

# Research Update – Summer 2023

Malcolm M. Campbell  
Vice-President Research  
June 22, 2023

UNIVERSITY  
of GUELPH

IMPROVE LIFE.



# Research update.

- 01 Successes.
- 02 Challenges.
- 03 Strategy.
- 04 Q&A.



# Research update.

01 **Successes.**

02 Challenges.

03 Strategy.

04 Q&A.



# OUR RESEARCH VISION



UNIVERSITY  
of GUELPH

**Strategic Research Plan**

University of Guelph  
2017-2022

IMPROVE LIFE.

UNIVERSITY  
of GUELPH

# “Our Research Vision” successes (2017-2022)

- Amongst top research-intensive universities in Canada
  - 1<sup>st</sup> most research-intensive amongst comprehensive, non-medical universities
  - 2<sup>nd</sup> for research funding amongst comprehensive, non-medical universities, and in the top 17 for all Canadian universities
- Turned Tri-Agency Funding around – now on an upward trajectory
- Secured and stewarded the largest research grants in UofG history
- Retained national leadership in conversion of research into innovation, especially for commercialized innovations
- Increased global research reputation across many disciplines
- Increased Canada Research Chairs, Research Support Fund, and Canada Foundation for Innovation allocations
- Sustained a very active research enterprise throughout pandemic
- Secured critical partners, nationally and internationally, including renewal of \$400M+ OMAFRA agreement
- Significant positive changes in IEDI in research

# University of Guelph Research

## U OF G SHARES TRI-AGENCY INCOME (CAUBO/FIUC DATA)

Proportion of total income

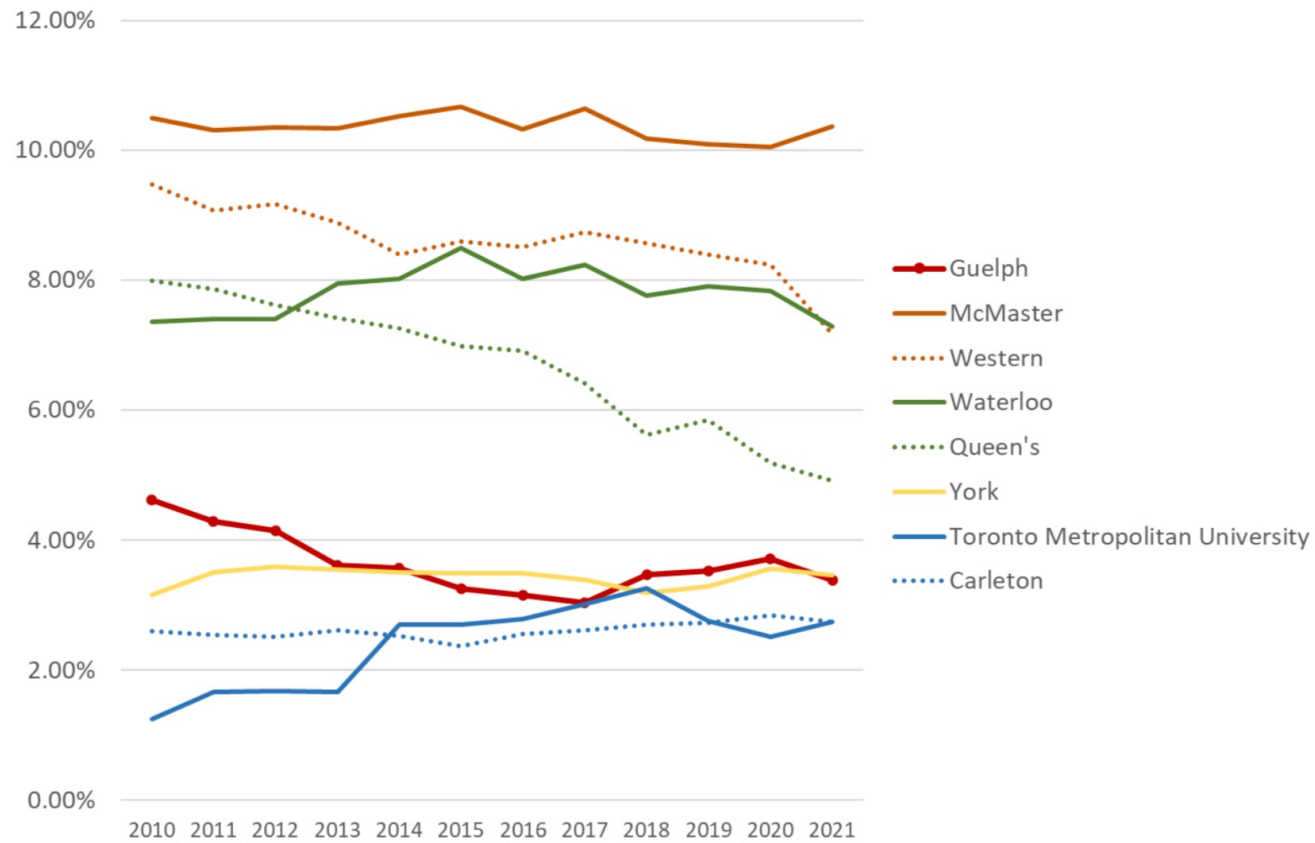


Proportion of total income



# University of Guelph Research

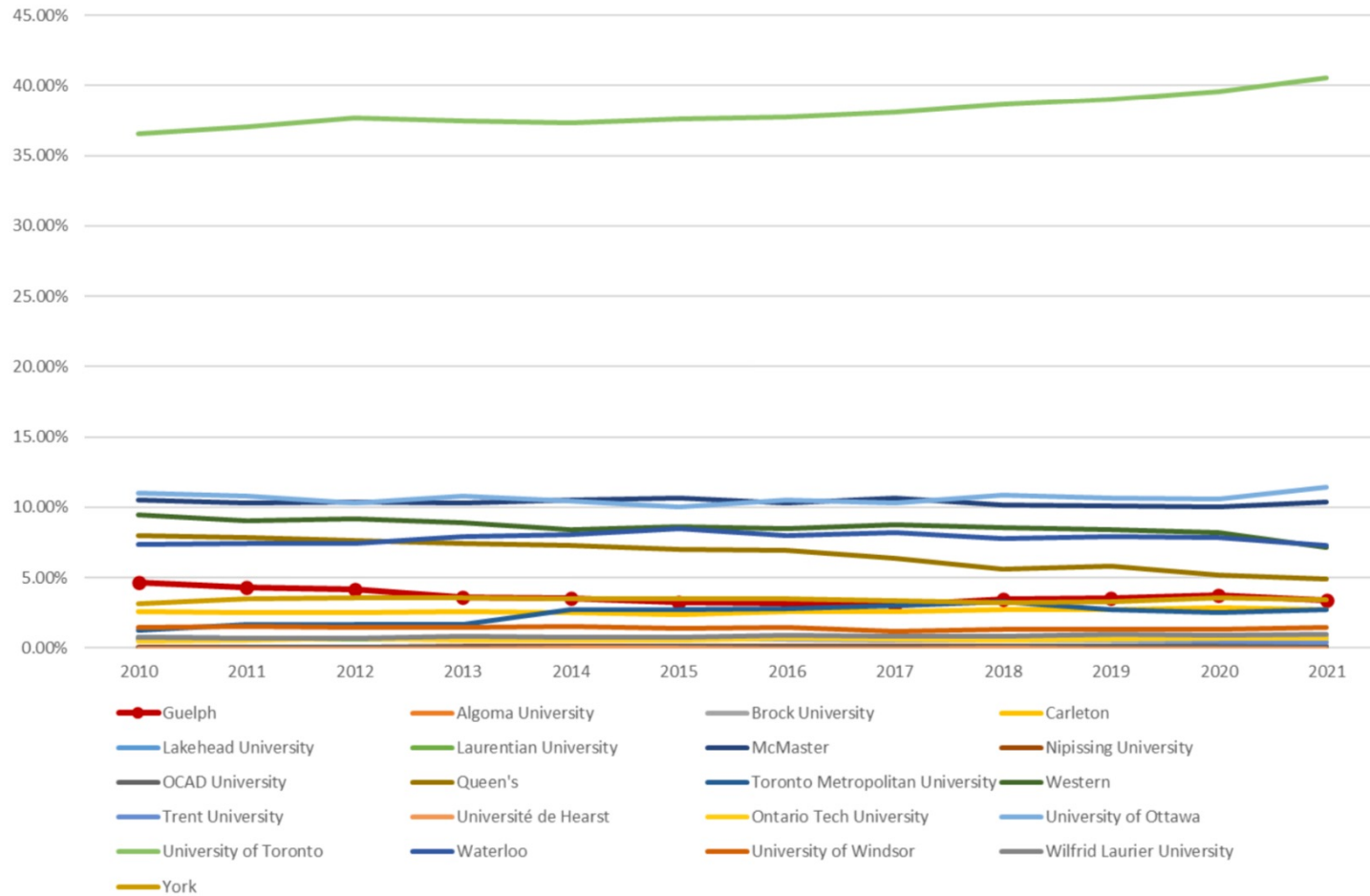
U of G Provincial Share of Tri-Agency Research Funding  
vs. Selected Peers for Comparison



# University of Guelph Research

## Ontario Universities' Provincial Shares of Tri-Agency Research Funding

based on RSF credit data to FY2021





# University of Guelph Research

## U OF G SHARES TRI-AGENCY INCOME (CAUBO/FIUC DATA)

Proportion of total income



Proportion of total income



# University of Guelph Research

CANADA'S TOP  
**50**  
RESEARCH  
UNIVERSITIES

**RESEARCH**  
InfoSource Inc.  
Canada's Source of R&D Intelligence

NSERC Research Income		
Rank	University	\$000
1	University of Waterloo	\$271,075
2	Simon Fraser University	\$114,826
3	University of Guelph	\$114,765
4	University of Victoria	\$90,493
5	Carleton University	\$86,871

CIHR Research Income		
Rank	University	\$000
1	Simon Fraser University	\$55,952
2	York University	\$38,044
3	University of Waterloo	\$31,991
4	University of Victoria	\$29,150
5	University of Guelph	\$19,407

SSHRC Research Income		
Rank	University	\$000
1	York University	\$76,166
2	Université du Québec à Montréal	\$53,887
3	Simon Fraser University	\$49,196
4	Carleton University	\$47,366
5	University of Waterloo	\$41,858
6	University of Victoria	\$38,364
7	Concordia University	\$34,848
8	University of Guelph	\$30,762



# University of Guelph Research



## Corporate Research Income FY2021

Rank	University	\$000
1	University of Waterloo	\$25,776
2	University of Guelph	\$18,032
3	University of Victoria	\$8,531
4	Simon Fraser University	\$8,291
5	Université du Québec à Montréal	\$7,954

## Not-for-Profit Research Income FY2021

Rank	University	\$000
1	Simon Fraser University	\$24,867
2	University of Waterloo	\$19,795
3	University of Guelph	\$13,122
4	University of New Brunswick	\$8,063
5	Toronto Metropolitan University	\$7,782

# University of Guelph Research



Research Income FY2021		
Rank	University	\$000
1	University of Waterloo	\$221,029
2	University of Guelph	\$182,768
3	Simon Fraser University	\$171,611
4	University of Victoria	\$123,708
5	York University	\$105,541

Research Income Growth % Change FY2020-FY2021		
Rank	University	%
1	Concordia University	25.2
2	Carleton University	12.7
3	University of Guelph	11.2
4	University of New Brunswick	10.0
5	University of Windsor	7.5

# University of Guelph Research



RU (FY2021) Tier Rank	University	Total Sponsored Research Income		Research Intensity \$ per Faculty		Research Intensity \$ per Graduate Student		Total Number of Publications		Publication Intensity		Publication Impact		TOTAL SCORE
		Rank	Pts	Rank	Pts	Rank	Pts	Rank	Pts	Rank	Pts	Rank	Pts	
1	University of Waterloo	1	20.0	3	16.6	4	5.9	1	20.0	1	20.0	3	9.7	92.3
2	University of Guelph	2	16.5	1	20.0	1	10.0	2	12.1	2	17.7	4	8.5	84.9
3	Simon Fraser University	3	15.5	2	17.6	3	6.0	3	10.3	4	13.6	1	10.0	73.0
4	University of Victoria	4	11.2	4	14.8	2	7.1	4	9.0	3	14.5	2	9.8	66.4



# University of Guelph Research

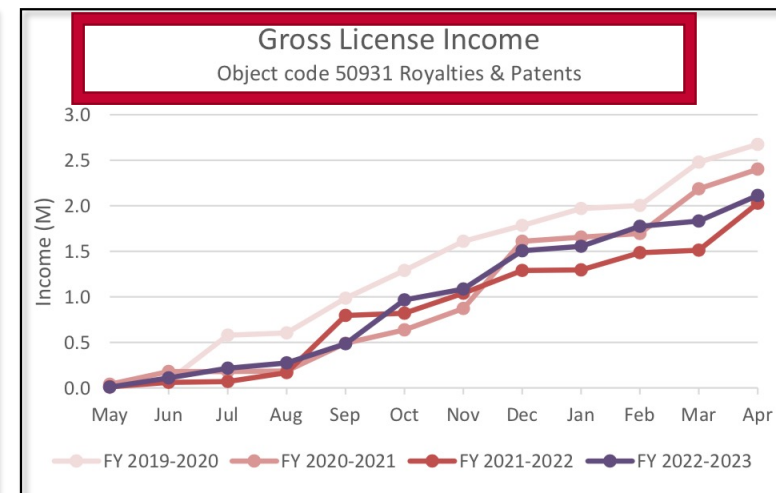
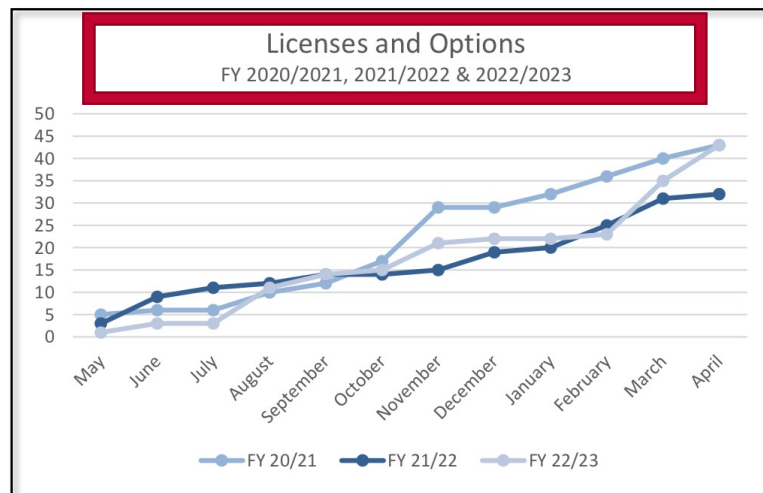
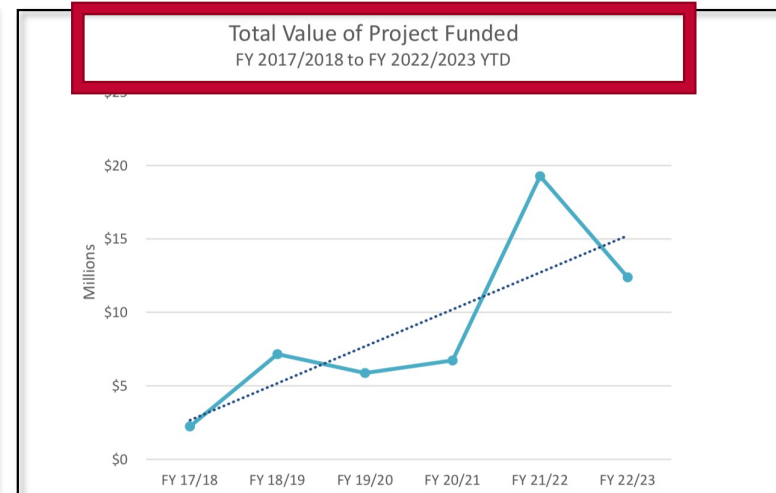
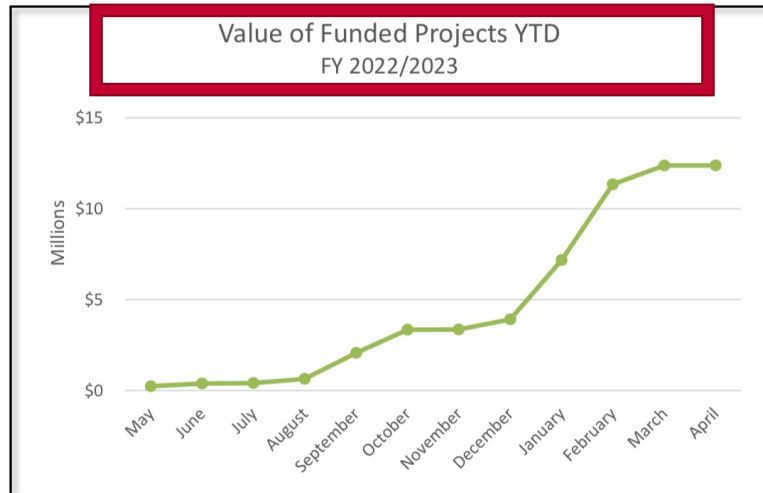


Faculty Research Intensity FY2021 (\$ per Faculty)		
Rank	University	\$000
1	University of Guelph	\$216.3
2	Simon Fraser University	\$189.8
3	University of Waterloo	\$179.8
4	University of Victoria	\$160.0
5	University of New Brunswick	\$122.1

Graduate Student Research Intensity FY2021 (\$ per Graduate Student)		
Rank	University	\$000
1	University of Guelph	\$60.0
2	University of Victoria	\$42.5
3	Simon Fraser University	\$36.0
4	University of Waterloo	\$35.3
5	University of New Brunswick	\$35.2



# University of Guelph Research & Innovation



# Growing University of Guelph Successes 2023

## **Equity, Diversity & Inclusion**

- Financial support for EDI in Research
  - \$50k/year in total, for next two years (pilot)
  - Embedded within the Robbins Ollivier Award for Excellence in Equity process

## **Elevate Excellence**

- Major annual program results: CIHR project, SSHRC PDG; NSERC DG & RTI
- Awards and honours: Killam Prize for Ajay Heble

## **Promote Partnership**

- OMAFRA-UofG Agreement renewal: Signed March 15; 5y agreement; \$343M investment, >\$450M value

## **Increase Impact**

- Created new Research Commercialization Policy, and followed up with Annual Research Commercialization Plan – focused support system for research with commercial application



# Research update.

01 **Successes.**

02 Challenges.

03 Strategy.

04 Q&A.



# Research update.

- 01 Successes.
- 02 **Challenges.**
- 03 Strategy.
- 04 Q&A.



# University of Guelph Challenges

## **Indigenisation, Equity, Diversity & Inclusion**

- Policies, practices, supports

## **Elevate Excellence**

- Tri-agency success and funding levels
- Awards and honours: supports for nominations
- Need for new research infrastructure

## **Promote Partnership**

- OMAFRA-UofG Agreement: diminished value on account of inflation
- Research Security / Safeguarding Research

## **Increase Impact**

- Research Security / Safeguarding Research

## **Creating the Research Leaders of Tomorrow**

- Tri-agency success and funding levels – federal funding support

# University of Guelph Challenges

## **Research Ethics**

- Addressing matters raised by REB Review Working Group

## **Animal Care**

- Canadian Council on Animal Care (CCAC) animal care review – four serious recommendations – awaiting CCAC formal letter for details

## **Responsible Conduct of Research**

- Emerging cases, bandwidth for caseload, time overruns

## **Research security / Safeguarding research**

- Deeper scrutiny and oversight – federal, provincial, and university Board
- Shifting federal and provincial requirements
- Until recently has been an unfunded mandate

# University of Guelph Challenges

## Resourcing in an environment of constraints / strategic transformation

- Staffing
- Digitisation
  - Digital workflow solutions – enterprise level systems
- New opportunities
  - New federal programs
  - New partnerships
- New, unfunded mandates
  - Research security (federal government has provided relief here - \$350k)
  - Research commercialization

**Opportunity**

# Research update.

- 01 Successes.
- 02 **Challenges.**
- 03 Strategy.
- 04 Q&A.



# Research update.

- 01 Successes.
- 02 Challenges.
- 03 **Strategy.**
- 04 Q&A.



# OUR RESEARCH VISION



UNIVERSITY  
of GUELPH

## Strategic Research Plan

University of Guelph  
2017-2022

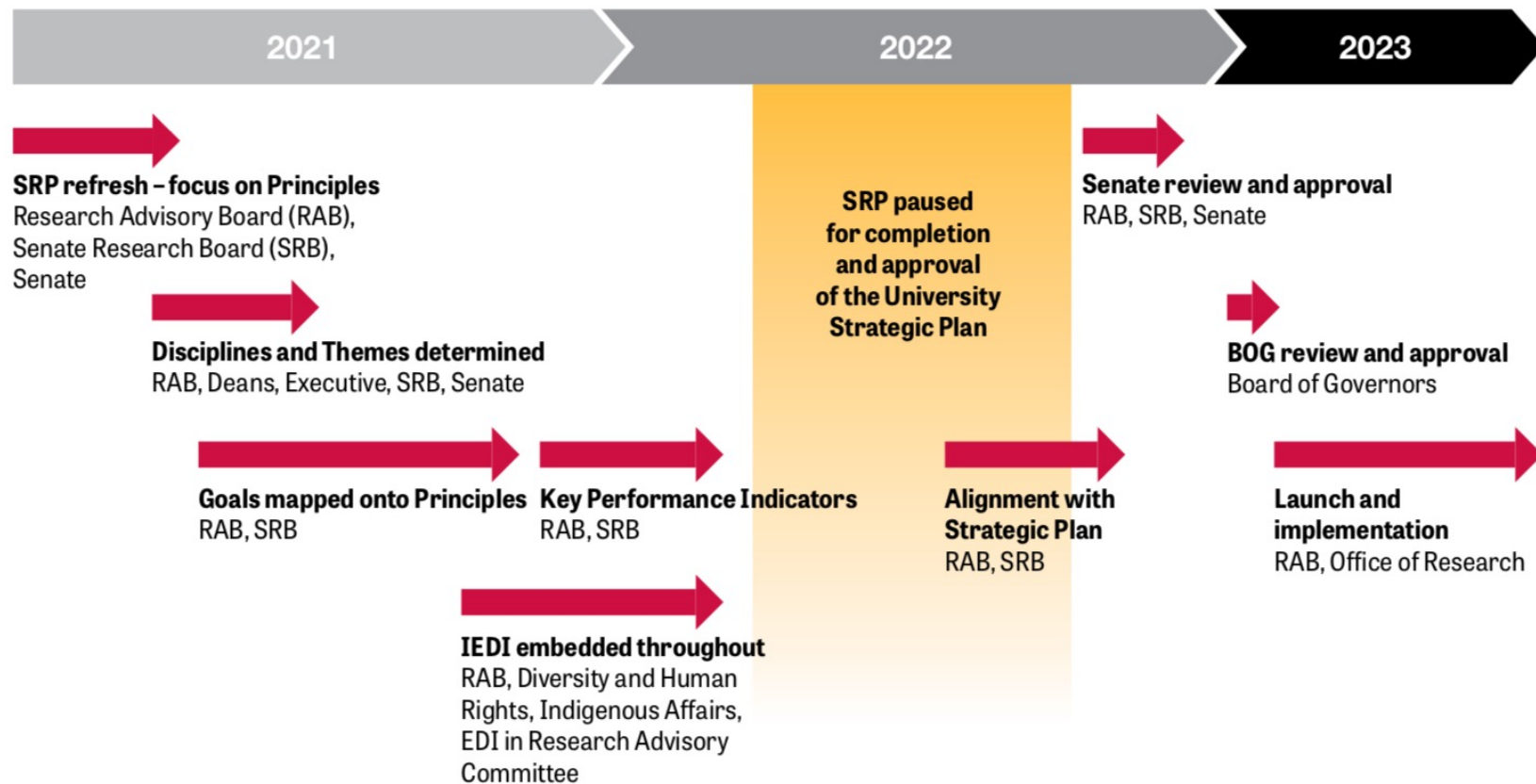
IMPROVE LIFE.

UNIVERSITY  
of GUELPH



# Strategic Research Plan

## Timeline for new SRP development



# Strategic Research Plan

UNIVERSITY *of* GUELPH

## FROM IDEA TO IMPACT

STRATEGIC RESEARCH PLAN  
2023–2028

April 2023



IMPROVE LIFE.

UNIVERSITY  
of GUELPH

# Strategic Research Plan

## Disciplines and Themes from “*From Idea to Impact*”

The discipline–theme matrix

**Disciplines**  
Natural divisions of scholarly activity, sometimes, but not necessarily uniquely, embodied by Colleges.

**Themes**  
Themes transcend the boundaries defined by disciplines, and are interdisciplinary or transdisciplinary in nature.

These activities are not necessarily mutually exclusive.

	ARTS, HUMANITIES, SOCIAL SCIENCE	SCIENCE, TECH, ENGINEERING, MATHEMATICS	AGRICULTURE	VETERINARY MEDICINE	BUSINESS
FUNDAMENTAL: DISCOVERY					
APPLIED: INNOVATION AND CREATIVITY					
FOOD					
ONE HEALTH					
THE ENVIRONMENT					

# Strategic Research Plan

Principles from “*From Idea to Impact*”



Elevate excellence



Promote partnership



Increase impact



Create the research leaders of tomorrow



Embed research in all we do

# Strategic Research Plan

Principles from “*From Idea to Impact*”



Elevate excellence

IEDI at the fore, and infused throughout



Promote partnership



Increase impact

Explicit goals



Create the research leaders of tomorrow

Key Performance Indicator accountability



Embed research in all we do

# Research update.

- 01 Successes.
- 02 Challenges.
- 03 **Strategy.**
- 04 Q&A.



# Research update.

- 01 Successes.
- 02 **Challenges.**
- 03 Strategy.
- 04 Q&A.



# Research update.

01 **Successes.**

02 Challenges.

03 Strategy.

04 Q&A.





# Research update.

- 01 Successes.
- 02 Challenges.
- 03 Strategy.
- 04 **Q&A.**



Questions?