Robert Haché, Vice-President Research & Innovation
December 11th, 2014
Research Performance:
Individual Research Success

Royal Society of Canada
College of New Scholars, Artists and Scientists

Senior Fellow

Priscila Uppal
Alidad Amirfazli
Sarah Flicker
Shayna Rosenbaum

President - The Academy of the Arts and Humanities

Professor Emeritus
Irving Abella
Research Performance:
Individual Research Success

<table>
<thead>
<tr>
<th></th>
<th>2011-2012 Total $</th>
<th>n</th>
<th>Ave $</th>
<th>2012-2013 Total $</th>
<th>n</th>
<th>Ave $</th>
<th>2013-2014 Total $</th>
<th>n</th>
<th>Ave $</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSERC DG</td>
<td>$6,086,000</td>
<td>48</td>
<td>$126,792</td>
<td>$6,700,000</td>
<td>45</td>
<td>$148,889</td>
<td>$6,094,800</td>
<td>30</td>
<td>$203,160</td>
</tr>
<tr>
<td>SSHRC IG</td>
<td>$3,238,123</td>
<td>22</td>
<td>$147,187</td>
<td>$4,818,304</td>
<td>26</td>
<td>$185,319</td>
<td>$5,473,526</td>
<td>25</td>
<td>$218,941</td>
</tr>
</tbody>
</table>
Research Performance:
Building a Culture of Research Excellence

Aligned with SRP Opportunities and Strengths.
Submitted October 10, 2014
• Tier I renewal
• Tier I new nomination
• 3 Tier II new nominations

Recruiting: 3 Tier I; 6 Tier II

York Research Chairs (YRC)
• Rounds 1 & 2
• Nominations in for 4 tier I; 4 Tier II chairs; plus 2 Faculty based chairs
• First Awards on track to be announced soon

Jesus Bermejo Tirado (LA&PS) Household Living Standards during the Severan Period.
Alexander Stasheuski (Science) Technology for Identification of Cancer Subtypes
Research Performance:
Building Capacity for Research Success

SSHRC CRSH

- 3 Partnership Grant Applications submitted Nov 3 = $7.5M
- 1 SSHRC PG (2012); 3 SSHRC PG (2013); 1 SSHRC PG (2014) total SSHRC PG awarded = $13.2M

INNOVATION.CA

- 6 applications total project value = $23M

NSERC CRSNG

- 2 Collaborative Research and Training Experience Program (CREATE) grants total NSERC awarded = $3.1M

CBERN lead: $25M
PREVNet co-lead: $25M
Research Performance:
Building Partnerships for Research Impact

Innovation York

542 agreements = $12.5M
30 applications = $5M
10 invention disclosures
30 commercialization projects
14 patents
1 company

- Supporting entrepreneurs in developing & growing start-up companies
International Recognition

Times Higher Education World Ranking 2014 (top 400 universities):

<table>
<thead>
<tr>
<th>Year</th>
<th>Social Sciences</th>
<th>Arts &amp; Humanities</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>301-350</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>276-300</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>226-250</td>
<td></td>
</tr>
</tbody>
</table>

York ranked in the top 100 universities in the world for our performance in both social sciences, and arts & humanities

<table>
<thead>
<tr>
<th>2014</th>
<th>World Ranking</th>
<th>Canadian Ranking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Sciences</td>
<td>95th</td>
<td>4th</td>
</tr>
<tr>
<td>Arts &amp; Humanities</td>
<td>97th</td>
<td>4th</td>
</tr>
</tbody>
</table>
International Recognition

CWTS Leiden Ranking 2014:

- Ranking measures the scientific performance of 750 major universities worldwide by publication and impact.
- 28 Canadian universities made the ranking this year- York University ranked #18 in Canada and #352 in the World.

<table>
<thead>
<tr>
<th></th>
<th>Canada Ranking</th>
<th>Ontario Ranking</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Sciences</td>
<td>18\textsuperscript{th}</td>
<td>6\textsuperscript{th}</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>7\textsuperscript{th}</td>
<td>2\textsuperscript{nd}</td>
</tr>
</tbody>
</table>

- All Sciences Canada Ranking: UVic – 4\textsuperscript{th}; UQAM – 9\textsuperscript{th}; SFU – 10\textsuperscript{th}
York’s National Rankings:
Research Intensity

<table>
<thead>
<tr>
<th></th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Funding</td>
<td>#22</td>
<td>#22</td>
<td>#21</td>
</tr>
<tr>
<td>Research Intensity</td>
<td>#38</td>
<td>#37</td>
<td>#39</td>
</tr>
</tbody>
</table>
National Publication Ranking 2012-2013
York University Comparator Institutions

Source: RE$EARCH Infosource Inc.

Note: smaller number = better score
York’s National Rankings: Research Intensity

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td># tenured &amp; probationary faculty</td>
<td>1382</td>
<td>1389</td>
</tr>
<tr>
<td># external grant &gt;$10K</td>
<td>402 (= 29.1%)</td>
<td>400 (28.8%)</td>
</tr>
</tbody>
</table>
FT Faculty Research Income Intensity 2012-2013
York University Comparator Institutions

Source: RE$EARCH Infosource Inc.

$000 per FT Faculty

- York University: $54.00, 39
- UQAM: $65.60, 31
- Carleton: $74.30, 28
- Simon Fraser: $124.30, 21
- University of Victoria: $178.00, 13
Research Performance
Building Total Sponsored Research Income

FY 2011-12
$67.28M

FY 2012-13
$72.04M

FY 2013-14
$79M

17% increase in research income growth over last 2 years
National Rankings: 2012-2013 Sponsored Research Income

* Sponsored research income: includes all funds to support research received in the form of a grant, contribution or contract from all sources (internal and external) to the institution.
National Rankings:
2012-2013 Sponsored Research Income Gap

Moving up one spot: #21 → #20 = + $31M (↑57%)

Doubling research income: $72M → $144M = #21 → #15

Research intensification challenge – double research income, and related intensification measures!

What would it take and how can we approach?
Task Force on Sustainability Research

Public Engagement for a Just and Sustainable World

- research that informs and addresses a range of challenges in urban environments such as governance, planning, land use, infrastructure, economy, security, educational engagement, transportation energy and quality of life

Draft Report to be released to the community for comment in February 2015

Jennifer Foster, Faculty of Environmental Studies
Chair, Task Force on Sustainability
How to Further Promote the Intensification of Research

White Paper 2010-2020

UAP 2010-2015

SRP 2013-2018

Research Intensification Plan

AAPR, IRP, SHARP
York Research Intensification Plan

Consultations will drive the development of recommendations. Recommendations may be expected to cluster according to themes.

1. Growing a Culture of Expectations
2. Investing in and Promoting People
3. Supporting Research Growth and Development
4. Leadership in Research and Research Advocacy
5. Building Research for the Future

*Implementation will be supported by unit level planning identifying targets and anticipated outcomes*
Seizing Canada's Moment
Moving Forward in Science, Technology and Innovation 2014

5 Priority Areas
- Environment and Agriculture
- Health and Life Sciences
- Natural Resources and Energy
- Information and Communications Technology
- Advanced Manufacturing

- Environment and Agriculture
  - Water: Health, Energy, Security
  - Biotechnology
  - Aquaculture
  - Sustainable methods of accessing energy and mineral resources from unconventional sources
- Food and food systems
- Climate change research and technology
- Disaster mitigation
Canada First Research Excellence Fund  
(Launched Dec 2014)

$1.5 Billion over $10 years

The Fund to help institutions:

• compete with the best in the world for talent, for partnership opportunities, and to make breakthrough discoveries;
• seize emerging opportunities and strategically advance their greatest strengths on the global stage; and
• implement large-scale, transformational and forward-thinking institutional research projects
Canada First Research Excellence Fund

- First Competition March 2015 (7 yrs @ $50M/yr)

- Selection Criteria (must score excellent in each)
  - scientific merit and demonstrated capacity to lead on an international scale;
  - strategic relevance to Canada; and
  - quality of implementation plan

• "proposals will ultimately be differentiated based on the potential of a proposed initiative to achieve globally leading research outcomes in areas of long-term economic advantage for Canada."

• "only initiatives aligned with the Government’s priority research areas will be funded"
Questions ?