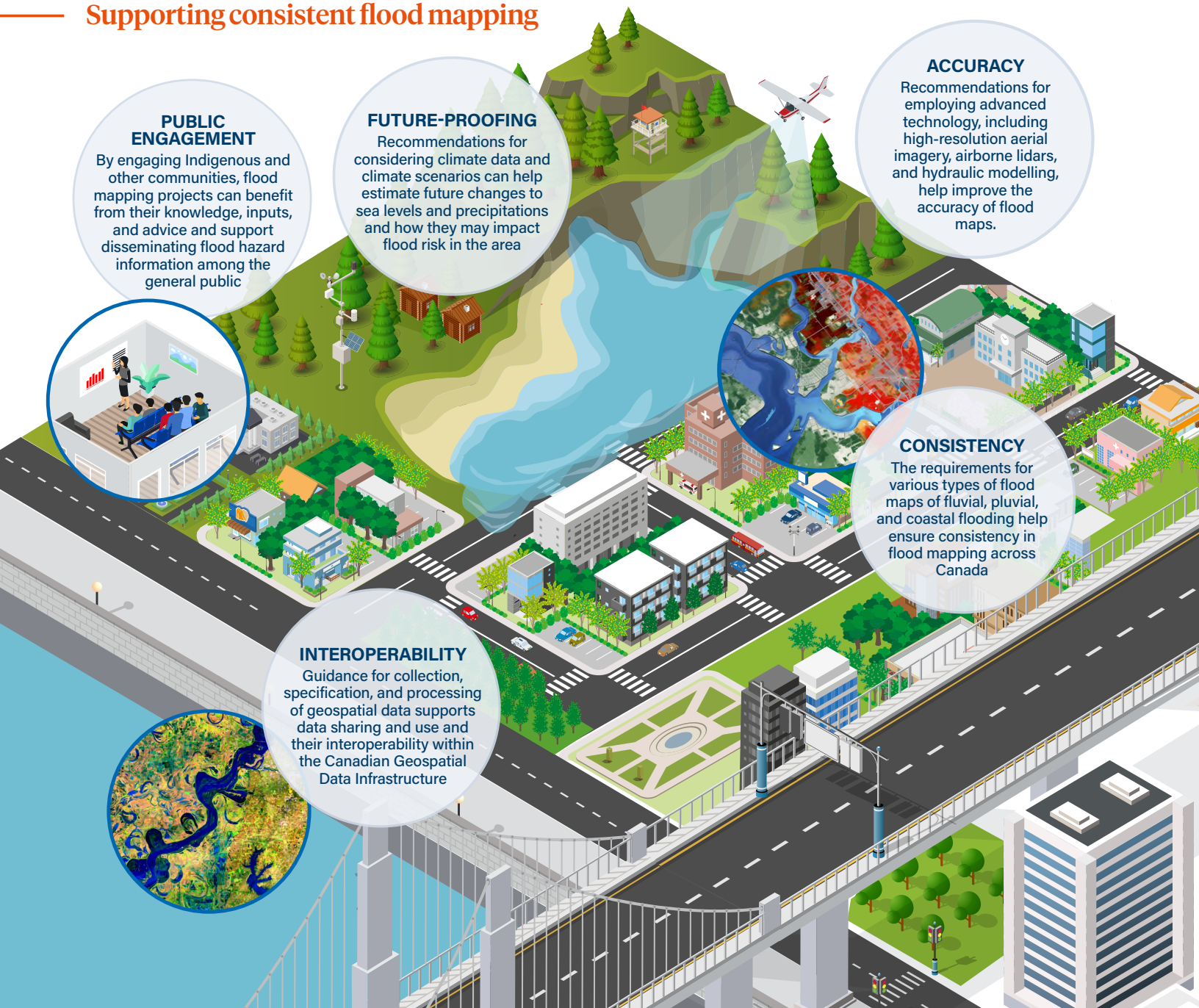
Helping communities better address and plan for flood events

CSA W229.2:25, *Geomatics for flood mapping*

Accurate and accessible flood maps are vital for protecting Canadian communities. These maps outline local areas prone to flooding during a specific flood event and provide additional information on topography, land cover, and infrastructure. Leveraging the latest advancements in hydraulic modelling, large data processing, and remote sensing, modern flood maps can provide higher resolution and accuracy to support municipal disaster mitigation planning, emergency management, land use planning and zoning, as well as general public awareness.

Building on the Federal Geomatics Guidelines for Flood Mapping (Version 1.0, 2019) published by Natural Resources Canada, the new National Standard of Canada, CSA W229.2:25, aims to help ensure consistency in flood mapping and associated digital geospatial data across Canada. The standard encourages the use of the latest technology, Indigenous knowledge, and climate scenarios to help flood mapping professionals and municipal planners identify flood risks, mitigate flood impacts, and inform decisions on development in flood-prone areas.

Supporting consistent flood mapping



Who should use the standard?

- Federal, provincial, and territorial governments
- Geomatics professionals
- Natural resources managers
- Land use and urban planners
- Engineers

Adopting the requirements and recommendations of the standard CSA W229.2:25 can help:

Improve consistency

of flood maps across Canada

Advance the accuracy

of flood maps by integrating new technologies, community knowledge, and recent climate data

Enable interoperability

of geospatial data across different systems and use cases

Inform municipalities

when developing disaster mitigation, emergency, and land use plans

Strengthen public trust

by engaging communities in flood mapping projects and sharing information about local flood risks

Develop structured decision making

that incorporates reliable data, input from all affected parties, and ensures transparency

Get CSA W229.2:25

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For more on CSA Group research and standards for flood mitigation and resiliency in communities, visit www.csagroup.org/FloodResilience

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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