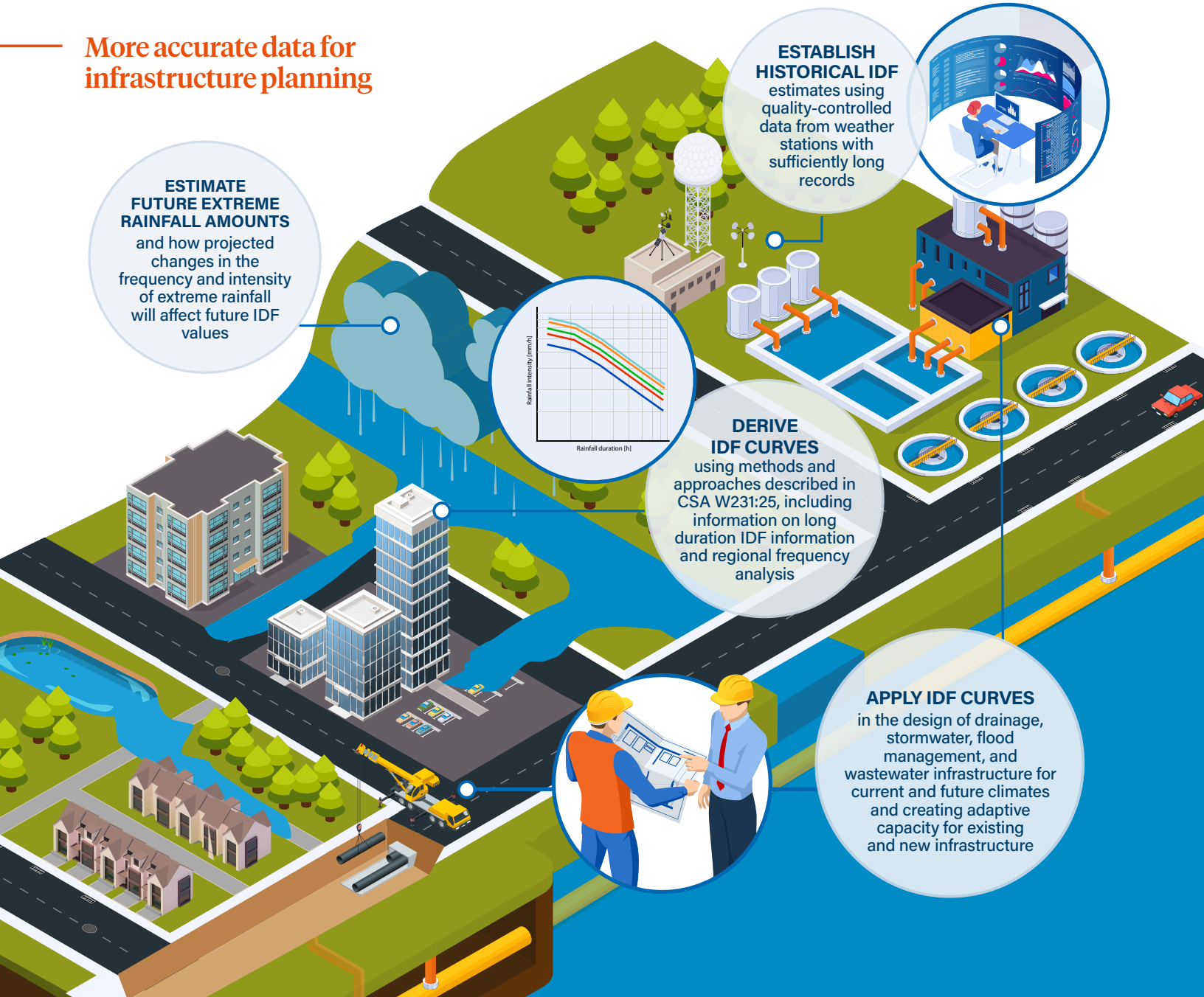
Helping adapt Canada's water infrastructure to a changing climate

CSA W231:25, *Developing and interpreting intensity-duration-frequency (IDF) information under a changing climate*

With our changing climate being an ever-present concern, historical data may no longer be an accurate predictor of future rainfall levels. This poses a significant challenge in the mapping of floodplains, the design and building of stormwater infrastructure, and managing the risks associated with extreme rainfall. The national standard CSA W231:25 aims to address the need to account for climate change with respect to extreme rainfall amounts, helping Canada's infrastructure become more resilient.

CSA W231:25 sets normative language and provides guidance for formulating and interpreting intensity-duration-frequency (IDF) curves, used by engineers and water resources practitioners to describe the likelihood of extreme rainfall amounts, considering the changing climate patterns.

More accurate data for infrastructure planning



Who should use the Standard?

Professionals with a role in stormwater, drainage, wastewater, and flood management systems

- planning
- design
- management
- inspection
- regulation

Gain proficiency working with IDF data

CSA Group's self-paced online training can help you

- understand the fundamentals of IDF curves
- learn the normative language established by CSA W231:25
- apply IDF curves in planning for future climate conditions

csagroup.org/IDFtraining

Adopting the guidance and recommendations of CSA W231:25 can help:

Increase infrastructure resilience

by using up-to-date rainfall projections models in planning and preparation of infrastructure projects

Support design credibility

by confirming alignment with expectations of intensity and duration of future rainfall amounts

Harmonize approaches

and methodologies related to the collection of rainfall IDF data and derivation of IDF values

Sustainably manage

stormwater, drainage, wastewater, and flood water systems

Provide guidance

to determine if additional rainfall information is required to optimize the local design of infrastructure

Inform the design

and implementation of an enhanced precipitation network, including gauging needs and data requirements

Get CSA W231:25

csagroup.org/store

naturalresources@csagroup.org

For more on CSA Group research and standards for improved flood resilience of communities, visit csagroup.org/FloodResilience

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