

Towards a Borderless World for Science and Innovation

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Natural Sciences and Engineering
Research Council of Canada

Conseil de recherches en sciences
naturelles et en génie du Canada

Canada

The context...

“The ‘national’ university is going global, with transborder research networks, and international student bodies and faculties. The modern wealth of nations will be driven not only by physical capital and resources, but also by [this] human and intellectual capital, and the dynamic interaction among them called innovation.”

Kevin Lynch, *Financial Post* 2011



Canada's Vision and Goals

Canada is committed to participation in international study and research partnerships that build understanding among peoples, develop global citizens and leaders, and contribute to the development of nations.

Government of Canada



In a nutshell...

NSERC helps make Canada a country of discoverers and innovators for the benefit of all Canadians

Priorities

People

Building our human capital in the natural sciences and engineering

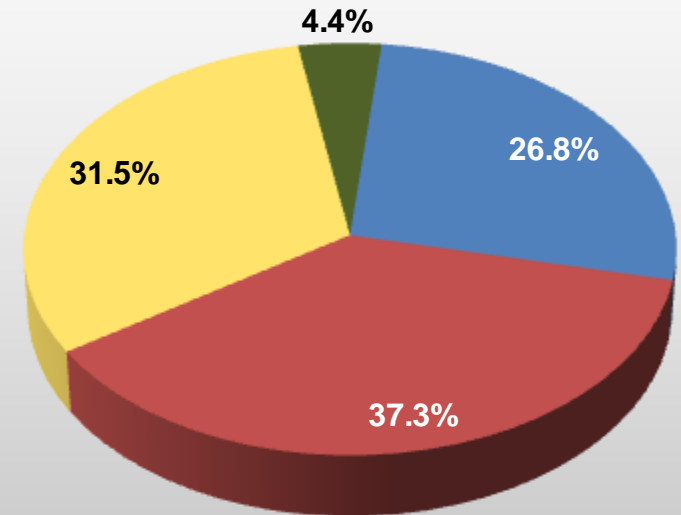
Discovery

Unleashing the creative power of our researchers

Innovation

Connecting and applying the strength of our research capacity to the challenges and needs of industry and society

Total budget in 2012-13
\$1.08 B



- People
- Discovery
- Innovation
- Admin.

N SERC International Strategy

N SERC has adopted an international strategy that aims to connect Canadian researchers and students with the global supply of ideas and talent.



N SERC International Strategy

Approach

Enabling an open research environment

- International collaborations pervasive across all NSERC programs
- Ensure policies, rules and criteria do not create barriers to international collaboration

Focusing on priority areas and initiatives

- Internationalization of Canadian NSE research and training



International collaboration in action

Facilitating the mobility of students and the formation of multi-national research teams

Opening research networks to global collaboration

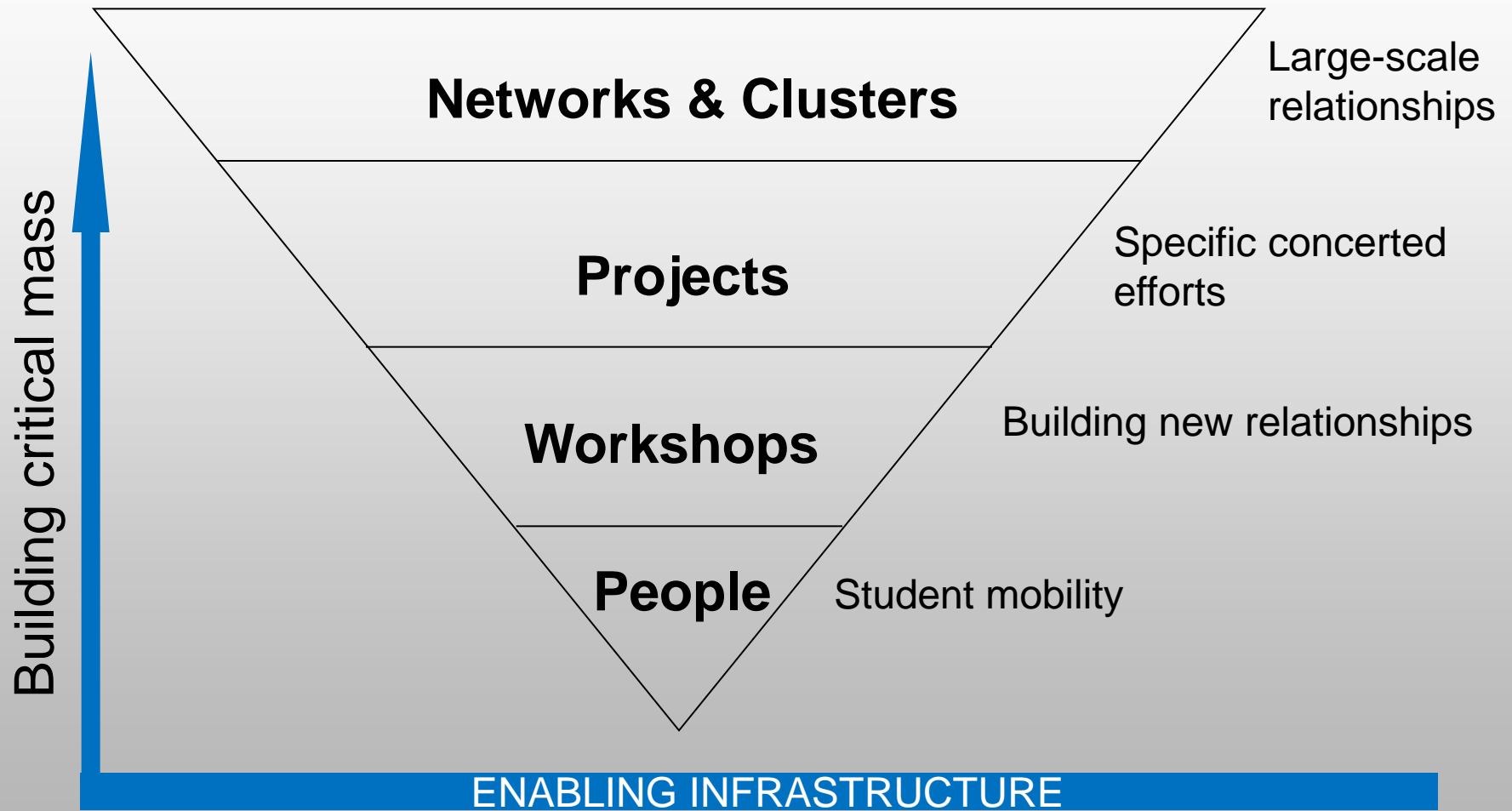
Increasing the flexibility and nimbleness of programs to facilitate linkages to global initiatives

Fostering greater collaboration between the academic and receptor sectors within and outside our borders



NSERC Partnerships

Flexible mechanisms



Supporting Canada-EU Research Teams

NSERC

Partnership Programs:

Opportunities

1. Partnership Workshop Program (PWP)
2. Strategic Partnerships (Projects and Networks)
3. Automotive Partnership Canada (APC)

Shared Priorities

ICT

ENERGY

ENVIRONMENT

MANUFACTURING

TRANSPORT:

AUTOMOTIVE

AEROSPACE

FP7

COOPERATION Programme:

Themes

1. Collaborative Research
2. Coordination between National Research Programs
3. Joint Technology Initiatives
4. Technology Platforms

Promoting Canada-EU Talent Mobility

NSERC People

Building Bridges

FP7 People

**Collaborative
Research & Training
Experience Program
(CREATE)**

**To facilitate
and enhance
international
student training**

**Initial Training
Networks (ITN)**

**Vanier Canada
Graduate Scholarship
Banting Postdoctoral
Fellowship**

**For incoming
international
talent**

**International
Incoming
Fellowships (IIF)**

**Postgraduate
Scholarship (PGS)
Postdoctoral
Fellowship (PDF)**

**For outgoing
international
talent**

**International
Outgoing
Fellowships (IOF)**

Borderless Partnerships



ArcticNet
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- 145 researchers and 300 Highly Qualified Personnel (HQP) from 30 Canadian universities, 8 federal and 11 provincial agencies and departments
- Partnerships with foreign organizations, developing large coordinated efforts leading to economic and social impact
- International collaborators incl. USA, Japan, the UK, the Nordic Countries and Continental Europe



National Research Training Groups: International Scope

CREATE Watershed and Aquatics Training in Environmental Research – WATER (University of New Brunswick)



CREATE Training Program in Forests and Climate Change (University of Victoria)



CREATE TerreWEB: Terrestrial Research on Ecosystems and World Wide Education and Broadcast (University of British Columbia)



The Global Research Council has a long-term objective of fostering multilateral research and collaboration across continents to benefit both developing and developed nations.

Purposes

- Improve communication and cooperation among funding agencies
- Promote the sharing of data and best practices for high-quality research cooperation
- Provide a forum for regular meetings of the Heads of Research Councils

Actions

- 2012 Global Summit on Merit Review – nearly 50 heads of research councils worldwide. Statement of Principles for Scientific Merit Review now online
- 2013 Global Summit in Berlin, May 27-29 – Focus on Research Integrity and Open Access





**A COOL PLACE TO DO RESEARCH
UN EXCELLENT PÔLE DE RECHERCHE**