

**Written Submission for the Pre-Budget  
Consultations in Advance of the 2025 Federal Budget**

**By:**



March 7, 2025

## LIST OF RECOMMENDATIONS

### Response to U.S. Tariffs

- **Recommendation 1:** In the event that Canada requires a stimulus program to counteract economic damage from U.S. tariffs, the Government of Canada should ensure that municipalities have the resources they need to respond quickly with a focus on renewal of existing infrastructure, which is already under strain due to age and the additional requirements of increasing densification.

### Emergency Management and Disaster Mitigation

- **Recommendation 2:** In establishing and supporting the permanent Public Safety Broadband Network (PSBN), ensure the provision of communications interoperability to public works officials as first responders, and ensure that public works agencies have access.
- **Recommendation 3:** Renew the lapsed funding for all-hazard awareness-raising activities, and ensure that public works agencies have access to dependable, predictable funding for the development and implementation of comprehensive, all-hazard emergency preparedness plans, pre-disaster mitigation plans and long-term hazard mitigation measures.
- **Recommendation 4:** Encourage a collective approach to emergency management by including public works agencies, as well as First Nations, Inuit and Métis, in cross-sector task forces and study groups responsible for all-hazards education, training exercises and development of best practices.
- **Recommendation 5:** By providing funding to small cities and rural communities, encourage the development and coordination of timely information and tools, such as spatial data infrastructure (SDI), to enhance and support the emergency management capabilities of public works agencies, as well as First Nations, Inuit and Métis, including coordination of Incident Management Teams.
- **Recommendation 6:** Accelerate timelines for updating Canada's flood hazard maps to show all potential sources of overland flood (fluvial, pluvial, groundwater, and coastal).

### Climate Resilient Infrastructure

- **Recommendation 7:** Continue to encourage investment in public infrastructure projects that are planned and executed using sustainability rating systems such as Envision.
- **Recommendation 8:** Continue to encourage infrastructure investment strategies that recognize the value, and include the management and sustainability, of natural assets.

### Water Resilience

- **Recommendation 9:** Continue direct funding to local communities through an increase to the federal Canada Community-Building Fund.

- **Recommendation 10:** Expand federal funding programs to include operations and maintenance activities.
- **Recommendation 11:** Create a permanent federal funding mechanism to support and enhance the cost-effectiveness and sustainability of modern water and wastewater systems in communities of all sizes. “You can’t build another house if you can’t flush the toilet.”
- **Recommendation 12:** Include affordability as a consideration in federal programs to ensure that disadvantaged communities are not denied essential water services.
- **Recommendation 13:** Support programs that assist provincial, territorial, local, First Nation and critical service entities in increasing resilience to natural hazards and with drought-related activities and expand the technology transfer of drought and water conservation strategies.
- **Recommendation 14:** Encourage the development of regional drought preparedness and response plans by water providers in cooperation with federal, provincial, territorial, local, First Nation and critical service entities, and require those plans mitigate the negative economic, social, and environmental impacts caused by a lack of available water.
- **Recommendation 15:** Encourage planning and management efforts that include steps to reduce the vulnerability of future water interruptions, such as floods or drought.

## Introduction

The Canadian Public Works Association (CPWA) was founded in 1986 to enhance the services of the American Public Works Association (APWA) to the Canadian public works community. Since that time, CPWA has become the voice of public works in Canada, with a board of directors filled by public works professionals from municipalities across Canada. Collectively, APWA and CPWA represent over 30,000 public works professionals in North America who work on both sides of the border to innovate and assure excellence in the public works profession.

## Response to U.S. Tariffs

By prioritizing infrastructure renewal as part of a stimulus response to U.S. tariffs, Canada can strengthen its economy, improve public services, and enhance long-term resilience against economic disruptions. Canada’s response must be rapid if it is going to cushion the blow that U.S. tariffs would pose. This is best facilitated through the renewal of existing infrastructure, which has fewer regulatory delays through pre-established locations and utilizations of some existing planning. Renewal of existing infrastructure, and our towns and cities densify, also causes fewer disruptions to the environment through expansion into undeveloped areas. Improvements to

existing wastewater systems, for example, would also improve climate resilience through improved flood resistance and drainage, preventing future infrastructure failures.

## **Emergency Management and Disaster Mitigation**

CPWA recognizes that the federal government is dedicated to working collaboratively with provinces and territories to support communities when disasters strike and that Public Safety Canada provides oversight and guidance in the setting of exercise priorities and co-sponsors key activities with lead departments through the [Emergency Management National Exercise Program](#). It is also important to consider the role of local governments, including as governments look to next-generation 911 service, which we note has been delayed an additional two years.

Public works agencies operate and maintain critical infrastructure services that are vital to communities, such as transportation networks, energy and water supplies, sewage and refuse disposal systems, and public facilities. Public works agencies are also responsible for many aspects of emergency planning and disaster response, including assessing damage to buildings and infrastructure; clearing and disposing of debris; removing snow in blizzard conditions ahead of police and fire services; securing critical facilities and restoring lifeline services; managing traffic and coordinating municipal vehicles, equipment and manpower; and ensuring a safe public water supply. In 2017, APWA announced the creation of a “Public Works First Responder” symbol for use throughout North America to identify public works personnel and acknowledge their role as first responders.

### **Public Safety Broadband Network**

Communication is increasingly recognized as a critical component of operating public infrastructure and public works agencies must be able to depend on reliable interoperable emergency communications systems that connect them during preparedness, response and recovery operations to other first responders, including law enforcement, fire, emergency medical professionals, and other public works agencies. Communications interoperability is particularly critical when emergency responders provide mutual aid to other communities.

In March 2022, the Temporary National Coordination Office (TNCO) published a final report, [A Public Safety Broadband Network for Canada: A Canadian Approach to Implementation of the Next Generation of Public Safety Communications](#), following a presentation to FPT Ministers Responsible for Emergency Management.

The final report includes the TNCO’s recommended approach for the development of a

nationwide and interoperable PSBN that meets the needs of the public safety community, and it notes that “the transition to a PSBN will be complex and will require all levels of government to support its development. Continued collaboration among all levels of government, industry and end users is essential to develop a network that meets the diverse expectations and interests of stakeholders.”

In the United States, nationwide wireless broadband network FirstNet was launched in 2018 through a public-private partnership between the U.S. federal government and AT&T. APWA is a member of FirstNet’s Public Safety Advisory Committee (PSAC), whose mission is to assist FirstNet in carrying out its duties and responsibilities and consists of members representing all disciplines of public safety.

### **All-Hazard Awareness-Raising Activities**

Budget 2019 proposed to provide \$5.0 million over five years, starting in 2019–20, to Public Safety Canada to develop all-hazard awareness-raising activities that are targeted to specific, at-risk audiences such as low-income Canadians, seniors, people with disabilities, recent immigrants, and Indigenous Peoples. The five years allotted for this funding has run out and needs renewal.

Many public agencies, particularly in small and rural communities, need assistance developing and implementing all-hazard emergency preparedness plans, pre-disaster mitigation plans and long-term hazard mitigation measures. Public works agencies, as well as First Nations, Inuit and Métis communities must be included in education and training efforts; have access to tools and resources, such as climate and weather forecasts, rainfall data and risk models; and have access to new technologies that can assist in emergency response activities.

### **Flood Mapping**

Funding for disaster mitigation and adaptation must be available to communities of all sizes, and rural communities in particular. Small and rural communities have fewer resources for planning and delivering services is more expensive. According to Public Safety Canada, floods are the costliest natural disasters in Canada in terms of property damage. To restrict development in areas of high flood risk, federal, provincial, and territorial governments have designated a number of flood prone areas in Canada.

According to the May 2023 [National Risk Profile: Strengthening Canada's All-Hazards Approach to Emergency Management](#), “flooding is Canada’s most common and costly disaster.” We are

pleased that Public Safety Canada is taking steps to get [recommendations on public flood risk communications content and strategies in support of the development of a Canada-wide Flood Risk Awareness Portal](#).

Given that public works agencies rely on flood hazard maps to plan and manage their infrastructure investments, it is critical that these resources effectively communicate all current flood hazards.

## **Climate Resilient Infrastructure**

Local governments – particularly in rural and remote areas – often have relatively small revenue bases but are responsible for most road transport network maintenance. There is also often a disconnect between expenditures on roads and usage, resulting in spending that is inequitable and inefficient. New technologies are enabling the collection of valuable data, which allows governments and operators to better understand user needs, can be used for planning and service delivery, and is opening new revenue streams for transport operators and network users.

### **Climate Lens**

The increased number and severity of natural disasters resulting from a changing climate puts public infrastructure at risk. Failing public infrastructure disrupts essential services, results in economic loss, and can lead to loss of life – and yet civil engineering infrastructure projects are falling behind societal and functional expectations.

[Infrastructure Canada's Climate Lens](#) recognizes that infrastructure investments can more successfully address environmental pressures and climate change impacts by encouraging the incorporation of climate change considerations into the project development process. Foreseeing the need for such considerations, the APWA, the American Council of Engineering Companies (ACEC), and the American Society of Civil Engineers (ASCE) established the Institute for Sustainable Infrastructure (ISI) in 2010.

ISI's Envision sustainability rating tool is a holistic framework for evaluating and rating the community, environmental and economic benefits of all types of infrastructure projects and is accepted as a Climate Lens methodology to assess climate change risk and resilience. Envision also recognizes infrastructure projects that use transformational, collaborative approaches to assess sustainability indicators over the course of a project's life cycle.

### **Natural Assets**

Some public works agencies are also factoring into their capital and operations plans the value of natural assets that provide core municipal services, such as wetlands that improve water quality and provide protection from storm surges and vegetated spaces that stabilize soil and absorb stormwater. According to a 2018 report published by the Insurance Bureau of Canada (IBC) and several partners, [Combatting Canada's Rising Flood Costs: Natural infrastructure is an underutilized option](#), conservation and restoration of natural infrastructure can be a cost-effective way to mitigate material financial losses that would otherwise result from flooding.

Unlike engineered assets that have a defined lifespan, after which they must be repaired or replaced, natural assets may provide services in perpetuity. But they must be protected and recognized for their value, which may increase as the climate changes.

## Water Resilience

Public works agencies operate and maintain critical infrastructure services susceptible to the impact of climate change, including the delivery of drinking water supplies and the management of wastewater and stormwater.

Public works agencies and municipal water providers use chemical substances to treat water for public use and automation and connected technologies are part of many water management strategies, which can be vulnerable to cyberattacks. In addition to addressing such issues as phosphorus, flushables, effluent discharge limits, and water quality, public works agencies are facing the pressure that climate change is putting on water and wastewater systems.

According to Canada's [Core Public Infrastructure Survey: Potable water and stormwater assets, 2016](#), municipal governments own over three-quarters of every type of potable water asset but less than half reported having an asset management plan. In addition, over one-third of potable water asset owners issued a drinking water advisory in 2016. According to Environment and Climate Change Canada, most boil water advisories are issued because equipment and processes used to treat, store or distribute drinking water break down, require maintenance, or have been affected by environmental conditions. This includes issues such as broken water mains, planned system maintenance, power failures or equipment problems.

Climate change impacts are placing further pressure on water and wastewater systems. According to a 2020 report by the Federation of Canadian Municipalities (FCM) and Insurance Bureau of Canada (IBC), [Canada's Future: The Cost of Climate Adaptation at the Local Level](#), avoiding the worst impacts of climate change at the municipal level will cost an estimated \$5.3

billion per year. Drought will result in a loss of potable water amid increased demand, permafrost degradation will lead to the rupture of water lines and storage infrastructure, sea level rise will result in saltwater intrusion, and increases in rainfall and storm surge will lead to the failure of drainage systems. The report also notes that some studies have shown that for every dollar invested in mitigation measures, \$6 is saved in future damages.