



# Digital Earth Australia

## An introduction for industry

Almost every sector in the Australian economy benefits from the use of spatial information and location technologies. Australia's spatial industry is forecast to generate 15 000 new jobs and contribute around \$8 billion per annum to Australia's economy by 2025<sup>1</sup>. Globally, the forecasted growth of 30% per annum in geoservices provides a great opportunity for Australian companies to increase their businesses on an international scale.

In the 2017–18 Budget, the Government announced an investment of \$15.3m over the next two years to apply satellite data to streamline government business and support innovation and growth in the digital economy. This effort, named Digital Earth Australia (DEA), will be delivered by Geoscience Australia.

### What is DEA?

DEA is a key piece of Australia's digital infrastructure that provides an analysis platform for satellite imagery and other Earth observations<sup>2</sup>. Today, it translates 30 years of Earth observation data (taken every two weeks at 25 metre squared resolution) into information and insights about the changing Australian landscape and coastline. When fully operational, DEA will provide us with new information for every 10 metre squared of Australia, every five days.

DEA will provide Australian industry with access to stable, standardised data and imagery products from which it can innovate to produce new value added products and services, particularly in the development of applications that can improve agricultural productivity, and provide more efficient tools for environmental accounting and monitoring.

The products created by Australian businesses and researchers using DEA will be transferable to international markets as they evolve. The underpinning satellite data is global, and the United Kingdom, United States, Canada, and South Africa are exploring their own deployments of the international open source Open Data Cube technology on which DEA is based<sup>3</sup>.

1 2015 ACIL Allen, The Value of Earth Observations from Space to Australia: <https://data.gov.au/dataset/the-value-of-earth-observations-from-space-to-australia>  
2 [www.2026agenda.com](http://www.2026agenda.com)  
3 [www.opendatacube.org](http://www.opendatacube.org)

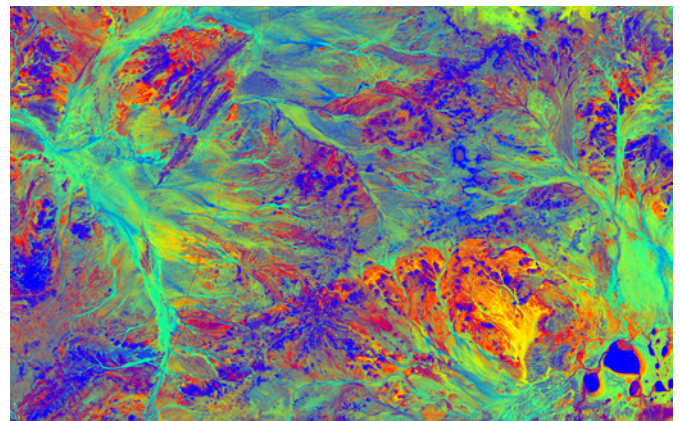
### Industry Strategy

Understanding the requirements of Australian businesses for Earth observations, data infrastructure, and information products is integral to the success of DEA and to fully realising the benefits of spatial information. The DEA Program is working with the Cooperative Research Centre for Spatial Information to develop an Industry Strategy that ensures the DEA will generate value for the spatial sector and the wider Australian economy.

### Join Us

We invite you to be part of the future of DEA as we continue to integrate new datasets, add capabilities, and enhance usability and interfaces to support Australia's spatial industry and contribute to the Open Data Cube community.

Contact us to discuss how DEA can inform and support your interests.



Fractional Cover (FC) can provide insights into areas of dry or dying vegetation and bare soil, as well as allowing the mapping of living vegetation extent. The method used to separate out these parts of the landscape was developed by the Joint Remote Sensing Research Program, a collaboration between state agencies to develop the use of remote sensing in environmental management.

#### For Further Information:

Web: [www.ga.gov.au/dea](http://www.ga.gov.au/dea)  
Email: [earth.observation@ga.gov.au](mailto:earth.observation@ga.gov.au)

