

Reducing flood risk for the public sector

Providing Zurich Municipal's clients with flood forecasting and monitoring solutions

Challenge

Zurich Municipal (ZM) serve many public sector clients across the UK, including housing associations, councils, charities and education providers. With a focus on excellent customer relations, they work together to help mitigate risk.

Exacerbated by climate change and increased urbanisation, flooding is the largest natural hazard in the UK. The impact on communities can be widespread and multi-faceted. When multiple impacts are not insured e.g. contents, public sector customers can have high excesses as a result.

There is a growing need for the public sector to understand and mitigate the risk of all flood perils, including surface water and ordinary watercourses, which are not covered by most forecasting systems.



Solutions

Previsico provides real-time, property-level surface water flood forecasts using proprietary live hydrodynamic modelling software and sensor technologies to help mitigate flood-related impacts and losses. Solutions cover surface water and ordinary watercourses – flood perils not covered by other forecasting systems.

- **Email notifications:** Automated email warnings when districts and properties are at risk of flood.
- **Flood dashboard:** Displays predicted time and depth of flooding up to 48 hours in advance and visualises data from sensors.
- **Water depth and flow sensors:** Located on and around critical infrastructures. Either stand alone or complementary to forecasting solutions, giving customers both the confidence and time to act in a flood event.
- **API feed:** Automated real-time forecast data and warnings that integrate with existing systems.

Benefits

- Forecasts, warnings and data enable ZM customers to take preventative action to minimise loss.
- Reduces false alarms and mobilising people and equipment when it's not required.
- When flood action plans can be mobilised and flood risk reduced, cost savings can be great and large scale disruption avoided.



Surface water flooding continues to cause major disruption to our customers; our partnership with Previsico enables them to be better informed and able to mitigate the potentially devastating impacts of flood damage. I'm proud that we're helping to build greater resilience in communities.

Amy Brettell
Managing Director, Zurich Municipal



The growing flood problem...

- 1 in 5 properties affected by surface water flood risk.*
- 33% UK commercial properties at risk from flood.*
- 75% of businesses don't include climate risks in their business continuity plan.*
- Flood losses expect to increase five-fold by 2050.*

* References



Leading the way through technology and data



Previsico's algorithmic technology draws on several leading data sources, including best available weather nowcasts and forecasts, satellite imagery, ground sensors, LiDAR elevation data, land cover, drainage and geology.

Get in touch

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