FloodMapp NowCast

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REAL-TIME FLOOD MAPPING AT YOUR FINGERTIPS

Powered by Artificial Intelligence, Machine Learning, hydraulics and hydrology algorithms, FloodMapp can now model and map flooding in real-time. Our models ingest real-time rainfall and river height information to deliver rapid, dynamic flood intelligence through live mapping feeds.

CHALLENGE

Your Current State

Today's flood intelligence is slow, static, and the quality is generic.

- Floods unfold in real-time and traditional tools and analysis cannot keep up.

- Critical response assets and specialist resources are finite.

- Lack of timely, high-quality data means planning is broad because it is based on assumptions for worst-case risk.

Street-level Flood Intelligence

FloodMapp's DASH model runs at up to 1-metre grid which enables us to deliver at 200x finer than traditional resolution.

SOLUTION

Your Future State

Access dynamic flood mapping through FloodMapp NowCast digitally in real-time. With NowCast, you can:

- Gather and maintain dynamic situational awareness

- Visualise the flood hazard at asset or street-level resolution

- Rapidly understand and assess the emerging social, infrastructure, environmental and economic impacts

- Act to protect critical property, assets and infrastructure to flooding in real-time

- Start early planning for response and recovery activities with a rich, data-driven approach

KEY BENEFITS

SCALE

- ✔ State-wide scale delivered at property level resolution

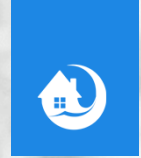- ✔ NowCast integrates seamlessly with your existing GIS solution

ACCURACY

- ✔ Our models are proven at 90-96% accuracy in predicting flooded areas

SPEED

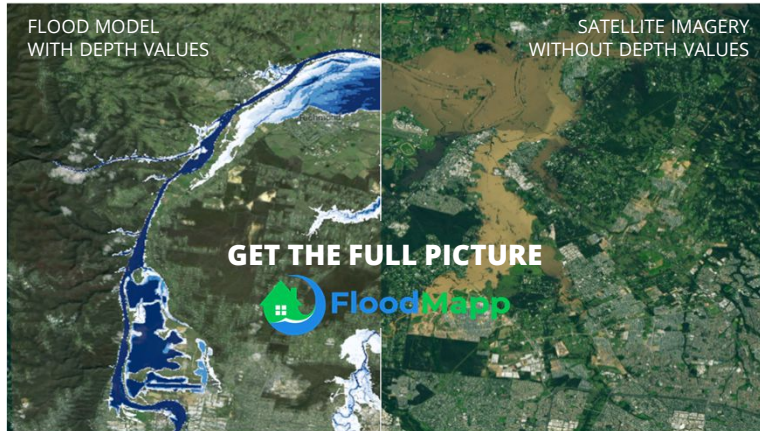- ✔ FloodMapp delivers over 100,000 times faster than traditional models

FloodMapp
IMPROVE SAFETY. PREVENT DAMAGE.

Modelling Flood At Scale

FLOOD MODEL
WITH DEPTH VALUES

SATELLITE IMAGERY
WITHOUT DEPTH VALUES

GET THE FULL PICTURE

March 2021 Flooding in Richmond, Hawkesbury region, NSW, Australia

Specifications

Delivery	WMS / WFS dynamic feeds
Extent size	Large: catchment-based
Format	TIFF or PNG / GeoJSON or Shapefile
Frequency	Hourly refresh or as required
Resolution	As fine as 1-metre grid size
Run times	Seconds - Minutes
Coverage	Catchment to State-wide options available

Where FloodMapp Meets Business

✔ Real-time operational and tactical decision support

✔ Shared situational awareness for emergency response

✔ 24/7 accessibility and workplace collaboration

✔ Fast and accurate exposure estimation with asset layers

✔ Transition manual steps to time-saving automated processes

✔ Esri platform integration for seamless enterprise onboarding

✔ Competitive pricing and value-chain optimisation

Case Study

SAPPHIRE FLOODS 2021

Photograph: Twitter/Channel Seven

Background

During the 2021 wet season, FloodMapp supported Queensland Fire and Emergency Service (QFES) with real-time, highly accurate flood mapping for use in the State Disaster Coordination Centre.
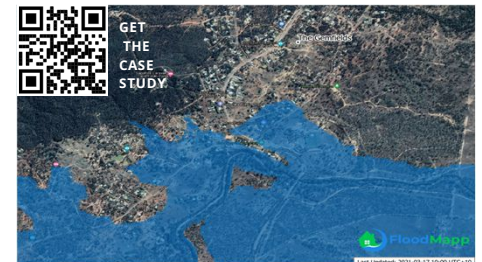
On 17 March 2021, the town of Sapphire (54km west of Emerald) suffered significant flash flooding, with rivers rising 10m in a matter of hours.

Problem

QFES received a call for emergency assistance from a Sapphire resident saying that their home had been flooded. Due to a connection problem, phone contact was lost, but QFES still needed to understand what type of service was required. i.e. if a helicopter rescue was required to lift the person from a rooftop, or if they were able to escape to safety and be accessible by road vehicle.

Solution

Empowered with vital situational awareness of the flood impact in real-time, QFES successfully deployed suitable dispatch operations with flood intelligence underpinned by FloodMapp NowCast.

GET
THE
CASE
STUDY

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