

# *The Future of Hamilton*

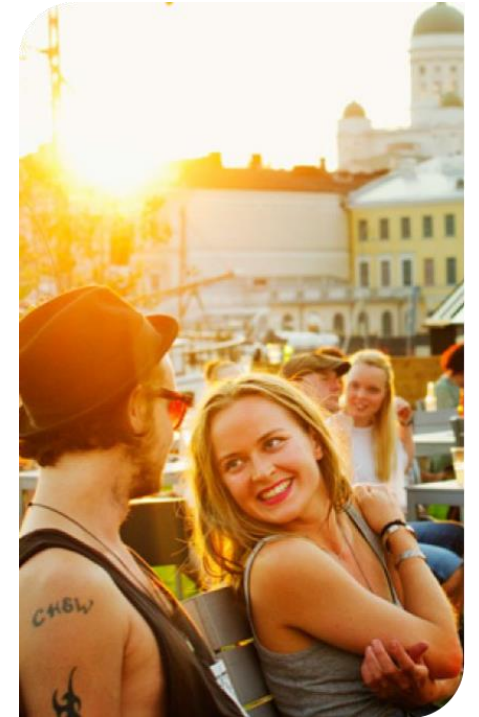
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# Open Innovation Calls

Through our Open Innovation Calls we aim to:

- Invite entrepreneurs, universities, corporates and interested parties to propose new innovative and sustainable ideas to address specific climate changes.
- Investigate how new innovative concepts, ideas and products can help reach environmental and climate goals.
- Showcase initiatives and projects that can create green growth beyond the initial city of implementation.
- Identify urban challenges, finding solutions from our global network of innovators.
- Bring innovation to life through public private partnerships.



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The City of Hamilton is working to energy retrofit their building stock.

However, building renovation processes stagnates due to a plethora of challenges, such as a lack of financing, information, behaviour change, educational materials, etc.

By improving the quality of life and the economic resilience of their public housing tenants, local authorities may obtain long-term returns in the form of social inclusion, and citizens' well being

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# *Smart and Sustainable Building Technologies*

Housing and buildings represent a considerable proportion of all energy-usage in Canada, equating to approximately 12% of the country's greenhouse gas emissions. Reducing energy-usage in buildings is thereby a priority for cities.

To meet this challenge, we are looking for innovative building technologies and installations which will optimise energy efficiency and occupant health and well-being. These may include, but are not limited to, smart energy, water and indoor climate management systems, innovative building façades and windows, and energy efficient lighting and heating technologies.

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# *Circular economy solutions*

What new materials and components are needed for deep retrofitting? And what are the lifecycles and potential for obtaining a more circular approach when it comes to the reuse, up-, down- and re-cycling of materials, and processes needed for sustainable and energy efficient retrofitting and modification?

To meet this challenge, we are looking for proposals that focus on enhancing the building renovation process. This may include, but is not limited to, solutions which improve energy efficiency and management, increase liveability of accommodation, reduce the carbon footprint of retrofit activities and ensure circularity at the end of the buildings lifecycle.

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# *Stakeholder engagement*

How is it possible to engage relevant stakeholders in decision making processes that facilitate more effective and user-centric retrofitting actions, e.g. local communities, tenants, local authorities, NGOs, local craftsmen, companies, etc.?

To meet this challenge, we are looking for new and inclusive approaches to stakeholder engagement, ensuring that residents and other stakeholders are active in the renovation process. This may include, but is not limited to, approaches to stakeholder engagement in the planning stage

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# *Decision-making and analytical tools*

Tools which measure and model the environmental performance of buildings is useful in enhancing the energy efficiency of buildings through enabling targeted interventions. Further, they represent a powerful tool through which a city or developer is able to simulate and quantify the return on investment of their chosen approach.

To meet this challenge, we are looking for decision-making and analytical tools that assist municipal planners and developers in the design phase of the city-wide retrofit process. This may include, but is not limited to, tools that identify buildings that are most in need of deep retrofit; provide simulations into building performance

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