

# CHARTING A COURSE FOR GLOBAL IMPACT

Leveraging our Unique Strengths

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THE POWER OF RESEARCH NETWORKS





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### THE U of T DIFFERENCE



Nearly **200 years of research excellence** in all disciplines, generating civic returns for Canada and the world. A collaborative and entrepreneurial research culture of faculty, post-doctoral fellows, graduate and undergraduate students, and highly trained staff. U of T research is a driver of change fuelled by a unique combination of curiosity, discovery, invention and solution.



#### **VPRI:** SUPPORTING RESEARCH EXCELLENCE





#### 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.

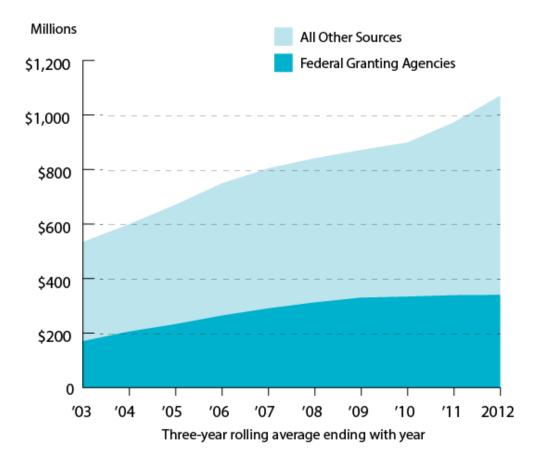


#### RESEARCH FUNDING

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



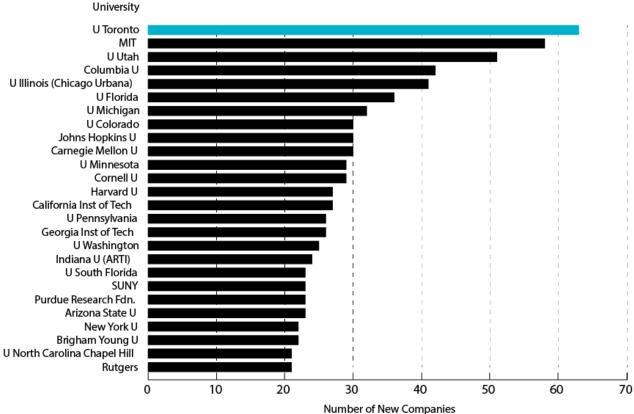
#### GLOBAL UNIVERSITY RANKINGS





## **ENTREPRENEURISM & PARTNERSHIPS**

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

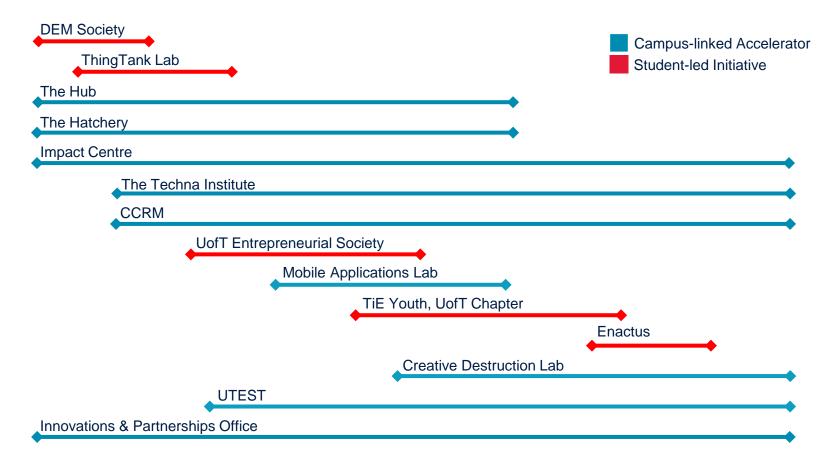


For the first time, U of T is **#1 in** North America for new start-up companies.

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.

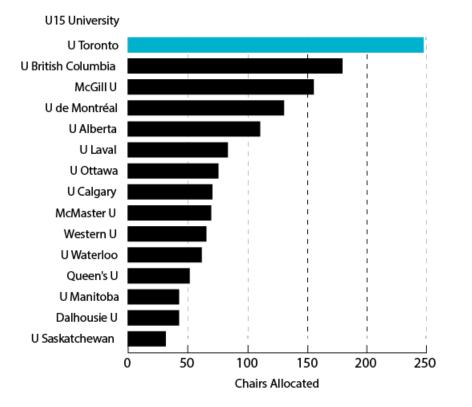




SUSTAINING CANADA RESEARCH CHAIRS

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:

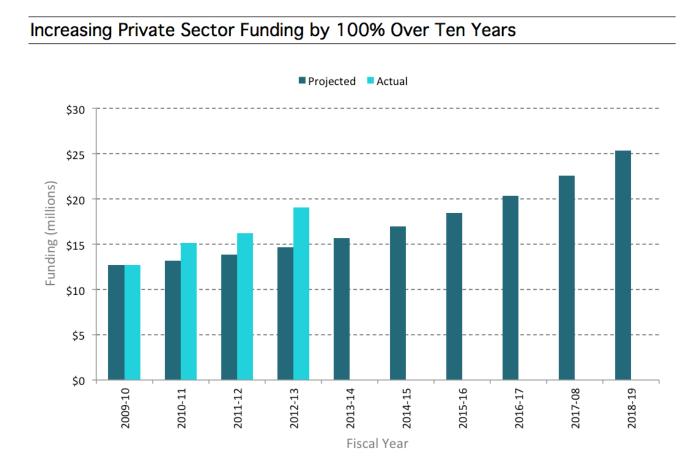
- Prof. Lori Ferris, Associate Vice-President, Research Oversight & Compliance
   This new position was created to manage risks associated with research and to improve processes and resources.
- 2. Dr. David Hanwell, University Regulatory Veterinarian This new position will focus on regulatory compliance 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 privatesector funding by 2018-19.

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



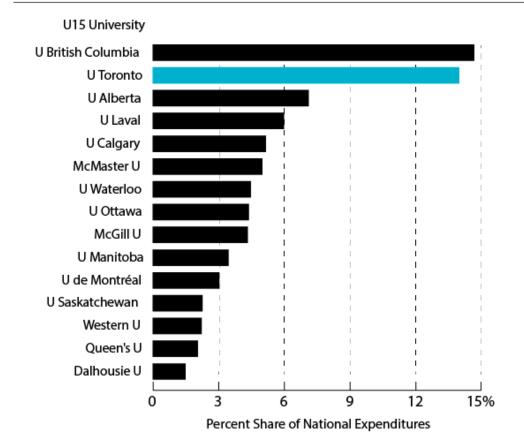


#### CASE STUDY: STRATEGIC FOCUS PAYS OFF

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

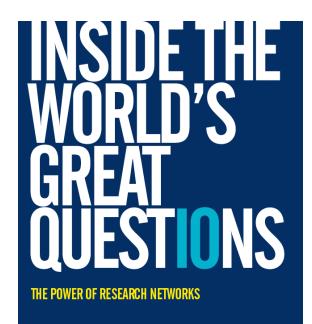
With a strategic focus on expanding research partnerships, today our share is 14%.

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





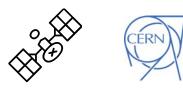
#### THE POWER OF RESEARCH NETWORKS



UNIVERSITY OF

UNIVERSITY OF TORONTO

### THE POWER OF RESEARCH NETWORKS



Explore



**Advance** 



Build



**Promote** 



**Sustain** 



Engage



Enable



#### SCIP ૡ૾ૼ૱ SOUTHERN ONTARIO SMART **COMPUTING INNOVATION PLATFORM**

**TWO YEARS OF IMPACTS**  Key industrial partners:

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IBM

Founding southern Ontario partner universities:

DHOH

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:

40 30 21 280 

























# 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

- 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 entrepreneurism Competition is fierce for partnerships programs funding; entrepreneurism 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



#### 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.

