



UNDERLYING QUESTIONS

How can expected functions be recovered after the event?

Is reinforcement or adaptation work also required?

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Various measures have been presented to prepare for and respond to an extreme event that disrupts a municipality's water assets. However, resilience also depends on the implementation of resources and solutions to recover the functions lost, suspended or affected by the event under study. The faster a municipality is able to return its assets to normal operations, the more resilient it is. This involves not only implementing temporary measures, but also introducing practices that enable feedback on how the municipality reacted during the event in order to learn from it and adjust to better prepare for the next event.



POTENTIAL SOLUTIONS

A

Temporary measures planned to restore service

A set of measures to temporarily restore water asset functions that have been lost, suspended or altered by the hazard. These are short- and medium-term measures to be taken before the system can be restored to normal operation.

B

Feedback on events for continuous improvement

With a view to continuous improvement and resilience to hazards that disrupt the operation of a municipality's water assets, it is advisable to implement internal practices for reviewing the actions and resources put in place in response to a weather event. This will help identify the municipality's strengths and weaknesses while targeting areas for improvement for future events.

C

Adjusting infrastructure design parameters

Feedback helps identify system deficiencies that could be corrected by upgrading design standards and parameters. (Next development to avoid repeating past mistakes.)



REFERENCES



ROBVQ | Outils de priorisation pour la gestion du ruissellement urbain (2022) [in French only]

A

B

C

Description of structural and non-structural solutions and technical design guides for surface rainwater harvesting infrastructures.



FCM | Operations and Maintenance for Climate Resilience: Ideas for Action – Sanitary Sewers

A

B

C

Presentation of various measures that can be implemented to improve the resilience of sanitary sewers and facilitate their recovery following a service interruption due to a weather event.