

Reducing flood risk for housing associations

Boosting flood resilience for properties and estates

Challenge

When a flood event occurs, a housing association has an obligation to provide replacement accommodation and repair property which, aside from the enormous cost and time implications, is highly disruptive and stressful for tenants. Flooded properties also pose a significant health and safety risk and it is becoming increasingly vital for housing association operational teams to respond quickly to mitigate damage.

The main barrier, until now, has been a lack of access to appropriate, accurate and cost-effective technologies to predict and prevent floods, specifically affecting housing association properties and estates.



Solutions for housing associations

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 for housing associations

- **Efficiency:** Timely and detailed information to mobilise operations teams.
- **Prevention:** Warnings up to 48 hours in advance enable defenses and pumps to be positioned.
- **Supporting residents:** Protect tenants and vulnerable residents in care settings.
- **ESG:** Proactive measures to identify risk can prevent environmental damage and disruption.
- **Cost saving:** Minimise repair costs, excess fees and rehousing expenses.

“ The expected increase in flooding means that housing associations need to assess their exposure and develop strategies to mitigate risks. Early warnings can help them and their customers prepare for flood events. ”

DR AVI BARUCH
COO and Co-founder
Previsico

The growing flood problem

- 1 in 5 UK properties are affected by surface water flood risk.*
- 33% UK commercial properties are at risk from flood.*
- 75% of businesses don't include climate risks in their business continuity plans.*
- Flood losses are expected 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

Head office
+44 (0) 3300 883712
info@previsico.com

Find us online
previsico.com

