The SMART Healthy Cities Training Platform

2025 SUMMER SCHOOL PROGRAM

Leveraging Data Science, AI, and Cross-Sector Collaboration for Sustainable Ecosystem Innovation

Montreal, May 26th-30th 2025

In Person: McGill Desautels Faculty of Management
Bronfman Building, 1001 Sherbrooke West, Montreal, Quebec

For remote participation (Day 1 and Day 5):
https://mcgill.zoom.us/j/89544323811?pwd=uQo8mb61YldIzchl63G1LuENy6FXdN.1

Mentorship Team-Academic
Laurette Dube, Jian Yun Nie, Raja Sengupta, Catherine Paquet, Anna Liisa Aunio, Kevin Manaugh, E.Miezah Kwofie, Tirtha Dhar, Miyoung Suh and David Ma

Mentorship Team- Action Leadership and Real-World Impact
Steven Clarke, Arnaud Montpetit, Frederic Blaise, Felipe Almeida, Sonali Kulkarni

Technical and Data Support:
Ghina ElHaffar, Fares Belkhiria, and Jean-Olivier Pitre

Logistics Support:
Kitty Murphy and Natalia Diamond

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SMART Healthy Cities Training Platform

The SMART Healthy Cities Training Platform was established to accelerate the training of the next generation of health, social sciences and humanities, management, engineering and natural science researchers who can go beyond that has been possible so far in finding ways to make Canadian cities healthier, more livable, and more resilient to improve population health.

The program is designed to provide trainees with the knowledge, skills and tools to tackle many of the challenges faced in urban environments, creating smart solutions to improve food access, mobility, and health in Canadian communities, including First Nations.

The SMART Training Platform offers courses, summer school and annual conferences to build human capacity and support a vibrant community of researchers, trainees and stakeholders with an interest in implementation science. This initiative is supported by a 6-year grant cofounded by the Canadian national funding agencies, CIHR, NSERC and SSHRC. Additional information about the SMART Training Platform can be found at https://smart-training.ca/.

The Convergence-by-Design approach to implementation science

Precision convergence science and innovation (PC) is an interdisciplinary, person-centered, digital-powered ecosystem approach to real-world solutions anchored in science, technology and innovation as well as the best of current practices and traditions. PC seamlessly integrates around targeted real-world solution portfolio in disciplinary fields such as behavioral and social sciences, economics, management, geography, health/healthcare, data science, artificial intelligence, with those from other domains and sectors forming society to promote a comprehensive understanding of modern challenges within and across these sectors (See Figure.1). Trainees who participate to the 2025 SMART summer school will be equipped with innovative cross-disciplinary tools and analysis methodologies organized around a central Hackathon, empowering them to devise adaptive and sustainable strategies that address current complexities, benefiting individuals, businesses and the broader society.

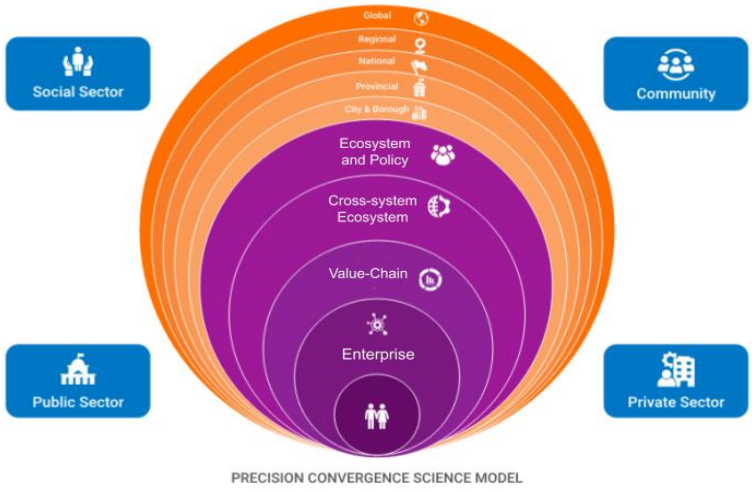


Figure 1. Precision Convergence Science and Innovation

The summer school activities are designed to play a trailblazing role in the training of a new breed of business leaders, professionals, and disciplinary scientists who excel in the creation of their respective breakthrough knowledge and are equipped with bridging frames, mindsets, theories, and methods to understand and contribute to societal-scale behavioral change in an ecosystem approach.

Learning Objectives & Outcomes

Each team will choose the sectoral and enterprise within-sector challenge that they will work on addressing. Each challenge statement will be carefully refined with actors involved to address key pain and possibility points in

their current business/operating models. The solution proposed by each team must be practically feasible, and be cross-cutting to optimize individual, organizational, and social outcomes.
By the end of the 2025 SMART Summer School, participants will:

1. Understand Ecosystem-Level Constructs
2. Engage with Analytic Frameworks
3. Design Practical Applications

The 2025 Hackathon: Addressing Enterprise and Sector Challenges

The core challenges we have at society level at a time of recurrent disruption and extreme uncertainty is to move away from the present divides between the social and commercial side of our everyday life, toward what we have called convergence economy, i.e., a holistic approach to society that capitalize on digital and human intelligence, entrepreneurship and empathy to accelerate behavioral change at scale and systemic change, fostering innovation technologically, socially, and institutionally around concrete real-world solutions that individually and collectively advance human health, planetary sustainability, and inclusive prosperity.

The 2025 Hackathon around which Summer School program is organized to bring together the foundational principles of Precision Convergence (PC) to address real world solutions in four key sectors forming economies and societies, be it in large metropoles or regional towns and villages within which individuals, communities, enterprises and institutions operate. The four sectors the Hackathon will be zooming in on are Agri-food & Nutrition, Housing & Real Estate, Regional Development & Transportation, and Community, Health/healthcare Services.

To ensure tractable scope of work during the one-week hackathon, two levels of challenges will be considered, namely at sector level, and second, within any of the 4 target sectors, at the level of one of the enterprise/organizations invited to participate within each sector. Each team will first choose the sector and the target enterprise within each sector. They will examine how to share and integrate advanced data-driven tools and insights to tailor and support transformative solutions. These solutions at sector and enterprise level will foster synergies among diverse, multi-scale, multi-stakeholder, and multi-jurisdictional data-driven projects. By building bridges across these initiatives, the outcomes will directly contribute to the effective implementation of the convergence-by-design approach to support the creation of a convergence economy, in Montreal, Quebec, Canada and worldwide. As illustrated in Figure 2 the program framework places PC at the center, highlighting its role in connecting diverse enterprises/organizations within any given sector and diverse sectors forming society through data-driven insights and cross-sector collaboration.

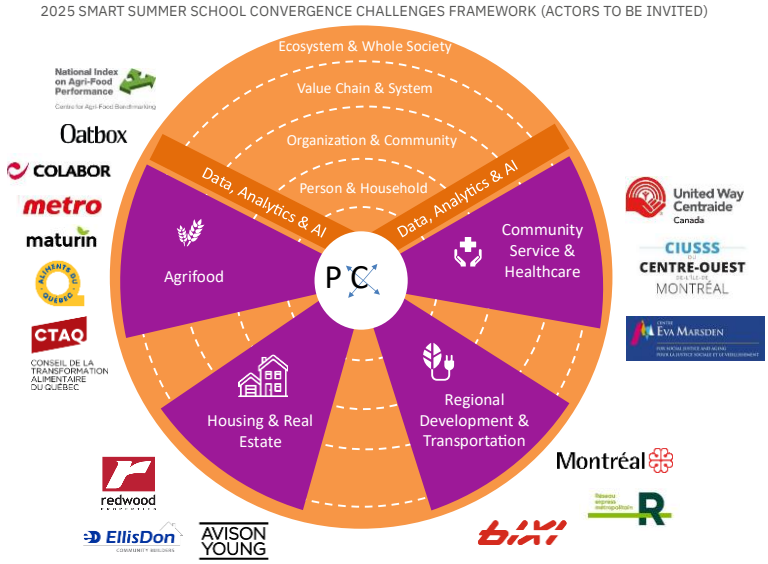


Figure 2. Summer School Convergence Challenges Framework (Actors To Be Invited)

The organizations featured on Figure 2 are currently being invited to participate in the 2025 Hackathon in a manner that maximizes the return on brain and time investment for themselves and for the overall program. Most of invited partners have already been engaged in one form or the other in some convergence activities. Actors of each specific sector will be asked to participate to a 60 minutes virtual sectoral roundtable prior to the summer

school to discuss their key respective challenges and these of the sector, with material for initiating the discussion presented below (one-on-one discussion can also be arranged if roundtable not possible). The 4 sectoral roundtables will be hosted and recorded t for teams to choose in the preparatory sessions the sector and enterprise/organizations within sector.

Agrifood Sector Create innovative, data-driven solutions that strengthen resilience, enhance biodiversity metrics, and optimize the sustainability and usability of the Agri-food ecosystem at individual, organizational, and societal levels.		
Agrifood Sector Roundtable: https://www.dropbox.com/scl/fi/03nkwkxkigwsccv5a0y90/GMT20250507-173108_Recording_1920x1080.mp4?rlkey=motplz2j4ci90smtatax0vo6t&st=i91d8wfo&dl=0		
Actors	**Challenge Statement**	**Relevant Datasets**
Oatbox	Develop an innovative, scalable, and data-driven solution that repurposes Oatbox's spent oats (dreche) into value-added, sustainable products. The solution should enhance operational circularity, promote waste reduction, and align strategically with consumer demand for eco-friendly, nutritious, and locally-sourced food alternatives, thereby expanding Oatbox's market presence and leadership in sustainability.	Ecology Data, SynthEco, Urban Agriculture Survey Loyalty Data
Colabor	Design a data-driven solution leveraging consumer insights and market analytics to help Colabor better understand evolving purchasing behaviors, accessibility, sustainability preferences, and operational practices among commercial food establishments (restaurants, hotels, institutional food services). The solution should enable Colabor to strategically align its product offerings and distribution strategies, optimizing inventory management, reducing waste, and strengthening its market position in the food-service landscape.	

Regional Development & Transportation Sector Address critical urban development needs and enhance sustainable transportation infrastructure to improve accessibility, mobility, and community resilience across Montreal.		
Transport Sector Roundtable: https://www.dropbox.com/scl/fi/zbx6qkib21sg90sqsxkzd/video1034009679.mp4?rlkey=22mxzqojyt225tymy9bn0c1rc&st=wz9570kj&dl=0		
Actors	**Challenge Statement**	**Relevant Datasets**
BIXI	Develop strategies leveraging BIXI's extensive usage data, accessibility insights, and transportation analytics to optimize cycling infrastructure, enhance user experience, and expand equitable access to sustainable mobility solutions.	Census Accessibility Climate Transport BIXI Montréal, Public Transit Usage, SynthEco

Community Service & Healthcare Sector Design integrated and preventive community health strategies to reduce social isolation, improve accessibility to healthcare services, and enhance overall population well-being, especially among vulnerable populations.		
Healthcare Sector Roundtable: https://www.dropbox.com/scl/fo/kbeep2q4lxr9zirfexsjm/AMY1fce0zBdOEQoxyZ-kQBw?rlkey=e88imyb5wot1zbzfmrtd4i51x&st=vjnht1km&dl=0		
Actors	**Challenge Statement**	**Relevant Datasets**

Eva Marsden Centre + CIUSSS Centre Ouest	Identify gaps in the existing current offering of services that could be offered to individuals as part of an implementation of a Social Prescription Program on the island of Montreal. Maintain a comprehensive and updated list of services and organizations indicating in real time that services are available and for whom.	Census Data, Accessibility Data, SynthEco, Suivis des demandes d'aide alimentaire au 211

Housing & Real Estate Sector Develop affordable, inclusive, and sustainable housing solutions that integrate multi-purpose, multi-generational design principles to address housing affordability and community well-being.		
Real estate roundtable: https://www.dropbox.com/scl/fi/460t6bl5qsudnafcj3z0b/GMT20250507-123005_Recording_1920x1080.mp4?rlkey=khcmk10adgtvchgpstc92hsci&st=cv9wl5j9&dl=0		
Actors	**Challenge Statement**	**Relevant Datasets**
Redwood Properties	Can you measure the economic, social, and health benefits of growing food in the case study neighborhood, Harvest Village?	Housing Data, Housing Price and Availability, SynthEco, Census Data, Canadian Rental Housing Index Central, Statistics Canada – Housing.

The hackathon projects will be presented in the first morning of the program with the invited actors participating as a function of their availability in-person or virtually.

Over the course of the week, the teams will work with relevant datasets to develop innovative, data-driven solutions optimized for convergence outcomes across the multiple scales presented in the figures above, i.e., the person/household at the center; the enterprise/organization/communities; value chains and systems; natural and human-made ecosystem and society.

With support and mentorship from both real-world and academic sides, teams will apply analytical frameworks grounded in all the disciplines needed to embrace, in a digital- and human-powered manner some of the complexity involved in designing scalable strategies that are context-aware, market-ready, and policy-relevant.

Summer School Schedule 2025

Monday 26th May (hybrid) For remote participation:		Armstrong Building- A260
8:00	Arrival and Welcome	
8:30	**Opening session:** - Convergence-by-Design Approach to Implementation Science for Smart and Healthy Cities *Laurette Dube, David Ma, Miyoung Suh*	
9:45	**Break**	
10:00	**Challenge Presentations and Q&A session with Actors** – Agrifood Enterprise and Sector Challenge – Housing/Real-estate enterprise and sector Challenge – Regional Development/ Transport sector Challenge – Community/Health/healthcare care services *Moderator: Arnaud Montpetit and Tirtha Dhar*	
12:00	**Lunch**	**Armstrong Building- A365/370**
13:00	**Design thinking workshop:** - From Status Quo, to Zone of Proximal Development, to Nirvana *Felipe Almeida & Chloe Benaroya*	
3:00	**Break**	
3:15	**Knowledge Session 1** - Decision support to individuals: Machine Learning and Generative AI for General and Vulnerable Population *Jian Yun Nie*	
3:45	**Knowledge Session 2** - Data-Driven Marketing for Sustainable and Scalable Enterprise Solutions for Equity: The case of Food *Yu Ma and Cameron McRae*	
4:15	**Knowledge Session 3** - Regenerative and Resilient Community Design *Steven Clarke*	
4:45	**Knowledge Session 4** - SynthEco as Multi-Layered and Multi-Actors Decision Support *Catherine Paquet*	
5:15	**Summary and Closure of Day 1** *Student milestone:* - *A clear research question that each team will address* - *Stakeholders' identification* - *Data sources to use*	
Tuesday 27th May (hybrid)		
8:00 **8:15**	Arrival Overview of the day	**Armstrong Building- A265**

Parallel Knowledge Sessions	**Session Agri/ Food/ Nutrition :** **In person: Room A 375** **Online:** https://mcgill.zoom.us/j/88333448931?pwd=QfoGpu6ZWvkhb1Dd5wB18JbhrwbiUK.1	**Session Housing/Real Estate:** **In person: Room B045** **Online:** https://mcgill.zoom.us/j/88674769864?pwd=cT8ZjjZzR7yr5ORDAS2NfYbcuANTJL.1	**Session Regional Development/ Transport:** **In person: Room B245** **Online:** https://mcgill.zoom.us/j/83618763700?pwd=RCsJPuyNYbUYLa07SnbfIbNM3YDC7r.1	**Session Community/Health /Healthcare:** **In person: Room B575** **Online:** https://mcgill.zoom.us/j/85337971434	**DIVERS**
8:30	Neilsen IQ data, Quebec food consumer trend, targeted stakeholders data needs*Francis Parisien* On Targeted Transaction and Long term Client Relationship, *Kate Crawford, Metro Inc*	Systems Science and Systems Engineering Lenses *Raja Sengupta & E. M. Kwofie*	Decision Support for Active Mobility *Kevin Manaugh & Yan Kestens*	Digital platforms for social prescription *Alayne Adams & Danielle Bouchard*	
10:00	**Break**				
10:30	Digital support to Design and Monitoring of Local, National and Global Multi-Actors Market and Supply Chain Ecosystem in Industrialized and Developing Contexts *Mehmet Gumus & Kakali Mukhopadhyay*	Collaborative Design: Bridging Architecture, Real-Estate, Community Desing and Policy for Social and Commercial Housing/Real estate impact Impact *Steven Clarke & David Waschmuth*	Urban sprawl unstoppable? On the importance of greenbelts, targets, and limits *Jochen Jaeger & Ian Hoskinson*	Digital support at the community/healthcare interfaces *Sara Ahmed & Daniel Ding*	
12:00	**Lunch**				**Bronfman B202**
1:00 **Parallel Knowledge Sessions**	Innovative Business Models, Multi-Level Governance, and Strategy for Digital Solutions in agri-food, manufacturing and retail *Arnaud Montpetit*		Sustainable Mobility and Infrastructure : a historic perspective of the city of Montreal *Luc COUILLARD (Ville de Montréal)*	Learning Population Health and Health system *David Kaiser*	
2:00	**Break**				
2:30	**Teamwork on challenges** *Student milestone:* *A structured plan for the solution and data analysis methodology*				

Wednesday 28th May 2025

8:00	Arrival				
8:15	Overview of the day				Bronfman- B245
8:30	**Teamwork: Developing Solutions**				
10:00	**Break**				
10:30	**Fluid Mentorship**				
	Agrifood	**Housing**	**Transport**	**Healthcare**	
Academic mentors	Jian Yun Nie – Room MC2001-1203 Tirtha Dhar- Room MC2001-1140	Steven Clarke- Room MC2001-1201	Raja Sengupta MC2001-1135	Catherine Paquet- MC2001-1203	**McGill College Building**
Practice mentors	Arnaud Montpetit- Room MC2001-1135	Sonali Kulkarni- Online: https://mcgill.zoom.us/j/81910843890	Felipe Almeida MC2001-1140	Anna-Liisa Aunio- MC2001-1201	
12:00	**Lunch**				**Bronfman- B202**
1:00	***Team Presentations + Structured Feedback from Mentors*** ***(5 mins presentation per team + 10 minutes feedback)*** Agrifood teams Real estate teams Transport teams Healthcare teams				**Bronfman-** B245
4:00	**Continued Team work**				
Student milestone: *Integrating convergence economy, and high-level insights (sector level challenges)*					

Thursday 29th May 2025

8;00	Arrival				
8:15	Overview of the day				
8:30	***Fluid Mentoring*** + teamwork				
	Agrifood	**Housing**	**Transport**	**Healthcare**	
Academic Mentors	Jian Yun Nie – Room A375 Tirtha Dhar- Room B046	Steven Clarke-B575	Raja Sengupta B045	Catherine Paquet- A375	
Practice mentors	Arnaud Montpetit- Room B045	Sonali Kulkarni- Online: https://mcgill.zoom.us/j/81910843890	Felipe Almeida B046	Anna-Liisa Aunio- B575	
10:00	**Break**				
10:30	***Fluid Mentoring*** + teamwork				
	Agrifood	**Housing**	**Transport**	**Healthcare**	
Academic Mentors	Jian Yun Nie – Room A375 Tirtha Dhar- Room B046	Steven Clarke-B575	Raja Sengupta B045	Catherine Paquet- A375	
Practice mentors	Arnaud Montpetit- Room B045	Sonali Kulkarni- Online: https://mcgill.zoom.us/j/81910843890	Felipe Almeida B046	Anna-Liisa Aunio- B575	
12:00	**Lunch**				**Bronfman-B202**

1:00	Teamwork	
Student milestone: *A near-final solution addressing the actor challenge, sector challenge and societal challenges, with supporting data and insights.*		

Friday 30th May 2025

For remote participation: https://mcgill.zoom.us/j/82638558906?pwd=NaXKbTDgLeIJ2tW9V8xYwlwAJZfoal.1

8:00	Arrival	*Armstrong Building Room 260*
8:15	**Welcome Guests and Brief on Challenges**	
8:30	Challenge 1: Agrifood	
9:20	Challenge 2: Transport	
10:10	**Break**	
10:40	Challenge 3: Housing	
11:30	Challenge 4: Healthcare	
12:20	**Lunch**	**Bronfman-B202**
1:20	**Announcing the Winners and Prizes** **Closing Keynote and Panel:** - The Many Digital- and Human-Powered Paths to Smart Healthy Cities and Lifelong Wellness in an Aging World Keynote: *Jonathan McGavock* **Panel** *Amanda Sheedy* *Marie Eve Gagnon* *Maiya Geddes* *Alan Forster* *Ponnambalam Kumaraswany*	
Student milestone: A polished final presentation		

Preparation for Summer School

Prior to the summer school, participants will engage in a structured virtual preparation phase designed to ground them in the principles of Precision Convergence and equip them with the sector-specific insights, tools, and analytical methods needed to fully participate in the Hackathon experience.
The preparatory phase unfolds in two waves:

- **Prepping Week 1** centers on sector-level **Roundtable Discussion Sessions** featuring key ecosystem partners from each of the four focus areas.
- **Prepping Week 2** offers a series of **skills-based learning sessions**, including hands-on introductions to implementation science, systems thinking, design methods, and open-access data tools.

Prepping week 1 – virtual - Week of April	
Wednesday 7th of May	Agrifood
1:30- 3:00	**Sector Level Roundtable Discussion Sessions** Invited partners: - Agrifood Index - Maturin - Metro - Collabor - Aliment du Quebec + academic mentor (professors)
Wednesday 7th of May	Housing
8:30 to 10:00	**Sector Level Roundtable Discussion Sessions** Invited partners: - Avison Young - Redwood - EllisDon
TBD	Healthcare
	Sector Level Roundtable Discussion Sessions Invited partners: - CIUSS - United Way / Centraide - Eva Marsden
Thursday 8th of May	Transport
9:00 – 10:30	**Sector Level Roundtable Discussion Sessions** Invited partners: - Ville de Montreal - Bixi - Rem: Réseau express métropolitain

Prepping week 2- virtual – Week of May 12th	
Monday 12th of May 2025	
1pm to 3 pm	**Information session** 1) Methods to use to resolve the challenge (Ghina) - Implementation Science - Convergence by Design - Design Methods 2) Data resources and software available (Fares)
Tuesday 13th of May 2025	
1PM- 3PM	**Q-GiS and SynthEco by Prof Raja Sengupta**
Monday 15th of May 2025 Introduction to challenges: mini-introduction sessions	
1 pm to 1:30pm	Challenge 1: Agrifood
1:35 pm to 2:05pm	Challenge 2: Housing
2:10 pm to 2:40pm	Challenge 3: Healthcare
2:45pm to 3:15pm	Challenge 4: Transportation
Student milestone: - A preliminary understanding of the challenge (no need for full solutions yet) - Exploring of relevant datasets - Confirm challenge selection per team (Friday prior to the summer school) - Communication channel	

Mentors

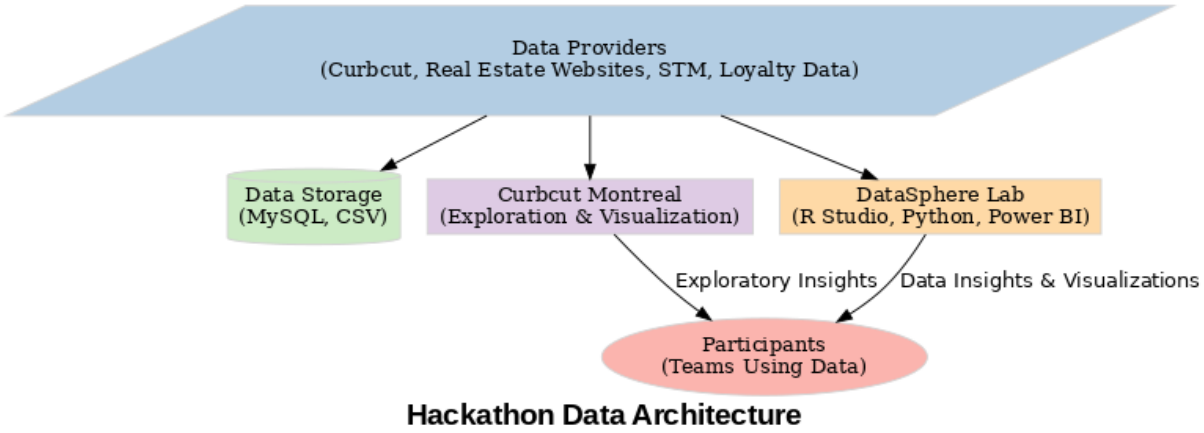
This year, we are enhancing the mentoring process to create a more structured and impactful experience.

Fluid Mentoring: Each team will be assigned both an academic mentor and a practice mentor, who will provide extensive one-on-one mentoring throughout the week.

Structured Mentoring: Additionally, on Day 3 of the Summer School, all mentors will come together for a structured feedback session. During this session, teams will present their solutions, and mentors will provide targeted feedback to help refine and advance their ideas.

Accessing Data for the Hackathon: Instructions for Participants

To support participants' anchored innovation and data-driven problem-solving efforts during the hackathon, we have arranged access to a wide array of datasets. These datasets can be very powerful in guiding the participants ideation and solution design phase.



Hackathon Computing Architecture

Table: Overview of Available Datasets

Dataset Name	Description	Potential Uses
1. Open Data – BIXI Montréal	Comprehensive dataset covering BIXI bike routes and client usage patterns in Montreal (12 years).	Optimize cycling infrastructure, target expansion.
2. Census Data	Demographic, socioeconomic, geographic data on Montreal residents.	Identify socio-economic disparities, target interventions.
3. Accessibility Data	Data on curb cuts, sidewalk conditions, and accessibility features.	Inclusive mobility and urban planning solutions.
4. Ecology Data	Data on vegetation, green alleys, urban greenery, and natural infrastructure.	Evaluate greening initiatives, biodiversity strategies.
5. Transport Data	Metrics on bikeway comfort, amenities, and road safety in Montreal.	Enhance route safety, optimize active transportation infrastructure.
6. Climate Data	Land surface temperatures, heatwaves, flooding risks.	Develop climate-resilient solutions, identify vulnerable communities.
7. Housing Data	Vacancy rates, affordability indices, housing stock in Montreal.	Address housing stress, promote affordability.
8. SynthEco	Synthetic population, points of interest, accessibility, transportation networks, health outcomes.	Simulate urban interventions, optimize policy decisions.
9. Loyalty Data	Longitudinal data on consumer purchasing behaviors and travel patterns to retail stores.	Analyze consumer behavior, optimize market strategies.
10. Housing Price and Availability	Data on housing prices, rental rates, vacancy rates across Montreal neighborhoods.	Identify affordable housing, develop equitable urban strategies.
11. Public Transit Usage	Ridership data for bus and metro systems in Montreal.	Enhance public transit infrastructure, reduce car dependency.
12. Urban Agriculture Survey	Data on urban agriculture practices, locations, and sustainability behaviors in Montreal.	Promote urban food production, optimize resource use.
13. Food Aid Requests (211)	Requests for food aid services across Greater Montreal.	Improve food aid delivery, address food insecurity.
To come	Green infrastructure, gov and private expenditure on green. Materiel used in construction, technology Kakli sustainability index	Fleshout the agrifood sustainability index, fleshing our all our actos, metro and oatbox more retailing, whereas the rest is more local and connecting it with the market.

Resources

Required Presentations to Watch Prior to the Summer School:

Title of Presentation	Presenter	Title	Link
What is 'Implementation Science'	Alayne Adams	SMART Methods Café	Click here
Community-based participatory research	Natalie Riediger	SMART Methods Café	Click here
Convergence by Design	Laurette Dubé	SMART Methods Café	Click here
Design Methods	Steven Clarke	SMART Methods Café	Click here
Addressing Wicked Problems of Health and Access to Affordable Food and Healthcare through Open Science Partnerships	Richard Gold	MCCHE: Convergent Innovation Webinar	Click here
Inventing a Precision Science for a World Reset on Convergence Economy	Laurette Dubé, Shawn Brown	MCCHE: Convergent Innovation Webinar	Click here

Optional Presentations -Sector Specific Knowledge

Agrifood teams (optional)

Transparency and Trust in the Food Chain: The importance of Digitation and Convergence to facilitate Society 5.0 goals	John Keogh	MCCHE: Convergent Innovation Webinar	Click here
Grocery purchase data using loyalty cards – a novel method for dietary assessment and personalized feedback	Mikael Fogelholm	MCCHE: Convergent Innovation Webinar	Click here
Food Entrepreneurs For Scaling Resilient Agriculture Businesses and Digital Empowerment: Real-Life Cases from Africa and Insights for a Post-Covid 19 World Reset to Convergence Economy	Ndidi Nwuneli	MCCHE: Convergent Innovation Webinar	Click here
Maturin	Jonathan Bélanger	McGill MRKT 690 Precision Retailing Course Recording	Click here

Health teams (optional)

Digital Health and Patient Centered Outcomes	Sara Ahmed, Audrey Durand	SMART Methods Café	Click here
Socio-spatial epidemiology	Catherine Paquet, Raja Sengupta	SMART Methods Café	Click here
Intro to Health Economics	Luc Clair	SMART Methods Café	Click here
Learning Health Systems	Jennifer Gutberg	McGill MRKT 690 Precision Retailing Course Recording	Click here
Healthcare's Last Mile Problem	Karim Keshavjee	McGill MRKT 690 Precision Retailing Course Recording	Click here

Transportation teams (optional)

Urban sprawl unstoppable? On the importance of greenbelts, targets, and limits	Jochen Jaeger	MCCHE: Convergent Innovation Webinar	Click here
Uberizing Environmental Action	Peter Schelstraete	MCCHE: Convergent Innovation Webinar	Click here
How Cities Can Make Ride-Hailing Services Environmentally Sustainable	Animesh Animesh	Delve: Podcast	Click here

Housing teams (optional)

Green finance for the real-estate sector and affordable housing	John Uhren	McGill MRKT 690 Precision Retailing Course Recording	Click here
Sustainability and Commercial Real Estate	Marie France Benoit	McGill MRKT 690 Precision Retailing Course Recording	Click here

Smart Leaders, Mentors and Presenters

SMART Training Platform Leads

Laurette Dubé is an Emerita Professor and James McGill Chair of Consumer and Lifestyle Psychology and Marketing at the Desautels Faculty of Management. She is the Founding Chair and Scientific Director of the McGill Centre for the Convergence of Health and Economics (MCCHE). Originally trained as a nutritionist, with graduate degrees in finances (MBA), marketing (MPS), and behavioural decision making/consumer psychology (PhD), Dr. Dubé's lifetime research interest bears on the study of affects, behavioural economics, neurobehavioural, and socio-economic processes underlying consumption, lifestyle, and health behaviour. Her translational research examines how such knowledge can inspire more effective behavioural change and ecosystem transformation as scale to address complex challenges and possibilities facing modern society.

Miyoung Suh is a Professor in the Department of Food and Human Nutritional Sciences at the University of Manitoba and serves as a Principal Investigator in both the Division of Neurodegenerative and Neurodevelopmental Disorders and the Canadian Centre for Agri-Food Research in Health and Medicine at the St. Boniface Hospital Research Centre. She is also the nutrition lead for the Canada-Israel International Fetal Alcohol Consortium, a global initiative focused on mitigating the impact of fetal alcohol spectrum disorder through perinatal nutrition strategies. Her ongoing research explores the critical roles of dietary lipids in the development and function of neural cells in the brain and retina, particularly under conditions of alcohol exposure, diabetes, and obesity. Additionally, she serves as a scientific health research liaison for the Opaskwayak Cree Nation (OCN) in The Pas, Manitoba. Her recent collaborative with OCN on a project to grow functional vegetables using smart vertical farm technology holds transformative potential in combating chronic diseases, especially diabetes, which is prevalent in northern communities. Overall, her research lays the groundwork for optimizing nutrition and developing dietary strategies that benefit both targeted clinical populations and the general public. Her work is currently supported by CIHR, NSERC-Horizon, and the CIHR Healthy Cities Research Training Platform (HCRTP).

David Ma is a professor in the department of Human Health and Nutritional Sciences (HHNS) and Director of the Guelph Family Health Study (GFHS) at the University of Guelph. His research has produced nutrition papers on a wide range of topics from cells and experimental models of cancer to family nutrition. As the Director of the GFHS, a longitudinal cohort study of families with young children, he leads a team of investigators and trainees to better understand determinants of health. The goal is to develop tools and approaches to support healthy behaviours for the prevention of chronic diseases. Beyond the lab, he is a member of the City of Guelph-Smart Cities team, which was awarded an Infrastructure Canada grant to develop, Our Food Future, Canada's first circular economy. As a member he participates in the nutritious food workstream. Building on the work of Our Food Future, he is a co-lead of the SMART Training Platform, the first CIHR-NSERC-SSHRC shared tri-council training grant. This is a 6-year endeavour connecting 10 academic institutions across Canada and nearly 50 co-investigators and collaborators to build capacity in implementation science to advance healthy cities research and train the next generation of leaders.

Academic Mentors

Jian-Yun Nie

Kevin Manaugh

Catherine Paquet

Raja Sengupta

Ebenezer Miezah Kwofie

Tirtha Dhar

Jochen Jaeger

Yu Ma

Anna-Liisa Aunio

Practice Mentors

Felipe Almeida

Arnaud Montpetit

Sonali Kulkarni

Steven Clarke

Ian Hodkinson

Francis Parisien

Chloé Benaroya

Invited Speakers

Cameron McRae

Alan Forster

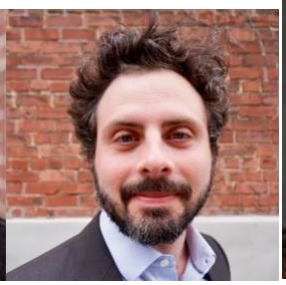
Maiya Geddes

Alayne Adams

Danielle Bouchard

Mehmet Gumus

Kakali Mukhopadhyay



David Waschmuth

Sara Ahmed

David Kaiser

Yichuan (Daniel) Ding

Jonathan McGavock

Kate Crawford

Yan Kestens

Luc Couillard