

FLOODMAPPER

Rapidly create detailed flood extent maps on huge scales.



ML4FLOODS

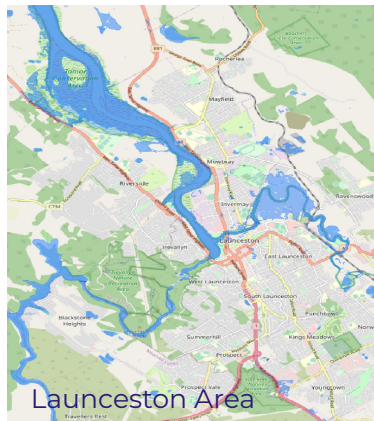
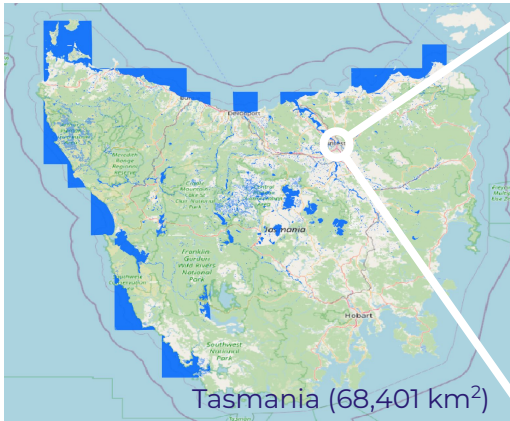
Google Cloud

TRILLIUM TECH

FLOODMAPPER

TRILLIUM

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400,000 km²

Country Scale

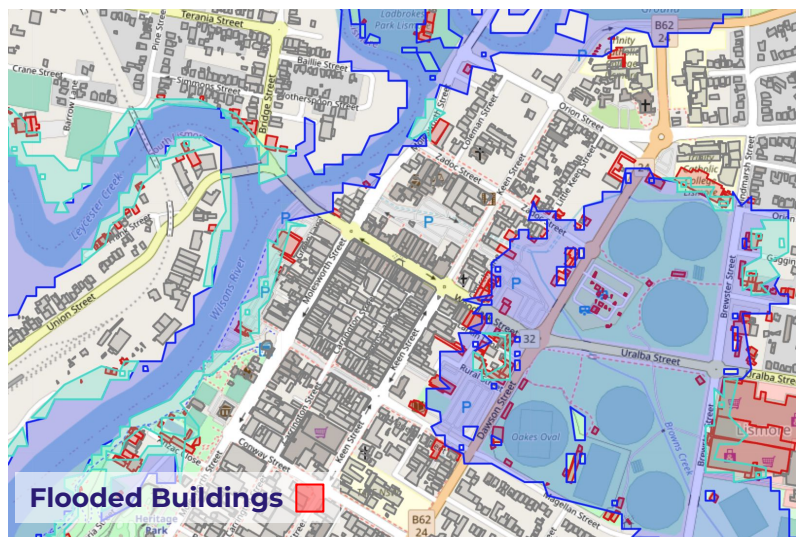
Mapped in
less than
one week*



10m Resolution

Building Scale

From open NASA
and ESA data†



ML4FLOODS

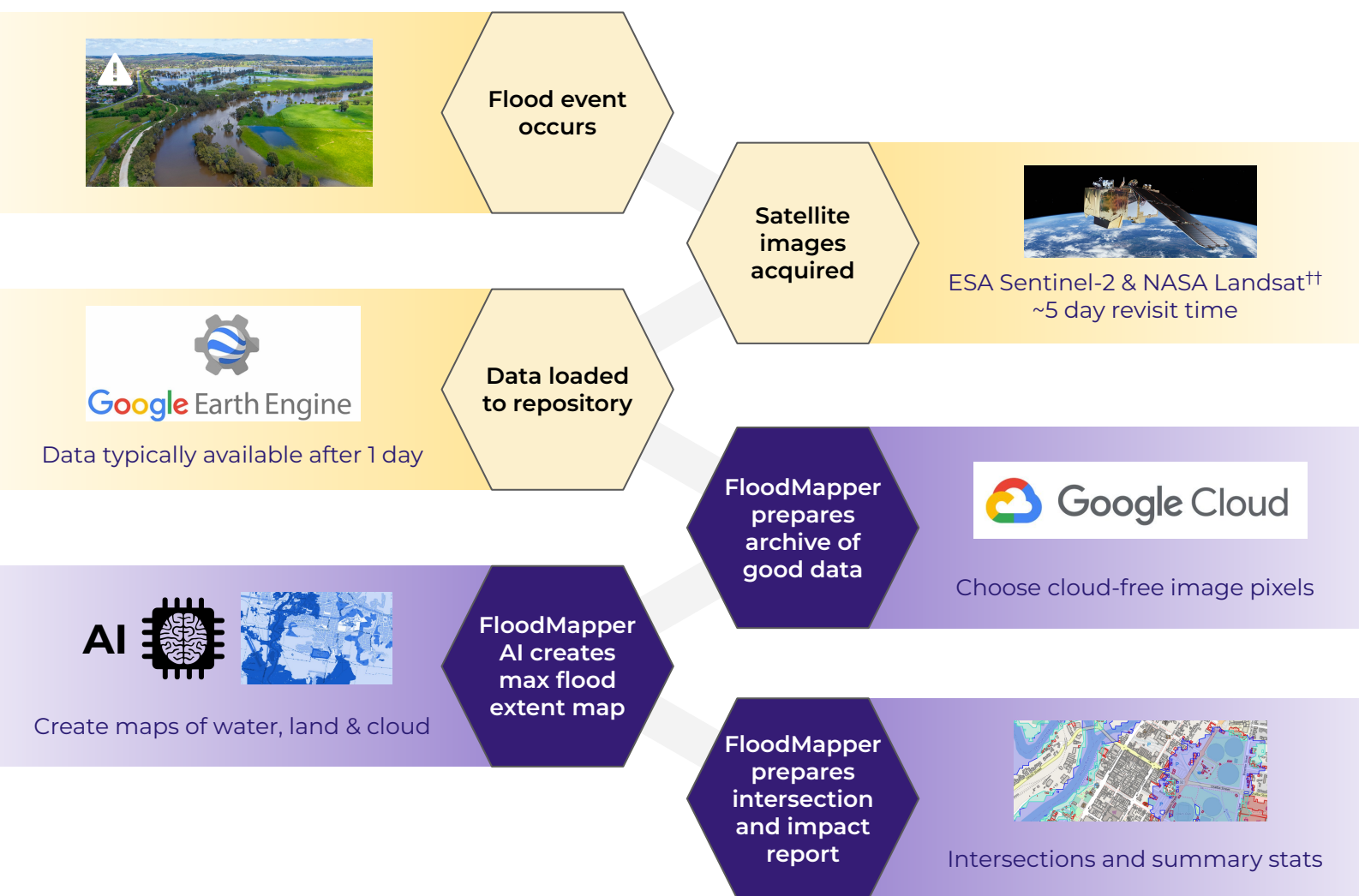


Powered by Trillium's
mature AI mapping tech,
Google Earth Engine
and Google Cloud.

* Mapping time depends on data availability in repository.

† Map resolution matches input data.

How it Works: Open Science on Open Data



Why use FloodMapper generated flood extent maps?

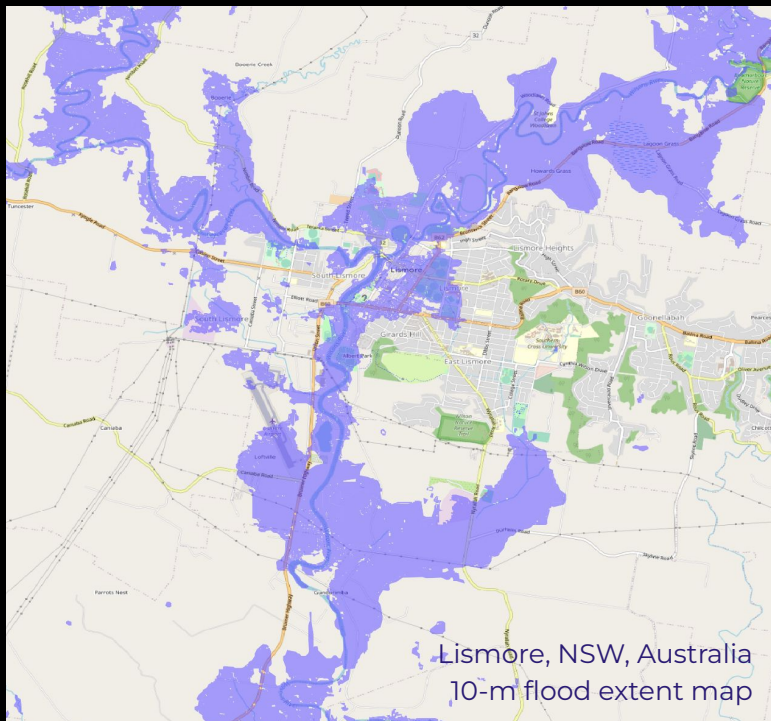
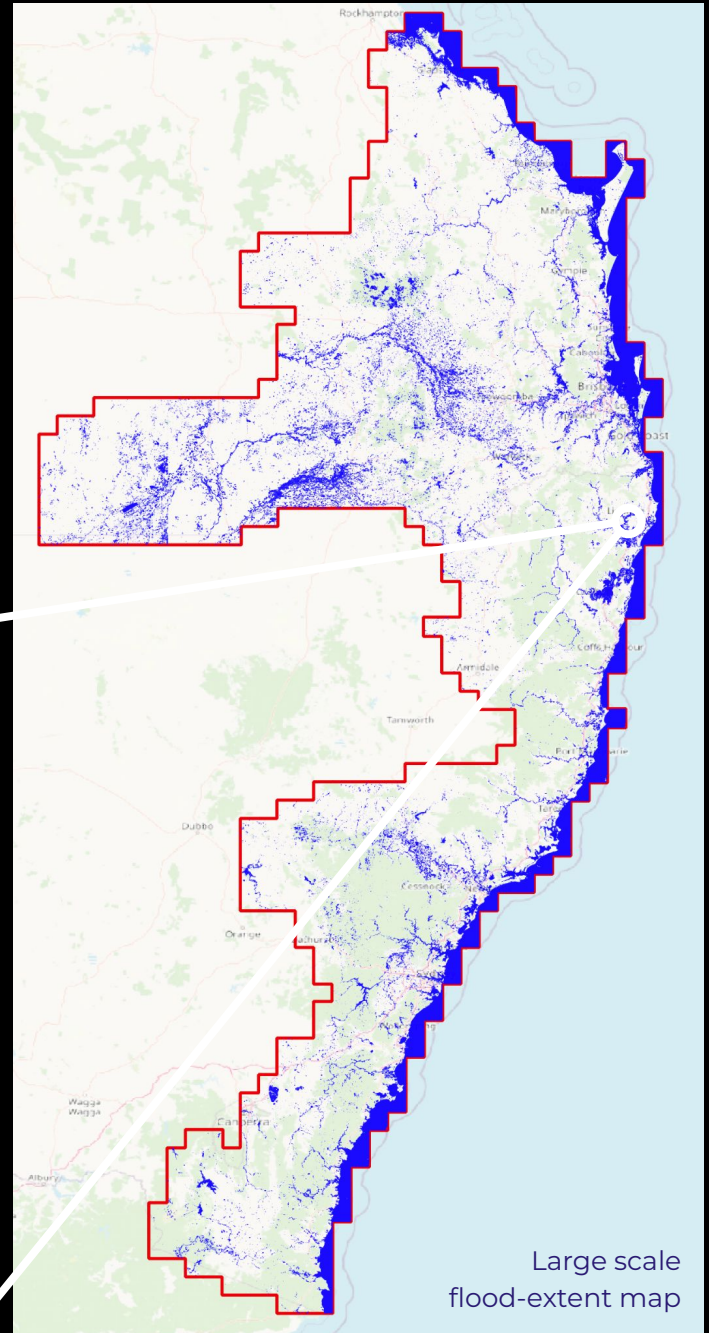
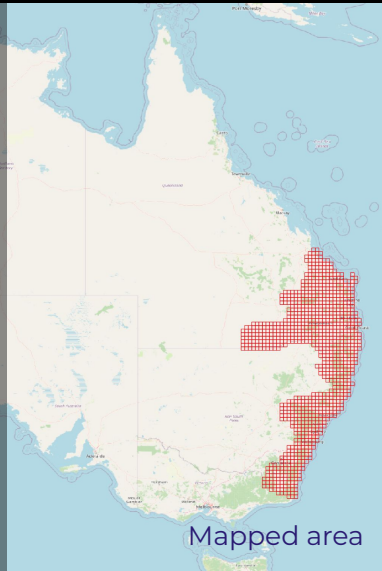
- **Open data:** maps are created from open data using published algorithms, meaning they can be audited for explainability.
- **Large scale mapping:** FloodMapper can create maps of very large areas in only a few days: ideal for monitoring changes.
- **Supporting relief and recovery:** FloodMapper maps made using ESA Sentinel-2 and NASA Landsat data are at 10m resolution and show the maximum extent of sustained flood events - including flood traces.

Capabilities Roadmap

- SAR processing for floods and landslides.
- General change detection.
- Wildfire burnt area and burn severity.
- Fuel moisture content.
- Land use classification.

CASE STUDY: 2022 Floods in Eastern Australia

In 2022, prolonged and heavy rain gave rise to multiple flooding events in eastern Australia. FloodMapper was one of the few systems capable of mapping the flood extent on timescales necessary to inform support and recovery efforts led by the Australian federal government.



Event: Extreme floods during February - April, affecting 475,000 km².

Data: 1.2 TB ESA Sentinel-2 and NASA Landsat 8/9 Images.

Outcome: Flood map created within 12 days for the Australian government.



Australian Government

National Emergency
Management Agency

Get in touch for more information:
team@trillium.tech

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