

University of Toronto

- 2,260 Professorial Faculty and 3,913 Clinical Faculty
- Over 13,000 Graduate Students
- Library 15 Million Holdings, 3rd to Harvard and Yale
- 3 campuses and 10 affiliated teaching hospitals
- Operating and Research Budget—\$2 Billion
- A Top Employer in Canada

Faculty of Arts and Science

- 800 Professorial Faculty
- 3,600 Full-Time Graduate Students
- 29 Departments, 76 Graduate Programs

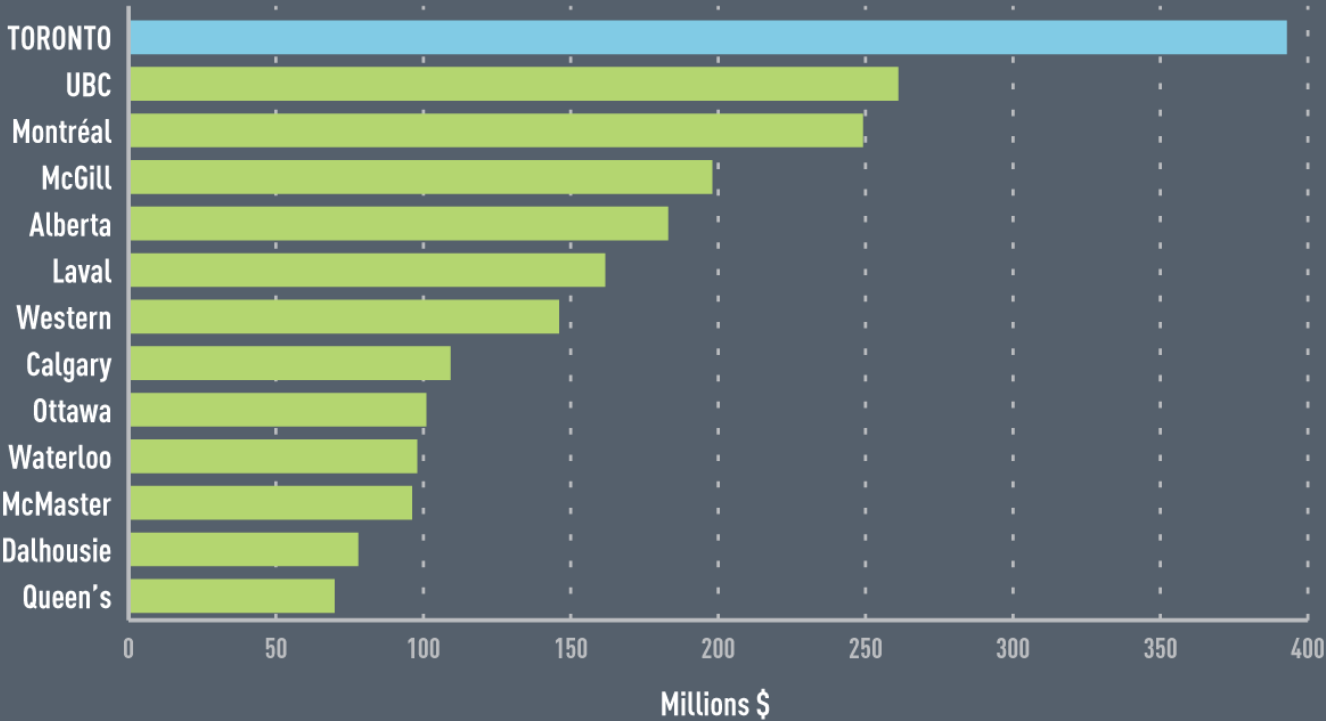
A Research-Intensive Environment

- U of T researchers published nearly 30,000 papers between 2001 and 2005 – the most of all top 10 public AAU & G13 universities**
- U of T is 3rd in top 10 public AAU and G13 universities in terms of citations, and 1st in the science fields**
- Almost \$1B research per year; \$3M per day; 70% from external sources**

Research Performance

Canada Foundation for Innovation Canadian G13 Universities

From Inception (1998) to September 2007

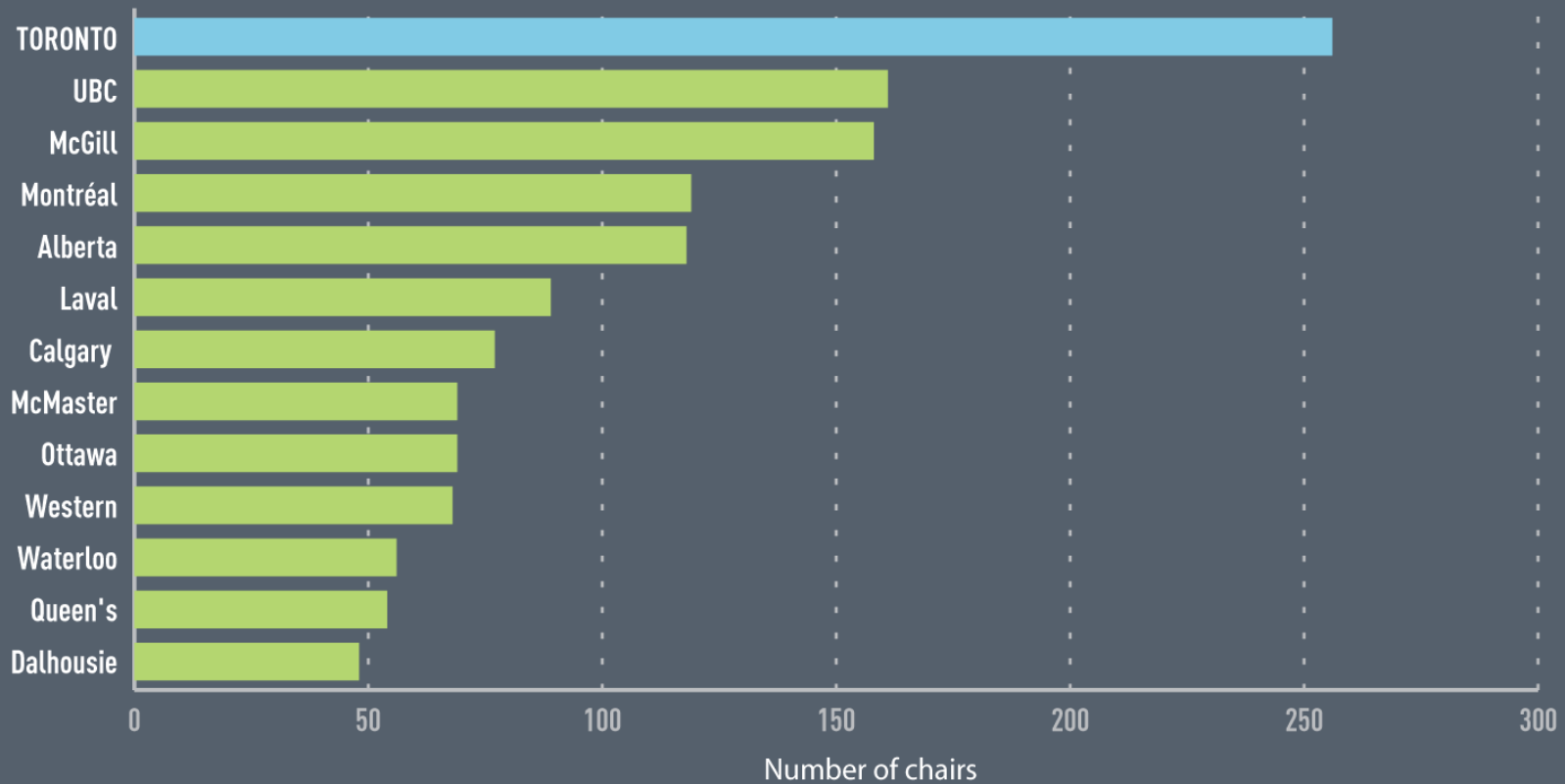


Source:
CFI website September 2007;
national projects excluded;
partners counted with
each university

Research Excellence

Canada Research Chairs Allocations Canadian G13 Universities

2007

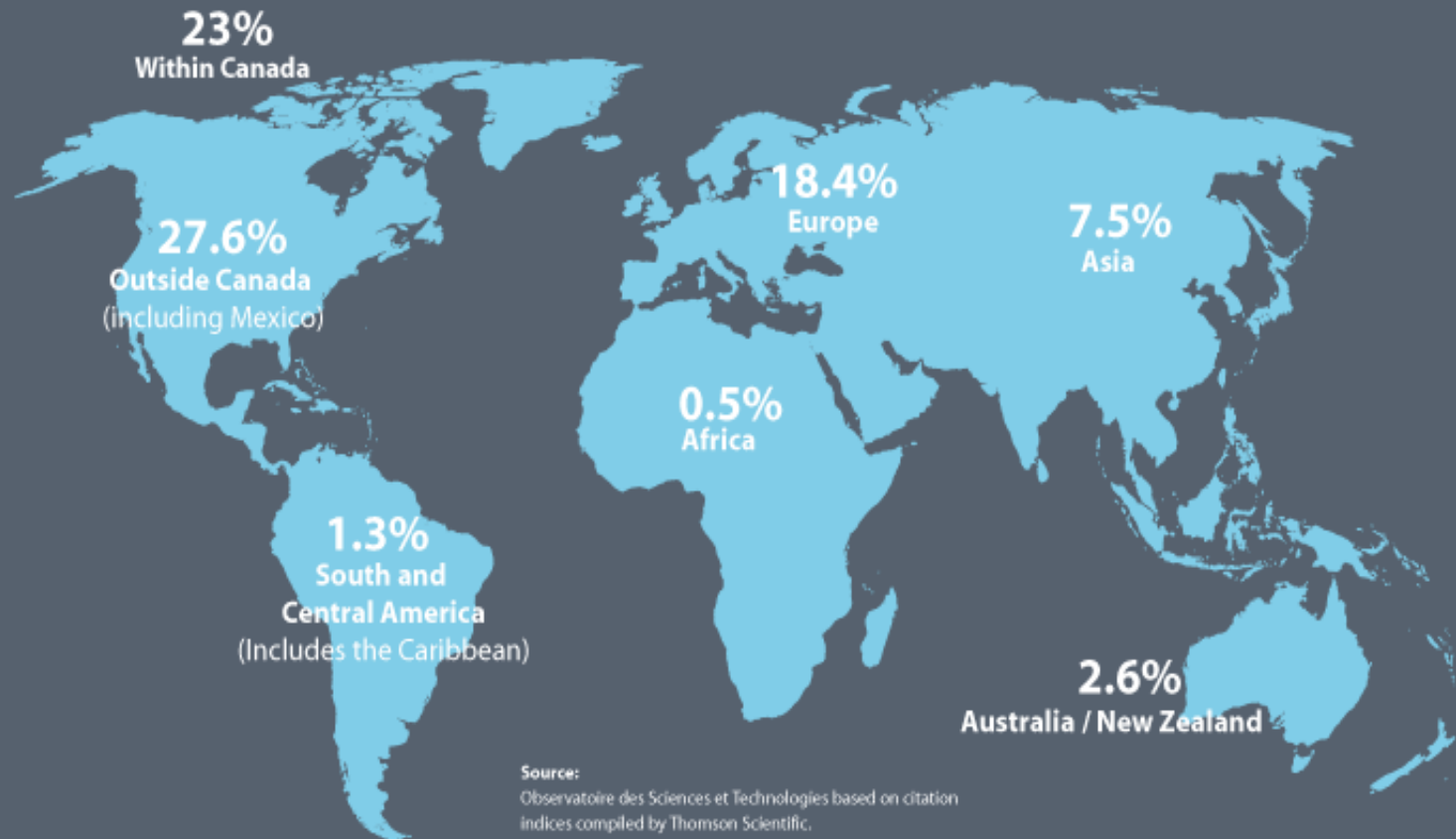


Source: CRC Program website www.chairs.gc.ca, September 2007

Global Reach of Research

Global Reach of Research

Proportion of Research Paper Co-Authorship by Continent, University of Toronto and Partner Hospitals





November 27, 2009

[Government of Canada Invests in New Research Partnerships for Colleges and Communities and Creates the Jobs of Tomorrow, Today](#)

November 24, 2009

[New NSERC programs help build industry ties with university research](#)

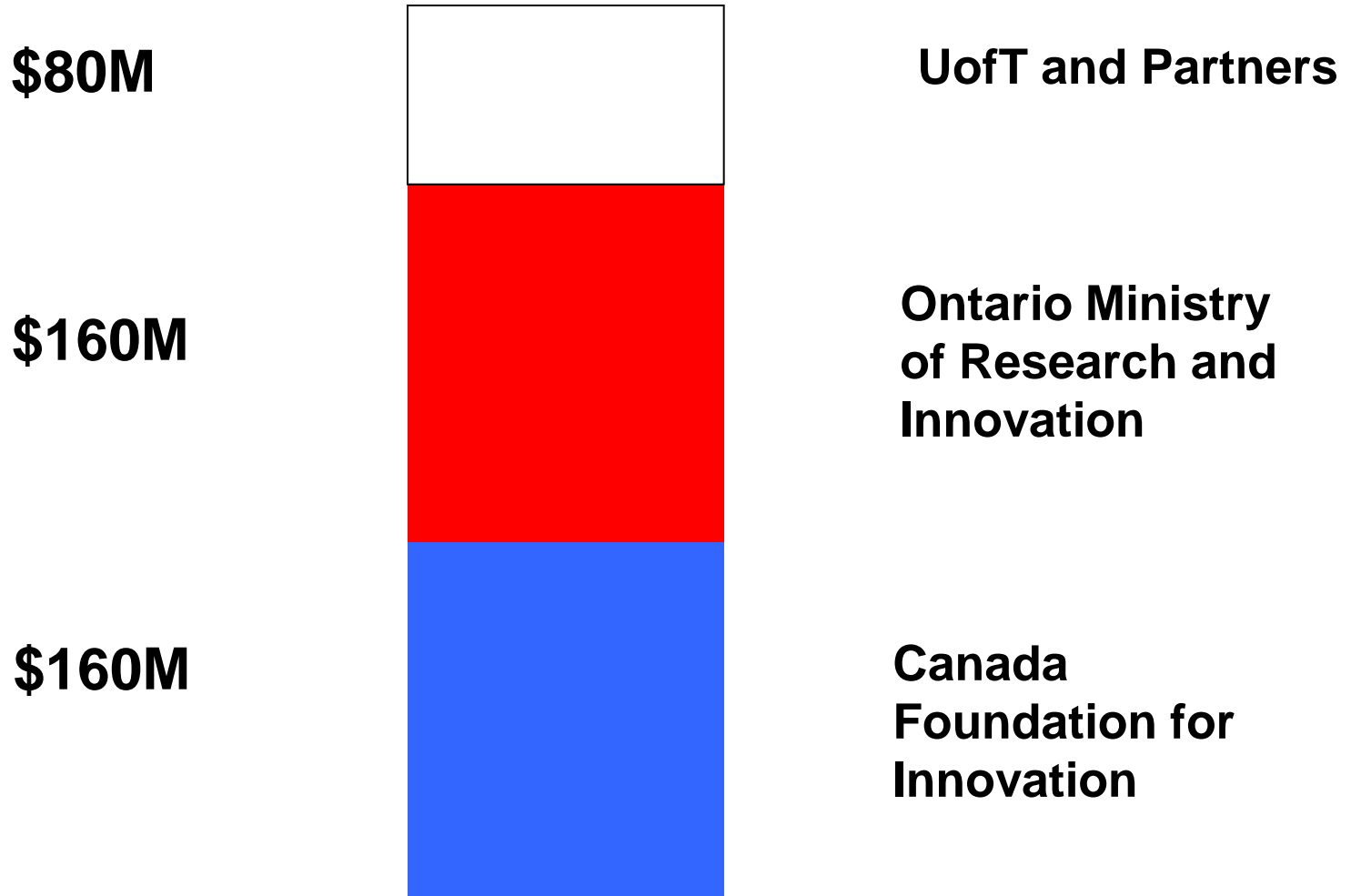
November 20, 2009

[NSERC and CIHR support research into medical isotope alternatives](#)

November 5, 2009

[NSERC is partnering with SSHRC, CIHR and IDRC in the International Research Initiative on Adaptation to Climate Change to support research and networking on the adaptation to climate change in Canada and low-income countries and middle-income countries.](#)

\$400 Million Project Support



CERC

World-class **excellence**
in research & innovation

- + Environmental sciences & technologies
- + Natural resources & energy
- + Health and related life sciences & technologies
- + Information & communications technologies

CECR

The goal of the **CECR** Program is to create internationally recognized centres of commercialization and research expertise in four priority areas in order to deliver economic, social and environmental benefits to Canadians. As established in the federal government's **2007 Science & Technology Strategy**, the priority areas are:

Environmental Science and Technologies;

Natural Resources and Energy;

Health and related Life sciences and Technologies;

Information and Communications Technologies.

The Ontario Ministry of the Environment

Ontario Research Chairs

RENEWABLE ENERGY TECHNOLOGIES AND HEALTH

Develop and publish a body of research on the potential health effects of renewable energy technology beginning with studies that extend current knowledge of potential health effects related to energy from wind.

GREEN CHEMISTRY AND ENGINEERING

Develop and publish a body of research in the fields of green chemistry and green engineering that:

- identifies and addresses barriers to commercialization of green chemistry and engineering discoveries
- emphasizes the development of alternative approaches that result in the reduced use and release of toxins...

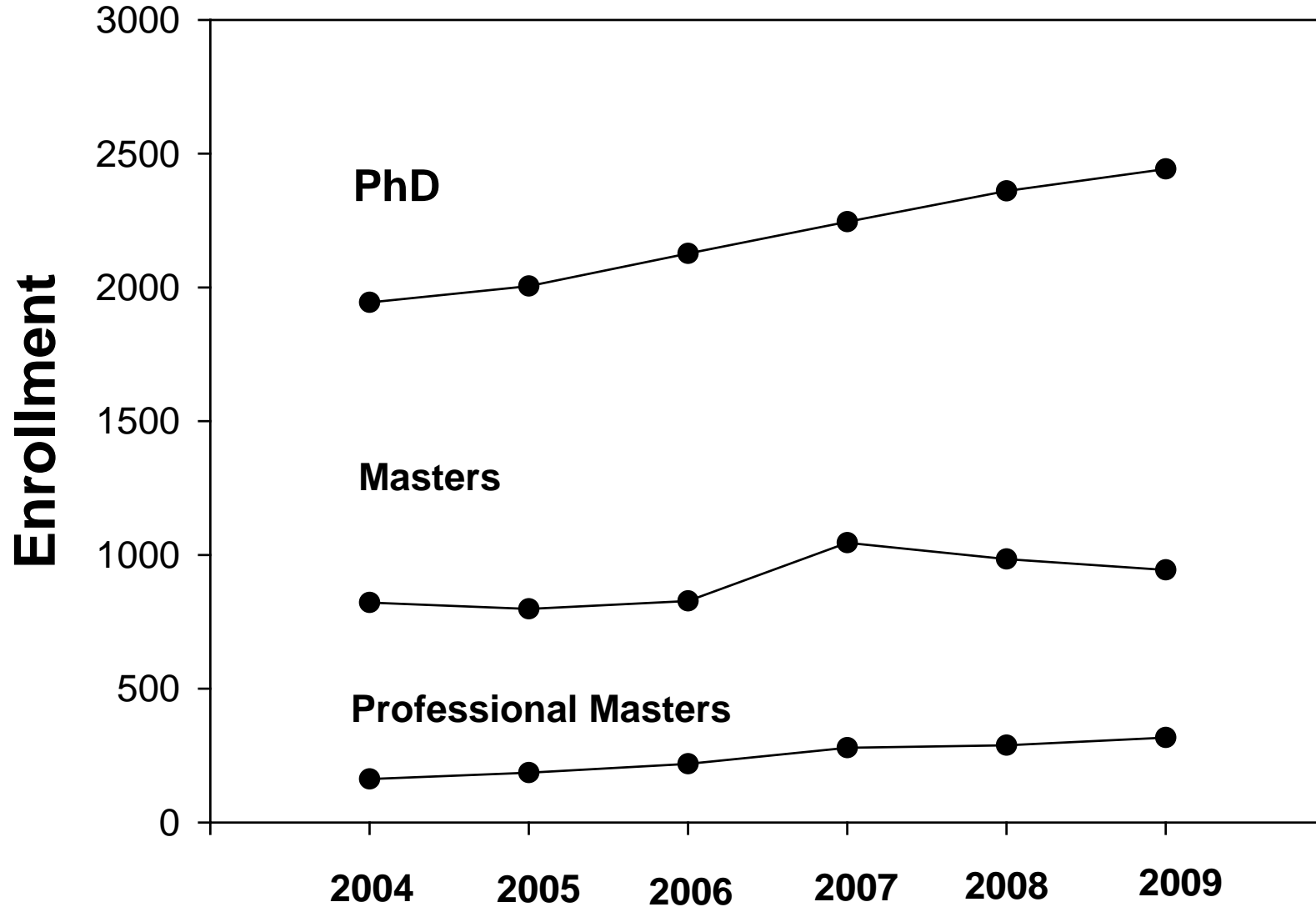
3.4 Building Innovation Strengths — Research and Development Sub-Priorities

For an economy and population the size of Canada, it is not possible to participate in all international initiatives or to conduct all our research domestically.¹⁵ We must be strategic as to where we focus our resources and how we capitalize on global excellence wherever it may reside. For this reason, the Government of Canada selected four priority areas for research:

- * Environmental science and technologies**
- * Natural resources and energy**
- * Health and related life sciences and technologies**
- * Information and communications technologies**

The Science, Technology and Innovation Council

Arts & Science Graduate Enrollment



Institutional Cost of Research

- University of Toronto's rate of ICR coverage from the Federal Government = 19.7%
- 2009: U of T awarded \$38.8m to cover institutional costs associated with federally sponsored research
- How would this compare to other common rates of coverage?
 - European rate (48%) = \$95m
 - US average rate (57%) = \$112m
- **If U of T were in the USA, it would receive an additional \$73.2m per annum to cover the institutional costs of federal research**

Institutional Cost Formula in Canada

- Based on the average funding received by university/college researchers from the 3 granting councils over the 3 previous years
- Coverage on:
 - The first \$100,000 per year = 80%
 - The next \$900,000 per year = 50%
 - The next seven million per year = 40%
 - The balance = up to an average rate of 20%, based on available funding

Distributional Requirements in Arts and Science

Old System: 3 FCE from HUM/SSC/SCI

New System: Students must take 4 FCEs that count toward breadth, with at least 1 FCE in each of any 4 of the 5 categories below.

1. Creative and Cultural Representations
2. Thought, Belief, and Behaviour
3. Society and Its Institutions
4. Living Things and Their Environment
5. Physical and Mathematical Universes

Why?

Categorization of HUM/SSC/SCI does not guide our students in selecting courses that would encourage and foster a broad understanding of the range of knowledge and methodologies in the Faculty.

Requiring only 3 FCEs of breadth (with at least 1.0 satisfied by program courses) is insufficient to encourage and foster the broad understanding of disciplines and methodologies that is our goal of a well-rounded education for our students.