



UNIVERSITY OF
TORONTO
SCARBOROUGH

CECCS Adams Celebration UTSC

Miller, MacLellan - January 12, 2021

OUTLINE: CECES Adams Celebration UTSC

1. MANDATE: Information Session → UTSC Sustainability Panel Discussion (March)

The purpose of this event is to set up the groundwork for a follow up event in March. This second event is intended to provide individuals with the opportunity to actively participate in developing a proactive and engaged culture of sustainability at the UTSC campus.

2. AGENCY: OLD SCHOOL
3. INSTITUTIONAL PLANNING
 - UTSC STRATEGIC PLAN
 - CECES HARMONIZATION
4. FOUNDATIONAL CASE STUDY
5. NEXT STEPS

Internal operating environment;
within the control of the organization:

- Labour
- Materials
- Facilities
- Financial Capital
- Management



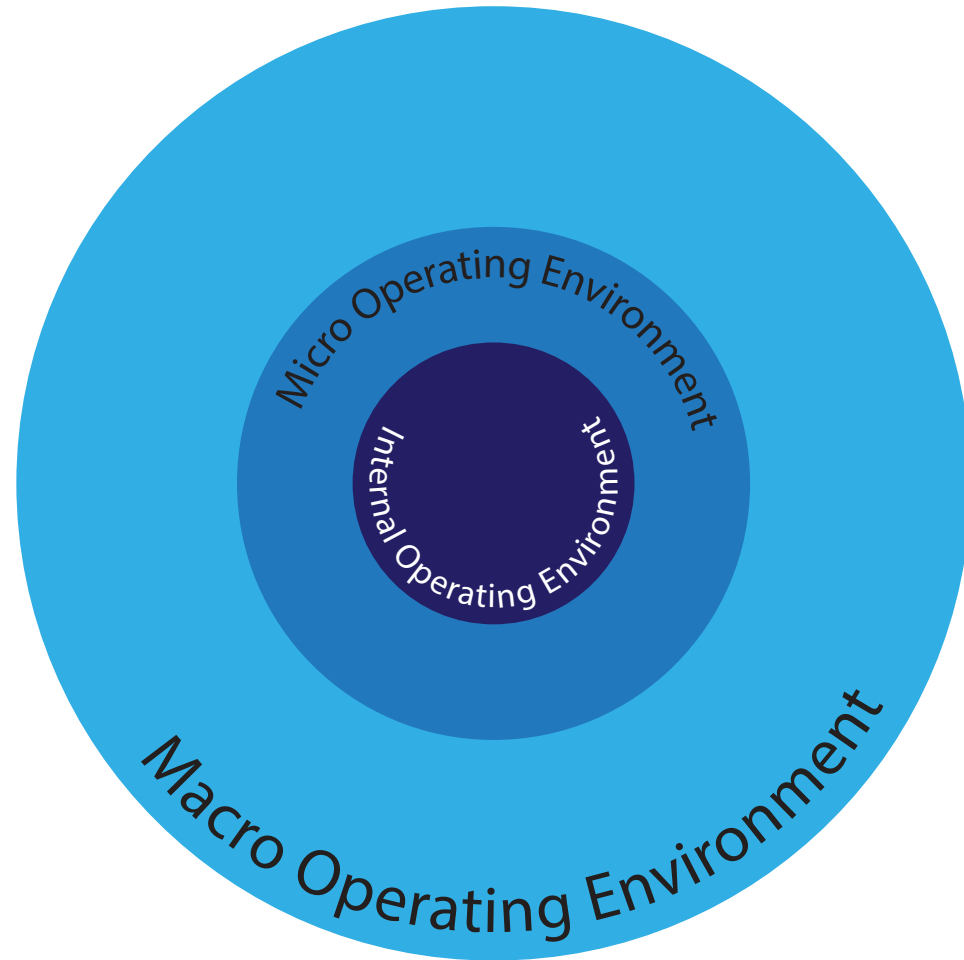
External *micro* operating environment; outside the control of the organization:

- Partners
- Future Students, Faculty and Staff
- Sector Peers
- Vendors, partners and support
- Local Public/community



External *macro* operating environment; outside the control of the organization:

- Political Environment
- Cultural environment
- Technological environment
- Natural environment
- Demographic environment
- International environment



Environmental Factors

Economic Factors

Demographic Factors

Political Factors

Technological Factors

Cultural Factors

Micro Operating Environment

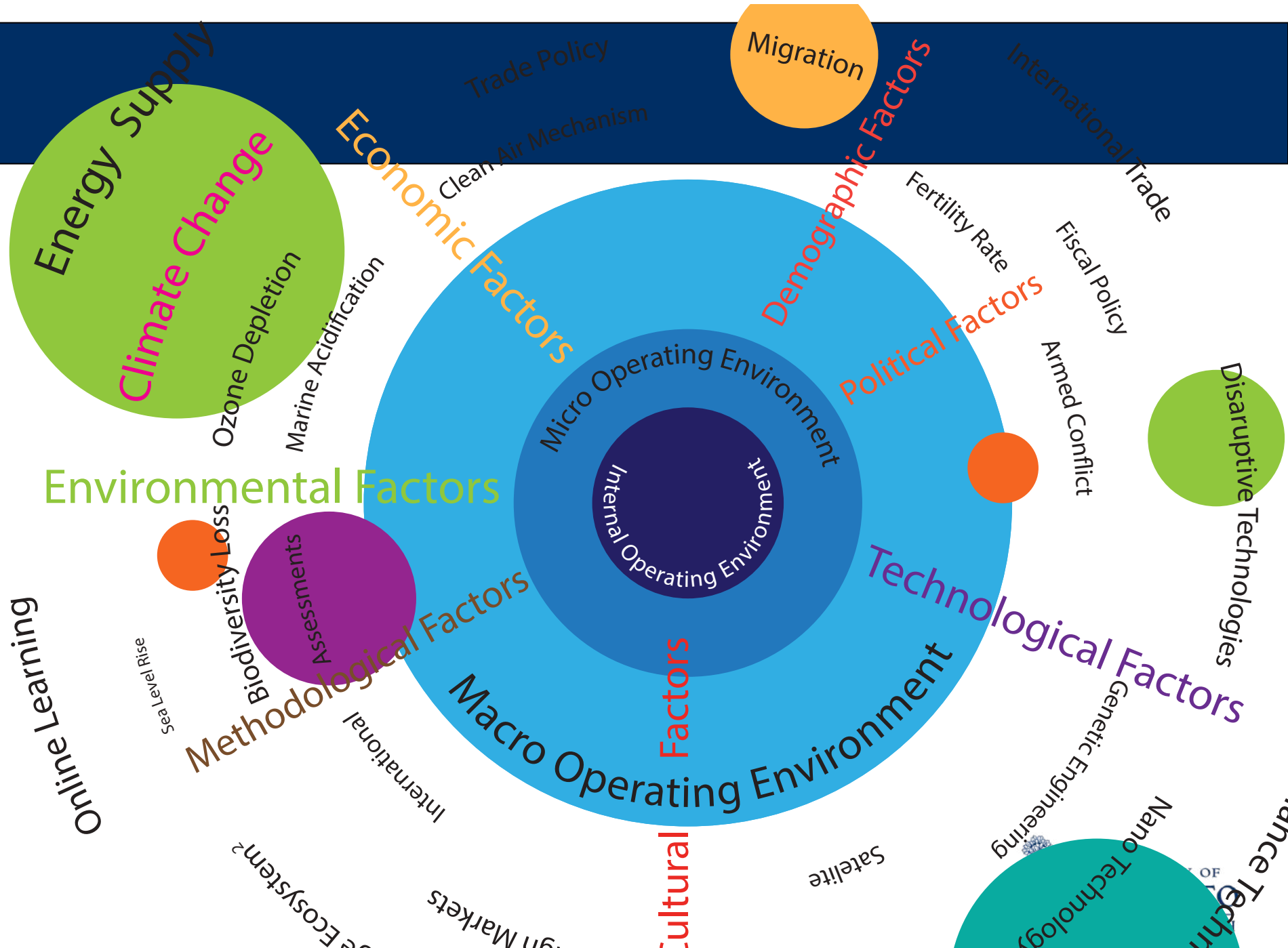
Internal Operating Environment

Macro Operating Environment



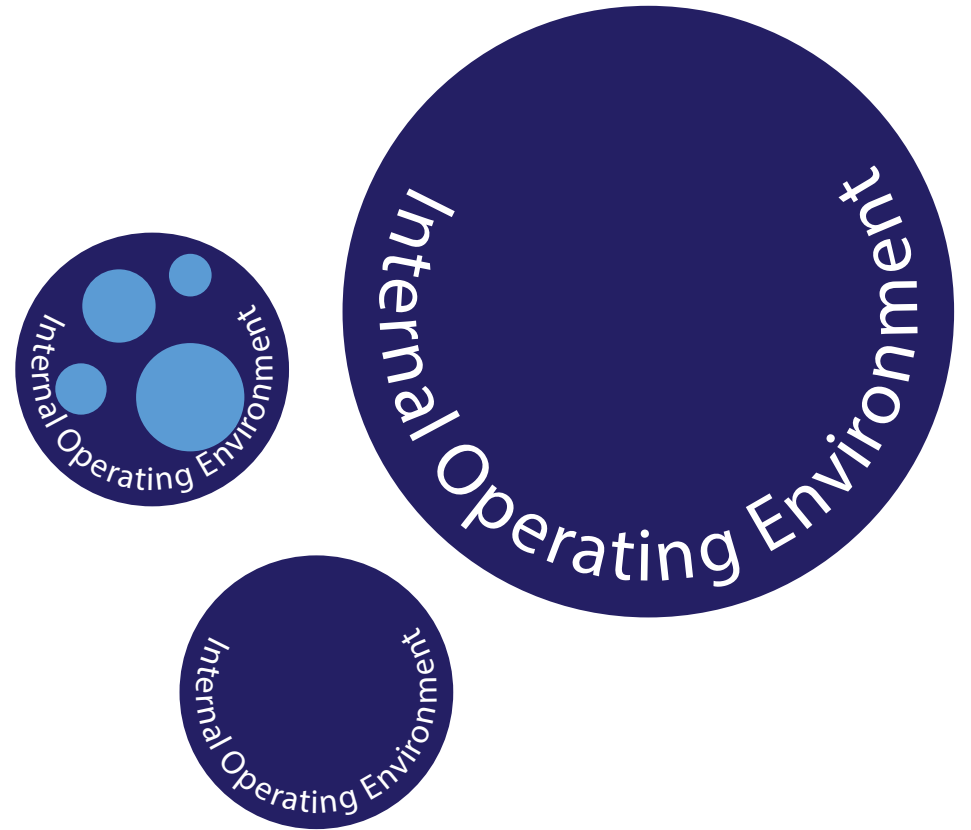
UNIVERSITY OF
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THE CHALLENGE



Let's not get ahead of ourselves.
Do we really have control over our
internal operating environment?
Do we even know what it looks like?

And what about our relationship to St
George Campus ...?,
as well as Mississauga?



UTSC STRATEGIC PLAN

Our inner operating environment?

The **UTSC Strategic Plan** has been developed as a dynamic vehicle to proactively incorporate consultation, inclusion and implementation ... towards the attainment of our agreed upon, institutional goals.



UTSC STRATEGIC PLAN

The plan commits to: *“evolve our processes and planning to enable the talented members of our community to develop their fullest potential. These actions are to be rooted in a comprehensive and intentional set of commitments, as follows (UTSC 2020):*

- *to embed our values of equity, diversity, inclusion and accountable stewardship into our teaching, learning, scholarship, daily routines and structures;*
- *to give pride of place to Indigenous initiatives that reflect our values and are intrinsically embedded in those practices and systems; and*
- *to ensure that we champion sustainable livelihoods, cultures, and ecosystems that have local and global relevance and resonance.*

Values of the UTSC Strategic Plan

INTENTIONAL INCLUSION

Only by genuinely embracing and understanding different experiences, backgrounds, perspectives, and identities can we sustain our vibrant intellectual community and address our global challenges. We take pride in the diversity of our community, but it is only meaningful in a culture of equity and inclusion that flows from active and intentional action to ensure that every voice is heard and everyone feels a strong sense of belonging.

STUDENTS AS PARTNERS

Students are active participants and partners in the educational process. From curriculum development to cutting-edge scholarship to community service that produces global leaders to shaping our values, our students play a critical role as valued partners in enriching our academic and community activities.

RECIPROCITY

We are defined by collaborative, fair, and reciprocal partnerships for the mutual benefit of colleagues, students, alumni, Indigenous communities, neighbours, and global networks. As an anchor institution in the eastern GTA, we are committed to shared leadership and will work with our local partners to ensure that we remain responsive, relevant, accountable, and accessible to our communities in the pursuit of our common goals while engaging the world.

ACCOUNTABLE STEWARDSHIP

We continually challenge the status quo in order to be more effective stewards of our resources and to exemplify individual and collective accountability. We make efficient use of our fiscal resources, promote transparent and participatory decision-making, and facilitate effective administrative processes that ensure continuous improvement in all that we provide to the internal and external communities that we serve.

We commit to respecting Indigenous traditions, lands, and ways of knowing; and to protecting the ecosystems that sustain us and which we hold in trust for future generations.

Transactional



Transformational



Who are we talking about here?

1. CURRICULUM

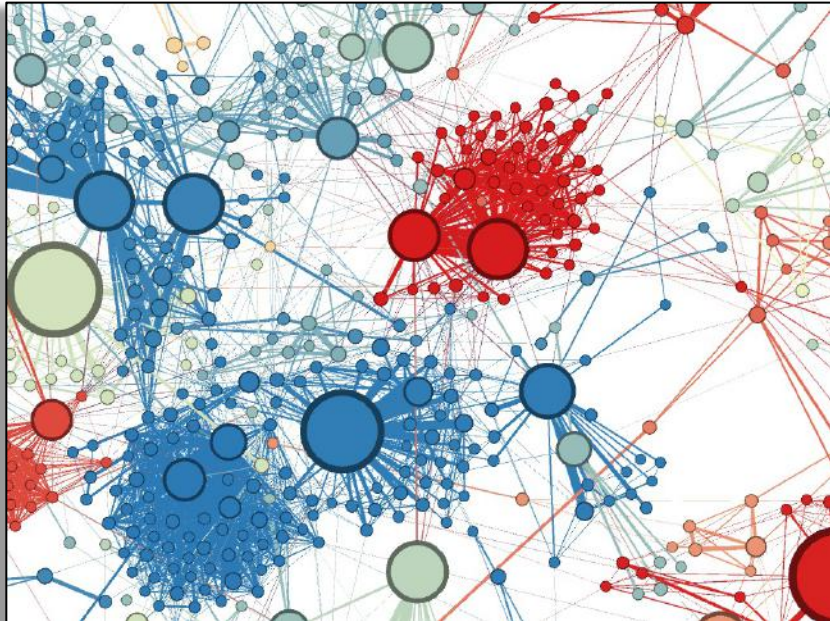
1. Synoptic Campus mapping exercise (Register's Office, 2015)
2. Course Network Analysis
3. Retention Course analysis
4. Etc etc

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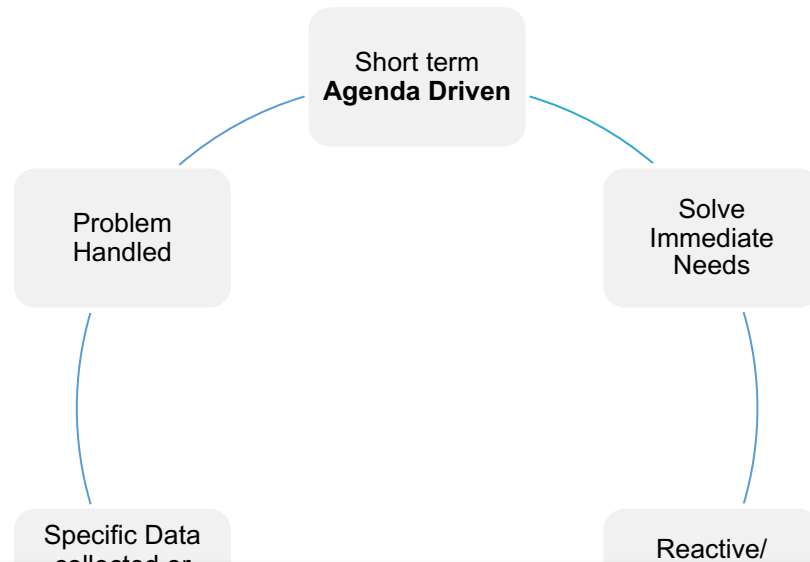
2. RESEARCH

1. Bibliometric analysis (MacLellan & Forbes. 2015).
2. DPES external review research
3. RIISQ Author Network gap analysis
4. NRCAN National Assessment
5. Etc etc



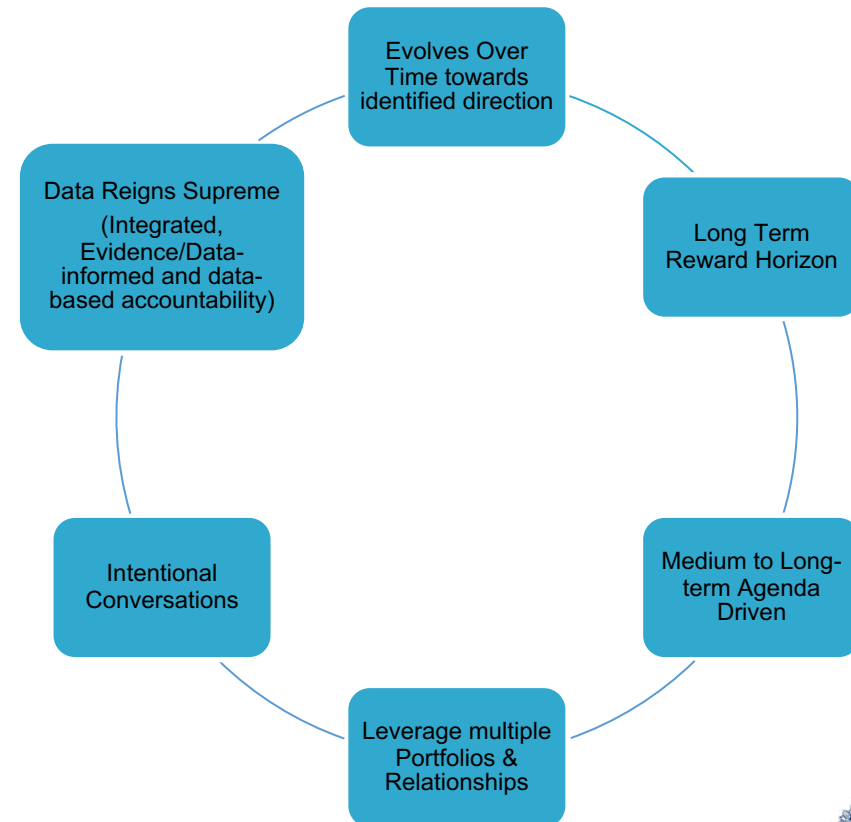
	KW1	KW2	KW3	KW4	KW5	KW6	KW7	KW8	KW9	KW10	KW11	
RUN1	sustai	clim	environ	socio	water	ecosyste m	conserv	glaci		fish	gender	TEST
RUN2	sustai	water	lake	river	watershe d	ecosyste m	downstre am	ocean		sea	groundwat er	WATER
RUN3	sustai	assessme nt	clim	temp	atmosph	weather	co2	airshed	extreme	thunder	hurrica	CLIMATE
RUN4	sustai	impact	assessme nt	choice	risk	threat	future	case	manage	scenarios	practition	SUS-DEV- SYSTEMS
RUN5	sustai	conserv	COSEWIC	squirrel	exploit	fish	bird	spider	biodiver	salmon	bees	BIODIVERSITY/ CONSERV
RUN6	sustai	pollut	emission	waste	contamin an	treatmen t	toxi	ozone	mercury	phosphor	PAH	POLLUTION
RUN7	sustai	agri	food	farm	crop	forestry	wheat	corn	rice	fruit	bean	AGRICUL\FOOD\F ORESTRy
RUN8	sustai	urban	city	infrastruc	road	place	transport	municipa	bridge	toronto	scarbor	BUILT ENVIRONMENT
RUN9	sustai	people	communi ty	public	societ	health	culture	neighbo	govern	rights	gender	SOCIO-ECO-CUL- POL
LEFT to RIGHT >> start with the high level descriptors and move towards specifics >>>>>>>>												

Transactional



Now that we have a better idea of who we are ... and have a platform or strategic forum to deliver on our collective intentions ... *how do we transform our day-to-day activities?*

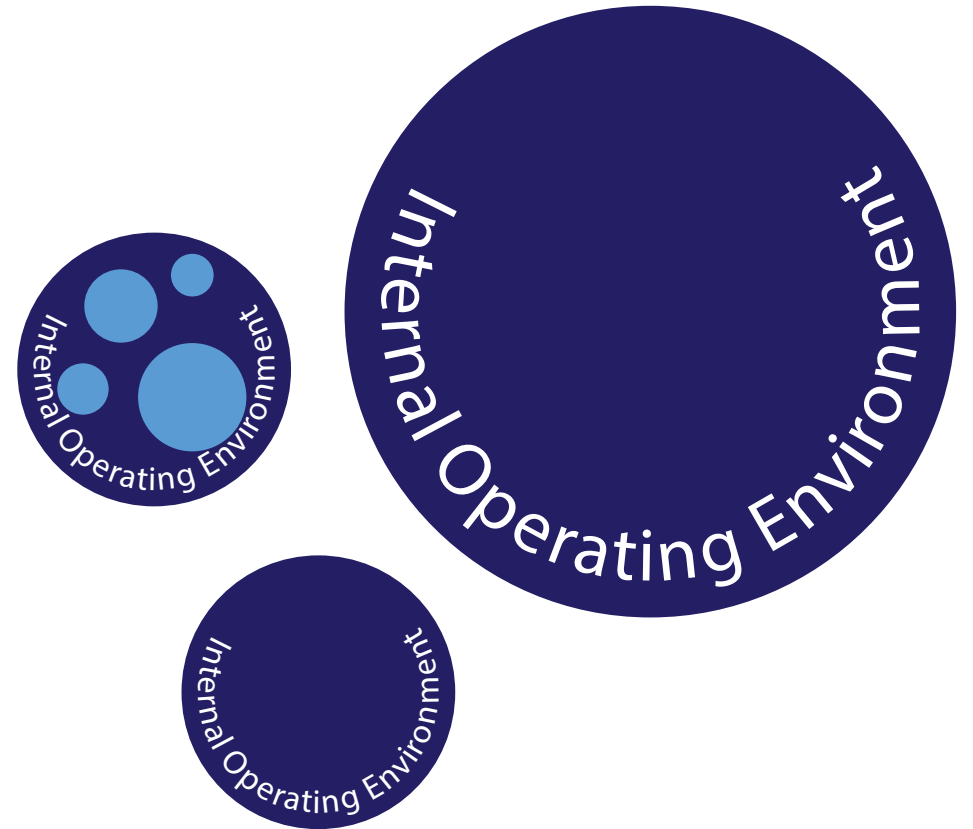
Transformational



President's Advisory Committee on the Environment, Climate Change, and Sustainability (CECCS)

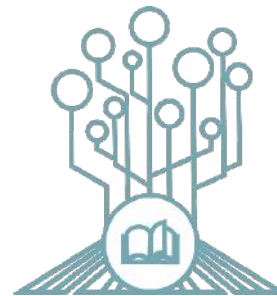
As we extend out relationship outward, how do we incorporate other factors into our model of institutional dynamics?

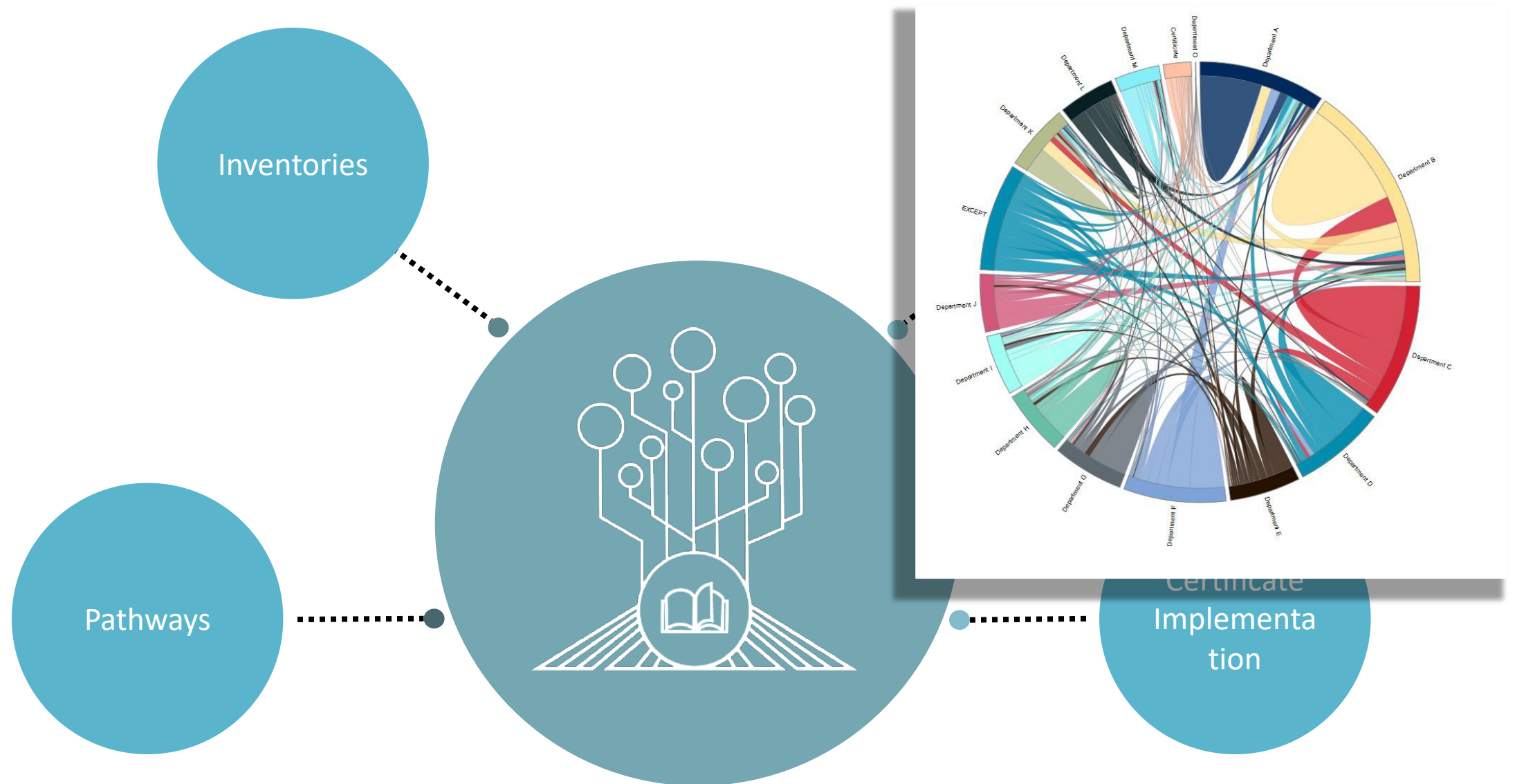
What about St George? What about Mississauga? What about Canada? What about the world?



CECCS

Curriculum Innovation

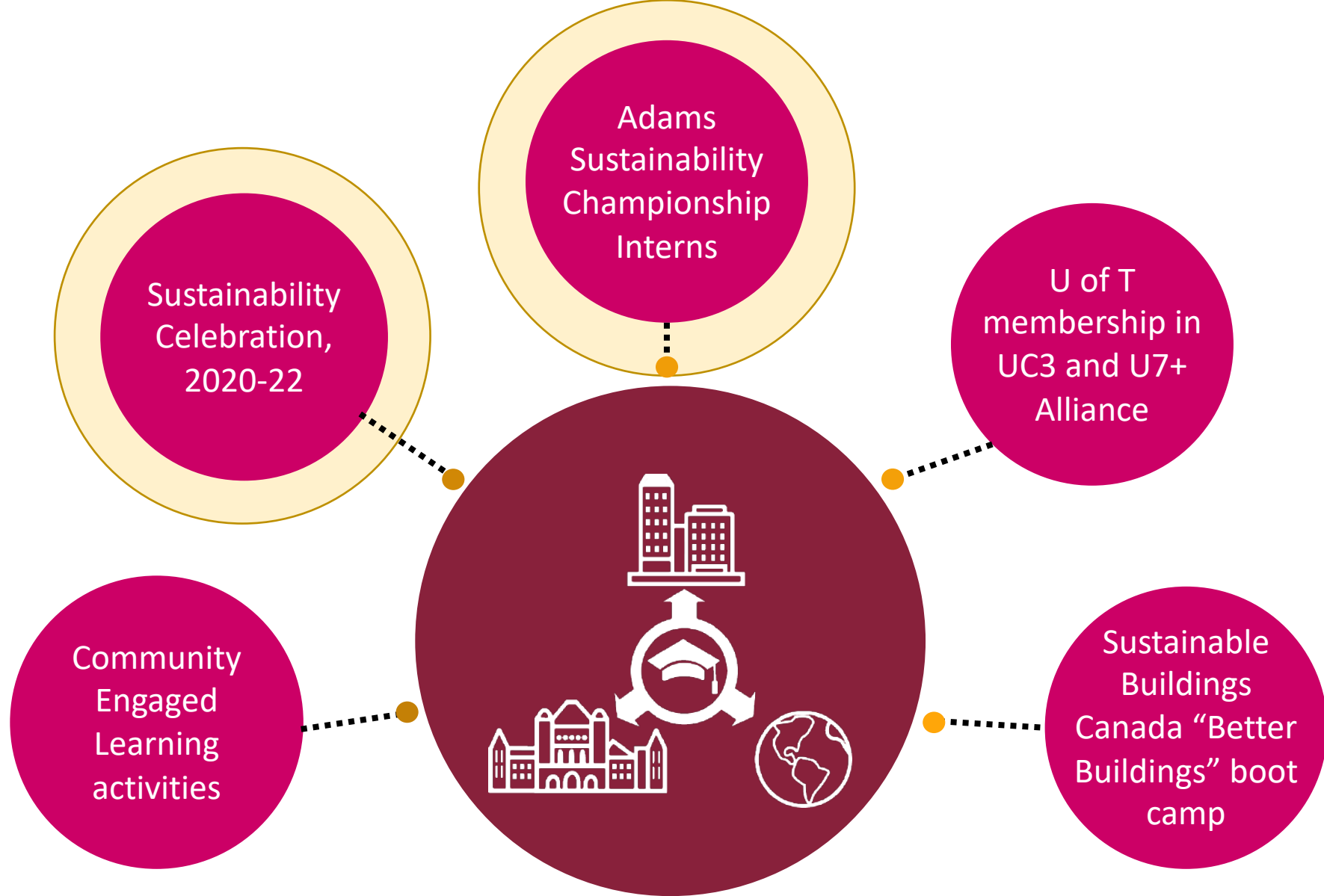




CECCS

University as Agent of Change





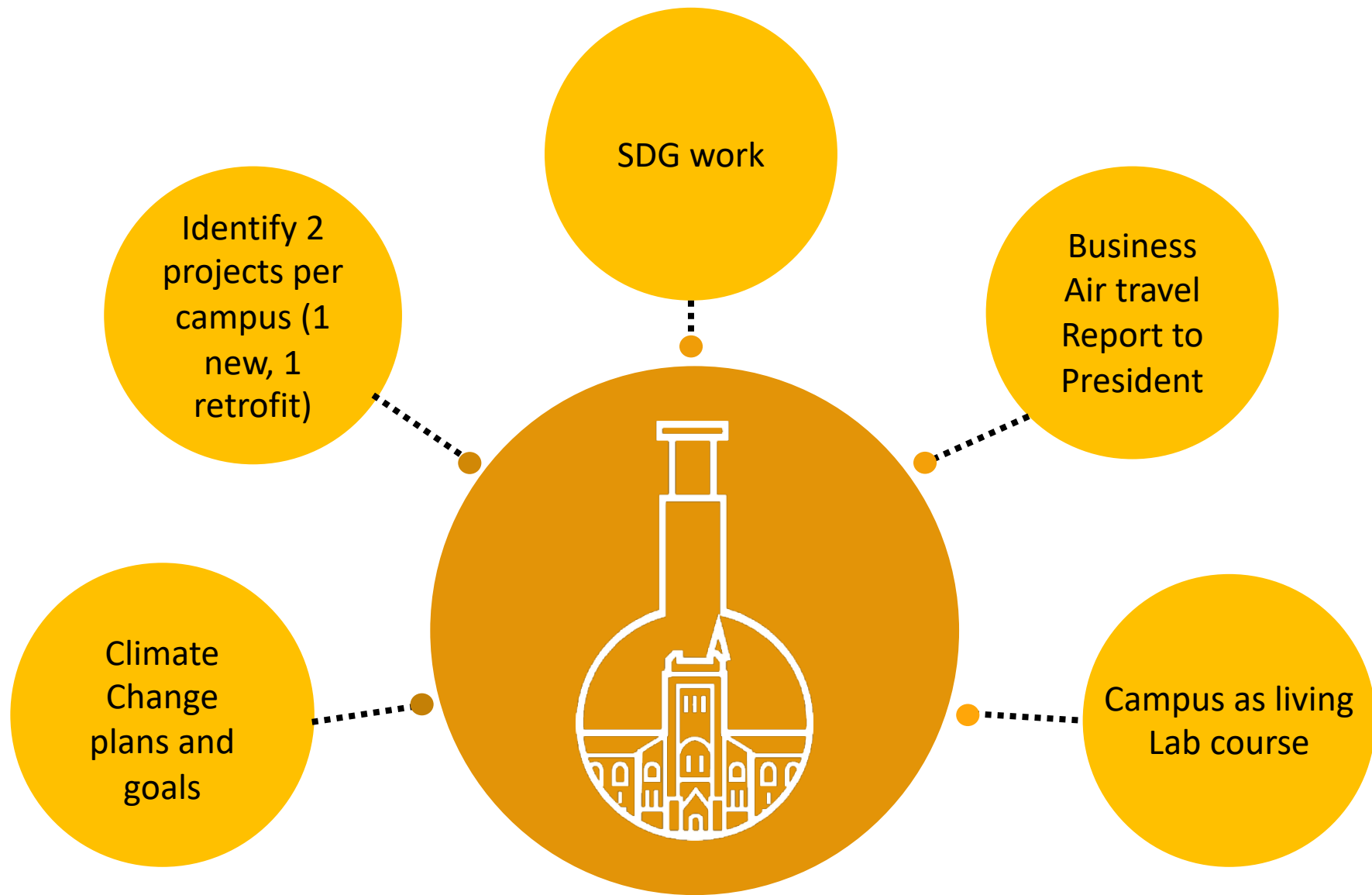
2. University as Agent of Change

CECCS

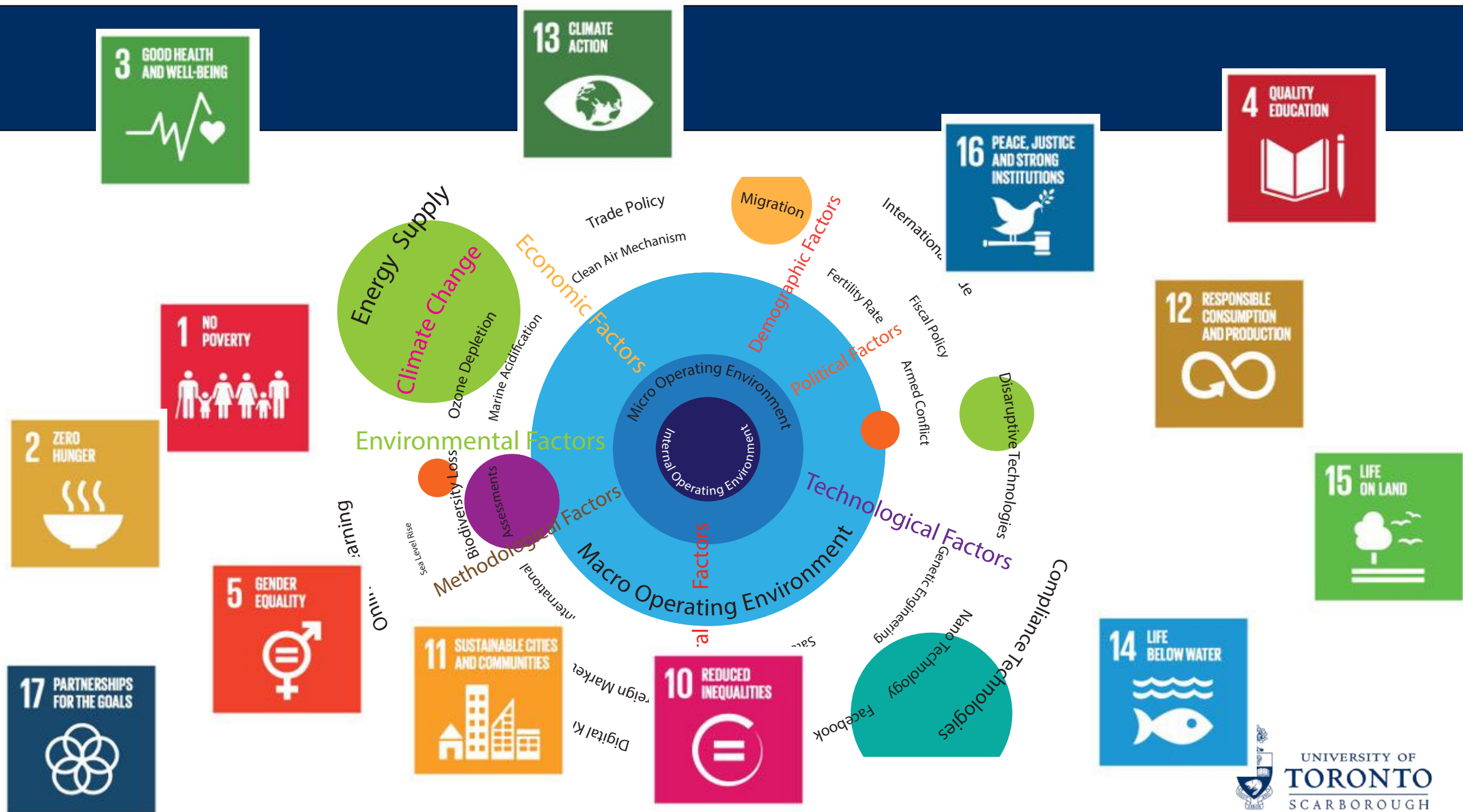
Campus as Living Lab



We now have a lot of pieces to be able to turn back and contextualize the amazing work that has been done at UTSC, within a broader, international framework, so that we can both learn from, but also contribute to the environmental challenges that face us.



1. Campus as Living Lab



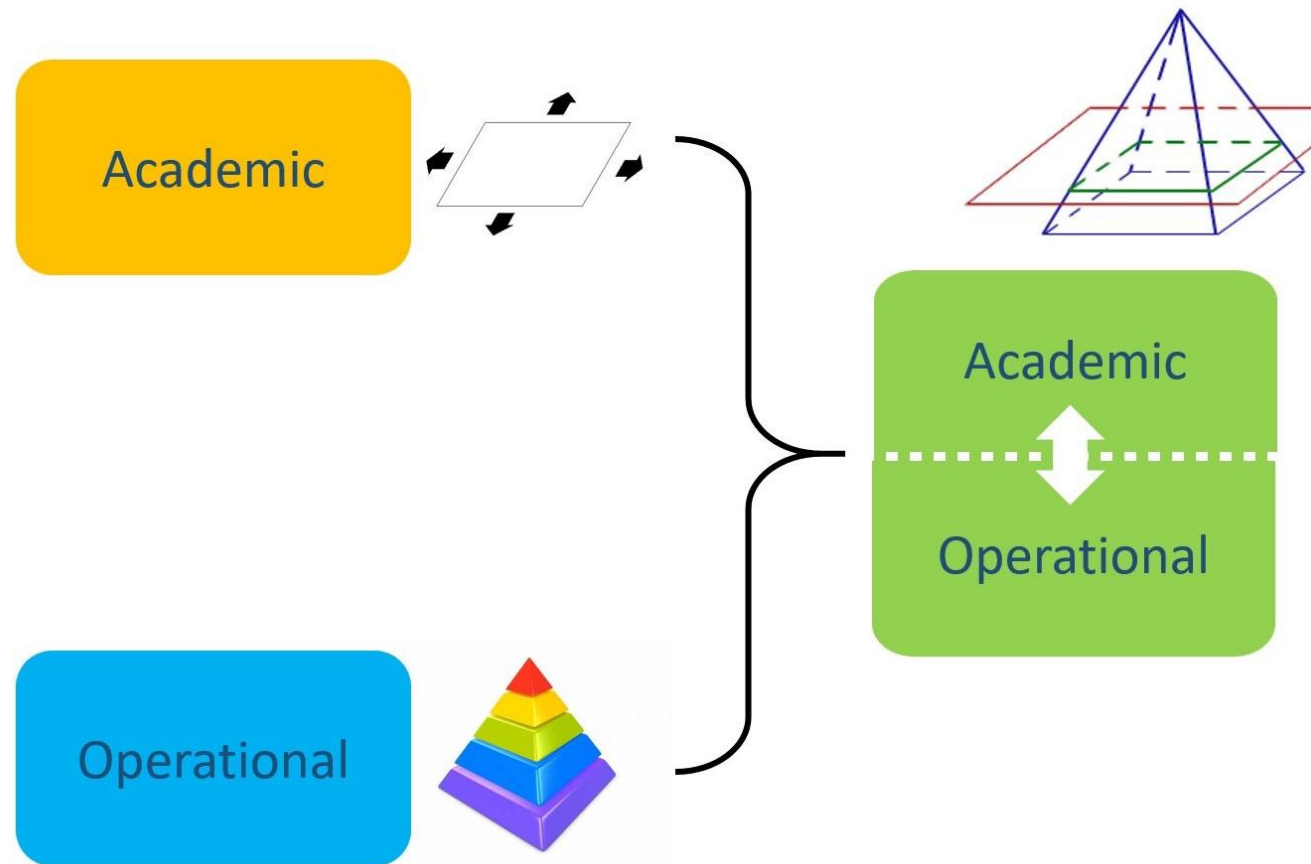
SUSTAINABLE DEVELOPMENT GOALS



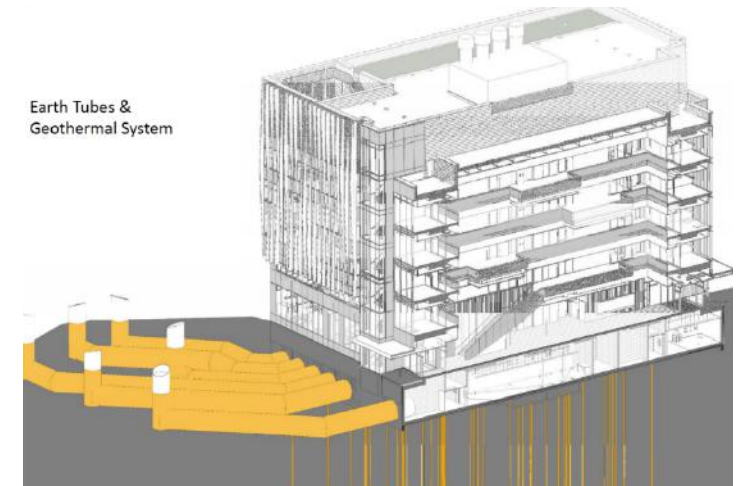


SUSTAINABLE DEVELOPMENT GOALS

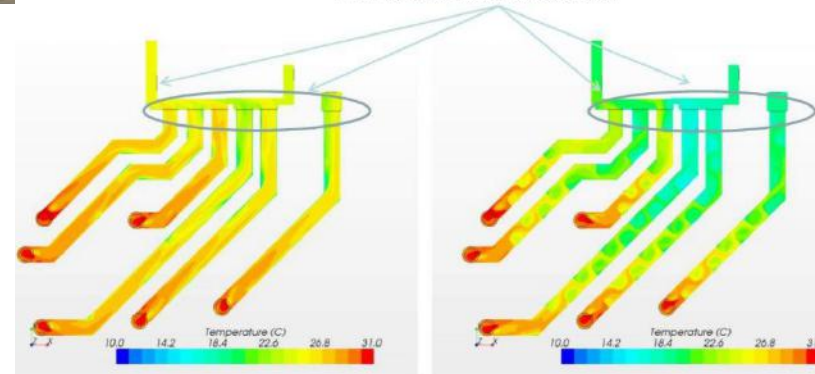




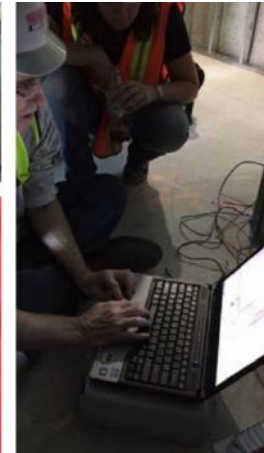
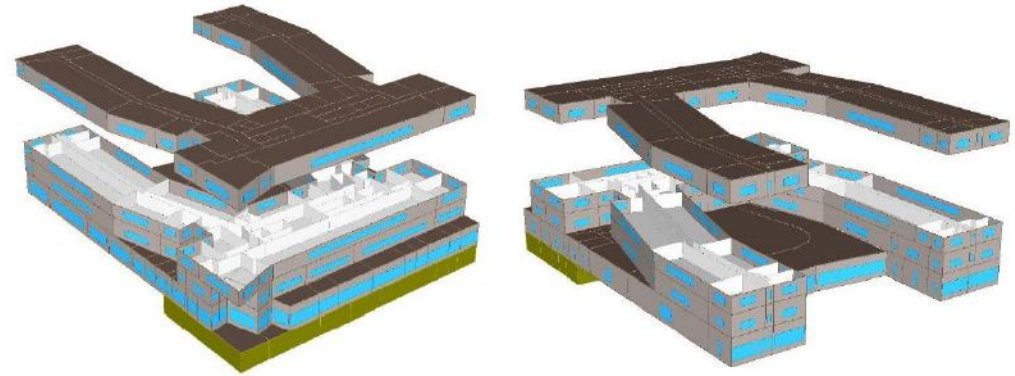
Case Study: Environmental Science and Chemistry Building



Baffles increase heat transfer effectiveness —
in this case the air exits the tubes cooler.



Case Study: Passive House



Case Study: Renewal for Carbon Reduction

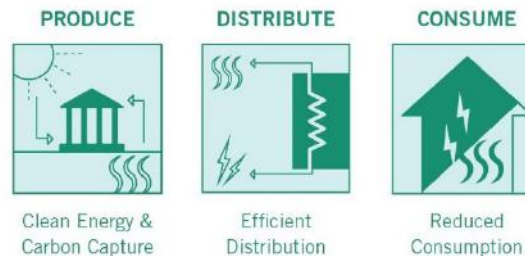


The University of Toronto Scarborough is continuing to convert campus building heating systems from steam to hot water. Building on renovations on the original Science Wing building, UTSC will continue to convert heating systems in

the Humanities Wing, including the installation of high-efficiency boilers and ground source heat pumps. Combined with improved delivery and controls, the new system will result in better comfort and substantially lower GHG emissions.



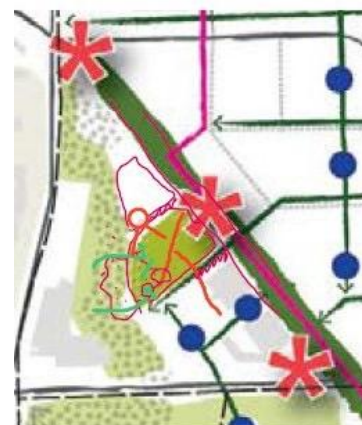
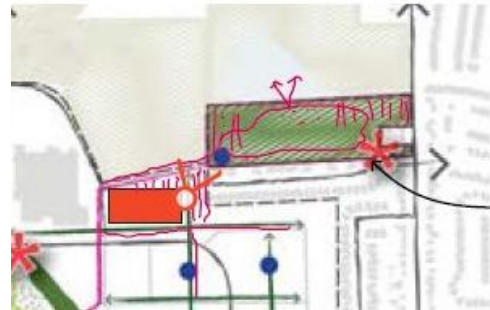
UTSC Science Wing. Credit: Ken Jones



Distribute: Efficient Distribution



Case Study: Landscape, Urban Farming and Public and Green Space





ARRIVAL: VIEW EAST TOWARD ENTRANCE

TAKE HOME

1. MANDATE: Information Session → UTSC Sustainability Panel Discussion (March)
 - The purpose of the current event is to set up the groundwork for a follow up event in March. This event is intended to provide individuals on campus with the opportunity to actively participate in developing a proactive and engaged culture of sustainability on campus.
2. NEXT STEPS
 - Use the information we have generated to ...
3. RESOURCES:
 - Link to the UTSC Strategic Plan
 - Link to the CECCS report
 - Link to Sustainability SDGs



Campus as Living Lab

University as Agent
of Change

Curriculum Innovation

