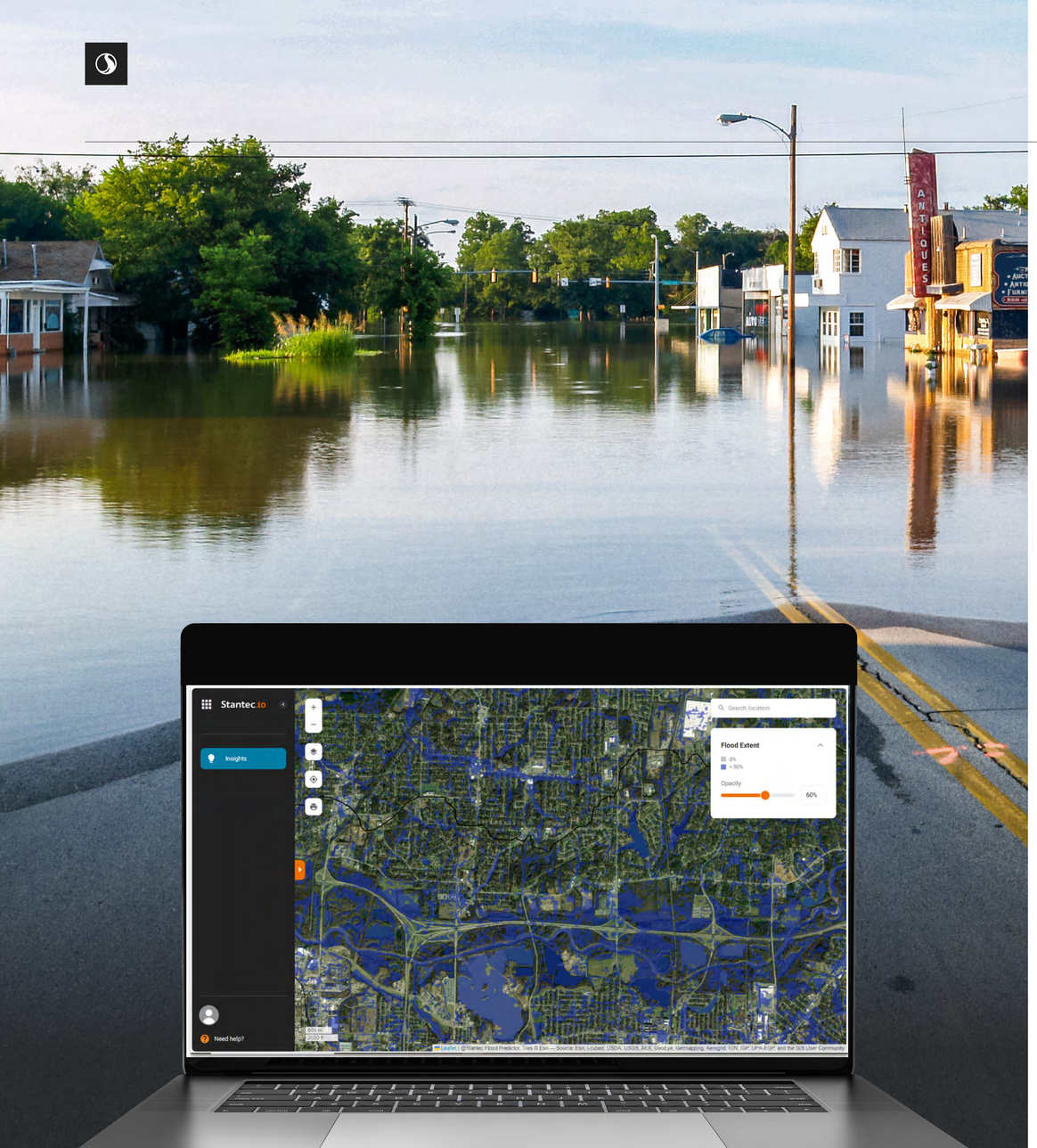


Flood Predictor

Stantec.io

THE FUTURE OF FLOOD PREDICTION

In the face of increasing flood incidents and often-dire consequences, reliably predicting flood events is more crucial than ever. Enter Flood Predictor—a unique solution that revolutionizes how communities forecast the extent, probability, and severity of the next flood.

Flood prediction is a complex endeavor, encompassing various factors in infinite combinations that produce diverse flood types such as flash floods, coastal surges, riverine overflows, and urban inundations. Traditionally, flood prediction has relied on manual engineering processes and static models, painstakingly created over years to provide every necessary detail for precise flood prediction.

While various digital approaches have aimed to expedite flood prediction, they often sacrifice quality. These methods rely on generalized circumstances and topography that may overlook significant local factors such as land-use changes, vegetation shifts, and more.

Flood Predictor overcomes these limitations.

Leveraging robust engineering theory and high-precision big data, this groundbreaking methodology delivers fast, reliable, and detailed flood predictions. It achieves an impressively high correlation to traditional model outputs, in a fraction of the time and cost. Furthermore, Flood Predictor extends coverage to unmapped areas and a broader range of scenarios.

TAKE A LEAP INTO THE FUTURE OF FLOOD PREDICTION.

Embrace the opportunity of Flood Predictor today and be part of the solution that transforms how we anticipate and mitigate flood risks.

Fusing engineering theory with iterative machine learning, Flood Predictor aims to deliver comprehensive flood prediction support for various flood types throughout the entire life cycle of a flood event. Constantly evolving, the product receives regular updates and improvements to ensure it offers you the utmost quality of service. Among its available scenarios and outputs are endeavors to provide not only highly reliable and detailed flood prediction insights but also an exceptional user experience.

Key Features:

- Delivery in Minutes
- Flash Flooding
- Base Level, Historical, Forecast, or User Defined Scenarios
- Depth, Water Surface Elevation, Probability, and Extent Outputs
- Average Curve Number, via the API endpoint
- Coastal and Riverine Flooding Coming Soon!

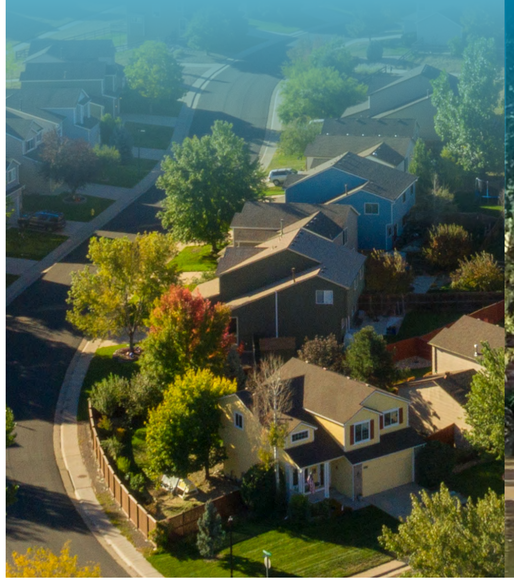
Flood Predictor

Stantec.io

Flood prediction may appear as a simple, linear process: will there, or won't there, be a flood? However, the reality is flood prediction is a highly complex practice, involving multiple touch points along the progression of a flood event. Flood Predictor is specifically designed to support this intricate process from start to finish, empowering you with extensive data and insights. This comprehensive approach enables proactive, informed decision-making.

BEFORE

Before a potential flood event is identified, Flood Predictor supports planning and preparedness, helping determine areas that are likely to be impacted and to what extent.

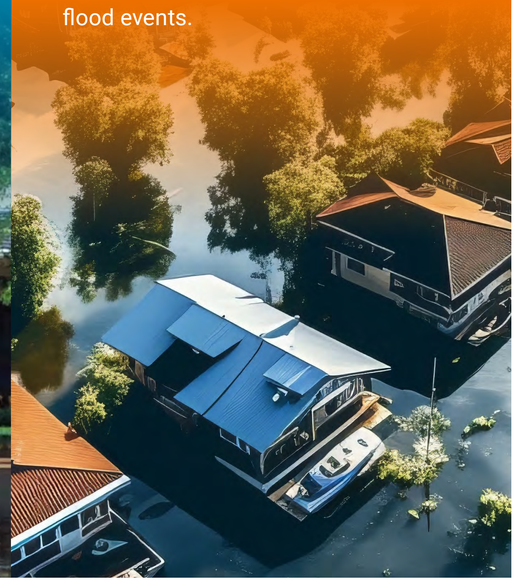


DURING

In the lead up to and during the early stages of a flood event, Flood Predictor supports reliable emergency response, guiding evacuation efforts, emergency routes, roads closures, and infrastructure protection.

AFTER

In the aftermath of a flood event, Flood Predictor continues to provide insights of what occurred to inform response and rebuilding efforts and to support updates to building codes and practices to mitigate impacts of future flood events.



STANTEC.IO

Stantec.io empowers our people to deliver on the full promise of technology. We are working with digital practice teams to develop creative, technology-forward approaches that improve our ability to solve the most difficult challenges facing our clients, communities, and industries.

RELATED ITEMS

Learn more about our focus on developing and applying digital solutions and how we're helping clients and communities solve complex problems:

Flood Predictor
Stantec.io
Connect
Flood Predictor in Action

CONTACT US

For more information on Flood Predictor or any of our Flood solutions, or to schedule a demo, please contact:

Susan Marlow
Jeff Albee

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