

Office of the Vice-Principal Research & Innovation's  
Annual Report  
April 2022-March 2023:

**Transforming**

**UTSC's vision is to constructively disrupt the status quo, connect the world, and advance transformative change for the good of all.**

**UTSC is transforming the campus to improve the health of people and the planet by integrating the UN SDGs into the DNA of our campus.**



## Five design aspirations are guiding this transformation.

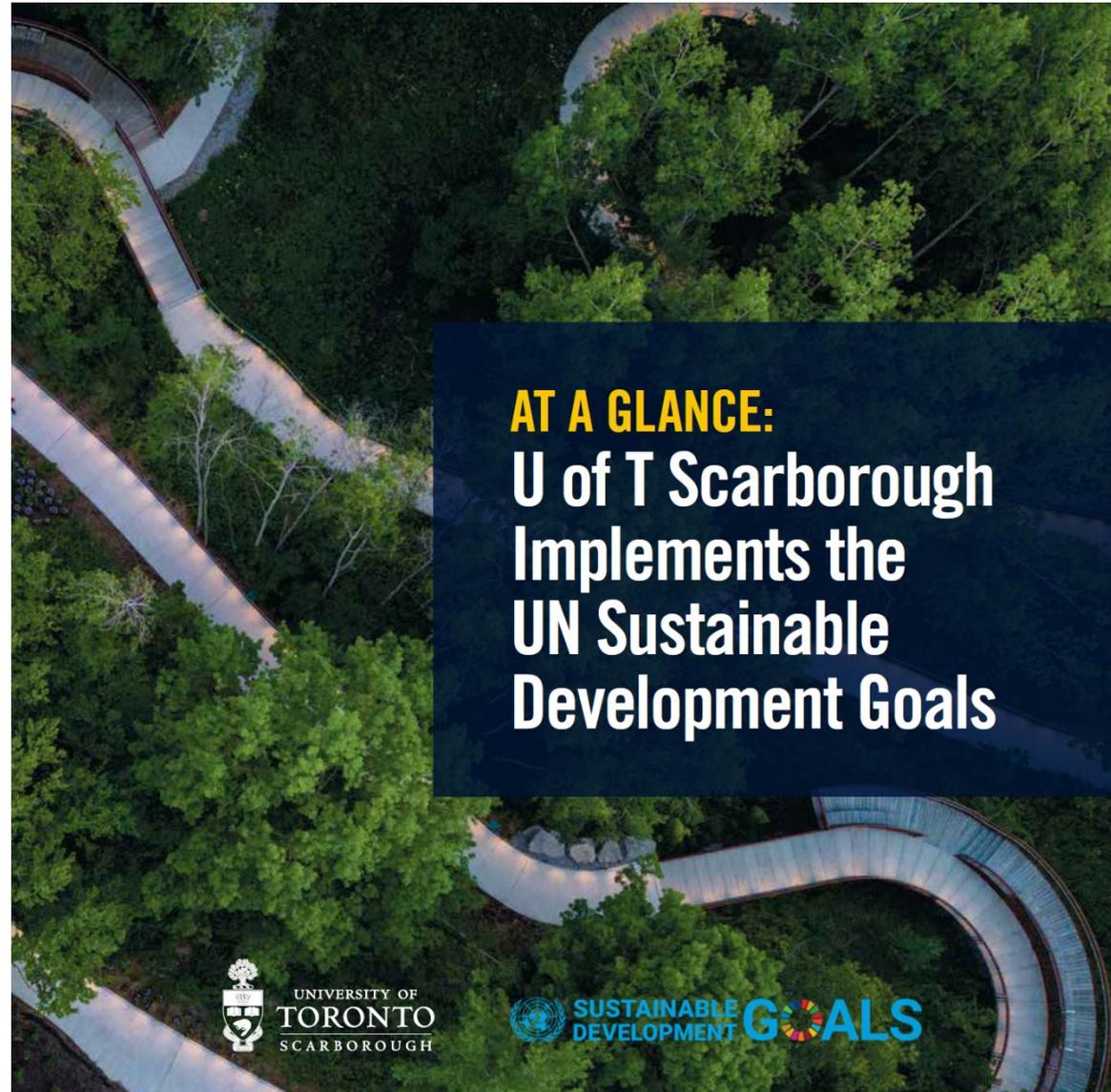
- 1. Leverage our place**
- 2. Model the way**
- 3. Capitalize on strengths**
- 4. Empower action**
- 5. Catalyze Social Change**

**We are a global leader in sustainability!**

**U of T ranked 2nd in the world in first-ever QS sustainability ranking!**



We recently celebrated our successes in sustainability at UTSC.



**AT A GLANCE:**  
**U of T Scarborough  
Implements the  
UN Sustainable  
Development Goals**



**We are enabling additional progress.**

**One way is to help achieve the  
transformation is via the  
“institutes for Resilient and Inclusive  
Societies and Ecosystems.”**

**iRISE**

# We engaged in a number of conversations with the UTSC community about iRISE and its inaugural institutes.

iRISE

Institute for Environment, Conservation, & Sustainability



**Imre Szeman,**  
Director,  
Professor, Human  
Geography

Institute for Inclusive Health & Well-Being



**Charles Trick**  
Interim Director,  
Professor, Health  
and Society

Institute for Inclusive Economies & Sustainable Livelihoods



**Caroline Hossein**  
Interim Director,  
Associate  
Professor, Global  
Development  
Studies



**Sergio Montero Munoz**  
Incoming Director  
Associate Professor,  
Human Geography

We estimate **almost 2,000** members of the UTSC campus community and the broader U of T community were consulted

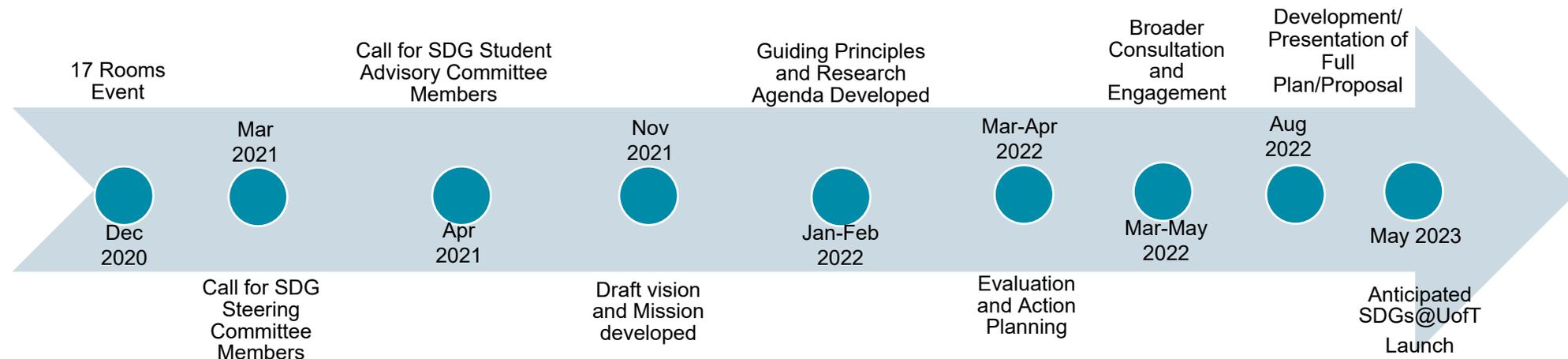
# We also led an institutional strategic initiative (ISI) on the SDGs.

## SDGs @ U of T

Academic Lead: Erica Di Ruggiero



Associate Professor,  
Dalla Lana School of Public Health,  
Health and Society



Approved **May 12, 2023**

# The SDGs@UofT will focus on four research themes.

**Establish  
transition  
pathways to  
achieve the  
SDGs**

**Explore  
tensions and  
synergies  
among the  
SDGs**

**Measure  
progress  
towards  
achieving the  
SDGs**

**Design  
instruments  
and  
interventions  
to rethink the  
SDGs**

**SDGs Scholars Academy  
synthesis and catalyst grants**

**We applied for a CERC in Sustainability Transitions.**

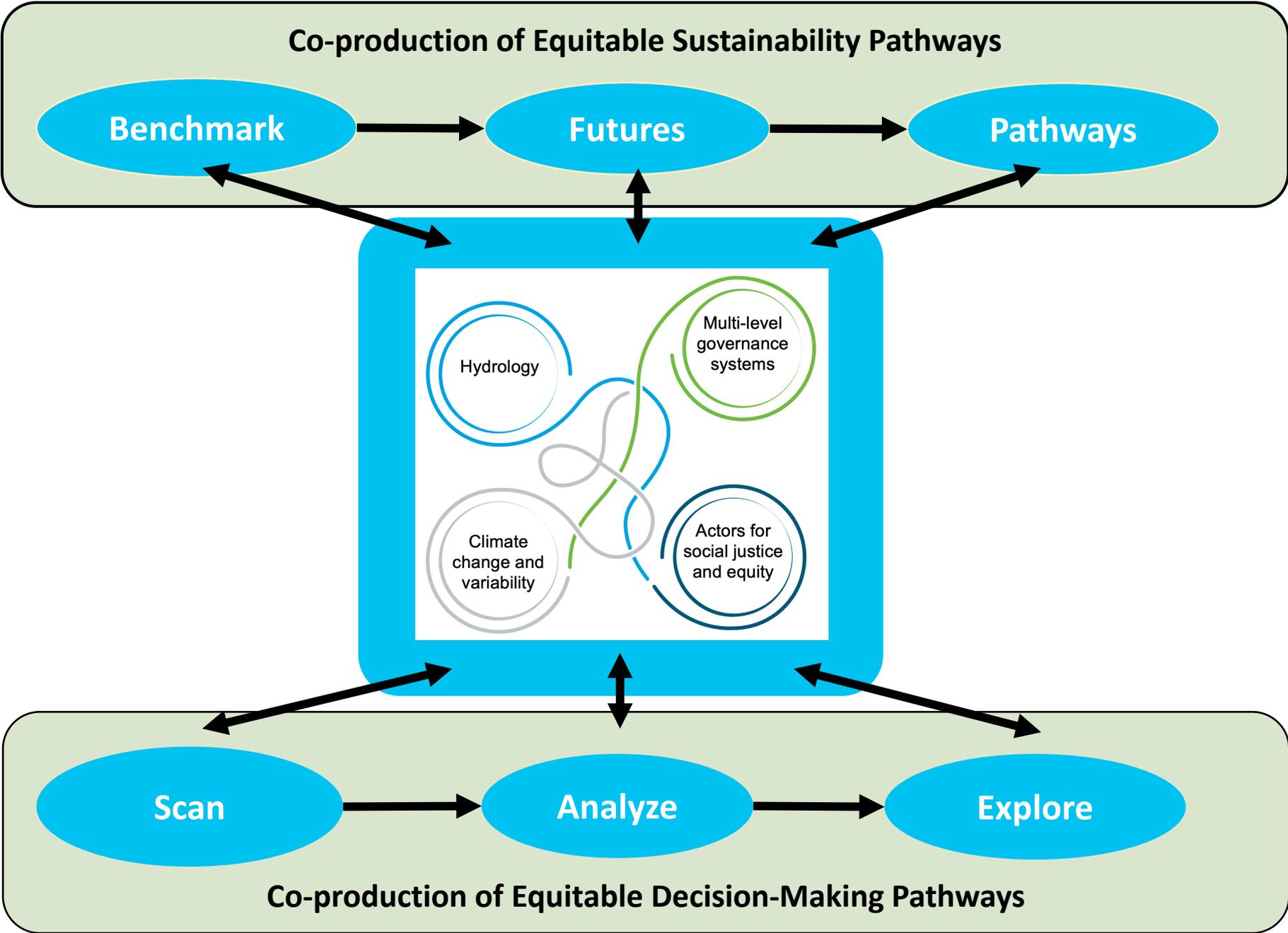
**Dr. Patricia Romero-Lankao**



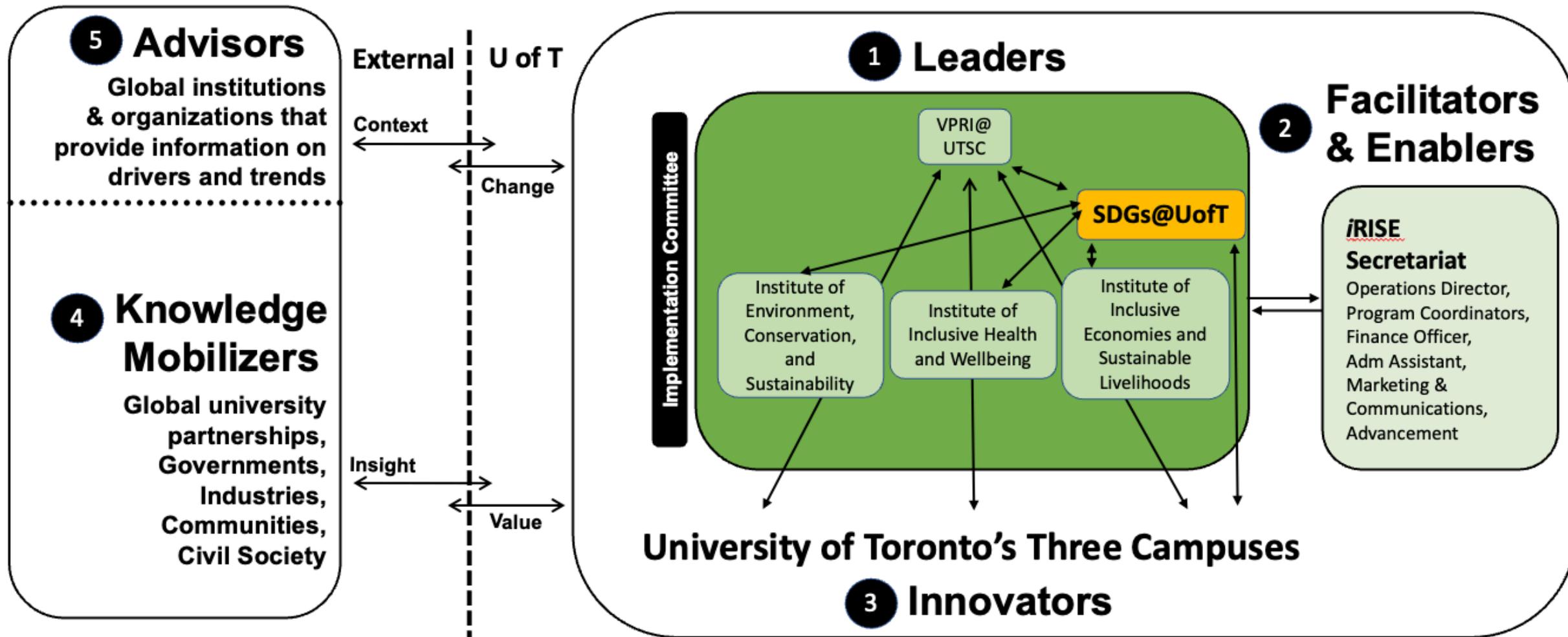
**Proposed Research Program:**

**JUSTICE: Just Urban Sustainability Transitions Centred in Equity**

**Paty is joining UTSC as of July 1, 2023,  
as a Professor in the Department of Sociology**



# The SDGs@UofT will be part of iRISE.



# We've invested in new clusters of scholarly prominence.

2022



## *Water Pathways*

### **Cluster Leads:**

Mathew Wells (Physical & Environmental Sciences)  
& Cosima Porteus (Biological Sciences)

**Funding:** \$600,000



## *Flourish: The Arts and Social Wellness Cluster*

### **Cluster Lead:**

Andrea Charise  
(Health & Society)  
**Funding:** \$528,440



## *The Clinical Research and Evaluation Cluster*

### **Cluster Leads:**

Michael Best (Psychology) & Zindel Segal (Psychology)  
**Funding:** \$600,000



## *Suburban Mobilities Cluster*

### **Cluster Lead:**

Steven Farber  
(Human Geography)  
**Funding:** \$600,000



## *The Centre for Environmental Research in the Anthropocene*

### **Cluster Leads:**

Marc Cadotte (Biological Sciences) & Myrna Simpson (Physical & Environmental Sciences)  
**Funding:** \$580,000



## *Urban Just Transitions from Scarborough to the Globe*

### **Cluster Leads:**

Matthew Hoffmann (Political Science) & Laura Tozer (Physical & Environmental Sciences)  
**Funding:** \$590,040

CONNECTING COMMUNITIES TOWARD FOOD SOVEREIGNTY

Sustainable Farming and Food Futures Cluster

## *Sustainable Food and Farming Futures Cluster*

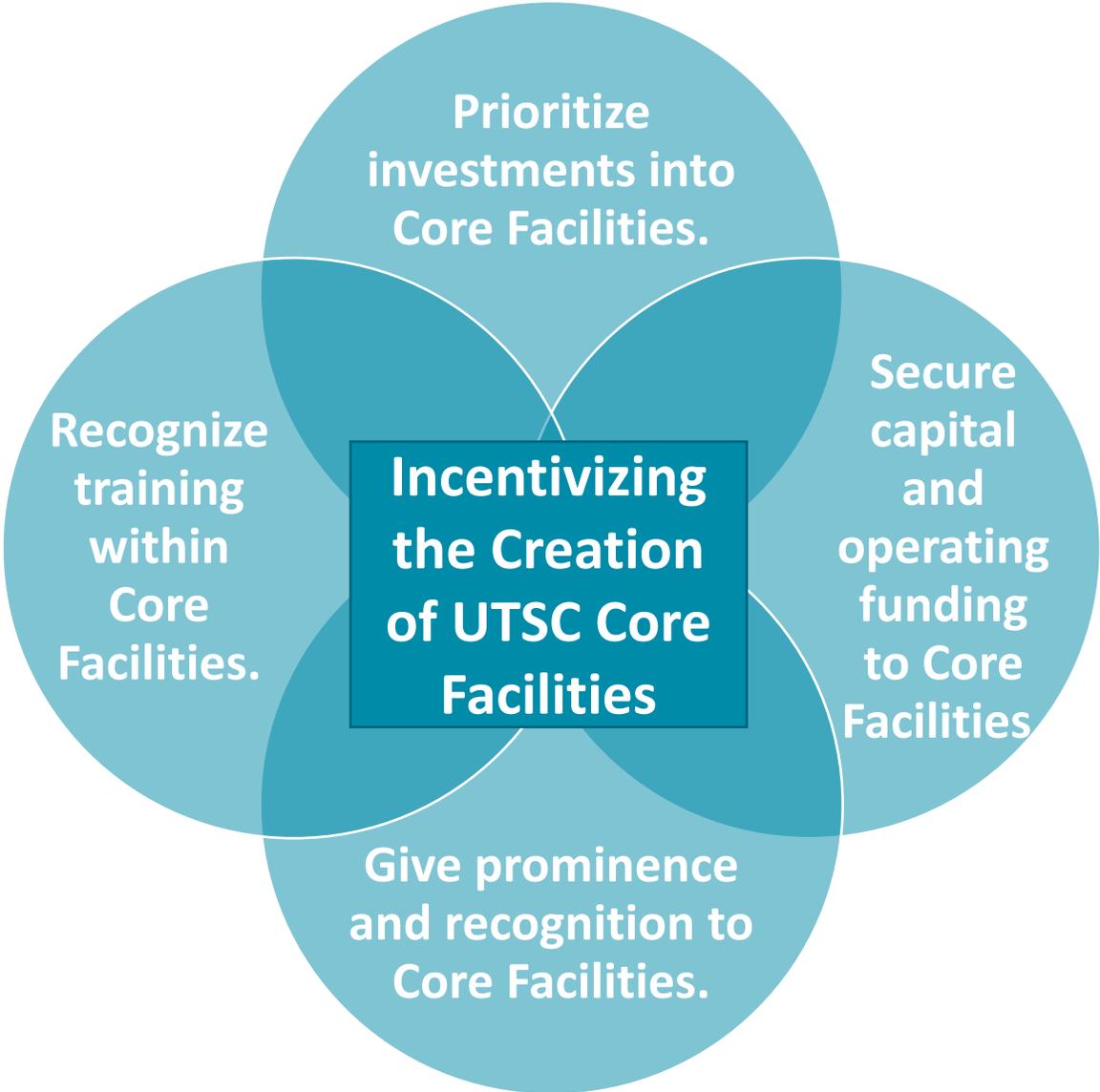
### **Cluster Leads:**

Jayeeta Sharma (Historical and Cultural Studies) & Marney Isaac (Physical & Environmental Sciences, Global Development Studies)  
**Funding:** \$1,200,000

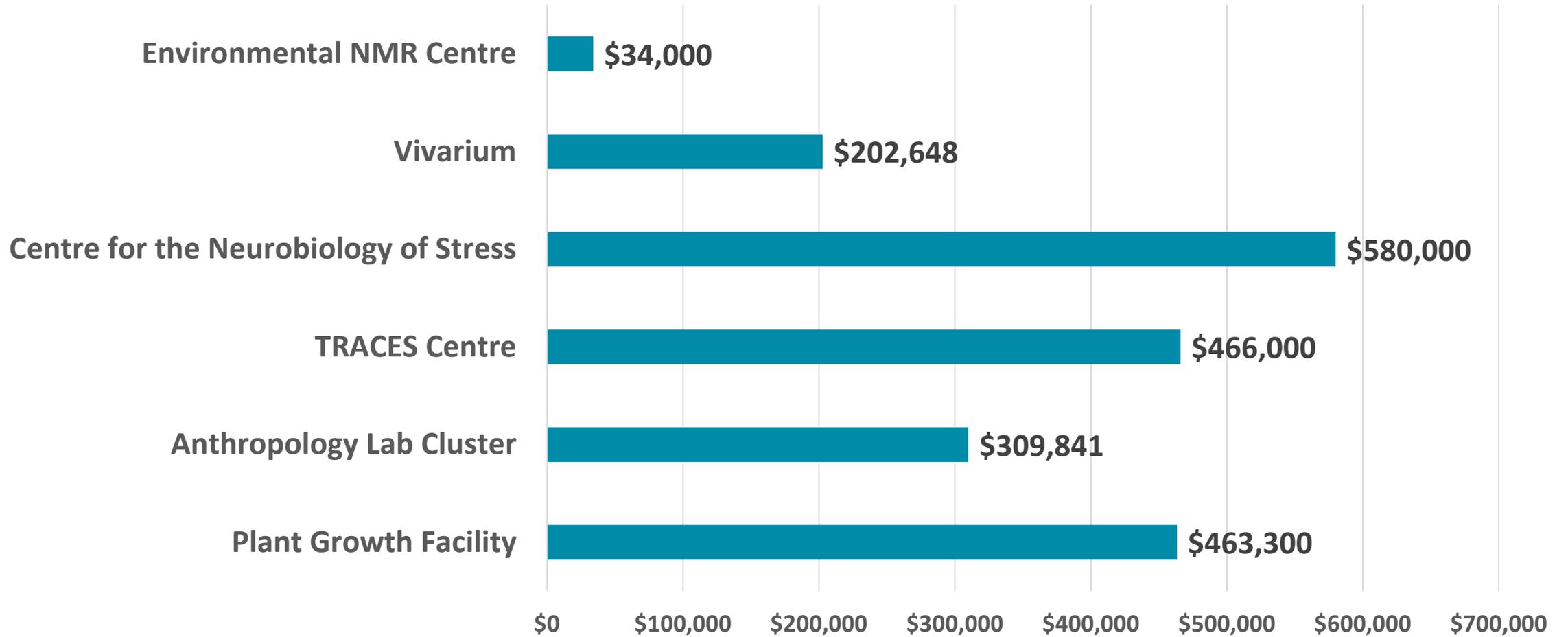
# We supported our research community through internal funding mechanisms.



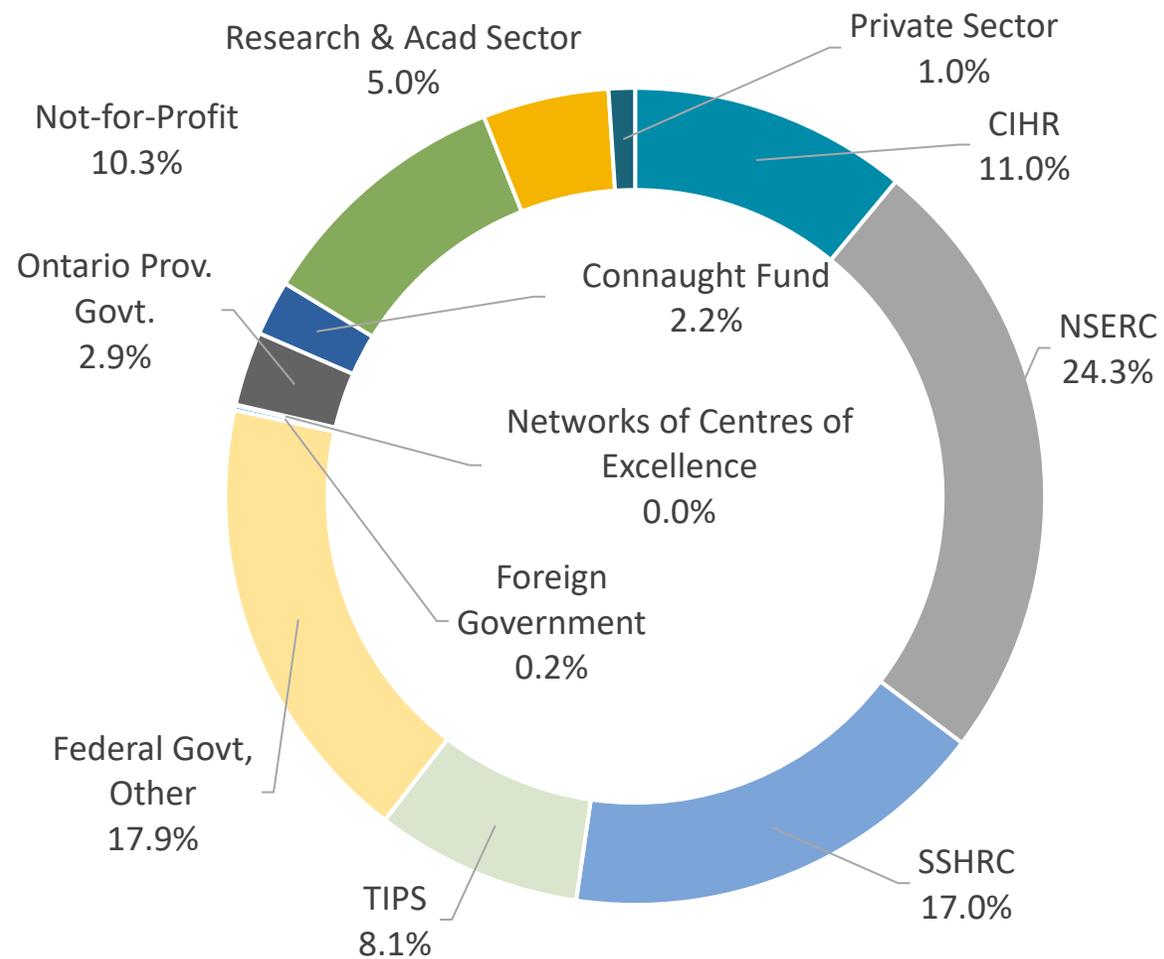
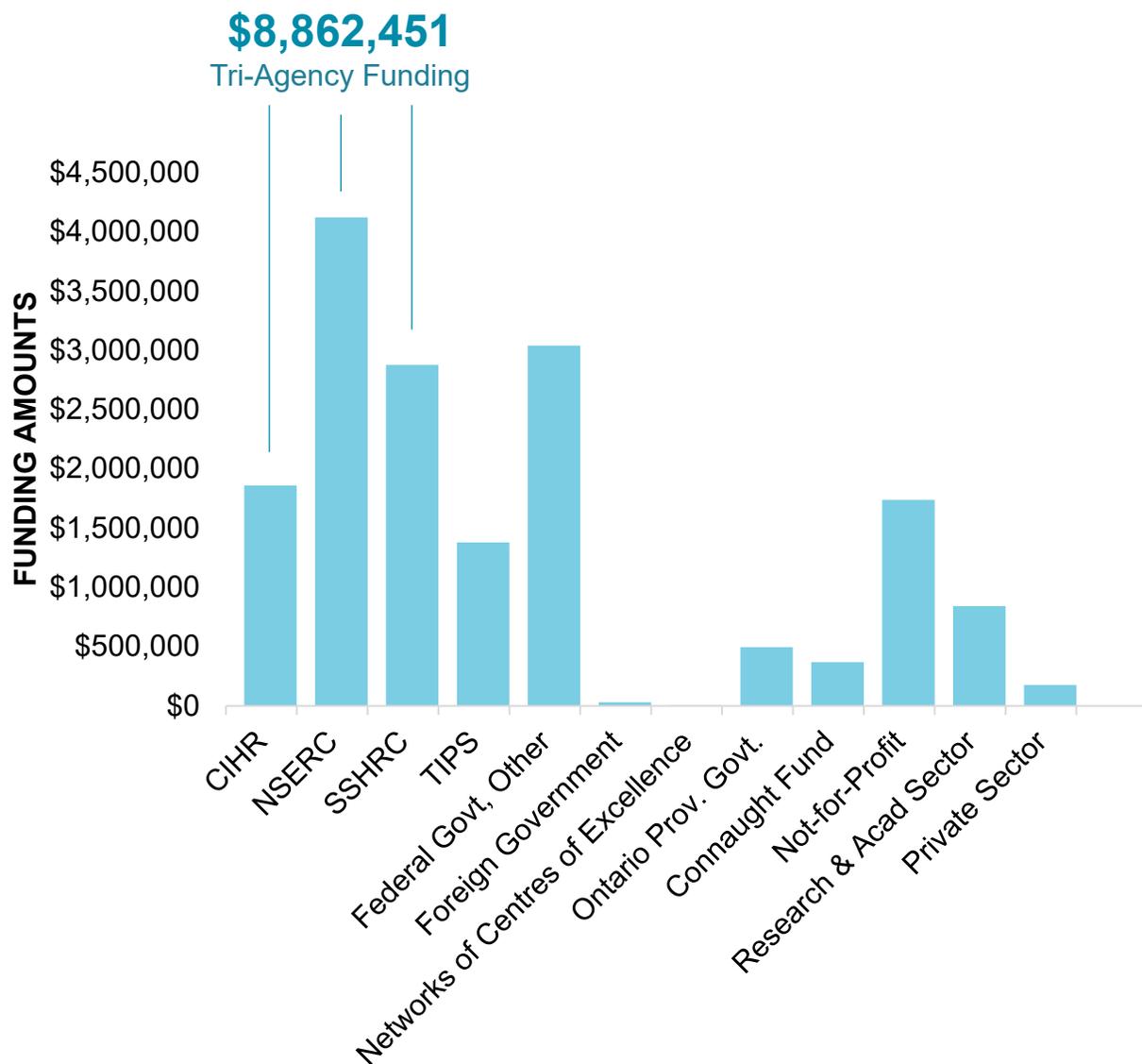
**As well as core research facilities.**



# We invested over \$2M in UTSC Core Facilities to ensure our researchers had the needed infrastructure, tools, and techniques.

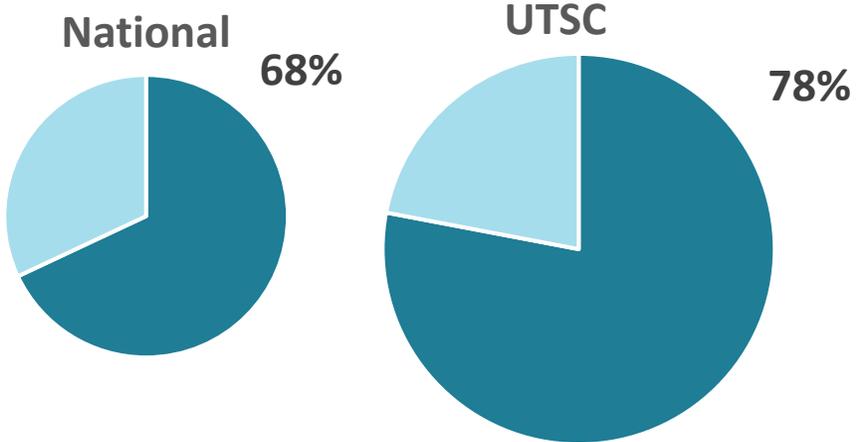


# The total annual research funding was \$16.9 million\*, with ≈52% of it coming from Tri-Agency sources.

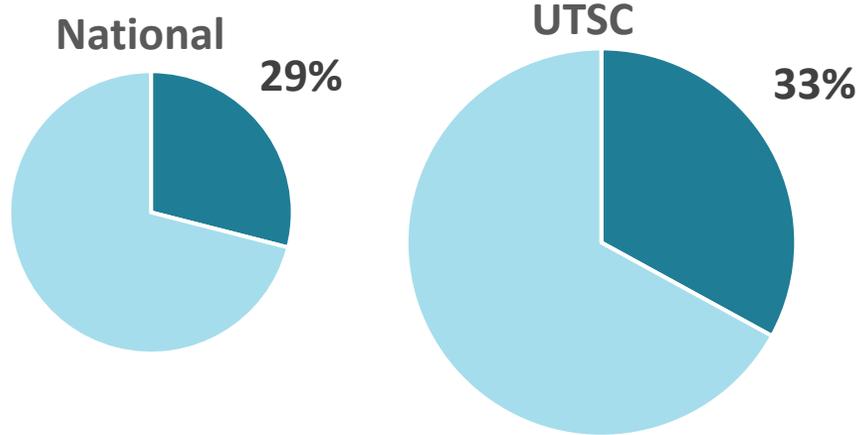


Note: 2022-23's final figures are pending upcoming competition results.  
Data source: VPRI Dashboards, April 2023

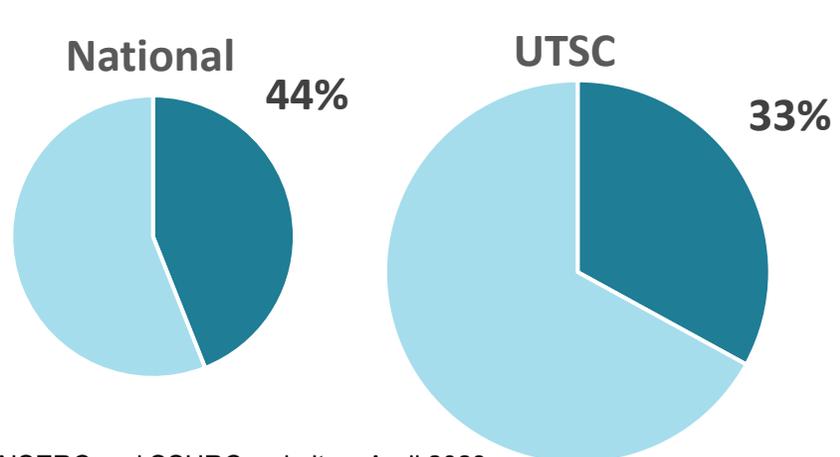
### **NSERC Discovery Grant**



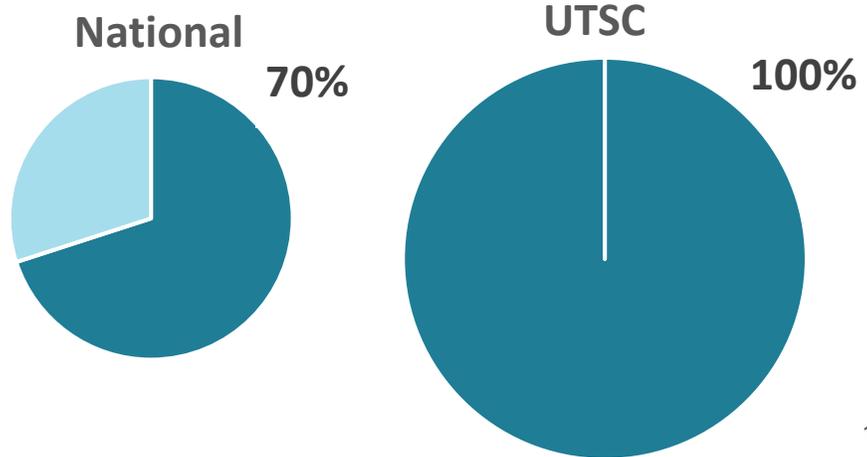
### **NSERC RTI Grant**



### **SSHRC Insight Grant**



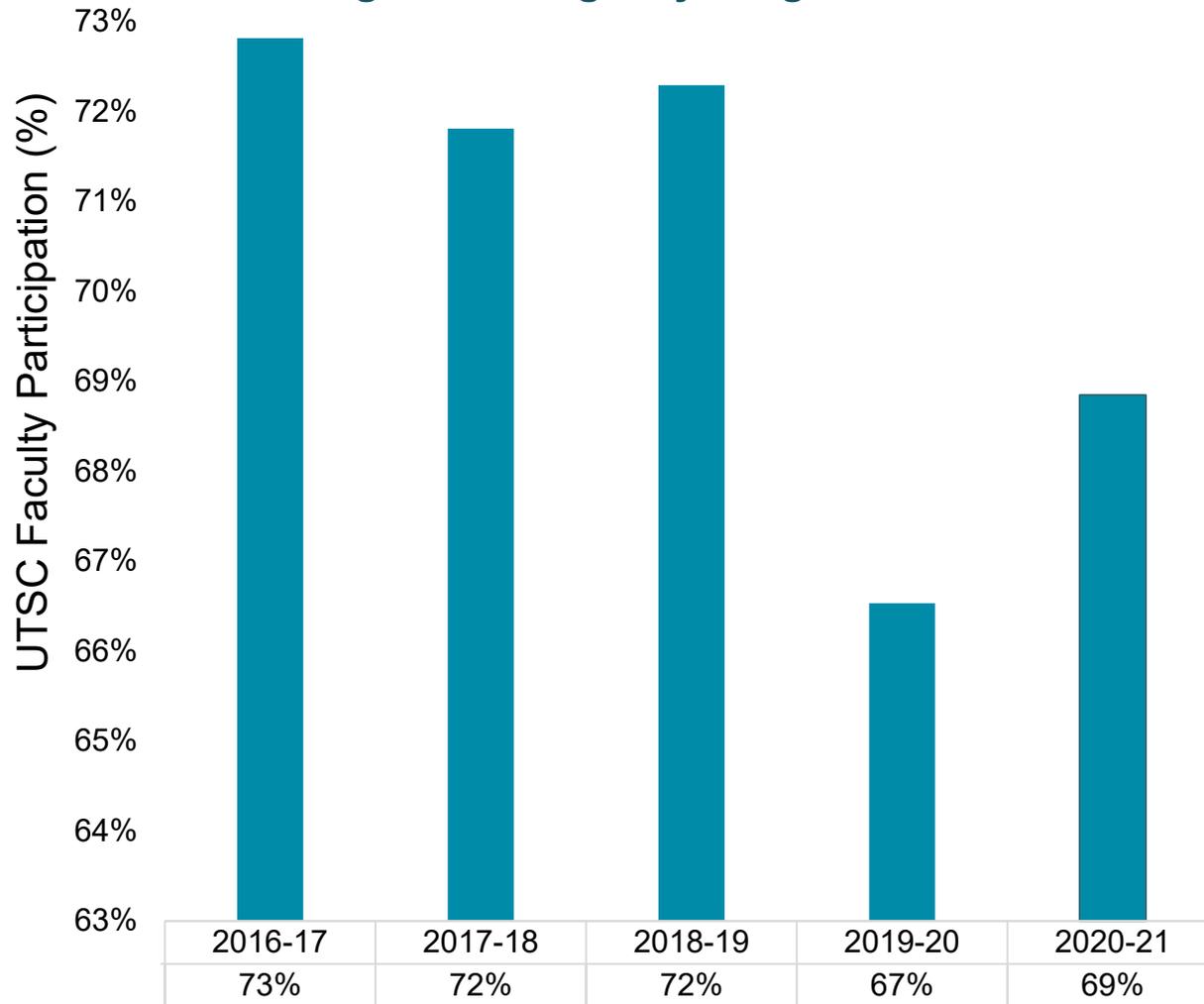
### **SSHRC Connection Grant**



Data sources: NSERC and SSHRC websites, April 2023

# But we are pursuing areas where we can reach new heights.

## UTSC Faculty Member Participation in CRC-Eligible\* Tri-Agency Programs



**GOAL:**  
Increase Participation in  
CRC-Eligible Tri-Agency Programs

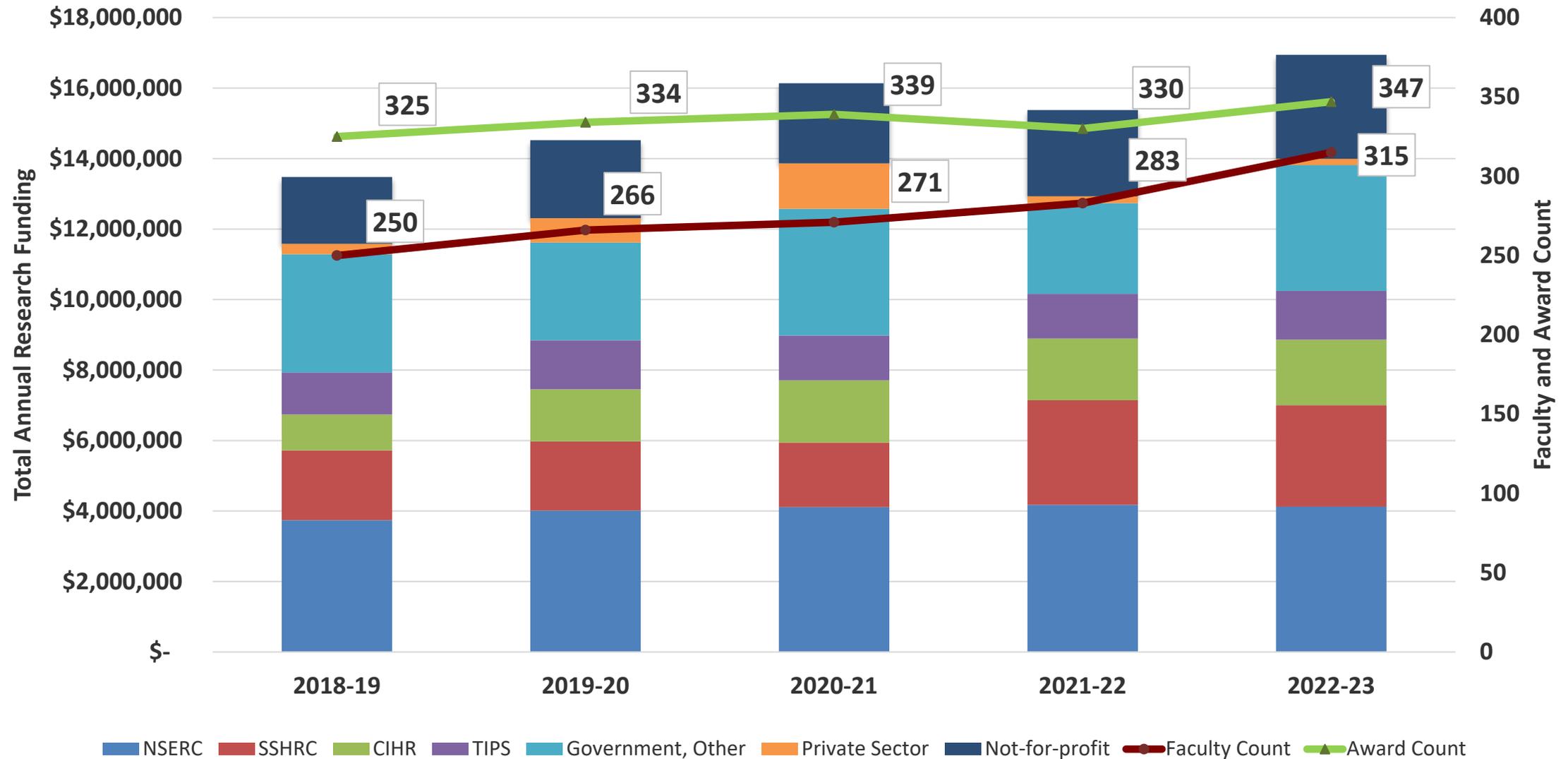


Note: Faculty Participation data is currently only available until 2020-21.

\*CRC-ineligible Tri-Agency Programs: [https://www.chairs-chaires.gc.ca/program-programme/research\\_funding-financement\\_recherche-eng.aspx#exclusions](https://www.chairs-chaires.gc.ca/program-programme/research_funding-financement_recherche-eng.aspx#exclusions)

Data source: VPRI Dashboards, March 2023

# With these supports, our research productivity continued to increase.

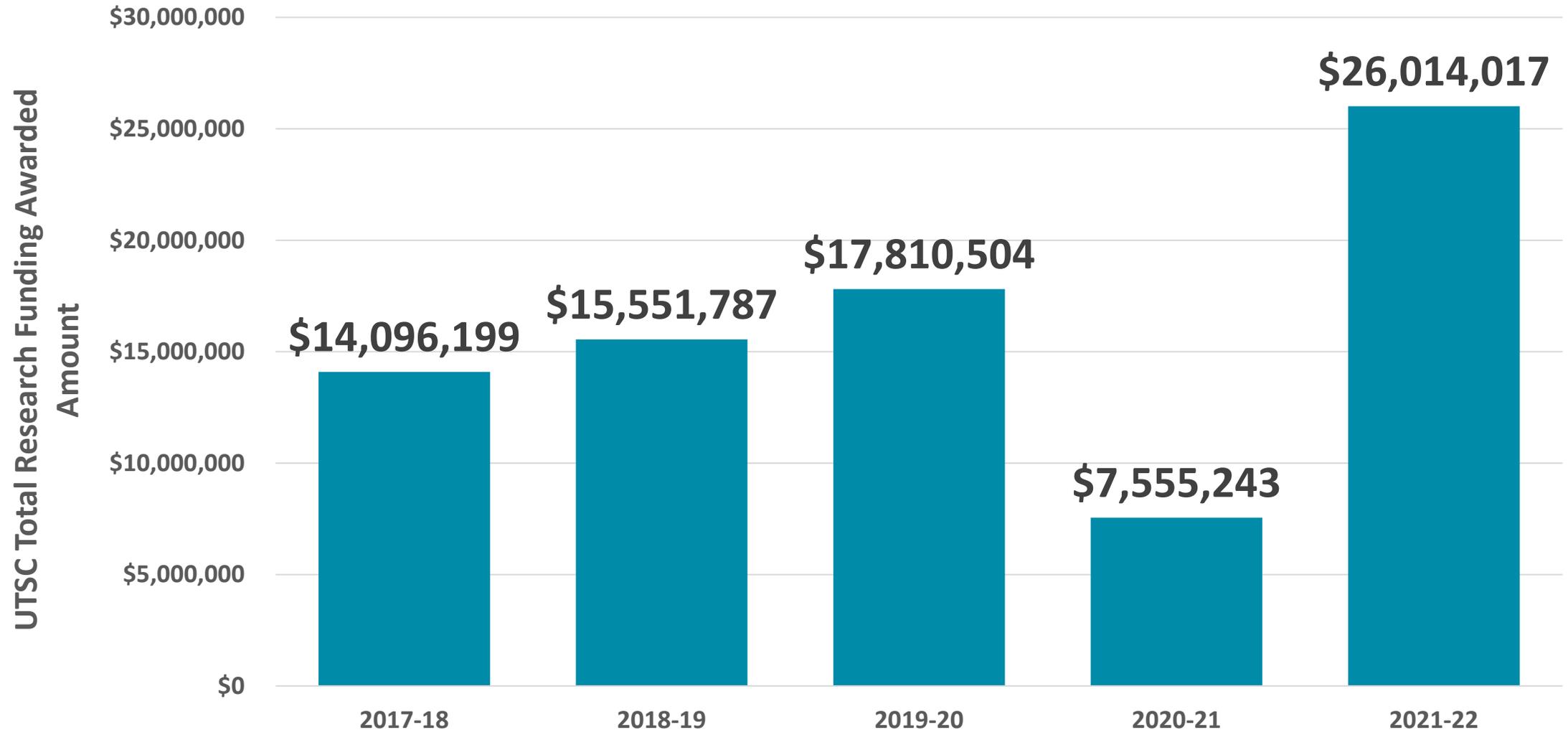


\* : 2022-23's final figures are pending upcoming competition results

Data source: VPRI Dashboards, April 2023.

Our 315 research faculty were awarded 347 grants.

# Total \$ of newly awarded grants variable, but on the rise.



Note: Total Awarded Amount data is currently only available until 2021-22.

Data source: VPRI Dashboards, April 2023.

Plus 0.5 M awarded and 15.8M pending for learner experiential and entrepreneurial learning opportunities.

# We continued to support our innovators through the campus accelerator, The Hub.



Combined revenues and investment of Hub Start-ups

**\$3.05 M**

Total Companies in Residence

**87**

Companies graduated **30** New companies **53**

Total percentage of companies with women founders



Total percentage of founders identifying as people of colour

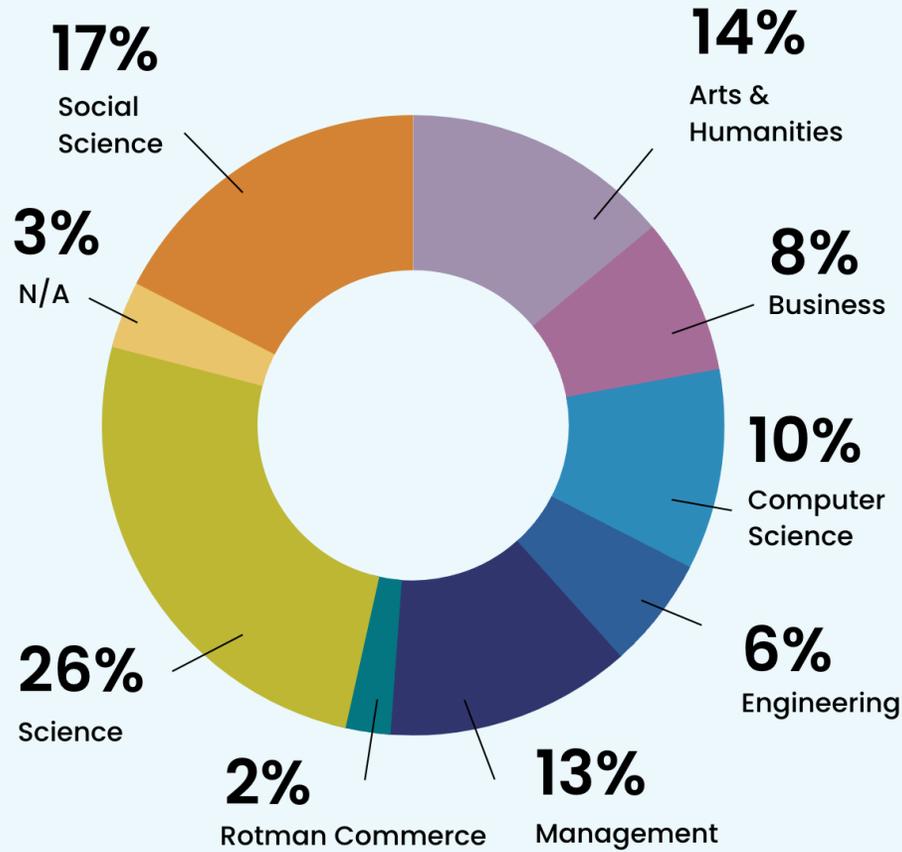


Total participants in Hub events in 2022-23 **993**

Total events **48**

## The Hub End of Year Report, 2022 - 2023

Founders in The Hub by discipline, 2022-2023



Note: The Hub's final 2022-23 data is still pending

# The Hub continues to stimulate the growth of trailblazers in the innovative space.



## Neurokin

Maria Khandaker (top) and Shupa Rahman, co-founders of Neurokin

A one-stop information shop for marginalized neurodivergent people who identify as women, 2SLGBTQ+ and/or people of colour.



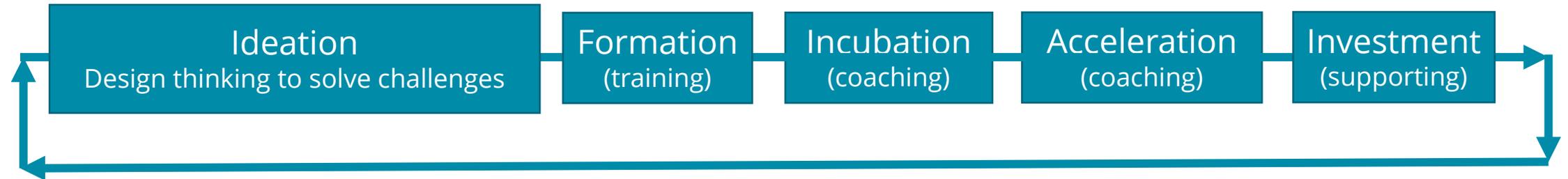
## mhapy

Chijindu Ukagwu, founder of mhapy.

The company created a chatbot named Ruby that tracks users' mental health symptoms the way nurses do

And we worked to further enhance our innovation ecosystem.

# Life cycle of the developing an entrepreneur, innovator, leader



# EaRTH District

**“SWITCH: EaRTH flips the switch for cleaner automotive technologies and mobility solutions”**

Promoting careers in the automotive and mobility sector to high-school and postsecondary students

\$500,000 and a minimum of 1,100 students



# EaRTH District

**Employment and Social  
Development Canada  
Grant.**

**Pending \$18,000,000.**

**>1,000 learners in the first  
three years of funding.**

**Survey partners to  
understand competencies needed  
and then customize our training.**

**EaRTH  
Excites**

(Highschool level  
learners)

**EaRTH  
Activate**

(Post-secondary level  
learners)

**EaRTH  
Works**

(Recent graduate /  
international graduate  
learners)

**EaRTH Leads**

(Post-doctoral level  
learners)

# We are working with early adopters to help shape and launch the training program.

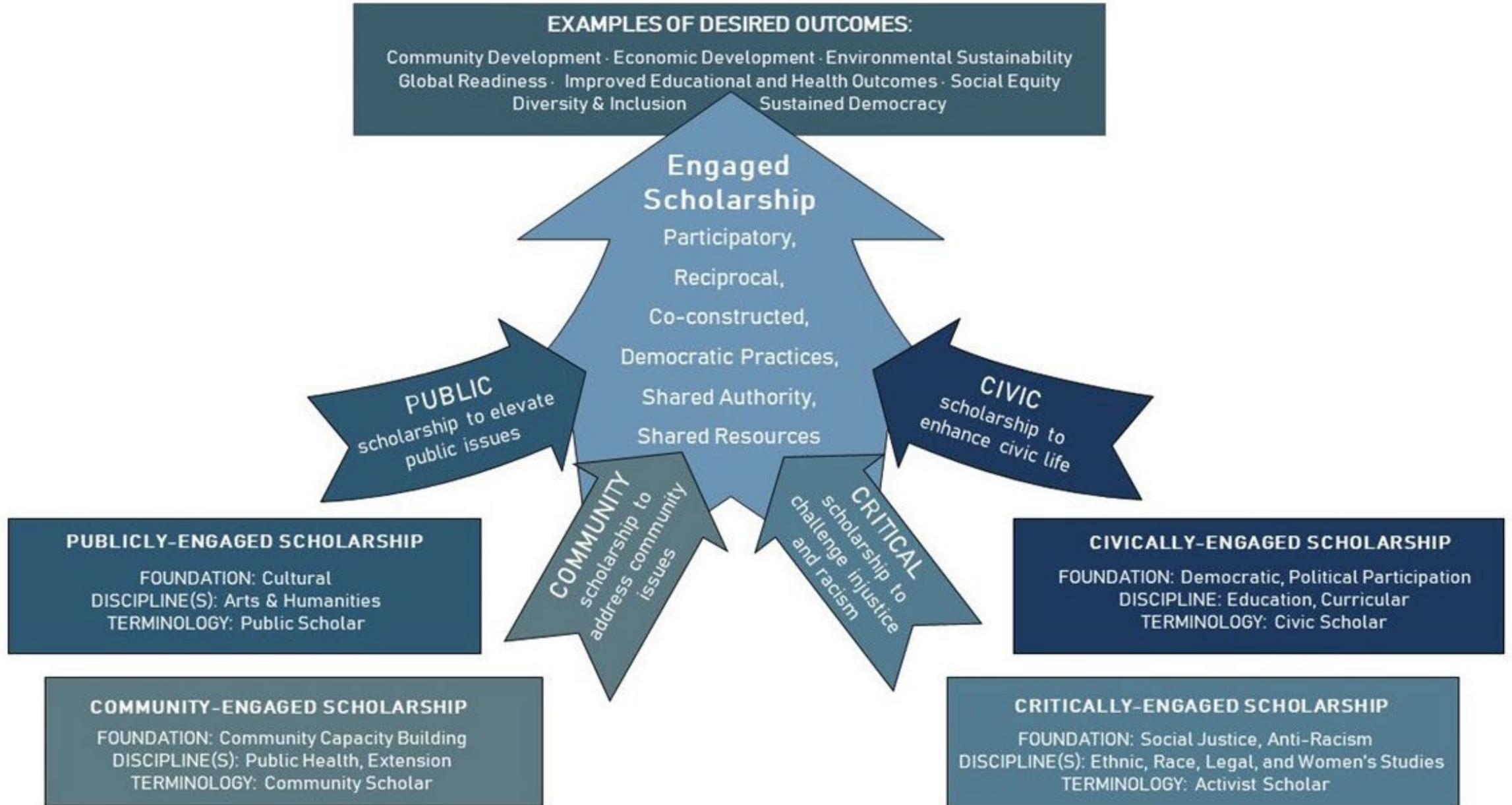


We engaged the community to advance scholarship and innovation.

**Engaged Scholarship:**  
Towards  
Inclusive Excellence  
in Research



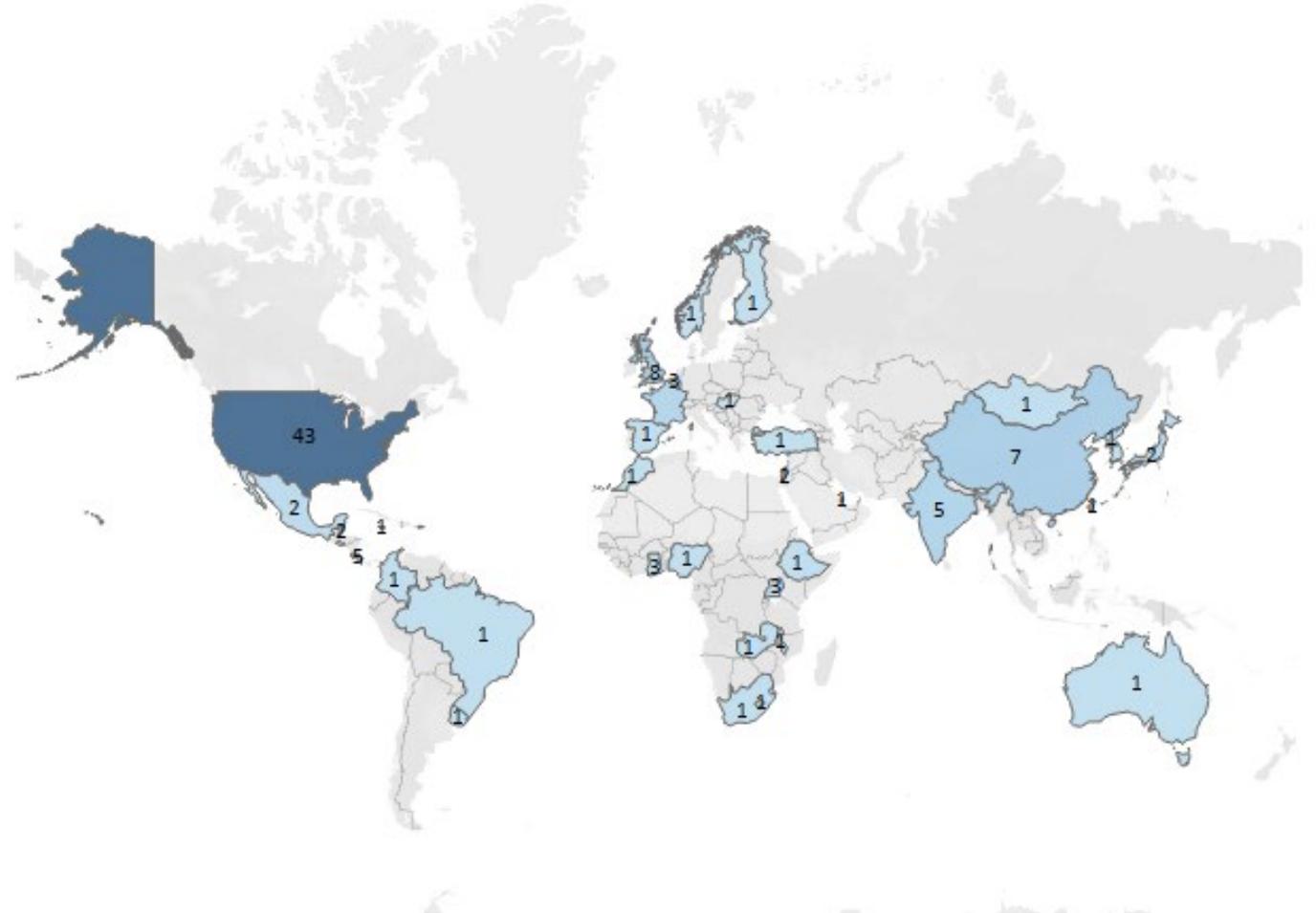
# PESI is diverse in practice, focus and scope.



# Our faculty are engaging in more international research.

## Active Awards by Country (2022-23)

- Our faculty is actively engaged in international research
- Top research locations
  - United States - 43
  - Great Britain - 8
  - China - 7
  - Costa Rica - 5
  - India - 5
  - France - 4
  - Belgium - 3
  - Ghana - 3
  - Uganda - 3
  - Belize - 2



# We continued our Celebration of Research Excellence Lecture Series.



**Mark Campbell**  
*Arts, Culture and Media*



**Andrea Charise**  
*Health & Society*



**Artur Izmaylov**  
*Physical & Environmental Sciences*



**Scott MacIvor**  
*Biological Sciences*



**Alan Saks**  
*Management*



**Jessica Wilson**  
*Philosophy*

# We awarded our high-performing faculty.

## UTSC Principal's Research Award



**Mark Schmuckler**  
*Psychology*

## UTSC Research Recognition Award



**Cendri Hutcherson**  
*Psychology*

## UTSC Pre-Tenure Faculty Research Awards



**Cassandra Hartblay**  
*Health and Society*



**Sara Saljoughi**  
*English*

## UTSC Research Excellence Faculty Scholars



**Patrick McGowan**  
*Biological Sciences*



**Hanno Rein**  
*Physical & Environmental Sciences*



**Christina Guzzo**  
*Biological Sciences*



**Oleksandr Voznyy**  
*Physical & Environmental Sciences*

**And we celebrated faculty that received prestigious national and international recognitions.**



## **Notisha Massaquoi Department of Health & Society**

**2023 YWCA Toronto Women of Distinction Award  
for fighting inequities in health-care**

A community-based health researcher who is interrogating anti-Black racism of those navigating institutional structures and systems in Canada.

**And we celebrated faculty that received prestigious national and international recognitions.**



**Wisdom Tettey**  
**Principal UTSC, Department**  
**of Political Science**  
**African Scholars Award**  
**Distinguished Influencers Award**



**Maydianne Andrade**  
**Department of Biological**  
**Sciences**  
**African Scholars Award**  
**Distinguished African-Caribbean Award**

And we celebrated faculty that received prestigious national and international recognitions.

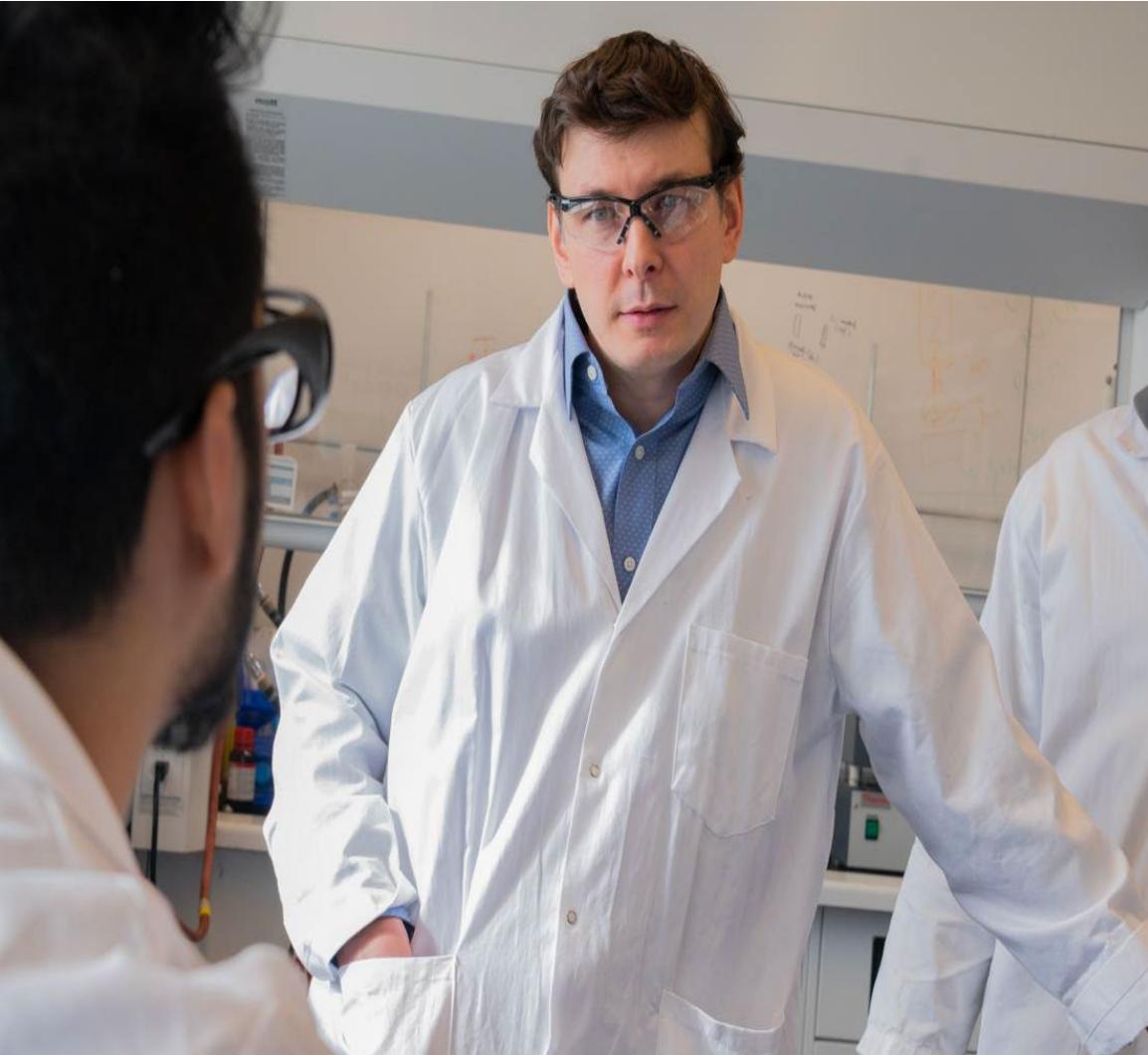


## Ashton Anderson Department of Computer and Mathematical Sciences

**CS-CAN-INFO-CAN  
Outstanding Career Computer Science Research  
Prize**

Computational social scientist who has pioneered computational methods to quantify online phenomena including **political polarization**.

And we celebrated faculty that received prestigious national and international recognitions.



## Alex Voznny Department of Physical and Environmental Sciences

**Chemical Institute of Canada  
2023 Strem Award**

Chemist who has advanced our understanding of artificially grown **colloidal nanocrystals**, which are particularly useful in LEDs, solar cells and certain types of lasers, among other applications.

**And we celebrated faculty that received prestigious national and international recognitions.**



## **Myrna Simpson Department of Physical and Environmental Sciences**

**Geochemical Society  
Clair C. Patterson Award**

Environment scientist who is using nuclear magnetic resonance (NMR) and mass spectrometry to address knowledge gaps related to global environmental change, pollutants and contaminants.

**And we celebrated faculty that received prestigious national and international recognitions.**



## **Aisha Ahmed**

### **Department of Political Science**

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

Political scientists who focuses on the intersection of Islamists and economies. She was named one of Toronto's most inspiring women in 2017 by Post City Magazine and won Muslim Woman of the Year at the Muslim Awards of Excellence MAX Gala a year later.

**And we celebrated faculty that received prestigious national and international recognitions.**



## **Diana Valencia**

### **Department of Physical and Environmental Sciences**

#### **Guggenheim Fellowship**

Physical scientist who studies the interior of planets, its composition and how it evolves – including ways in which it might enable the emergence of life.

# We are focused on building regional innovation districts, including EaRTH and HeART.



# As we look forward to the next year, we have selected the following strategic priorities to further advance the research vision and mission of the campus.



Complete the optimization of the organization of the OVPRI.



Review research institutes, centres and clusters and core facilities to ensure they conform to our guidelines.



Complete a space audit to and develop a plan to support the needs of UTSC

Pursue CFI major infrastructure grants.



Create & operationalize a new innovation lifecycle website that provides a “one-stop shop” for fundamental information related to the innovation enterprise



Launch the Centre for Inclusive Excellence in Innovation, Entrepreneurship and Leadership



Develop a strategic action plan for internationalization.



Develop a strategic action plan for iRISE



Develop a strategic plan for the National Academy for Inclusive Leadership.



Build and put into action a road map for the 2025 Scarborough Global Summit.



Develop a plan to have a United Nations University node located at UTSC