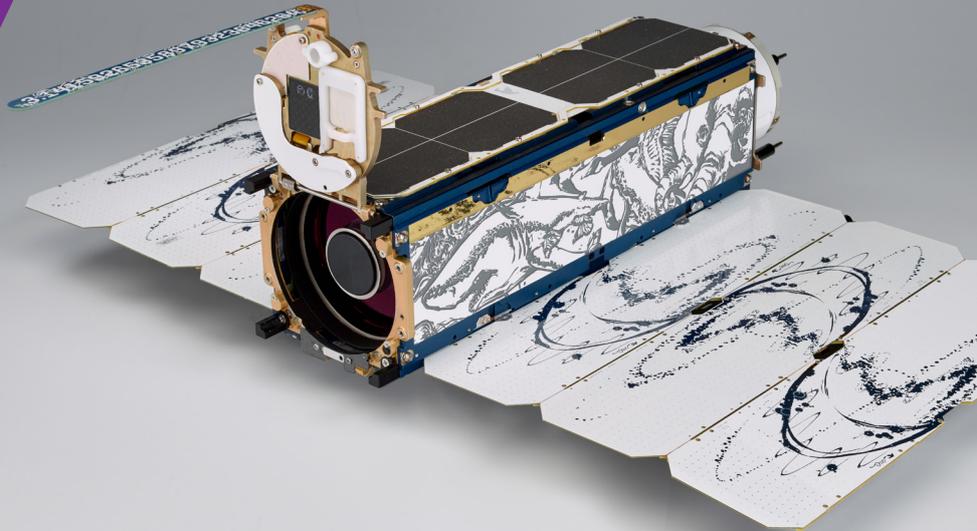


Planet Trial

Q and As



What is happening?

In February 2018 the Victorian Government will commence a three-month trial with a company called **Planet** that will provide access to one of the world's largest constellation of earth-imaging satellites.

These satellites photograph all the land on earth every day – providing unique access to daily and archived imagery, base maps and mapping tools, for a range of monitoring and mapping applications.

The satellites circle the globe in 24-hour loops, passing over the same location at the same time each day – which makes it easier to detect differences from one day to the next.

Every day these satellites take more than one million photographs.

Who are Planet?

Planet designs, builds, and operates the world's largest constellation of earth-imaging satellites. Planet's mission is to image the entire Earth, every day, and make global change visible, accessible, and actionable.

What is the Planet Labs Victoria trial?

A three-month trial of Planet's services for Victorian state and local government departments and agencies.

Who is coordinating the Planet Victoria Trial?

The Forest Fire and Regions Group within the Department of Environment, Land, Water and Planning (DELWP) is coordinating the trial on behalf of the Victorian government.

What satellite imagery is available through the trial?

1. 175+ **Dove microsatellites** capturing daily high resolution satellite images for monitoring and mapping change, pattern analysis and capturing insights
2. Multi-spectral **RapidEye** satellite imagery, including an archive going back to 2009 and integrated access to Landsat 8 and Sentinel-2 archives
3. **SkySat satellites**, capturing detailed (80 cm) multi-spectral imagery at sub-weekly intervals*

*access to SkySat will be limited during the trial.

How do I sign up to the trial?

If you have a vic.gov.au email address, you can sign up to get access to the Planet Victoria trial at geoplex.typeform.com/to/SWOiPk

Is this trial aimed at GIS and other technical specialists only?

No. It is aimed at everyone. Planet's imagery is stored in the cloud and accessed via a web browser, so like Google maps and other online platforms, you don't need technical skills to search and view images.





What can Planet imagery be used for?

Air and water quality monitoring

Smoke detection & monitoring
Pollution outbreak detection and monitoring

Energy and Infrastructure

Asset monitoring and planning
Impact assessment

Forest and land management

Forest monitoring & reporting
Revegetation assessment
Disturbance detection

Environmental monitoring and compliance

Native vegetation clearance monitoring

Emergency management

Monitoring and response

Recovery – damage assessment

Risk & consequence assessment

Land use and urban planning

Urban growth monitoring

Agriculture

Monitoring crop health
Planning

Water and catchment management

Pollution monitoring
Flood mapping

Mapping

Refreshing basemaps

How can I access the Planet imagery during the trial?

There's no need to download gigabytes of imagery to get started. Planet's entire dataset lives online and is accessible via web-based tools and online API.

Planet's imagery catalogue and archive is available to view online via [Planet Explorer](#). Through the Planet Explorer you can view daily capture imagery as well as monthly and three-monthly mosaics based on a location search, or by drawing/importing a customised search area.

Planet monthly mosaic imagery basemaps are also available as a Web Map Tiled Service (WMTS) or XYZ Tile service, which can be loaded and viewed in several applications such as ArcMap and QGIS.

Some imagery is available for download during the trial. If you'd like to be able to download this data for a specific project or get access to SkySat during the trial, please contact planet.trial@delwp.vic.gov.au

How is Planet different from traditional aerial photography?

While traditional aerial photography can provide lots of detail, in many parts of Victoria it is collected on an infrequent and irregular basis, which can make it unsuitable for monitoring change. Different seasonal conditions, sun angles and types of photography between different aerial photography captures over the same area, can also make change detection difficult and the application of new Artificial Intelligence (AI) and machine learning tools is also limited.

New online subscription-based services for remote sensing imagery delivered through the cloud (such as Planet), provide more immediate and direct access to imagery to end users for decision making, and often without the need for expensive software or highly specialist expertise.

Can I integrate Planet base maps and imagery into my organisation's web-mapping platforms?

Access to a WMTS and XYZ tile service will be available during the trial, which will allow users to display Planet imagery mosaics in desktop applications and web mapping platforms that provide WMTS and/or XYZ support, without having to download and maintain GeoTiff files. For a guide on doing this, refer to the documentation [here](#).

If you would like more information on how to embed the Planet API in your own organisation's internal web mapping platform, please contact planet.trial@delwp.vic.gov.au

Note that users will not be able to embed such tiled services in mapping applications that are publicly available.

What area will the Planet trial cover?

The trial area includes all of Victoria's land, and up to 10 km into South Australia and New South Wales. The trial will also include the areas of Port Phillip and Western Port Bay, and extend roughly 10 km from the Victorian coastline into Bass Strait. However, coverage of the satellites within Bass Strait is less frequent.

I don't have a vic.gov.au email address, can I still take part in the trial?

Access to the trial is available to all staff in Victorian state government departments, local government and partner agencies for non-commercial use. If you don't have an email address ending in vic.gov.au you may still be able to view the imagery should the Basemaps be added to your internal mapping applications such as ArcGIS, or other online mapping applications. You will not be able to access the imagery or data from Planet Explorer or via Planet's API.

Land cover change





How else can I get involved?

A two-day hackathon in Victoria is planned in early April 2018. This will be an opportunity for trial participants to work directly with Planet engineers and come together with other end-users to build custom analytical and decision-making tools and algorithms for extracting information and maximising insights from Planet's imagery. If you are interested in taking part or have an application idea for Planet that you'd like to explore, please contact planet.trial@delwp.vic.gov.au

How is the trial being evaluated?

Once the trial is underway, a survey will be circulated to all participants to get detailed feedback on Planet's services and how they and the imagery are being used. Users will also be invited to give more detailed feedback via a focus group.

Are there any limitations to how I can use the imagery or data during the trial?

Access to the Planet imagery and/or data and derived products are available to all employees of Victorian state and local government departments and agencies. Planet imagery, data or derived products created during the trial are not to be sold, distributed or made available to the public, or used for any commercial purposes. When registering for the Planet trial, participants are required to read and agree to the Terms and Conditions and End-User Licence Agreement available at geoplex.com.au/planet-eula and planet.com/terms-of-use

How do I find out more information?

If you have any questions about the Planet Victoria trial, please email planet.trial@delwp.vic.gov.au

If you have specific technical questions about Planet data and services, please contact planet@geoplex.com.au



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