

Reducing flood risk for car dealerships

Preventing loss and damage to vehicle stock through flood forecasting technology

Challenge

Car dealerships have a high number of vehicles on site, making them vulnerable to the elements, including flooding, which can cause catastrophic damage, delays and unexpected costs.

Flooding can cause irrecoverable damage or costly repairs to vehicles, as well as damaging showrooms, storage facilities and offices. These additional costs when coupled with the interruption of business, reduces profit and may cause car supply shortage and delay.

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 businesses with high stock on site.



Solutions for car dealerships

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 car dealerships

- **Efficiency:** Timely and detailed information to take action.
- **Prevention:** Warnings up to 48 hours in advance enable defenses and pumps to be positioned.
- **ESG:** Proactive measures to identify risk can prevent environmental damage and disruption.
- **Cost saving:** Minimise repair and replacement costs and delays.

“ Through the use of forecasts and sensor solutions for flood, we have been supporting car dealerships on their road to resilience. By using the real-time analytics, car dealerships are able to prevent damage and resume operations within days of flood events.

Dr Avi Baruch, COO, Previsico



The growing flood problem...

- 1 in 5 properties affected by surface water flood risk.*
- 33% UK commercial properties at risk from flood.*
- 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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