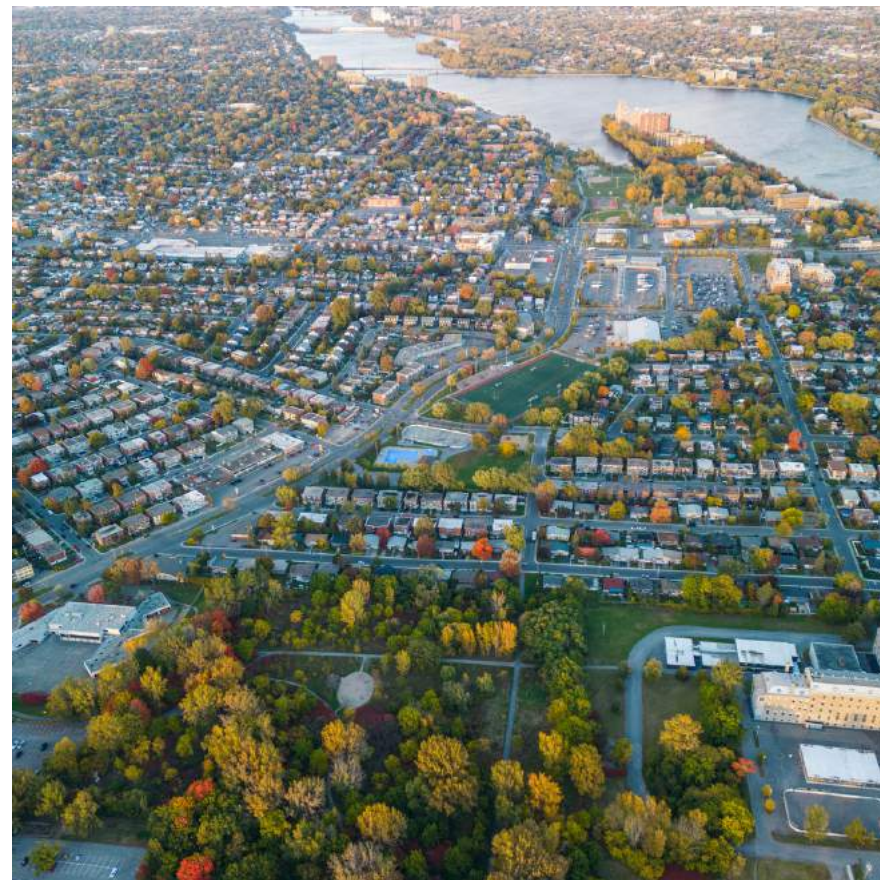


Building Tomorrow: Getting Resilient Infrastructure Projects Ready for Financing - Webinar

March 5, 2024



We respectfully acknowledge that our work happens across Turtle Island which has traditionally been and is home to many diverse First Nations, Inuit, and Métis peoples since time immemorial. We recognize that reconciliation is a fundamental component to building net-zero resilient communities. We are committed to strengthening relationships with Indigenous groups and knowledge keepers, knowing that reconciliation requires ongoing learning, unlearning, reflection, and action. We endeavour to listen to and learn from Indigenous Peoples on an ongoing basis in the process of our work.



AGENDA

10 min - Financing Resilient Infrastructure Project (FRIP)

20 min – Reflections from selected FRIP Project Participants

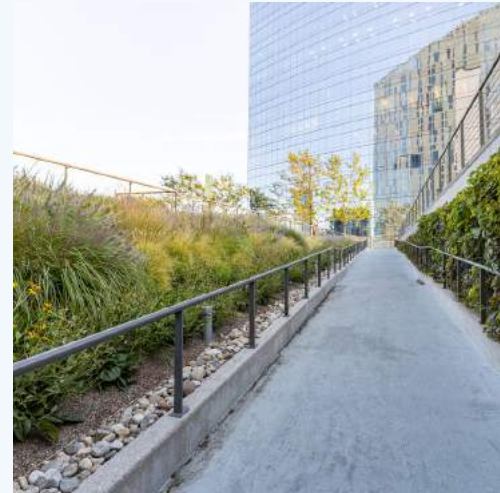
10 min – Getting Ready to Finance Toolkit Launch

45 min – Panel discussion on Innovative Financing Solutions (Q&A)





**Why Financing
Resilient
Infrastructure?**

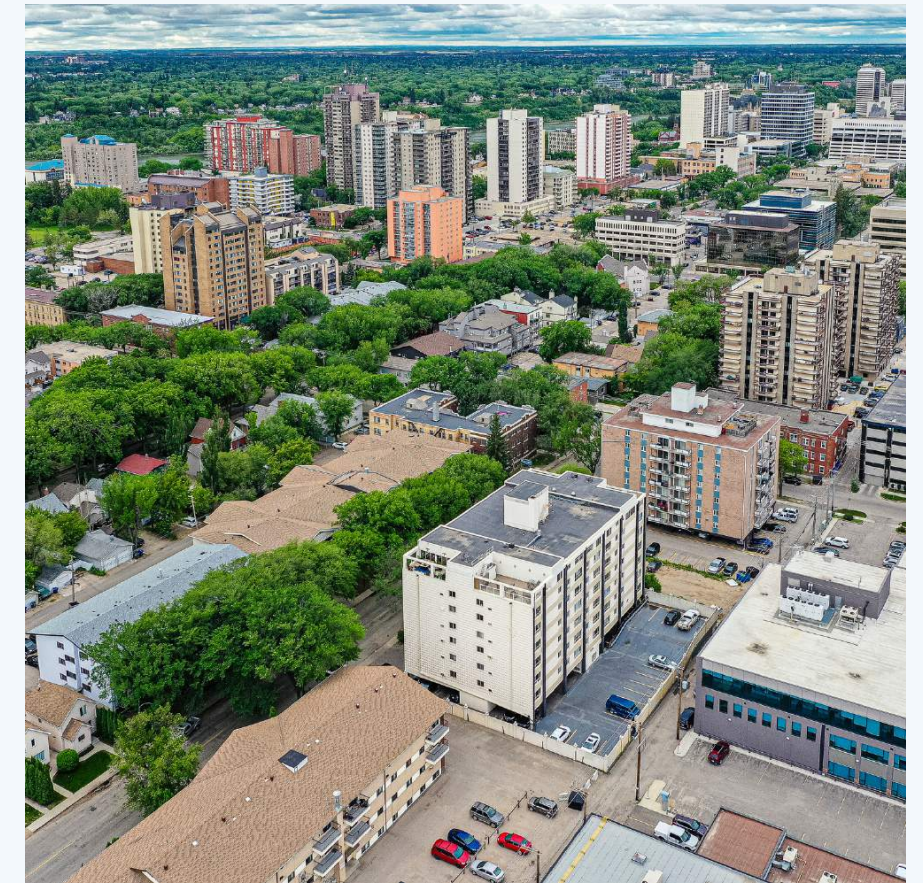


10

Participating
Municipalities

18

Climate Hazards addressed



Financing Resilient
Infrastructure Project (FRIP)

**By the
Numbers**

6

Infrastructure types
identified

22

Possible Resilient Infrastructure
Projects Identified and Prepared
for Financing

4

Resources
developed

Financing Resilient Infrastructure Project (FRIP)

Participating Municipalities

- New Glasgow, Nova Scotia
- Halifax, Nova Scotia
- Fredericton, New Brunswick
- Laval, Québec
- Mississauga, Ontario
- Timmins, Ontario
- Saskatoon, Saskatchewan
- Canmore, Alberta
- Port Moody, British Columbia
- Saanich, British Columbia



Project Types

6 Resilient Infrastructure project types were identified throughout the FRIP project.

Flood
resilience



Resilient community
planning



Resilient
development



Energy system
resilience



Wildfire
resilience



Water and wastewater
system resilience



Climate Hazards



Coastal erosion



Heavy rainfall



Storm surges



Coastal flooding



Hurricanes



Urban and pluvial flooding



Extreme heat



Ice and wind storms



Urban heat island



Extreme snow



Overland flooding



Wildfires



Extreme temperature



Riverine/fluvial flooding



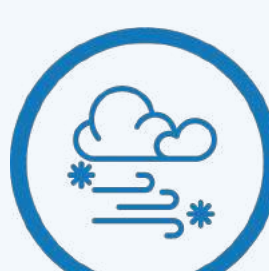
Wildfire smoke



Extreme weather



Sea level rise



Winter storms

Acknowledgement

This project was undertaken with the financial support of Co-operators.



Today's Speakers

Reflections from selected Financing
Resilient Infrastructure Project (FRIP)
Participants and Partners

- Co-operators
- Addenda Capital
- City of Saskatoon, SK
- City of Laval, QC
- ICLEI Canada



Ewa Jackson, ICLEI
Canada



Chad Park,
Co-operators



Paul Manias, Addenda
Capital



Erin Placatka, City of
Saskatoon



Dominique Bastien,
City of Laval



Adrián Tóth, ICLEI Canada



About Co-operators

Our purpose

Financial security for Canadians
and our communities

Our vision

We will be a catalyst for a
resilient and sustainable society.

Resilient Infrastructure Projects

City of Saskatoon



Erin Placatka, Climate
Adaptation Specialist





Resilient Infrastructure Projects in Saskatoon



Storm ponds



Large price tag



Defined beneficiaries



Visible, trackable improvement



Stormwater system



Distributed network



Many smaller upgrades



Harder to quantify benefits



Neighbourhood-by-
neighbourhood approach



Resilient co-located housing & fire station



Many co-benefits



Efficient use of land



Fire department natural partner



Potential commercial space



Building blocks to financing



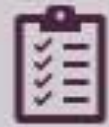
Financing models already in use



Natural capital asset valuations



Establishing local costs of climate change



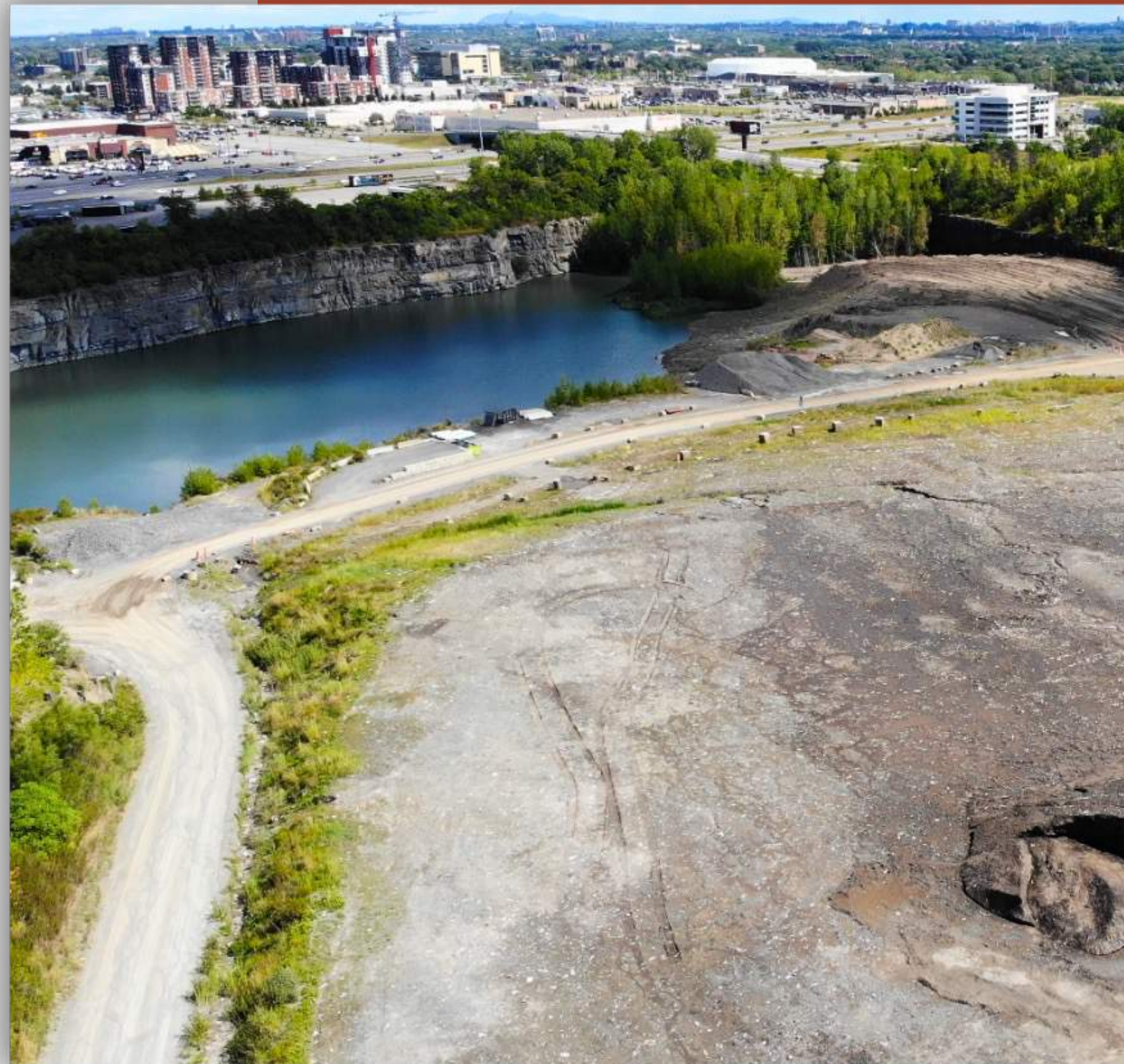
Embedding climate risk awareness in
Finance, Asset Management, Corporate Risk

Resilient Infrastructure Projects

City of Laval



Dominique Bastien,
Environmental Advisor





Ville de Laval

Building Tomorrow: Getting Resilient Infrastructure Projects Ready for Financing

Presented by : Dominique Bastien

Date : March 5th 2024



Ville de Laval



Initiatives for better flood risk management

Project idea

- Main river flooding in Laval : 2017-2019-2023
- Significant damage (financial, stress, administrative)
- Some houses are at high risk of flooding again
- Need for proactive and permanent flood mitigation measures. For example:
 - Dikes
 - Wetland restauration
 - Resilient architecture for home
- Co-benefits :
 - Converting private riverbanks into public spaces
 - Demineralizing some sector for improved resilience
 - Make it accessible to citizens, enhancing the natural and recreational value of the riverbank



Initiatives for better flood risk management

Climate hazards addressed

River flooding

Intended beneficiaries

Municipality, flood-prone households, taxpayers, public infrastructure owners, property owners, and the wider community

Possible sources of cash flows proposed by Co operator (not yet studied by our financial department)

Taxation options based on the increase in property value and the proximity of a large riverside part of the remaining protected residences



Evaluating a home's resilience to flooding

Project idea

- Home assessment of residences located in flood-prone areas by certified home inspectors and how they might be vulnerable to water damage
- Homeowner will get a curated report that includes various adaptation strategies and how to implement these
- Better understanding of local home weaknesses for the municipality and information on the cost of adaptation strategies
- Allow us to evaluate the potential for permanent municipal program



Evaluating a home's resilience to flooding

Climate hazards addressed

Flooding (river, fluvial, pluvial, etc.)

Intended beneficiaries

Municipality, flood-prone households, local emergency services, public infrastructure owners, property owners, and the wider community

Possible sources of cash flows

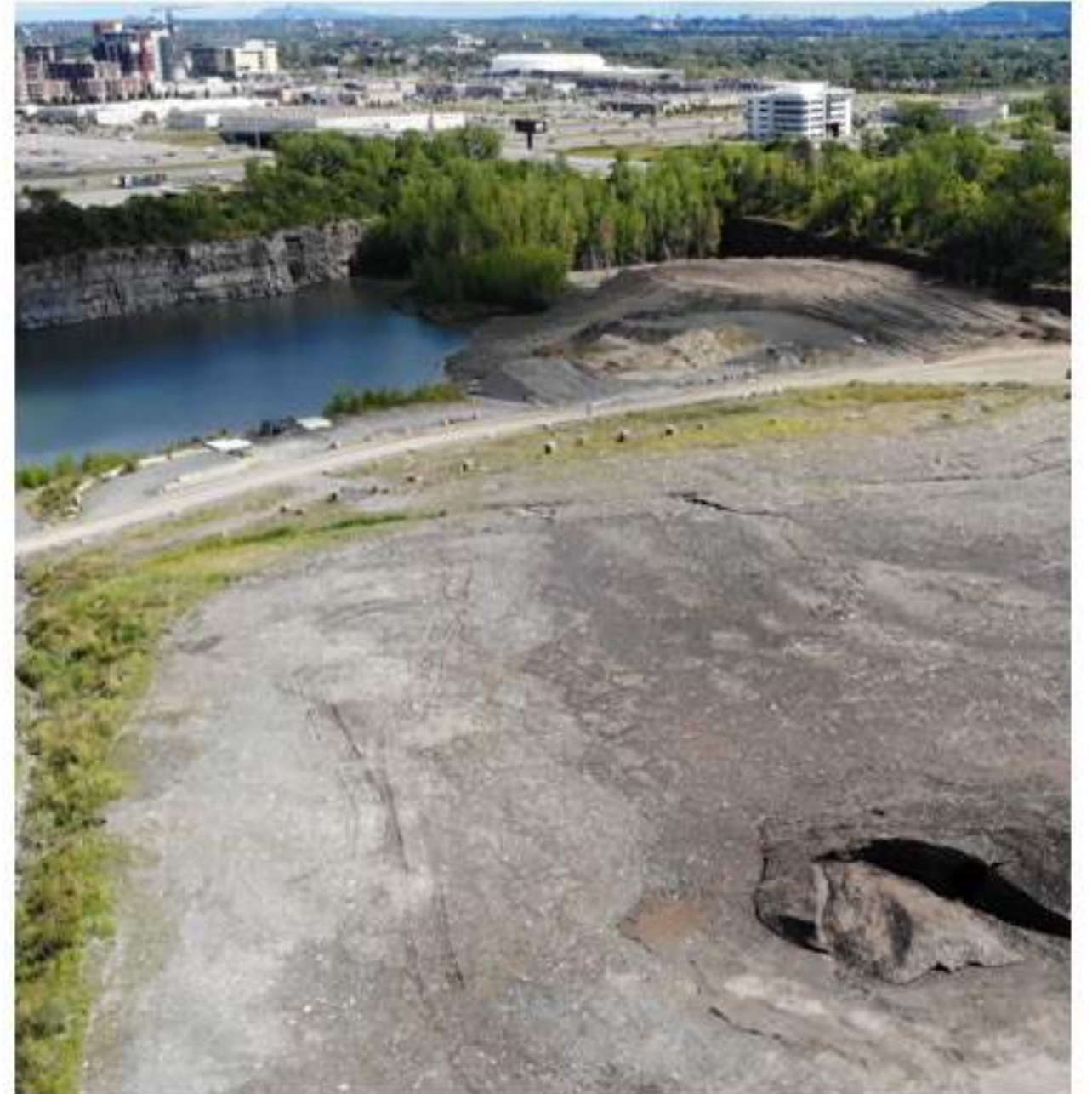
A PACE-style program could provide homeowners with very low interest rates loans to implement the suggested renovations from their evaluation. The interests could be kept in this specific fund and reinvested



Parc de l'innovation du Carré Laval

Project idea

- Planning for an innovative Eco-district, mixed-use development with low carbon footprint
- Large public green space in downtown Laval
- Creating an oasis of freshness in a mineralized area with a high vulnerability to urban heat
- Implementing optimal and ecological drainage systems reducing risk of overflow during extreme rain events
- Strategies to restore and reconnect existing habitats and contribute to urban biodiversity at a larger scale
- Building development around a regional park and public spaces



Parc de l'innovation du Carré Laval

Climate hazards addressed

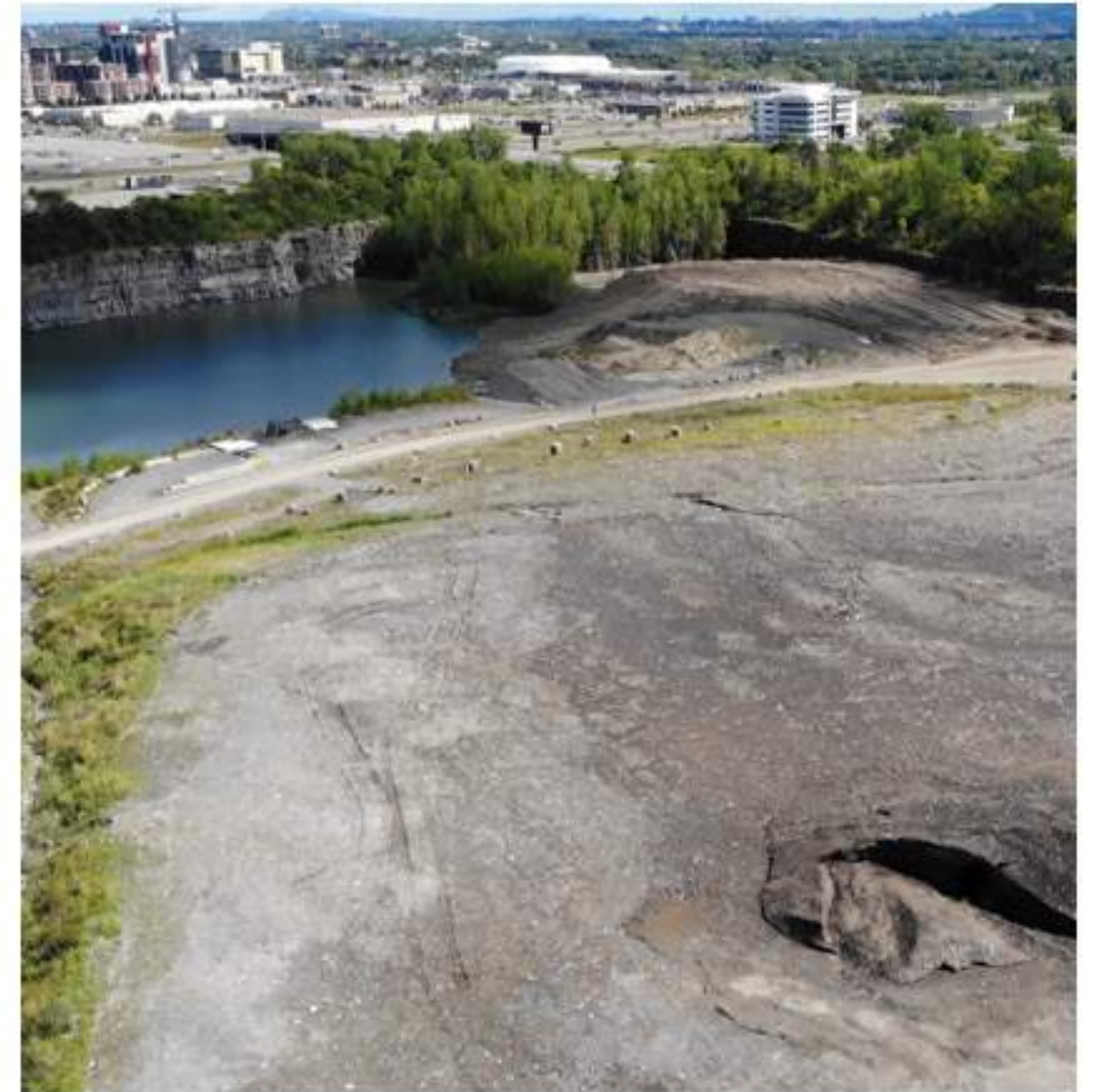
Extreme temperature and urban / pluvial flooding

Intended beneficiaries

Municipality, surrounding residents and workers, visitors, citizens of the downtown area, citizens of the region.

Possible sources of cash flows

Leasing revenue and revenue from the implementation of the smart energy grid



Challenges

- Calculating the right return on investment (economic benefits of damage avoided)
- Legal barriers (ex. PACE program not allowed in Québec province)
- Administrative barriers of using new financial tools
- Developing strong adaptation indicators to guide and reassure investors

Learnings

- New economic tools for our municipal projects (ex. PACE, TIF)
- Methodology to calculate return on investment (economic benefit of damage avoided)
- How important are quantifiable data
- Lack of flexibility at municipal level to implement these financing

Merci !



Getting Ready to Finance Toolkit

4 NEW RESOURCES!



Ewa Jackson,
Managing Director,
ICLEI Canada



Getting Ready to Finance: Examples of Resilient Infrastructure Projects

Discover examples of resilient infrastructure projects that could be realized with the help of innovative financing and start thinking about projects that could be implemented in your community.

*Available in English and French



Getting Ready to Finance

Examples of Resilient Infrastructure Projects



Getting Ready to Finance: Project Ideation Guide

This editable Excel spreadsheet is designed to help municipal practitioners identify and prioritize potential projects. Use this spreadsheet to choose which project(s) to prepare for financing.

*Available in English and French



Getting Ready To Finance

Project Ideation Guide



Getting Ready to Finance: Project Preparation Template

This editable Word document provides a mechanism to prepare resilient infrastructure projects for financing. Once filled out, the template can be used to apply for public and/or private funding.

*Available in English and French

Getting Ready To Finance

Project Preparation Template



Getting Ready to Finance: Project Preparation Template Instructions

Refer to these detailed instructions while filling out the Project Preparation Template. The two resources are designed to be used simultaneously.

*Available in English and French



Getting Ready To Finance

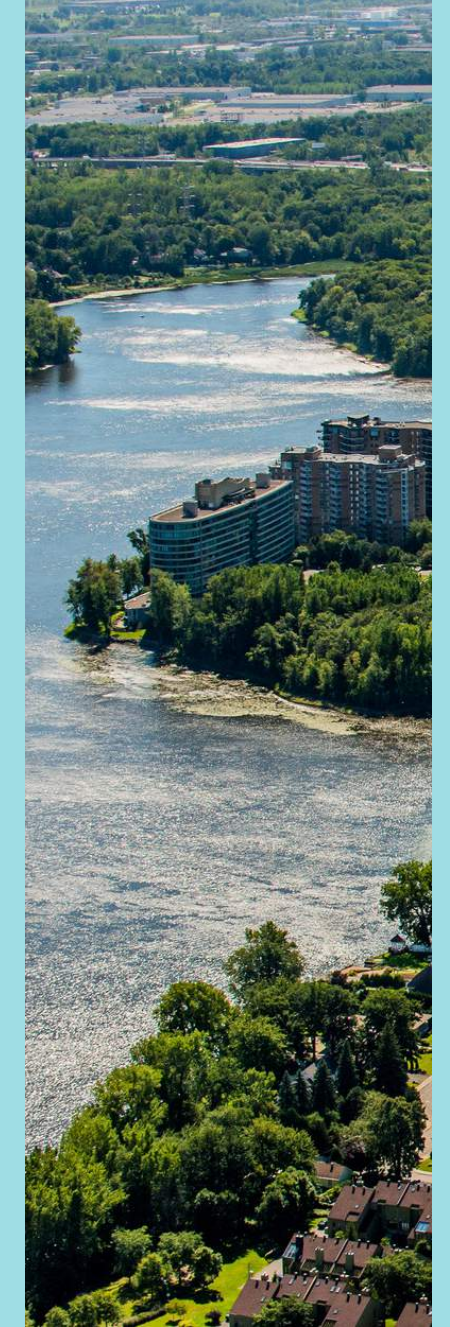
Project Preparation Template Instructions



Access the Getting Ready to Finance Toolkit

DOWNLOAD 

Visit icleicanada.org/project/getting-ready-to-finance/ to access all resources from the Toolkit and identify bankable resilient infrastructure projects in your community.



PANEL DISCUSSION

Q&A

Building Tomorrow: Getting Resilient Infrastructure Projects Ready for Financing

Innovative Financing Solutions

 2:45 to 3:30 pm



Thank You

Connect with us online to find more resources
and follow our work.

