

Ireland FloodMap™

Precision tools for enhanced flood risk management

Manage and price flood risk more accurately with the most comprehensive and up-to-date flood hazard data currently available.

Floods are a natural and inescapable part of life in the Republic of Ireland. They are often caused by a combination of events including overflowing rivers, coastal storms and blocked or overworked drainage systems. The subsequent risk to property can be particularly acute in urban areas.

Ambiental's Ireland FloodMap addresses this complexity and level of risk by being the first to use the highest-level topographical data, LiDAR, along with Intermap's NEXTMap® IfSAR and the most current hydrological science provided by the OPW's Flood Studies Update.

Clear Presentation of Flood Risk Scenarios

Covering 100% of the country, Ireland FloodMap, equips insurers with accurate, detailed and easy-to-understand flood information for all major sources of flooding – river, tidal, and surface water (pluvial). It enables you to quickly present flood risk scenarios to customers, brokers or underwriting teams visually or by means of a flood risk score or rating.

Flexible Licensing Options and Industry Leading Support

Ireland FloodMap is available with highly flexible and cost-effective licensing options. Our team of flood risk specialists are always on hand to advise you on how to get the most from the data, support you on deep-dive site analyses, and assist you with integration.

Ireland FloodMap is regularly validated and calibrated using actual flood events in Ireland.



Image from Ireland FloodMap - 100 year fluvial extent in Dublin

KEY BENEFITS

- ✓ Optimise pricing and improve loss ratios
- ✓ Be more confident in your portfolio management
- ✓ Quickly assess new underwriting opportunities

“ *Utilises 2 metre precision Ordnance Survey Ireland (OSI) LiDAR data in urban areas of Dublin, Limerick, Galway & Cork* ”

Ordnance Survey Ireland



www.osi.ie

Ireland FloodMap AT A GLANCE

- Covers 100% of properties in Ireland
- Building level precision
- Models all major sources of flooding
- Major urban areas modelled on LiDAR
- Includes enhanced approaches for resolving off-floodplain risks
- Full range of return periods
- Flexible delivery and integration to enhance your flood risk strategy

Ireland FloodMap Technical Details

Flood Sources

- Fluvial (river)
- Tidal (sea/estuary/coastal)
- Pluvial (flash/surface water)

Layers Available

- Depths (maximum depth experienced during flood in metres)
- Velocities (maximum velocity experienced during flood in metres per second)

Topography

Nominal vertical accuracy:

- OSI LiDAR: +/- 0.15m (RMSE) accuracy
- NEXTMap® IfSAR: +/- 0.6m (RMSE) accuracy

Hydrology

- National best practice: river flow; rainfall; storm-surge peak
- Office of Public Works (OPW) Flood Studies Update (FSU)

Hydraulics

- Full shallow water wave 2-D modelling using Flowroute™, which allows for complex floodplain dynamics
- Infiltration: spatially and temporarily variable
- Building level precision – 2m (Urban) & 5m (Rural) horizontal grid postings

Coverage

- 100% coverage of Republic of Ireland

Modelled Return Periods

- Full range from 1 in 30 years to 1 in 1,000 years

Update Frequency

- Annual/after major events

Validation

- Regularly validated and calibrated against actual flood events in Ireland

KEY MODEL FEATURES

- Industry leading hydrological and 2-D hydraulic modelling
- Utilises highly accurate Ordnance Survey Ireland (OSI) LiDAR data in urban areas of Dublin, Limerick, Galway & Cork
- Uses the latest Flood Studies Update data to provide more accurate rainfall depths and flood flows

Delivery Formats

- GIS layers: Shapefiles or Raster (floating point/classified depths/average annual loss)
- Integrated with all GIS compatible systems and third party underwriting platforms, including Experian, LexisNexis, Spatial Key and Touchstone
- Flat file to integrate within customers' systems
- Physical/PDF maps

Licensing

- Flexible licensing depending on requirements
- Regional scale pricing also available, e.g. urban areas only can be taken separately
- Annual subscription and transactional 'per hit' pricing models available

Contact Us

FOR PRICING & SAMPLE DATA

For a free sample of **Ireland FloodMap** data to test against your existing data sources, please contact:

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