



FloodSmart **Analytics**



Flood risk analytics
for the insurance
and financial sectors



FloodSmart Analytics

Flood – significant climate change risk for the financial sectors

FloodSmart Analytics is the latest flood risk product from hydrogeology experts GeoSmart Information Ltd

GeoSmart's existing flood data and advice is used in millions of GB private property transactions and is relied upon by numerous larger enterprises whose activities impact on all aspects of our day-to-day lives.

Risk Management & Climate Change

The financial services sectors are compelled to develop long-term risk management strategies as part of their business models and to meet regulations issued by the Bank of England.

This has taken a new urgency with the realisation of the impact of climate change and pressure from all stakeholders to align with goals set in international climate agreements.

It is abundantly clear is that new data and analysis are required to deal with new and emerging risks. Past information is no longer a reliable guide to future events. Risk models using such techniques are increasingly likely to misrepresent future outcomes.

Financial Services Sectors

GeoSmart is excited to bring its technical flood expertise to the professional and regulated financial services sectors – insurers, reinsurers, property lenders and financiers.

Timing Mismatch & Climate Change

There is an obvious mismatch between the duration of most asset lending commitments and the risk transfer mechanisms used to create the efficient markets we have come to expect.

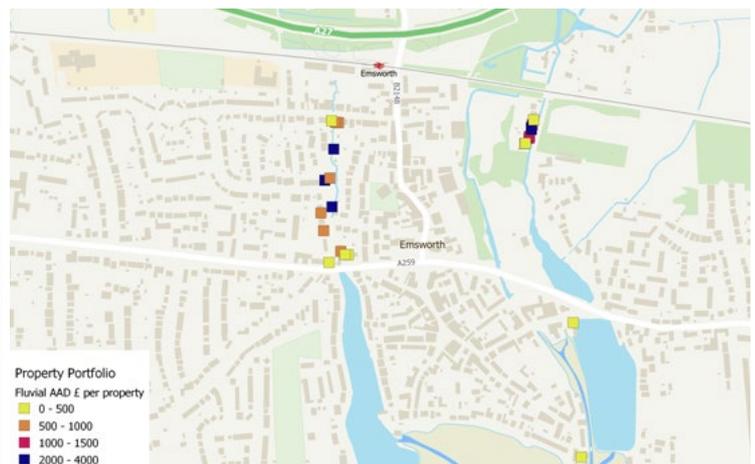
25-year mortgage terms rely on a series of one-year property insurance contracts – and the expectation that those insurance contracts cover the relevant perils in a manner that works for all parties.

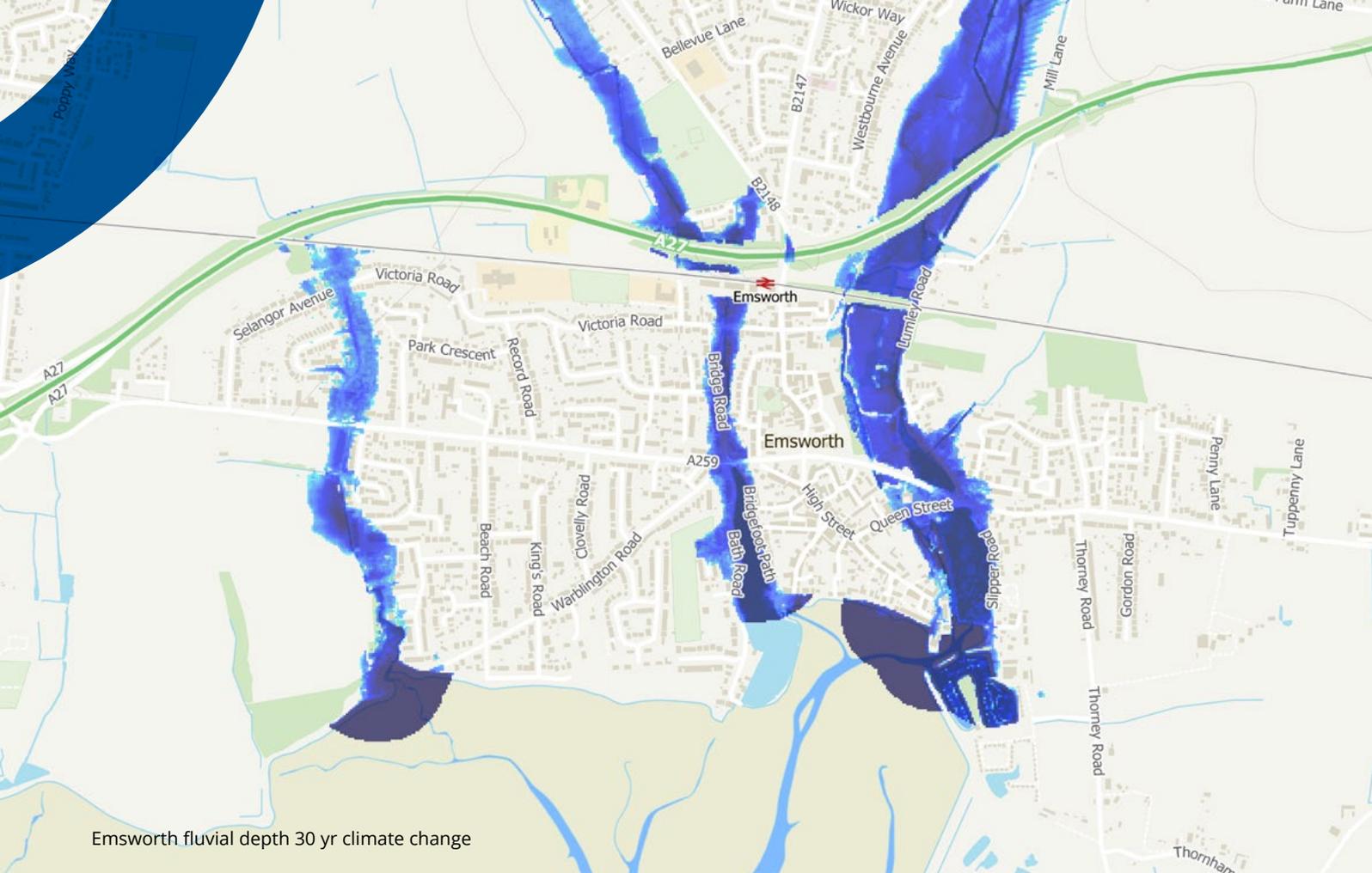
Climate change, and in particular flood risk, will mean assessments will have to change – better understanding, better data, better scenario modelling are needed more than ever.

Identifying single address/building or entire portfolio/region



Emsworth fluvial AAD per property





FloodSmart Analytics – what does it do?

FloodSmart Analytics is based upon GeoSmart’s long history of flood expertise, which is embedded in our new FAST flood calculation model.

Anyone who has exposure to, or responsibility for, flood risk should use FloodSmart Analytics.

We have designed our product to be useful at a single address/building level all the way up to an entire portfolio or region.

Processing data requests in this way provides highly customisable pricing options, which makes FloodSmart Analytics accessible to everyone.

Using FAST will result in more granular model results, which will also improve understanding and reporting of climate risk data.

User	Data type provided
Homeowner	Single location(s)
Business / Advisor	Asset location(s)
Local Authorities & National Bodies	Asset, regional & countrywide locations
Infrastructure Operators	Asset & countrywide locations
Insurance market	Portfolio locations
Asset Managers	Portfolio locations
Finance Providers	Counterparty portfolio studies

We anticipate that larger users will embed FAST in their existing risk models and will not need to incur additional costs to run those models. Using FAST will result in more granular model results, which will also improve understanding and reporting of climate risk data – of note to policy makers and regulated entities.

GeoSmart Information’s expert team of hydrologists can provide expert consulting.



FAST - Flooding from All Sources Tracker

FAST is a simple concept – understand the components of flood and use that data to model the risk and the mitigating actions. FAST is the only UK data source that includes all flood key components as individual actors. FAST can utilise up to 40 years of actual historical data.

With this distinction you can:

- Understand your general risk exposure to flood
- Understand the likely impairment consequences – who bears the cost?
- Allocate flood values to the correct causal component
 - Annual expected costs & stressed scenario events
 - Probability & depth values
- Propose mitigating actions that will address the correct causal component
- Understand the impact of insurance clauses that may limit risk
- Avoid wasted resources building the 'wrong' defences
- Make better planning policy – better knowledge makes this more likely
- Make better 'what if' forecasts – climate change scenarios are not all equivalent

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How do I learn more?

You can speak to one of our team directly, or you can fill out a data request template on-line at

www.geosmartinfo.co.uk/contact-us/

Further information can be found at

<https://geosmartinfo.co.uk/floodsmart-analytics/>



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