



Housing, Infrastructure
and Communities Canada

Logement, Infrastructures
et Collectivités Canada

Canada

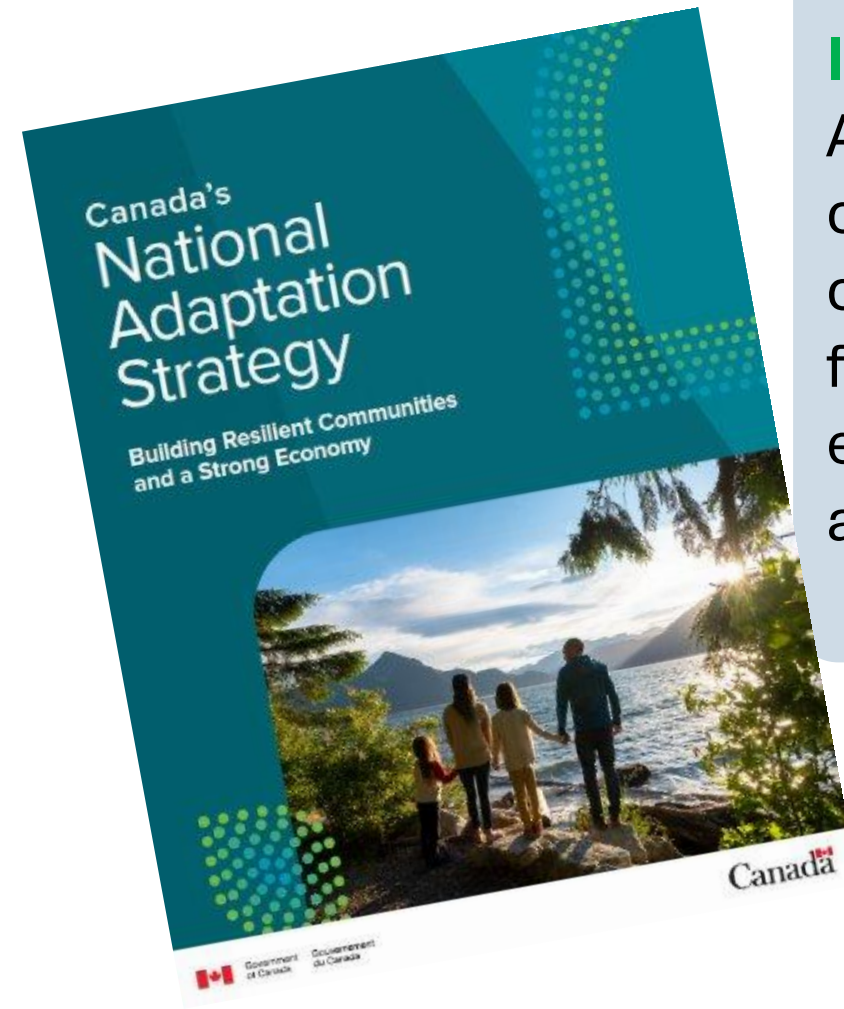


LEVERAGING DATA, RESEARCH & TOOLS TO ADVANCE NATIONAL ADAPTATION STRATEGY OBJECTIVES FOR INFRASTRUCTURE – AN HICC SNAPSHOT

Geneviève Nadeau, PhD.
November 13, 2025

2025-11-25

CANADA'S FIRST NATIONAL ADAPTATION STRATEGY SET DIRECTION FOR RESILIENT INFRASTRUCTURE



INFRASTRUCTURE KEY SYSTEM GOAL

All infrastructure systems in Canada are climate resilient and undergo continuous adaptation to adjust for future impacts, to deliver reliable, equitable, and sustainable services to all of society.



KNOWLEDGE & DATA IS FOUNDATIONAL TO NAS INFRASTRUCTURE OBJECTIVES



Technical. Technical standards, planning and decision-making processes embed climate change across lifecycle infrastructure decisions.



Policy & Legal. Public and private infrastructure decision-making is informed by system-wide consideration of current & emerging climate risks.



Socio-Economic. Infrastructure decisions prioritize benefits for marginalized populations and communities at highest risk of climate change impacts.



Financial. All new investments in infrastructure apply resilience criteria and adopt climate change guidance, standards, and future design data to maximize the long-term benefits of infrastructure outcomes.

...AND AN UNDERLYING FOUNDATION ACROSS PILLARS

A robust **evidence base**

- Fostering **foundational “stock-takes”**
- Collecting **protective infrastructure data**
- Enabling **community-driven research and knowledge** development on resilience
- **Convening** practitioners and decision-makers

Accessible, user-friendly **information**

Climate Toolkit for Housing and Infrastructure



Climate Insight Platform



Roster of Climate and Infrastructure Experts



Climate Help Desk

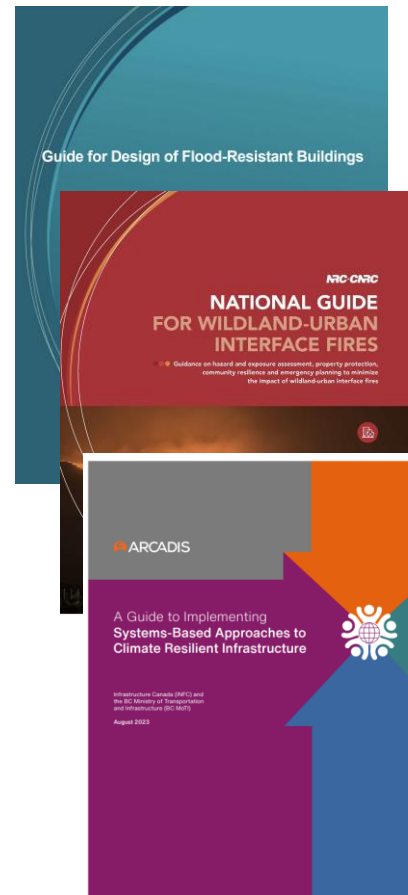
AT-A-GLANCE: DELIVERING ON NAS INFRASTRUCTURE OBJECTIVES

1 Technical standards

100+ new and updated **climate-informed standards, guidance and tools** in collaboration with NRC and SCC.

Climate considerations added into **National Model Codes and Bridge Design Code**.

Buildings and bridges using **future climate design values**



2 Systems-informed decision-making

Risk transfer management as a merit criteria under DMAF (2023 intake).

Systems-Based Approaches to Climate Resilient Infrastructure Guidebook

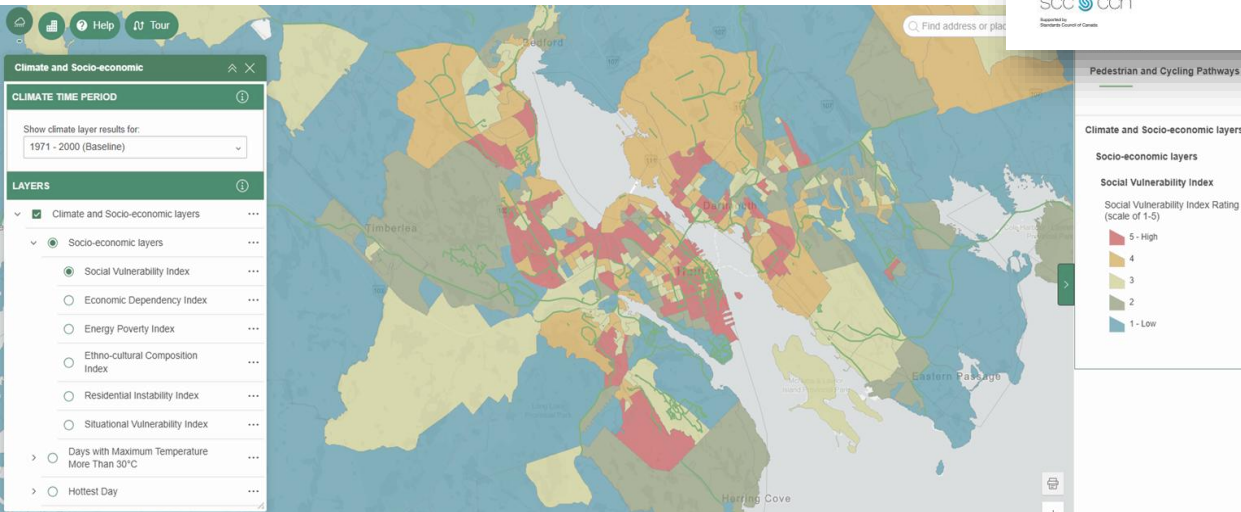
AT-A-GLANCE: DELIVERING ON NAS INFRASTRUCTURE OBJECTIVES

3 Considering equity/at-risk communities

Guide on Applying Inclusion, Diversity, Equity and Accessibility Within Climate-Resilient Infrastructure (2025)

Geospatial Mapping Tool to support equity-informed decisions, on ClimateInsight.ca

- **NEW!** – Energy Poverty Index data layer



4 Mainstreaming resilience

Embedding requirements for climate risk identification and mitigation



Applicants take steps to assess and reduce risks



Requirements apply at different stages

Free, direct Climate Help Desk **support to applicants**