IMAGINING CANADA'S FUTURE
LEVERAGING EMERGING TECHNOLOGIES TO BENEFIT CANADIANS

We live in an ever more complex and digital world, characterized by growing volumes of data and a rapid expansion of technologies, from automation to 3D printing to web-based apps. These developments are dramatically impacting how we live, work and learn. Emerging technologies have great potential to improve our quality of life and to help us tackle complex challenges; yet, they also present new risks and uncertainties. To make the best use of emerging technologies, we need to better understand both their impacts and their possibilities.

The potential benefits and human dimensions of emerging technologies are explored in one of the six future challenge areas identified by the Social Sciences and Humanities Research Council's (SSHRC) Imagining Canada's Future initiative.

INSIGHTS ON THE RAPIDLY EVOLVING IMPACTS ON CANADIAN SOCIETY OF NEW TECHNOLOGIES

In 2016, SSHRC launched a series of activities to foster a dialogue among researchers, sector leaders and graduate students about emerging technologies. This included a Knowledge Synthesis Grant funding opportunity to synthesize existing knowledge, and identify gaps and strengths in research on the impacts of emerging technology.
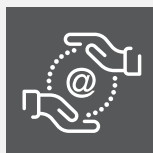
The report *Advancing knowledge on how emerging technologies can be leveraged to benefit Canadians* captures the key findings and top-level insights from this initiative, under five themes:

Access, adoption and empowerment
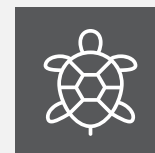
Revitalization of Indigenous languages and cultural heritage

Societal impacts and changing approaches to innovation

Technology in research and education

Governance, privacy, security, and the rise of big data

Download the full report today:
www.sshrc-crsh.gc.ca/imagining

RESEARCH FOR A BETTER TOMORROW.

SSHRC's Imagining Canada's Future initiative enhances the contributions social sciences and humanities make in addressing complex societal challenges facing Canadians over the coming decades.

ABOUT SSHRC

SSHRC is a funding agency of the Government of Canada. Through research grants, fellowships and scholarships, we support research that provides key insights on the social, cultural, environmental and economic challenges and opportunities of our ever-changing world.

SSHRC-FUNDED KNOWLEDGE SYNTHESIS GRANTS: LEVERAGING EMERGING TECHNOLOGIES TO BENEFIT CANADIANS

Emerging uses of big data in immigration research
William J. Ashton, Brandon University

The preservation of self-image: Understanding the technology adoption patterns of older adults
Arlene J. Astell, University of Toronto

3D printing: From technical marvel to organizational, economic and social issues
Guillaume Blum, Université Laval

Digital inequalities: From socio-economic impacts to recommendations
Simon Collin, Université du Québec à Montréal

Knowledge synthesis on Aboriginal housing in Canada and the contribution of information and communications technologies
Pierre Côté, Sylvie Daniel and Geneviève Vachon, Université Laval; and Huhua Cao, University of Ottawa

The impact of emerging technology on developing and accessing assistive technology
Theresa Claire Davies and Elizabeth Delarosa, Queen's University

The design and development of digital return platforms for Northern Indigenous heritage
Peter Dawson, University of Calgary

The digital gap: Access, innovation and impact in Aboriginal communities
Isha DeCoito, Western University

Technologies in first- and second-language classes: Knowledge synthesis on learning electronic writing
Pascal Grégoire and Maria Lourdes Lira Gonzales, Université du Québec en Abitibi-Témiscamingue

The new information power-brokers: Gatekeeping in hybrid digital media
Alfred Hermida, The University of British Columbia

Privacy and the electorate: Big data and the personalization of politics
Elizabeth F. Judge and Michael Pal, University of Ottawa

Teachers' design knowledge of technology-enhanced learning environments in Canada: A knowledge synthesis
Mi Song Kim, Western University

Blockchain technology for record-keeping: Help or hype?
Victoria L. Lemieux, The University of British Columbia

Emerging technological solutions to access to justice problems: Opportunities and risks of mobile and web-based apps
Jena McGill, Amy Salyzyn and Suzanne Bouclin, University of Ottawa

Ethical dilemmas during field studies of emerging and disruptive technologies—Is our current state of knowledge accurate?
Cosmin Munteanu, University of Toronto Mississauga; Stephanie Sadownik and Zhenhua Xu, University of Toronto

Socio-cognitive influences on innovation
Luciara Nardon, Gerald Grant and Yun Wang, Carleton University

Supporting Indigenous language and cultural resurgence with digital technologies
David Perley, Susan O'Donnell, Chris George and Brian Beaton, University of New Brunswick; and Shaina Peter-Paul, Saint Thomas University

Categorizing and understanding collaborative innovation approaches
Laurent Simon and Karl-Emanuel Dionne, HEC Montréal; and Juliana Alvarez, Université de Montréal

Digital humanities in Canada: Leveraging new tools and training opportunities
Michael Sinatra, Université de Montréal

Middle-aged and older adults' information and communicative technology access: A realist review
Andrew Sixsmith, Lupin Battersby, Sarah Canham, Mei Lan Fang and Judith Sixsmith, Simon Fraser University

Towards the "enabling environment" concept: Using new technologies to improve the conditions in which aging Canadians carry out daily activities in private and public spaces
Pierre-Yves Therriault and Marie-Michèle Lord, Université du Québec à Trois-Rivières

Ways of contributing to open innovation: The contribution of technology-sharing models in the context of "third places:" Co-working, living labs and fab labs
Diane-Gabrielle Tremblay and Arnaud Scaillerez, Université TÉLUQ

Digital access for language and culture in First Nations communities
Mark Turin and Kim Lawson, The University of British Columbia; and Jennifer Carpenter, Heiltsuk Cultural Education Centre

Dominant technological paradigms: Impacts for education systems and policy
Sean P. Wiebe, University of Prince Edward Island