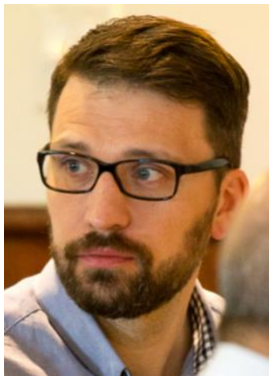
The Convergent Innovation Webinar Series:

Inventing "One-World" Solutions for Lifelong Wellness and Sustainable Economic Growth

Towards an Ontology of Traceable Impact Management in the Agriculture Food Chain



Dr. Bart Gajderowicz is the Executive Director and a Research Associate at the Urban Data Centre. His research goals focus on developing tools and methods for data-driven policymaking in the social service domain. He manages the Urban Data Repository and Catalogue project (CUDR), is a co-author of the Common Impact Data Standard (CIDS), is the lead researcher on SMILE, an explainable AI language model for measuring impact, and the development of tools for data translation, consolidation, and analysis. In 2019, he completed his Ph.D. in industrial engineering from the University of Toronto, creating a high-fidelity simulation environment (BRAMA) for emotion-based reasoning of social services clients and an ontology of social service needs (OSSN). He has held postdoctoral fellowships at Lakehead University, Tata Consultancy Services, and the University of Toronto.

December 7, 2023

11:00 am EST
(2 hrs in length)

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Chair: Laurette Dubé (Scientific Director of MCCHE)

Co-Chair & Moderator: John G. Keogh (Professor of Practice, MCCHE; Founder, Shantalla Inc.)

Abstract: The pursuit of quality improvements and accountability in the agricultural food supply chain has become increasingly vital, necessitating a comprehensive approach that encompasses product quality and its impact on various stakeholders and their communities. Such an approach offers numerous benefits in increasing product quality and eliminating superfluous measurements while appraising and alleviating the broader societal and environmental repercussions. A traceable impact management model provides an impact structure and a reporting mechanism that identifies each stakeholder's role in the total impact of food production and consumption stages. The model aims to increase traceability's utility in understanding the impact of changes on communities affected by food production and consumption, aligning with current and future government requirements, and addressing the needs of communities and consumers. This holistic approach is further supported by an ontological model that forms the logical foundation and a unified terminology. The model promotes global traceability, emphasizing quality and the extensive impact of championing accountability, sustainability, and responsible practices. With these combined efforts, the agriculture food chain moves toward a global tracking and tracing process that not only ensures product quality but also addresses its impact on a broader scale, fostering accountability, sustainability, and responsible food production and consumption.

PANEL DISCUSSION: A panel with scientists, business and policy leaders will discuss how scientific and technological developments and ontologies bridging farm, food and human behavior, can accelerate the design and long-term performance of convergence platforms ecosystems targeting achievable and time-bound real-world solutions placing human and environmental health at the core. This will advance the design of integrative digital architecture and governance framework to scale up how real-world data generated by individuals and institutions within and across disciplines and sectors can contribute to a World reset on convergence economy, building upon the challenges and possibilities reviewed above. Capitalizing on digital transformation of science and society, convergence economy takes a person-centered approach to bridging organizations and systems across sectors and jurisdictions, fully acknowledging that developed and developing worlds share the same planet, for world-scale transformation toward sustainable prosperity and affordable nutrition and health.

ABOUT THE SERIES: The Convergent Innovation Webinar Series features cutting edge science, technology and innovation in agricul- ture, food, environment, education, medicine and other domains of everyday life where grand challenges lie at the convergence of health and economics. Powered by data science, artificial intelligence, and other digital technologies, this disciplinary knowledge bridges with behavioural, social, humanities, business, economics, social, engineering, and complexity sciences to accelerate real-world solution at scale, be it in digital or physical contexts. Initiated in the agri-food domain, the series is now encompassing other grand challenges facing modern and traditional economies and societies, such as ensuring lifelong wellness and resilience at both the individual and population levels.

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