

Funding the Next Generation of Scientists



Findings from two recent reports Presented by the CSMB



Canada's Fundamental Science Review

- Found that Canada's research competitiveness has eroded
- Found weak co-ordination within the research ecosystem

Tri-council federal funding (CIHR, NSERC, SSHRC) is held by:

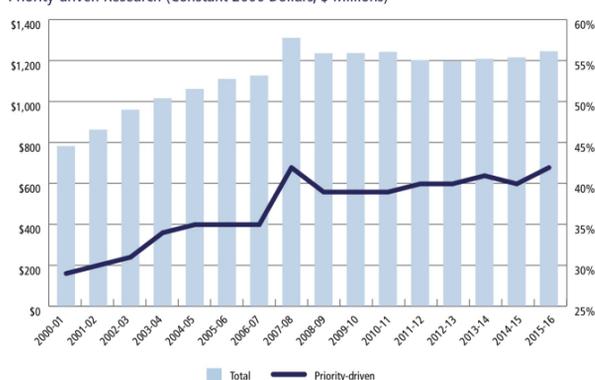
6000 PhD Students



1400 Postdoctoral Fellows



Exhibit 6.1: Overall Granting Council Research Funding, and Proportion for Priority-driven Research (Constant 2000 Dollars, \$ Millions)

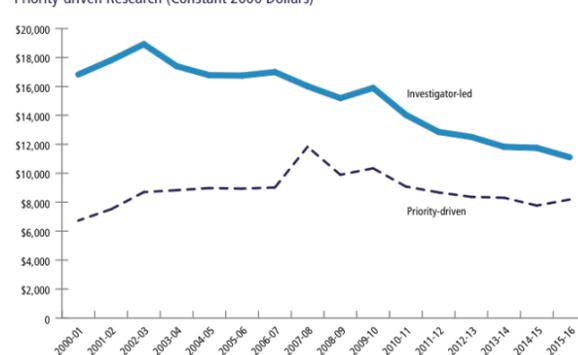


Federal support has flatlined over the last ten years



... deeply affecting investigator-led research programs

Exhibit 6.2: Granting Council Funding per Researcher for Investigator-led and Priority-driven Research (Constant 2000 Dollars)



Recommends a **\$485 M INVESTMENT** Over 4 years To address current funding gaps



Including **\$140 M** To increase trainee numbers and boost diversity



"Moreover, those students will be much better prepared to write their own stories in a world full of the challenges left by our generation."

Visit www.sciencereview.ca for more



Global Young Academy The View from the Bench

- Reflects the perspectives of 1300 Canadian researchers
- Focused on the decline of fundamental research in Canada

Success Rates: from 2005 to 2015



CIHR

28 → 14%



SSHRC

40 → 23%

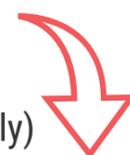


NSERC

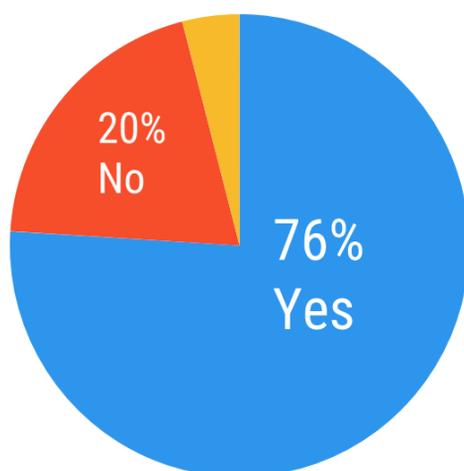
A less significant decrease overall: drastic to fundamental research, while applied research \$ doubled

6% believe that recent funding adjustments are sufficient to inspire **considerably more** young Canadians to choose a research career

60% believe it will result in **fewer** (35% considerably)



Has the current CIHR environment had a negative impact on your ability to recruit graduate students?



"I have lost promising graduate students in the past five years who informed me that the primary reason for leaving an academic career path was because of trends in funding. Essentially, we are losing the top scientists of the next generation."
– Senior academic, natural sciences

"Whether or not the next generation pursues careers in research in my country will likely depend on the restoration of direct scholarship funding. Without it, there is no compelling reason for top students to stay here."
– Senior academic, engineering

Recommends closing the funding gap of

\$459 M (restoring the research ecosystem to 2005 levels)

as a "sensible starting point"

"But achieving real leadership on the global stage would require Canada to more than double its investments in research"

1.6% GDP to 4% GDP



Leaders

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