## **A FLOOD RISK CHECK-UP FOR CANADIAN MUNICIPALITIES: TACKLING FLOODING TOGETHER**

Municipalities are on the frontlines of adapting to climate change impacts, including flooding. Reducing flood risk is in the interest of all parties that live and work in municipalities - residents, businesses, governments, and financial institutions. The Municipal Flood Risk Check-Up has been developed to support Canadian municipalities in better preparing for heavy rainfall, river, and coastal flooding.

## Flooding is a Significant Cost to Canadian Municipalities and Their Residents

In terms of residential flooding, the cost of risk from intense rainfall flooding, river and coastal flooding, is estimated at \$2.9 billion per year. Since 2008, losses have surged and now regularly exceed \$2 billion per year, mostly due to water-related damage.

## **Costs of Extreme Weather:** (M) **Catastrophic Insurable Losses** (\$(\$(\$(\$ Fort McMurray, Alberta Wildfire \$3-4 uninsured losses incurred by government in the 6.0 husiness, individual (MA) British 5.0 Alberta Columbia & Toronto Multiple Wildfires & Floods Events in Nova Scotia 4.0 Provinces Floods \$ CAD Billion Eastern Ice Storn 3.0 <u>\_</u> \*\*\* Ontario 2.0 Wind & Rain Quebec Floods Estimated Trend-1.0 '85 '87 '89 '91 '93 '95 '97 '99 '01 '03 Ό5 '07 '09 '11 '13 '15 '17 *'*19 '21 '23<sup>:</sup> '83 Year

Source: IBC Facts Book, PCS, CatlO, Swiss Re, Munich Re & Deloitte

\*2023 preliminary values in 2023\$ CAD, corrected for inflation and per capita wealth accumulation

## **Municipal Flood Risk Check-Up**

The Municipal Flood Risk Check-Up is a free spreadsheet tool developed to support Canadian municipalities in preparing for heavy rainfall, river, and coastal flooding.

The self-assessment questionnaire has 3 sections with questions designed to assess potential flood exposure and flood preparedness.

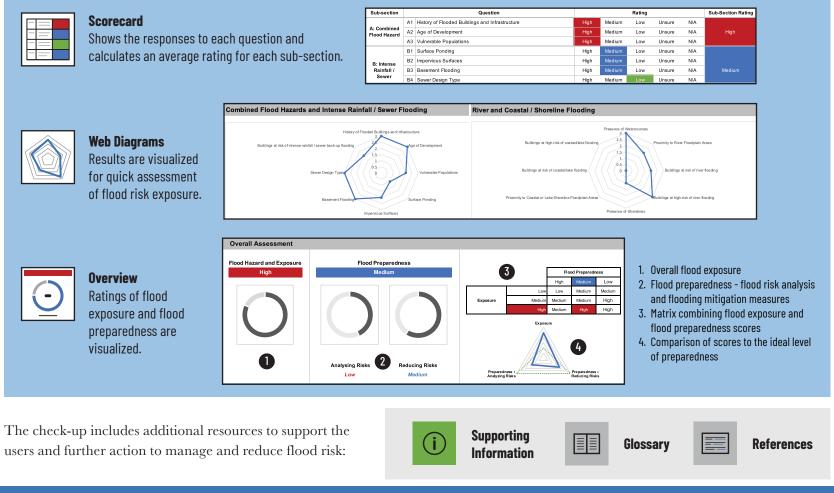


**Section I: Flood Hazard and Exposure** Identifying Potential Risks



Section II: Flood Preparedness Analysing Risks

Answers are analyzed and presented in three results worksheets.



users and further action to manage and reduce flood risk:



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Completion of the Municipal Flood Risk Check-Up is an excellent first step in the flood risk management journey. To make a significant change, municipalities will need to use the Check-Up to identify, prioritize and complete additional actions to understand, manage and reduce flood risk. For details, see the report and free tool on the Intact Centre on Climate Adaptation website.



Section III: Flood Preparedness Reducina Risks