

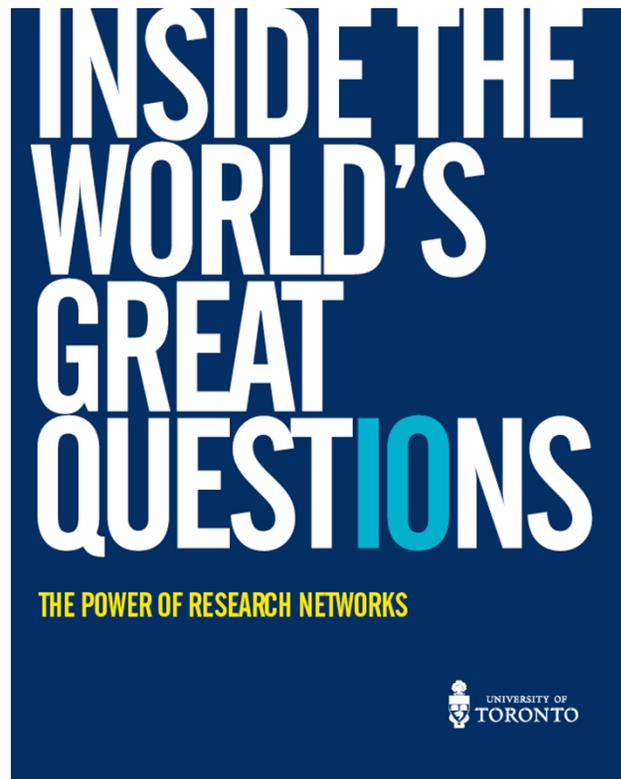


UNIVERSITY OF
TORONTO

CHARTING A COURSE FOR GLOBAL IMPACT

Leveraging our Unique Strengths

Professor Paul Young, PhD, FRSC
Vice-President, Research & Innovation



May 22, 2014

BOUNDLESS

THE U of T DIFFERENCE

History

Nearly **200 years of research excellence** in all disciplines, generating civic returns for Canada and the world.

Culture

A **collaborative and entrepreneurial research culture** of faculty, post-doctoral fellows, graduate and undergraduate students, and highly trained staff.

Change

U of T research is a **driver of change** fuelled by a unique combination of **curiosity, discovery, invention** and **solution**.

VPRI: SUPPORTING RESEARCH EXCELLENCE

Research Services

2,800 New funding applications
9,000 Active accounts
800 Unique sponsors
2,000 Different programs

Oversight & Compliance

7,000 Financial reports
100 External audits
4,600 Ethics protocols reviewed

Innovations & Partnerships

150 Invention disclosures
17 Companies created
\$19M in industry funding

HOW DOES U of T STAY COMPETITIVE?

- **We hire the best faculty**, enabling students to learn from – and work alongside – leaders in the field;
- **We adopt a holistic view** to research and teaching by hiring well-rounded faculty who bring leading-edge thinking and practice into the classroom;
- **Our researchers are evaluated** through peer review, both internally (promotion & tenure) and externally (publication);
- **We support academic freedom**, balancing investigator-led research against serving the public good; and
- **We advocate on issues of national concern** through the U15 (e.g., the Canada First Research Excellence Fund).

EXCELLENCE, INNOVATION, LEADERSHIP: Strategic Research Plan 2012–2017



The **SRP** provides a **roadmap** to overcoming our challenges and increasing our competitiveness globally, and has been embraced by the U of T community.

CELEBRATING OUR SUCCESSES

Over the last decade, we have increased our success in several key strategic areas.

Thanks to our incredible ecosystem of investigators, students and research partners,

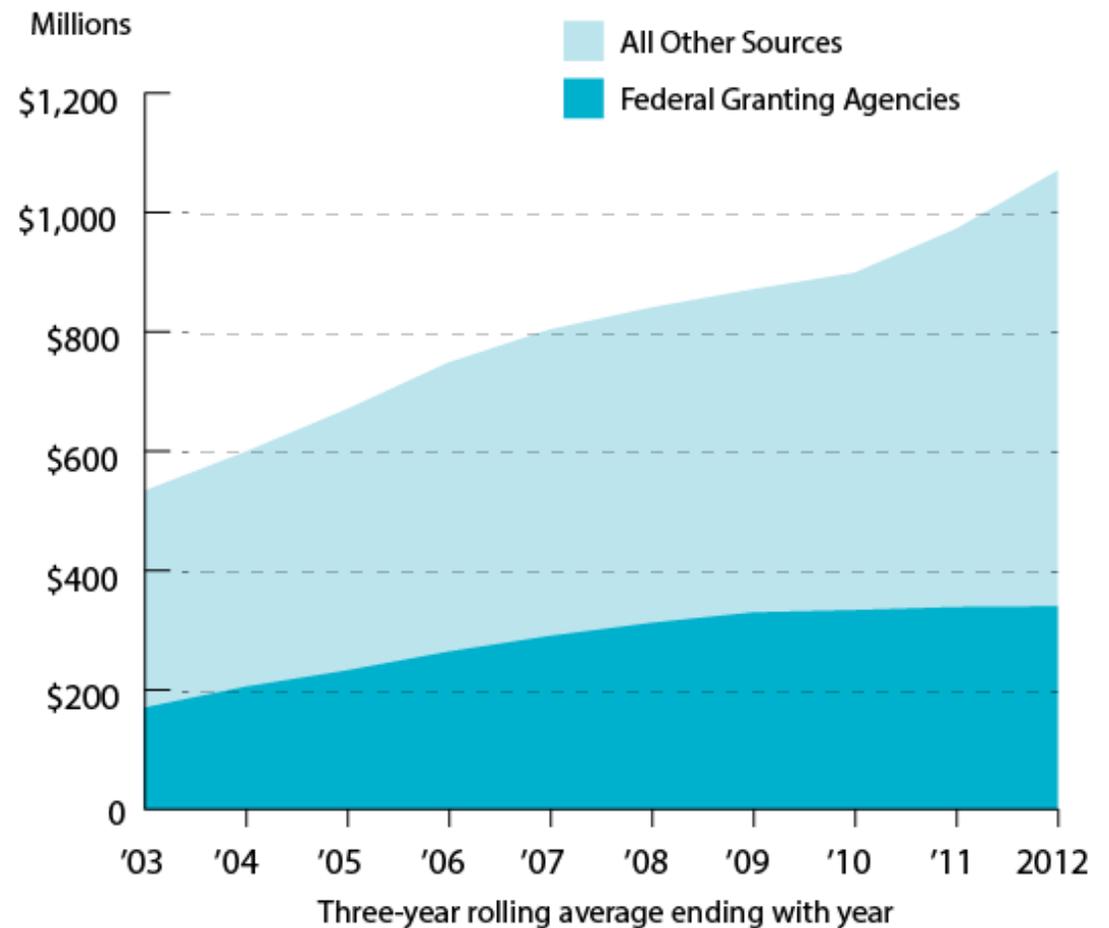
U of T attracted record research funding in 2011-12.

RESEARCH FUNDING

U of T captured a **record \$1.2 billion in research funding** in 2011-12.

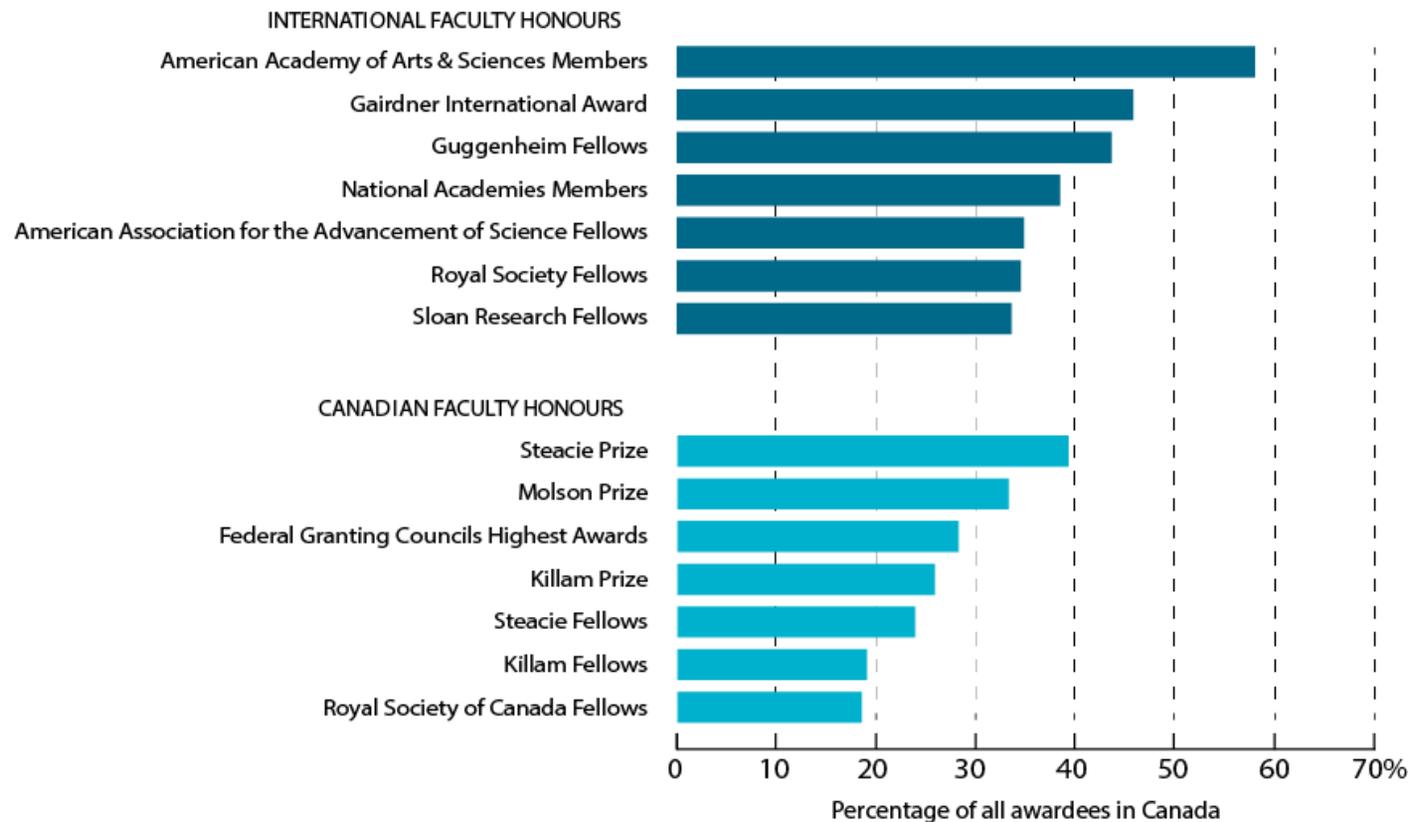
This continues a **steady upward trend** over the past 10 years.

Research Funds Awarded – Ten-Year Trend in Current Dollars U of T and Partner Hospitals



AWARD-WINNING FACULTY

Faculty Honours (1980-2013)



U of T faculty win more **prestigious national and international awards** than any other university in Canada.

PUBLICATIONS & CITATIONS

Research Output Compared to North American Peers (n = 76)

In the last six years, U of T has **moved up five places** in our rank on **citations in all fields**, compared to North American peers.

Compared to peer institutions *globally*, **U of T ranks second only to Harvard** on number of publications.

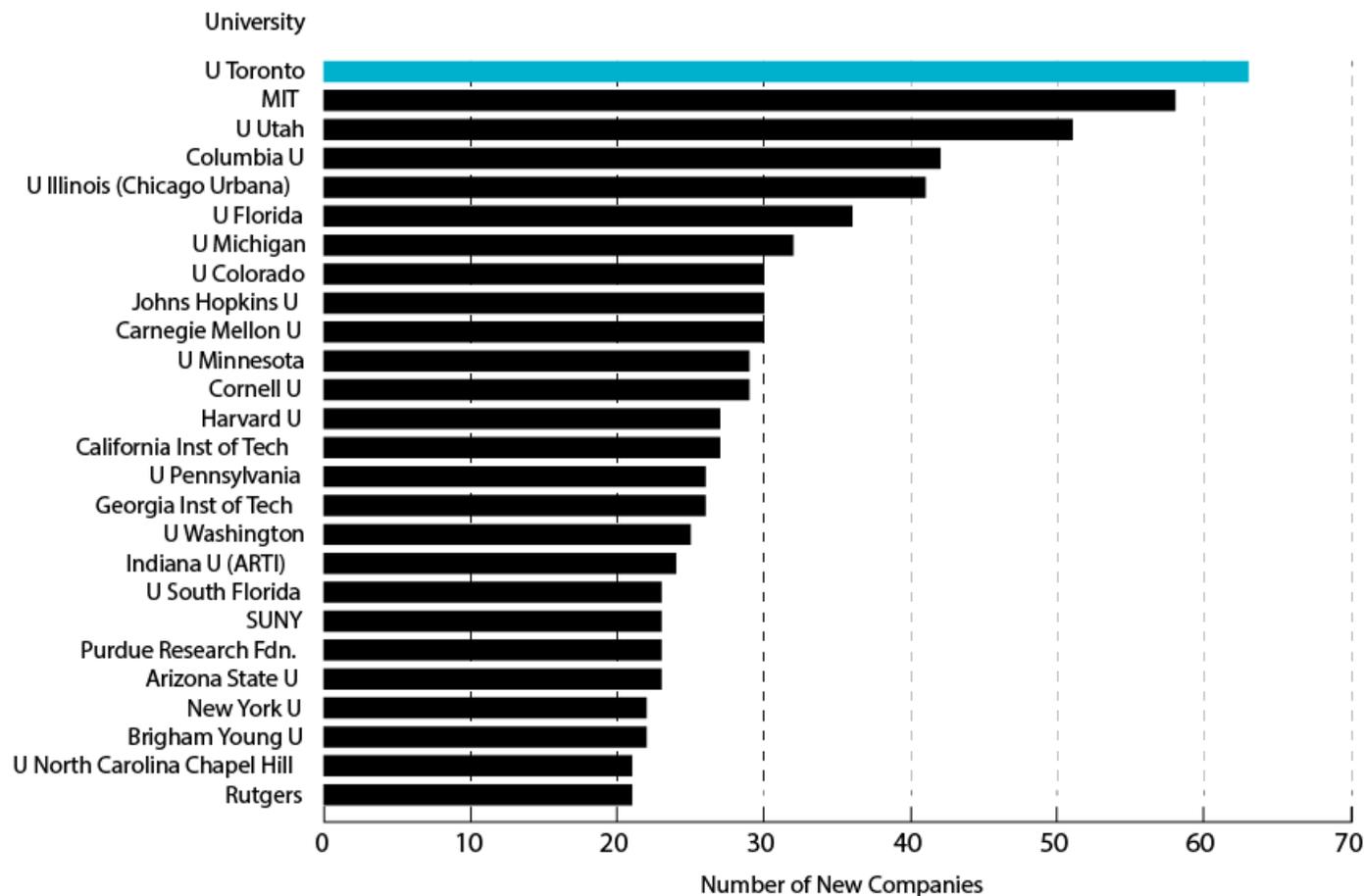
| | 2002–2006 | | 2008–2012 | |
|---|--------------|-----------|--------------|-----------|
| | Publications | Citations | Publications | Citations |
| All Fields | 2 | 7 | 2 | 2 |
| Health & Life Sciences | 2 | 4 | 2 | 2 |
| Engineering & Materials Sciences | 10 | 11 | 10 | 10 |
| Social Sciences | 5 | 10 | 2 | 5 |

GLOBAL UNIVERSITY RANKINGS



ENTREPRENEURISM & PARTNERSHIPS

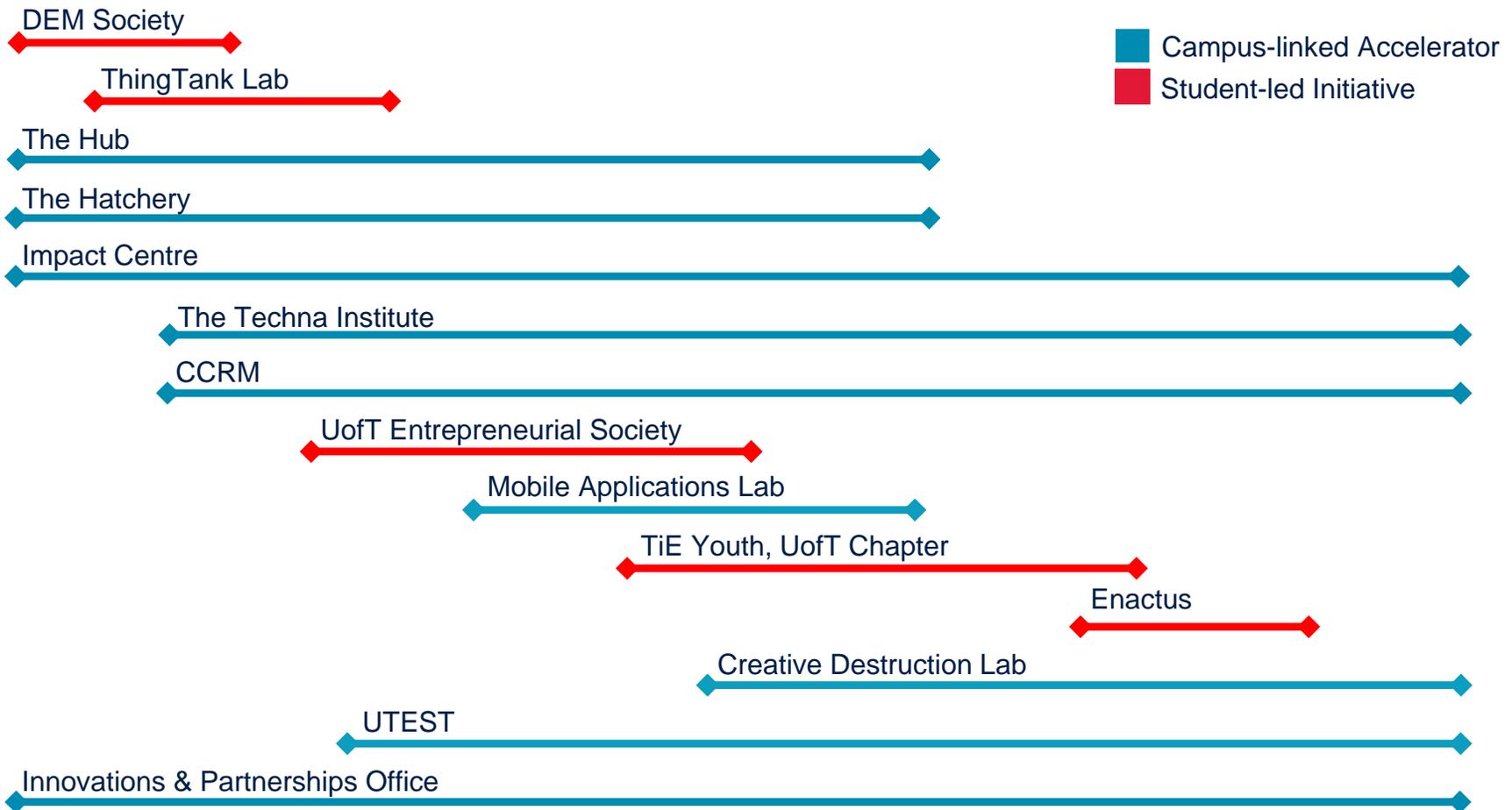
New Start-Up Companies (2009-10 to 2011-12)
U.S. & Canadian Universities



For the first time, U of T is **#1 in North America** for new start-up companies.

Industry sponsored research is projected to double to \$25M in the current decade.

U of T's ENTREPRENEURIAL ECOSYSTEM



OVERCOMING KEY CHALLENGES

With an ongoing mandate to leverage and enhance our research mission,

We continue to make progress in addressing three key institutional challenges outlined in last year's annual report.

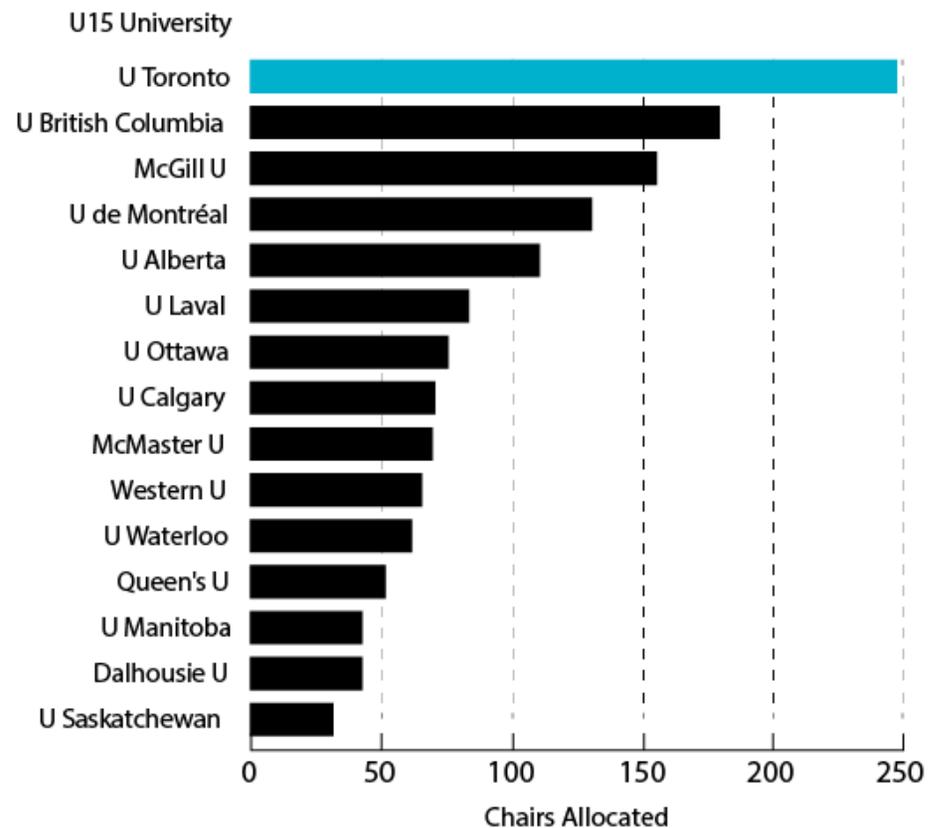
SUSTAINING CANADA RESEARCH CHAIRS

U of T has sustained **248 Chairs** through 2013-14 but we cannot become complacent.

Goal: To achieve and maintain 250 CRCs.



Canada Research Chairs
Regular Chairs Allocation (2013-14)
U15 Universities



SAFEGUARDING THE UNIVERSITY

Key investments in Research Oversight & Compliance include:

- 1. Prof. Lori Ferris, Associate Vice-President, Research Oversight & Compliance**

This new position was created to manage risks associated with research and to improve processes and resources.

- 2. Dr. David Hanwell, University Regulatory Veterinarian**

This new position will focus on regulatory compliance and oversight.

- 3. New tools for reporting and accountability**

Project RAISE will implement modules for research ethics protocols.

STRENGTHENING RESEARCH PARTNERSHIPS

We are **ahead of schedule** in our goal to double our private-sector funding by 2018-19.

We are on track to becoming the **top university in Canada** for industry sponsored research.

Increasing Private Sector Funding by 100% Over Ten Years

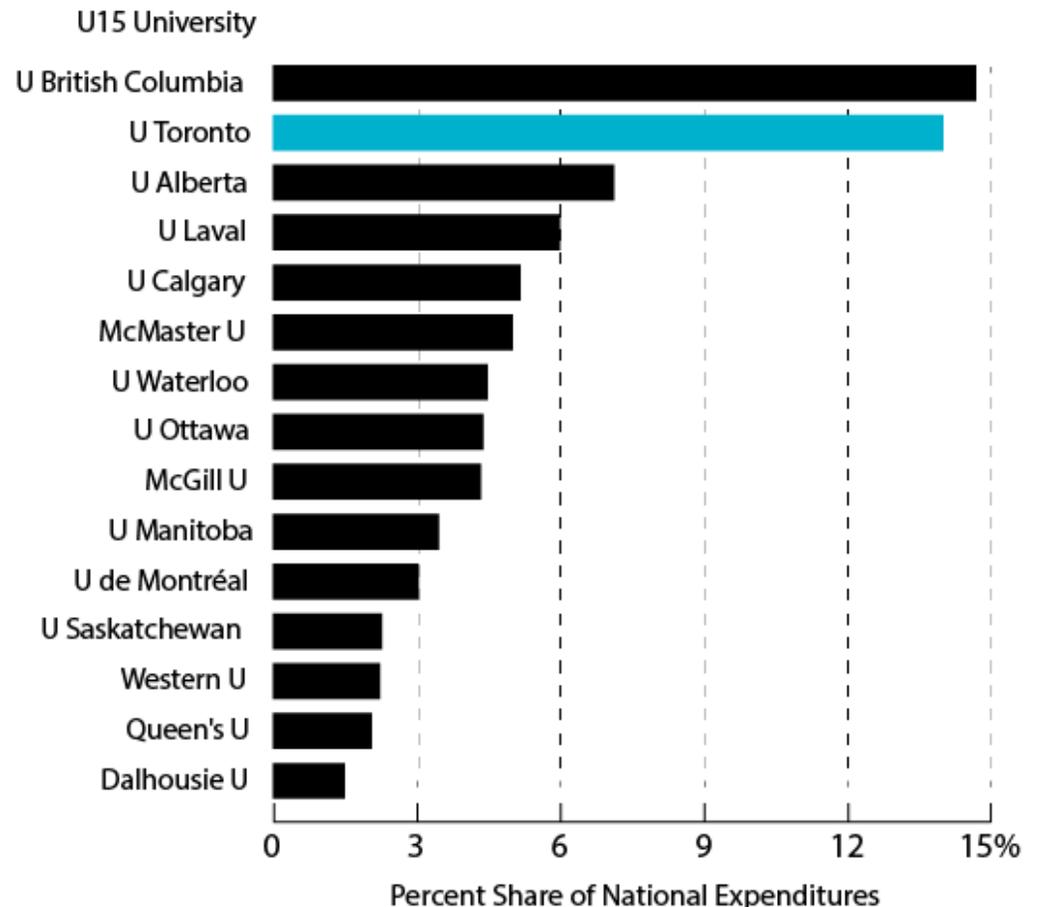


CASE STUDY: STRATEGIC FOCUS PAYS OFF

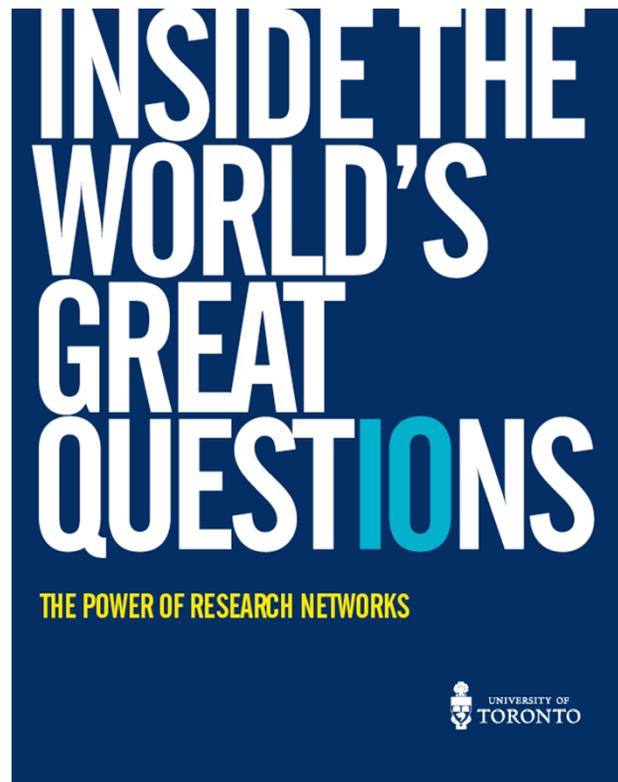
In 2007, U of T's funding from NCE reached a low of 10% of the national share.

With a strategic focus on expanding research partnerships, **today our share is 14%.**

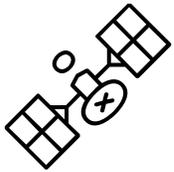
Networks of Centres of Excellence Expenditure (2009-10 to 2011-12) U15 Universities



THE POWER OF RESEARCH NETWORKS



THE POWER OF RESEARCH NETWORKS



Explore



Advance



Build



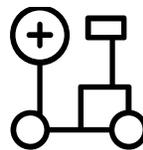
Promote



Sustain



Engage



Enable



UNIVERSITY OF
TORONTO

S SCIP

SOUTHERN ONTARIO SMART
COMPUTING INNOVATION PLATFORM

TWO YEARS OF IMPACTS

Key industrial partners:



Founding southern Ontario
partner universities:



Joint research
projects underway:



Projects with SME partners
(matched by the Ontario
Centres of Excellence):



Postdoctoral fellows
providing research and
technical expertise:



Related jobs created
so far, doubling initial
estimates:



LOOKING TO THE FUTURE

A key to achieving global impact will be leveraging the unique strengths of our research community,

While remaining committed to **supporting research excellence.**

CHALLENGES IN THE COMING YEAR

1. **Maintaining Canada Research Chairs**

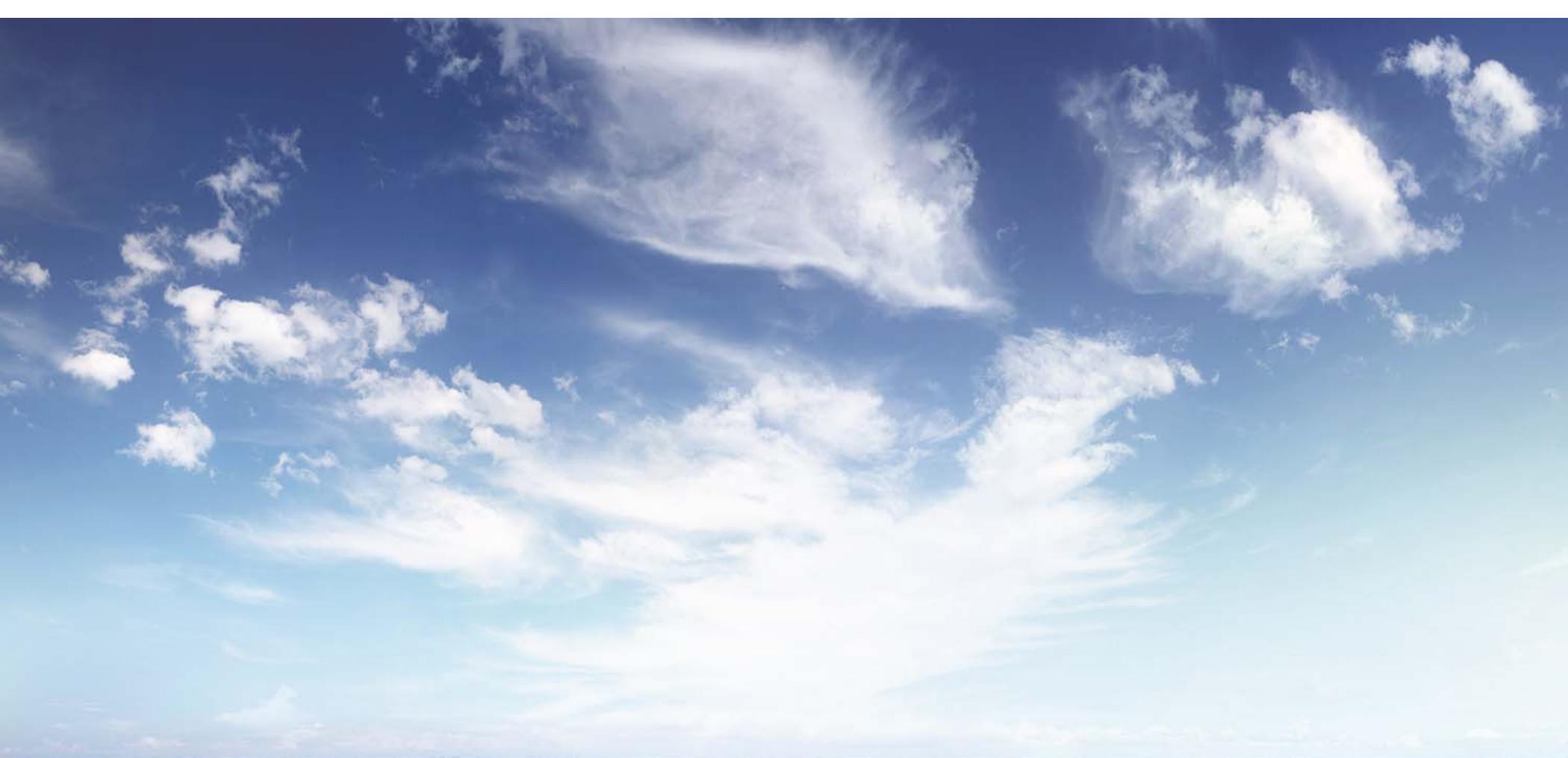
We are on track to realize our goal of 250 CRCs, but maintaining this level of funding will require a proactive strategy.

2. **Accessing partnerships funding and providing support for entrepreneurship**

Competition is fierce for partnerships programs funding; entrepreneurship is vibrant but could benefit from coordination.

3. **Remaining vigilant**

Meeting our ongoing obligations to research oversight and accountability will require continued vigilance.



CHARTING OUR COURSE





UNIVERSITY OF
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THANK YOU:

To the **Principal Investigators, students, administrative staff** and **academic champions** who have stepped up and kept us on a positive course toward global impact.

BOUNDLESS