseaux de centres d'excellence du Canada

NCE Secretariat

Launch of New Programs for 2007

July 2007

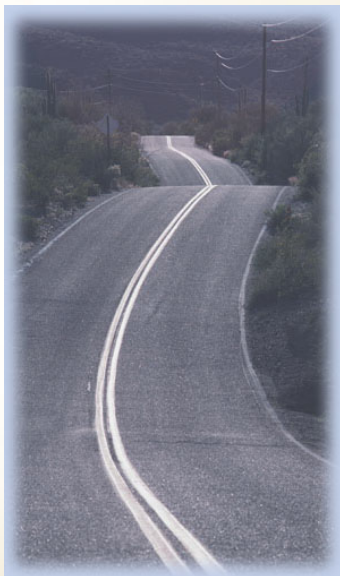
Jean-Claude Gavrel, Director

The NCE is a joint initiative of Industry Canada,
NSERC, SSHRC and CIHR.

Canada 



Today's Agenda



- Overview of the NCE Secretariat
- S&T Strategy 2007
- New Suite of NCE Programs
- CECR LOI Competition
- Questions and Answers



Program Created in 1989

The NCE mission:

*“To **mobilize** Canada’s research talent in the academic, private and public sectors and **apply** it to the task of developing the **economy** and improving the **quality of life** of Canadians”*

Canada

 Industry
Canada

Industrie
Canada

 Health
Canada

Santé
Canada

 **NSERC**
CRSNG

SSHRC
CRSH

 **CIHR** **IRSC**

NCE

Steering Com.

**Presidents &
Deputy Minister**

Directorate

**Program staff &
Communication**

**International
Peer &
Selection
Committees**

 ... 21 NCEs with individual BoD ... 



NCE Scale

- 21 Networks operating as “Virtual” Institutes
 - 3 in Advanced technologies, 3 in Engineering/Design
 - 3 in Natural resources & Environment
 - 7 in Health & Biotech, 5 in Human/Society Development
- Mobilizes approximately 7,000 People:
 - 1,600+ university professors and researchers
 - 400+ industry and partner researchers
 - 5,000+ research associates and students
- Brings together 1200+ Canadian organizations
 - 110 universities and hospitals
 - 190+ government agencies (federal/provincial)
 - 900+ industry and other partners
- Approx 300 International Linkages
- NCEs are funded for maximum of two 7-year cycles



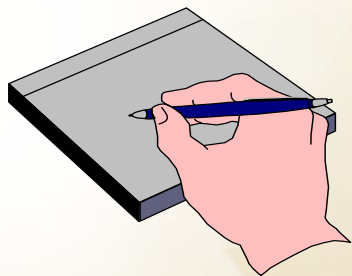
\$82M Gov
Matched
by
Partners





Over 27,000 refereed publications

2,300+ students trained in research & innovation
(per year)



Approx 320 Patents issued or filed

Approx 540 Licenses granted or in
negotiation

70 Spin-off companies

Numerous Research Findings
applied in new Policies and
Practices (Knowledge Translation)





NCE's "Entrepreneurial" examples

- NCE IP commercialization and Benefit to Canada Clause
- Management of collaborative university research by industrial consortia (1989):
 - Precarn/IRIS and Paprican/Mechanical Wood Pulp NCE
- Support for Proof of Concept Development:
 - IRIS TGAP (1995), CIPI TEN
- Federal - Provincial – Aboriginal – Industry Partnerships for Sustainable Development: SFM (1998)
- Novel Models for Entrepreneurial Training
 - CBDN IP training (2000)
 - MITACS new internship model for math PhD's with Industry and Provincial support (2004)



Three Components of Federal S&T Strategy

- **Entrepreneurial Advantage**
 - Fostering a Competitive and Dynamic Business Environment
 - Pursuing Public-Private Research and Commercialization Partnerships
 - Increasing the impact of Federal R&D Assistance Programs
- **Knowledge Advantage**
 - Focusing Strategically on Research in National Interest
 - Maintaining our G-7 Leadership in Public R&D Performance
 - Enhancing value for money, Accountability and Responsiveness of Three Granting Councils
 - Exploring New Approaches to Federally Performed Science and Technology
- **People Advantage**
 - Enhancing Opportunities for Science and Technology Graduates
 - Increasing the Supply of HQ and Globally Connected S&T Graduates
 - Getting Canadians excited about Science and Technology



Budget 2007 & NCE Secretariat:

- **Public-Private Res. & Commer. Partnerships (Entrepreneurial Advantage)**
 - Centres of Excellence for Commercialization and Research (CECR) (\$165M in 07-08; \$30M in future)
 - Business-led NCE (B-NCE) (\$11M starting in 08-09)
 - Private Sector Advisory Board for CECR and B-NCE
- **Enhancing Opportunities for S&T Graduates (People Advantage)**
 - Industrial R&D Internship program (\$4.5M over 2 years)
 - Expectations to eventually support 1000 Internships



A Suite of “NCE” Programs

- **“Classic NCE” (\$82.4M per year)**
 - Research-driven partnerships with longer-term goals
 - 2 X 7 years, Complete Funding for res., admin, KT & TT
- **CECR (\$165M for 3-5 years)**
 - Public-private research & commercialization partnerships
 - 5 years, renewable in some cases,
 - Funding for operating & commercialization (50%-75%)
- **B-NCE (\$11M in 1st year)**
 - Private sector problem-driven research partnerships
 - 4 years for 1st phase, funding for res., admin, and KT/TT
- **Industrial R&D Internships (\$4.5M over 2 years)**
 - R&D terms for graduate & postdocs in industry setting
 - Cost shared @ 50% - managed by NCE or others



Timing of New Programs

- Centres of Excellence for Commercialization and Research (CECR):
 - 1st Competition now for awards before March 31, 2008
- Business-Led Networks of Centres of Excellence
 - Competition to be announced Fall 2007 for awards in Fall 2008
- Next “NCE classic” Competition (in development)
 - (Four renewal and two mid-term competitions currently on-going)
 - Program evaluation and international review due Fall ‘07
 - Most likely fall-winter ‘07-08 announcement
 - Awards in late 2008 for up to 3 new NCE
- Industrial R&D Internships
 - 1st competition in fall ‘07 for awards in Winter ‘07-08



Useful Considerations

- NCE Secretariat manages programs on behalf of NSERC, SSHRC, CIHR and Industry Canada
- Programs are application- or sector-oriented, and not limited by discipline – multidisciplinary
- Government has identified four key priorities that apply to CECR and B-NCE:
 - Energy, Environment, ICT and Health
- NCE has 18 years of experience in governance, and best practices for HQP training and KT/TT



CECR Program

- “To create internationally recognized Centres for Commercialization and Research”
- “To maximize the benefits of Government investment in R&D”
- “To encourage the private sector to increase its investment in science and technology”
- Must be in one or more of the following priority areas:
 - Natural Resources and Energy; Environmental Science and Technologies, Information and Communication Technologies, Health and related Life Sciences & Technologies



What is “World Class Excellence”

- Recognized by international peers
- Able to attract and retain top internationally recognized researchers, business leaders, post-graduate and post-doctoral students
- Able to attract investment from many diverse sources including foreign direct investment and venture capital
- Able to generate the “WOW!” factor



What is meant by Commercialization?

- Create, grow and retain companies in Canada that are able to capture new markets with breakthrough innovations
- Accelerate the commercialization of leading edge technologies, goods, services in priority areas where Canada can significantly advance its competitive advantage



The Competition Process

- Two stage review, involving a Private Sector Advisory Board (PSAB), individual peer review and input from other stakeholders, including provinces, granting organizations and federal science-based department/agencies (SBDA)
- Stage 1 – Letter of Intent (LOI)
 - Reviewed by NCE staff for compliance
 - Reviewed by PSAB for recommendation to NCE Steering Committee - three granting agencies Pres., Industry Canada DM and CFI President (observer)



Competition Process – Stage 2

- Applicants of LOI selected by Steering Committee will be invited to submit full applications to be reviewed as follows:
 - LOI circulated to provinces, granting orgs and SBDA for comments and priorities
 - Individual expert panels (EP) set up for each invited applications with site visit
 - Applications, EP reports and other inputs are submitted to PSAB for final recommendations
 - NCE Steering makes final decision and submits Centres selected for funding to Government



The CECR Evaluation Criteria

(1) Benefits to Canada

- High priority of issues
- Significant economic, health, envir. or social benefits
- World class stature of Centre
- Strength of domestic collaboration and spillover benefits
- Optimization and leveraging of resources

For Commercialization Aspects:

- Creation, growth and retention of companies in Canada
- Acceleration of commercialization of leading edge technologies, goods and services



The CECR Evaluation Criteria

(2) Track Record and Potential of Applicants

- Past achievements and ability to contribute to the Centre's programs
- Ability to train and retain world class researchers in areas and technologies critical to Canada and for private and public sector
- Likelihood that Centre will attract top international talents
- Ability to attract investment



The CECR Evaluation Criteria

- **(3) Strength of the Business Plan**
 - Excellence, focus and coherence of the program
 - Extent of Partnership with various levels of government and private sector
 - Effectiveness of the plan to manage and exploit IP
 - Likelihood of sustainable productive Centre
 - Quality of proposed governance & management
 - Accountability and effective financial decision making



Content of Letter of Intent

- Cover Letter from Host Institution (or Centre) 1-2P
- Application Form 1P
- LOI Proposal
 - Articulation of the Centre proposed benefits to Canada; Vision, Goals and Objectives 3P
 - Information to help assess the track record and potential of the key individuals leading the Centre 5P
 - Business Plan for the Centre: its program, partnerships, IP and commercialization, and management 5P
- Budget Form 1P

Note: Budget may be submitted for period of 3 to 5 years





Letters of Support

- No limit on the number of letters BUT:
 - Maximum 2 pages per letter
 - Consider Strategic Quality vs. Quantity
- Should include letters from Funding Partners as follows:
 - If Centre currently receives support from Provincial or other govt agency, letter confirming the terms of support
 - If Centre currently applying for Govt funding, letter confirming application received and being considered
 - For Industry support, letter indicating level of interest, minimum funding being considered and any conditions that may affect decision



Timeline for CECR Competition

- Competition Launched June 26 '07
- LOI Deadline Aug 20
- PSAB/Steering Review Sept 11
- Invitation Stage 2 Sept 14
- Full Proposal Deadline Oct 31
- Expert Panel Site Visits Nov 7-16
- PSAB/Steering Decision Dec 1
- Funding and Agreements Finalized Mar 31 '08



www.**NCE**
RCE.gc.ca

Questions?



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of Excellence of Canada

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Canada 

