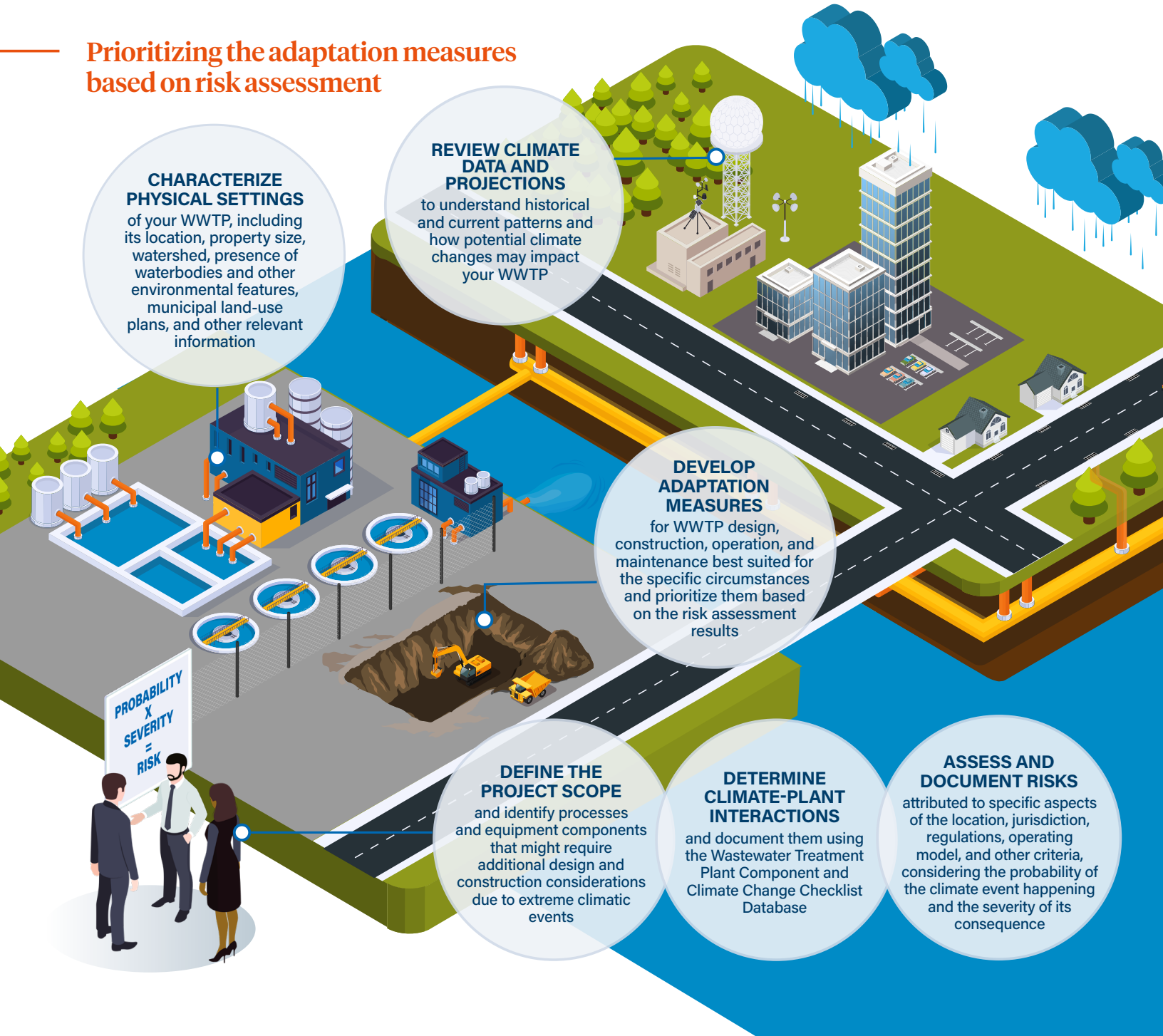
Helping improve the climate resilience of wastewater treatment infrastructure

CSA S900.1:18 (R2023), Climate change adaptation for wastewater treatment plants

From higher inflow volumes overwhelming the capacity of a wastewater treatment plant (WWTP) to reduced treatment efficiency due to temperature changes, the changing climate significantly impacts this critical infrastructure. Identifying potential risks and implementing measures to strengthen the climate resilience of WWTPs can help maintain their effective operations and protect the environment and the health of people living in Canada.

The National Standard of Canada, CSA S900.1, provides a comprehensive, user-friendly framework and checklist tool for implementing climate change considerations into the design, construction, maintenance, and operation of WWTPs to increase their resilience.

Prioritizing the adaptation measures based on risk assessment



Adopting the recommendations of the standard CSA S900.1:18 (R2023) can help:

Who should use the standard?

- Designers
- Engineers
- WWTP owners
- WWTP operators and managers
- Municipalities & regional government agencies
- Federal, provincial, and territorial governments



Increase resilience

of the WWTP to extreme climatic events change



Protect health and the environment

by strengthening the capability of the WWTP to operate during extreme weather events



Prioritize investments

to address critical issues that can impact WWTP's climate resilience



Conduct risk assessment

by following the guidance and best practices outlined in the standard



Save resources

using the checklist tool provided with the standard and documenting the assessment and adaptation planning steps

Get CSA S900.1:18 (R2023)

csagroup.org/S900.1

Learn more about CSA Group research and standards for increased resilience of buildings and infrastructure:
csagroup.org/ResilientInfrastructure
construction@csagroup.org

This work was funded by the Standards to Support Resilience in Infrastructure Program at the Standards Council of Canada (SCC). For more on what SCC is doing to address climate-resilient infrastructure, visit the Climate and Sustainability web page.

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