- Managing spatial data
- Positioning technology
- Latest spatial imagery
- New access tools





Spatial data

- related to the surface of the Earth (incl. above & below)
- Latitude / longitude
- Coordinates (X,Y & Z)
- Big & Small, Natural & Built objects
 - Country
 - State & Region
 - Local Government Area, Electorate, Postcode...
 - Place, Locality, Suburb
 - Street Address, Road
 - Building, apartment, shop, room...
 - Point
- Typically grouped into Themes or Layers

Spatial Data Themes

Imagery is a snapshot of Queensland's natural and physical assets and environment captured by a camera or sensor from terrestrial, Remotely Piloted Aircraft System (drone), manned aircraft, or satellite platforms.

Location Address describes where the physical location of a property is.

Place Names are the recorded names of cultural, physical and geographical features (whether natural or artificial).

Transport is the representation of land, water and air networks (roads, rail, ports and transport infrastructure).

Administrative Boundaries is a collection of legislative, regulatory, statistical, political, maritime and ethergeneral administrative boundaries.

Land Parcel and Property (cadastre) contains descriptive data including boundaries, tenure, ownership type, size and a record of interests in land for the purpose of land administration.

Elevation and Depth is the measurement of the Earths' surface above or below a vertical datum.

Water encompasses the movement, distribution, and quality of surface water or groundwater.

Positioning provides the precise location of points above, on or within the earth (includes names, unique code, latitude, longitude, datum and height).

Department of Natural Resources and Mines

Queensland Foundation Spatial Data Themes (10)



Imagery

Imagery provides a photographic record of Queensland's natural and physical assets and environment recorded from an aircraft or satellite.



Location addressing

Location addressing is used to describe the physical location of a property, i.e. any separately owned or occupied area of land, or each separately owned or occupied building or part of a building.



Place Names

Place Names are the recorded names of cultural and physical features with associated location and extent - the most commonly used spatial identifier and can include alternate and historical place names.



Transport

Transport describes the land, water and air networks used to move people and goods, and deliver services - providing information on roads, rail, ports, and transportation infrastructure.



Land Parcel and Property

Land Parcel and Property provides the basic fabric of land ownership. The cadastre is established for land administration including land parcel and property information.

Queensland Foundation Spatial Data Themes (10)



Administrative Boundaries

Administrative Boundaries are a collection of legislative, regulatory, political, maritime and general administrative boundaries sourced from local and state boundary datasets.



Land Cover

Land Cover is the observed biophysical cover on the earth's surface including trees, shrubs, grasses, soils, exposed rocks and water bodies, and other elements such as plantations, crops and built environments.



Water

Water encompasses the hydrology of movement, distribution, and quality of water - includes surface hydrology, hydrogeology and drainage basin management.



Elevation and Depth

Elevation and Depth is the measurement of the Earth's surface above or below a vertical datum to obtain the land height or bathymetric depth.



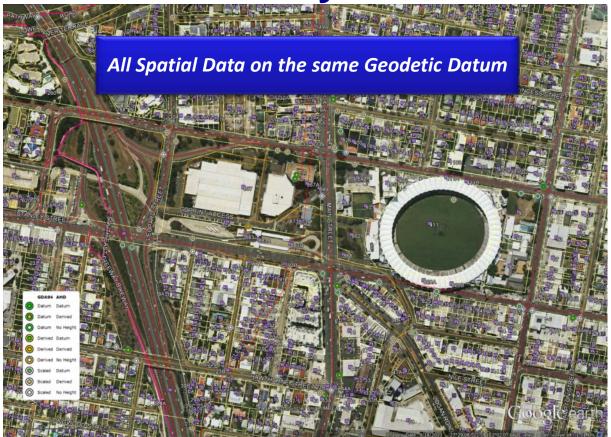
Positioning

Positioning provides a common reference system for establishing a coordinate system for all spatial data. It ties all spatial data to a common and recognised horizontal (GDA94) and vertical (AHD) coordinate system.



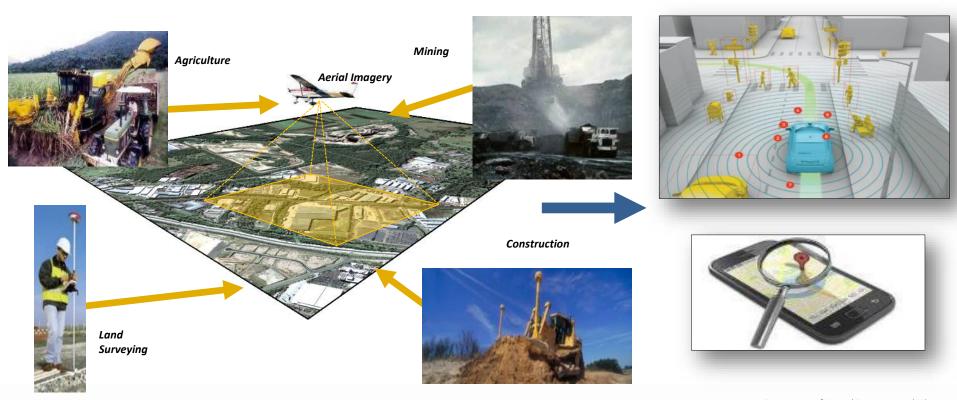
Coordinate Consistency

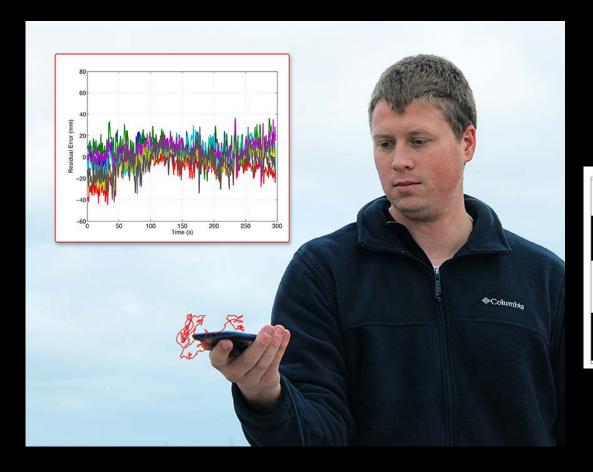
Geodetic
Datum
Imagery +
DCDB +
Addresses +
Boundaries
+...



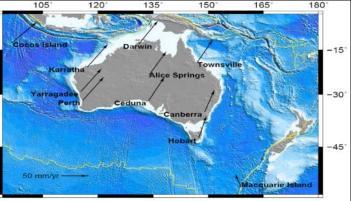


Precise Positioning Applications





It is possible to get +/- 3cm from GNSS Smart phones now

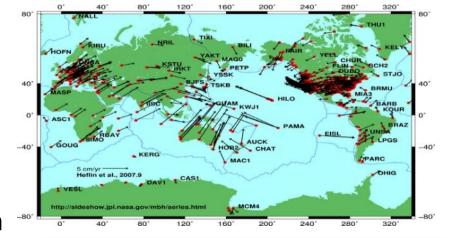


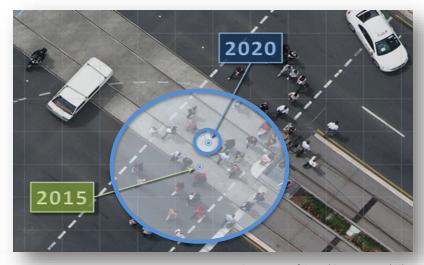
But the country is moving 7.5cm p.a.!

Our datum needs to move with the times...

- Currently on GDA94
- Moving to GDA2020
- Plan to introduce a dynamic datum











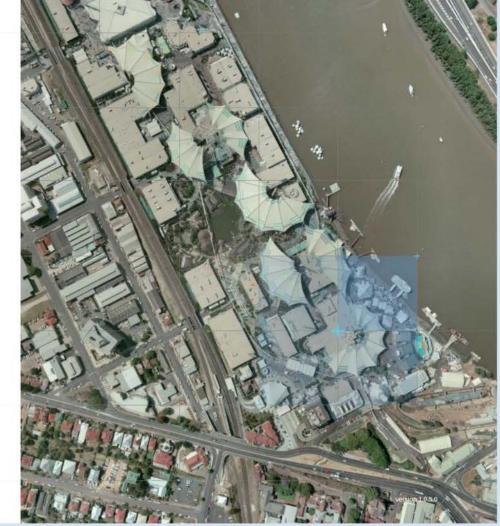
Welcome to Qlmagery

Queensland Government's online collection of photographs from the 1930's to 2009.

Search and download images as you investigate Queensland's history and see how the landscape has changed over time. The photographs are available free to everyone for use as they require within licence conditions.

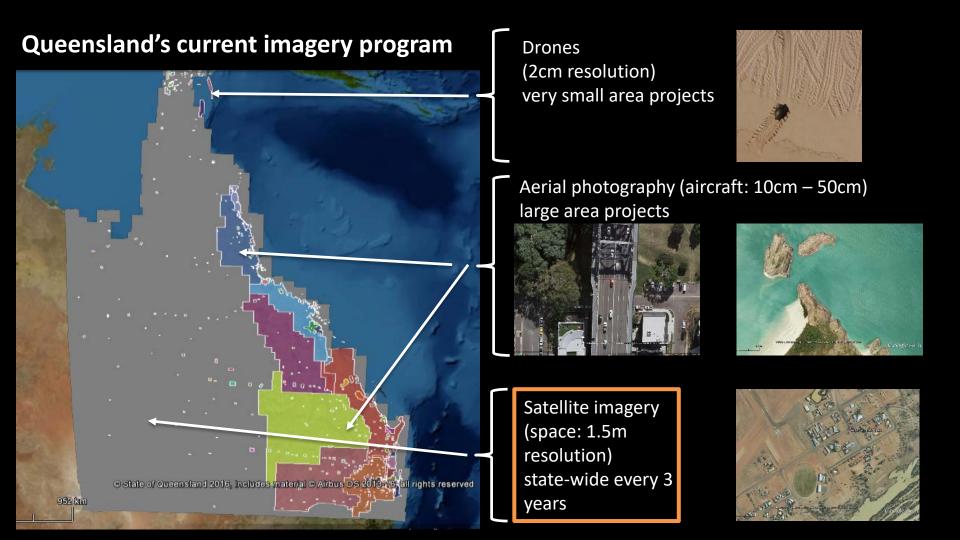
1 acknowledge I have read and agree to the Terms & Conditions.

final county



The State of Queensland 2017

Copyright Disclaimer Privacy Right to information Accessibility Jobs in Queensland Government Other languages (Italiano)





DNRM Market Assessment (RFI / RFQ) Acquisition of State-wide Satellite Imagery

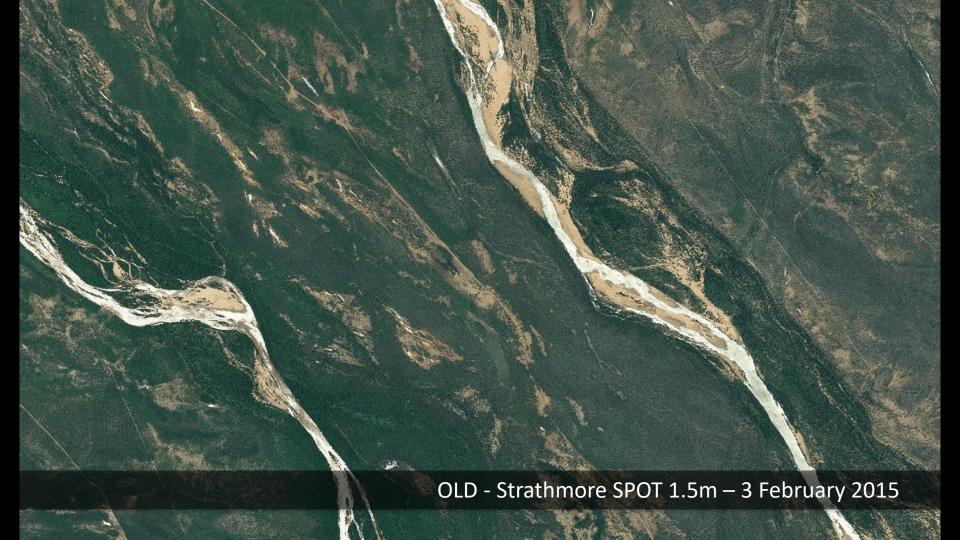


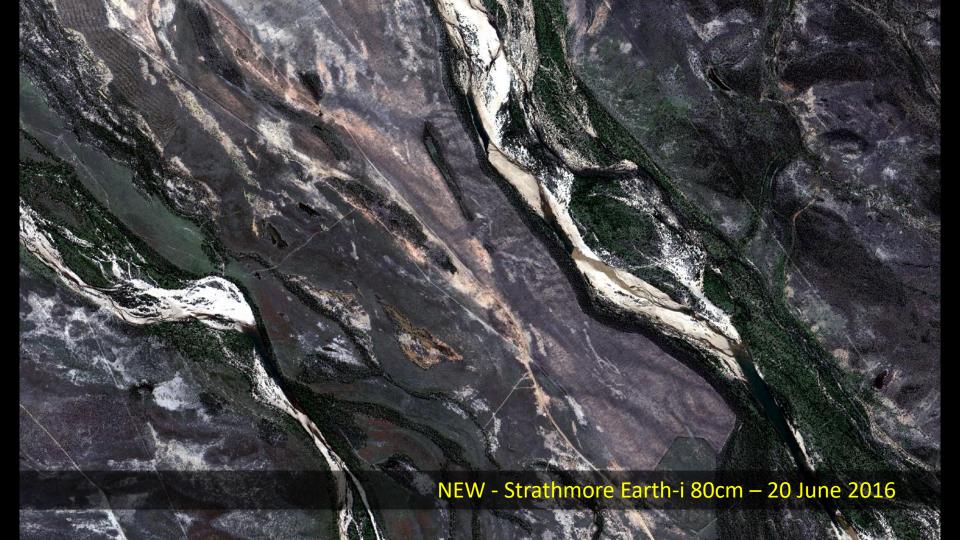




Will deliver:

- High resolution imagery at 80cm (was 1.5m)
- Annual state-wide acquisition (was every 3 years)
- Available in the Queensland Globe





















A Superior Solution...

Tender process identified a new and unique opportunity





















A Superior Solution...

- Tender process also identified a new and unique opportunity
- Cube Sats Geoplex / Planet Labs





CubeSats:

- Small (10cm x 10cm x 30cm)
- Low cost (\$10K \$100K)
- Many (hundreds of them)
- Medium resolution (+/- 3m)
- Daily imagery





ABC Catalyst program – Tuesday 18th October 2016



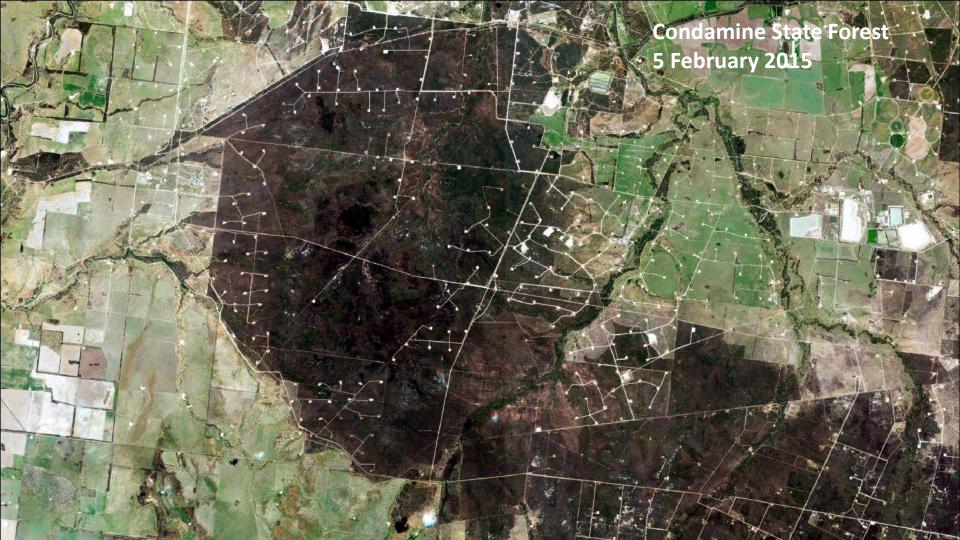


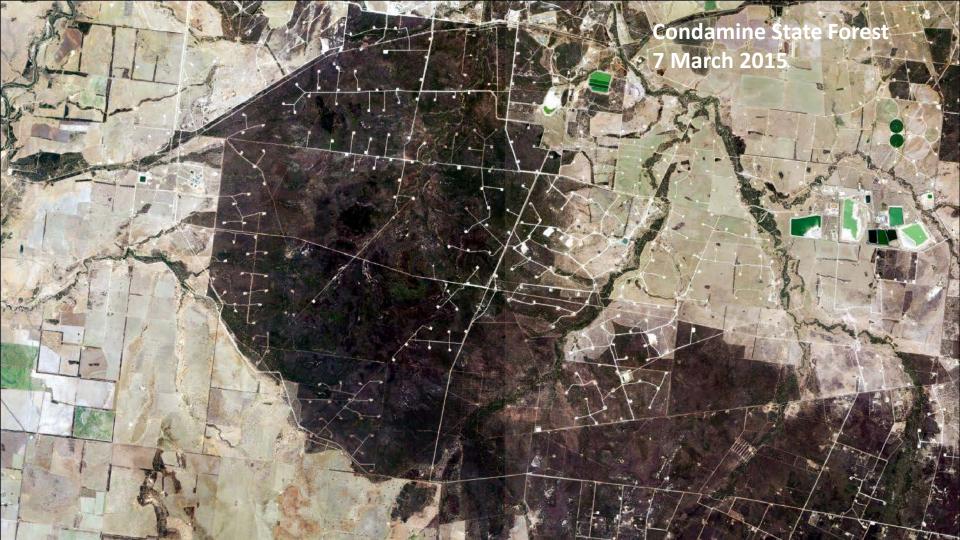




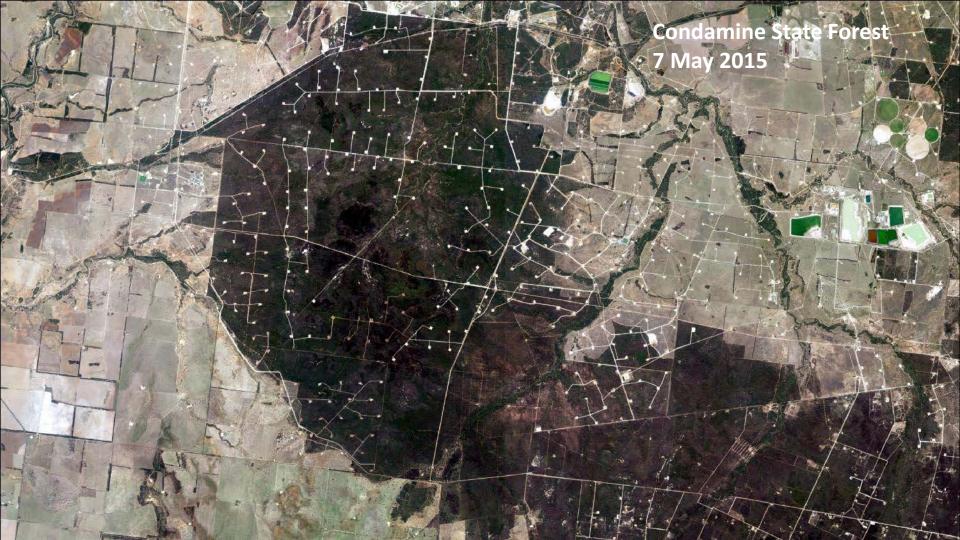












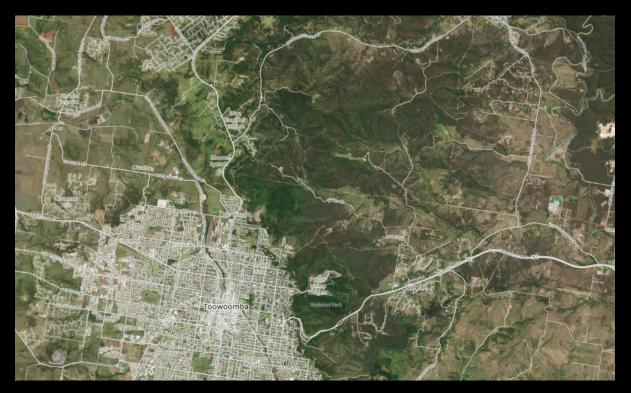




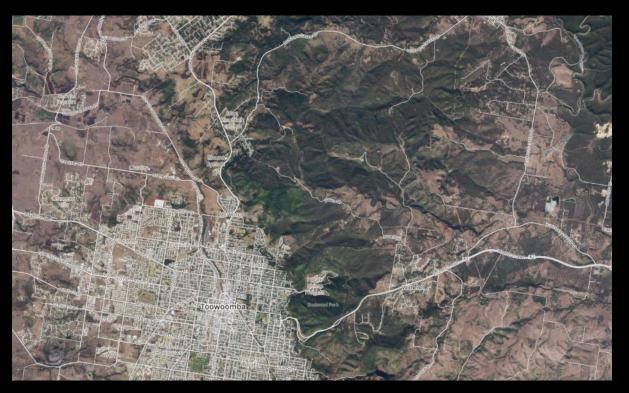




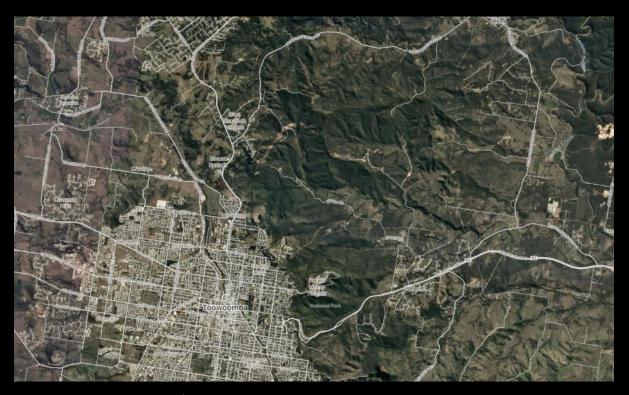




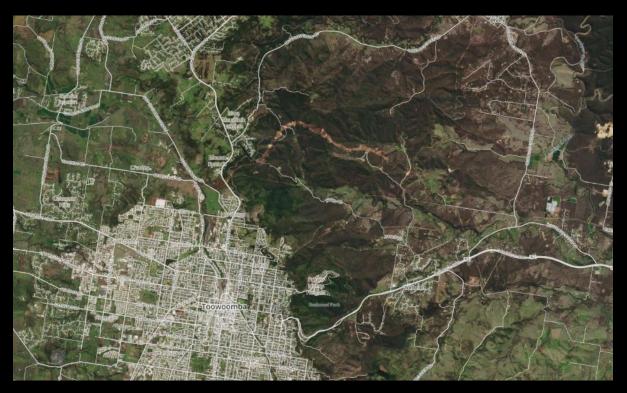
Toowoomba 2nd Range Crossing—25 Feb 2016 (RapidEye)



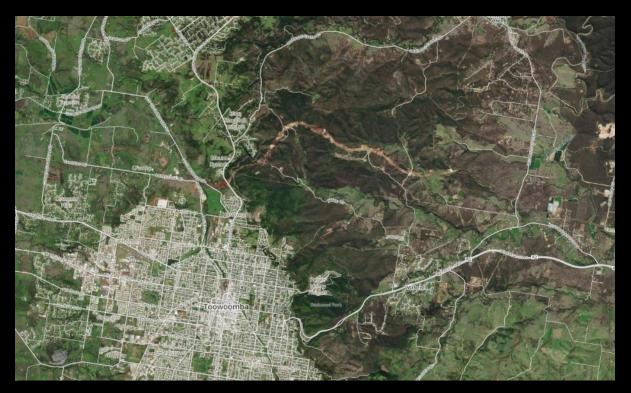
Toowoomba 2nd Range Crossing—8 Jun 2016 (RapidEye)



Toowoomba 2nd Range Crossing– 25 Jul 2016 (Planetscope)



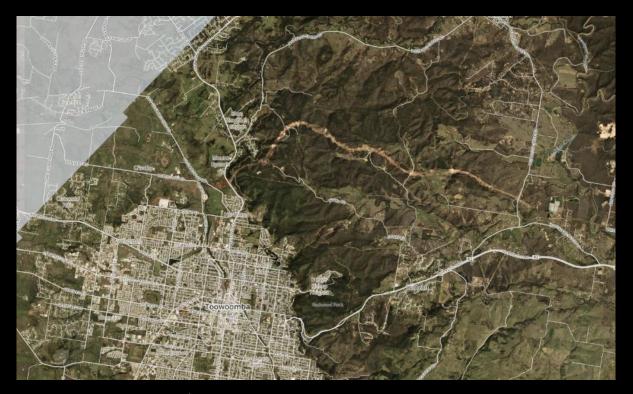
Toowoomba 2nd Range Crossing—11 Sep 2016 (RapidEye)



Toowoomba 2nd Range Crossing—20 Sep 2016 (RapidEye)



Toowoomba 2nd Range Crossing—1 Oct 2016 (Planetscope)



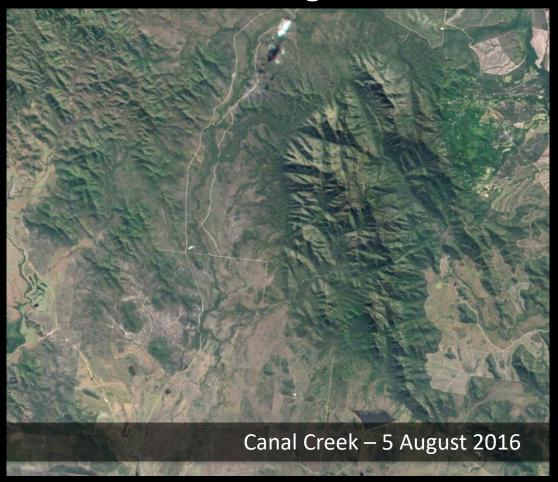
Toowoomba 2nd Range Crossing-4 Oct 2016 (Planetscope)





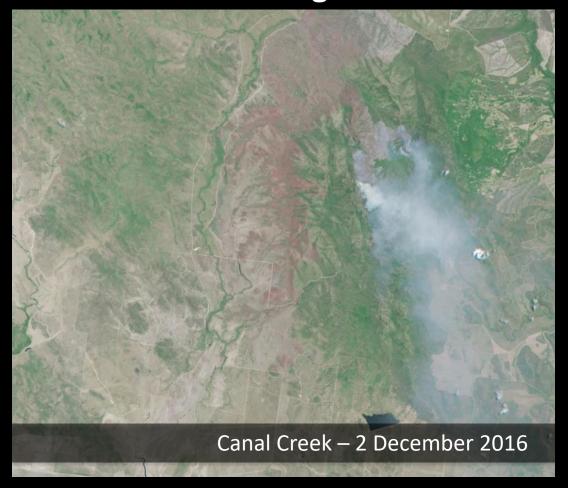












Emergency Management



Emergency Management



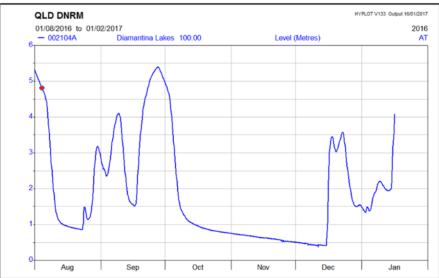
Emergency Management



Environmental Monitoring - Flooding

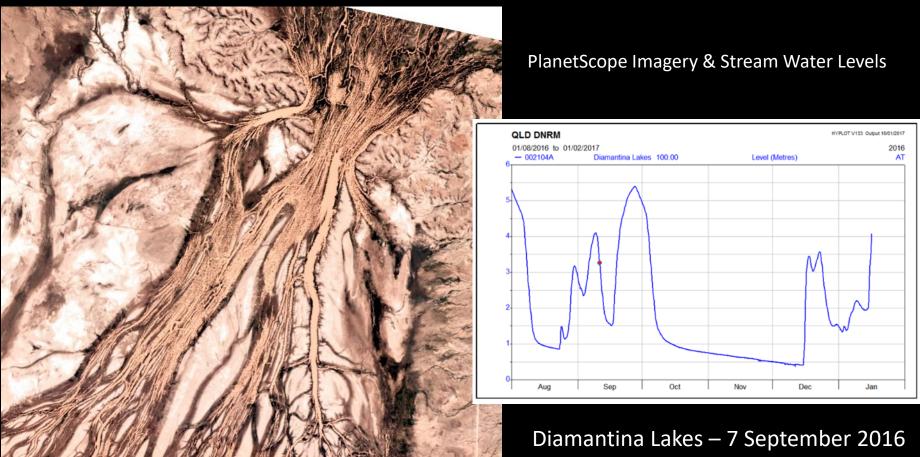


PlanetScope Imagery & Stream Water Levels

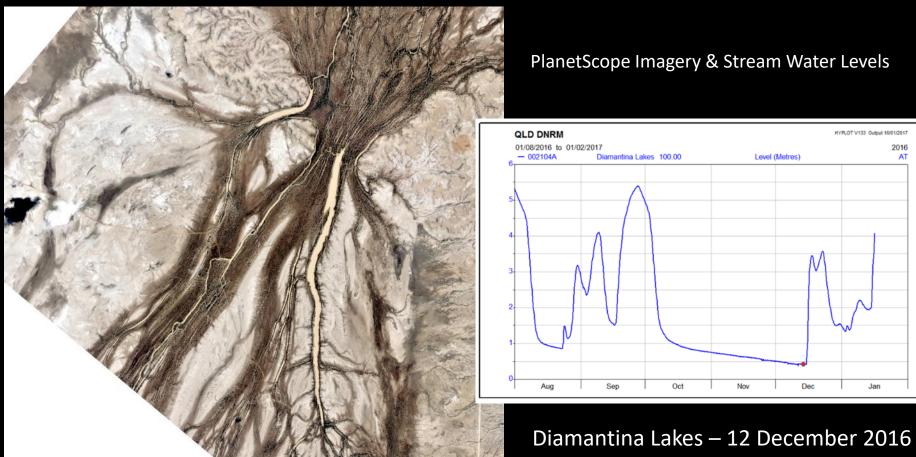


Diamantina Lakes – 3 August 2016

Environmental Monitoring - Flooding



Environmental Monitoring - Flooding



A Superior Solution...





- Earth-I's 80cm imagery p.a. plus
- 3m Planet imagery
- Imagery archive available back to mid 2015
- Full coverage of Queensland
- Plus 4 'snapshots' of Queensland from Planet (every quarter) for archive
- One snapshot available as 'Open Data' creative commons for anyone to use
- All imagery will be accessible for viewing in the Queensland Globe Data available to:
 - all Queensland Government Agencies
 - All Local Governments
 - All Government Owned Corporations

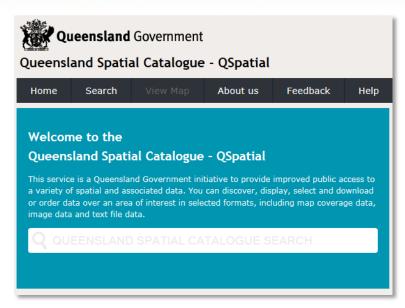


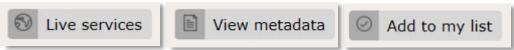


User choice

Find, connect, download & view

- Visualise through Qld Globe
- Download
- Connect directly via web services









Queensland Globe

Introducing a new release of the Queensland Globe

Online portal to view location based information maintained by the Queensland Government

Over 600 layers of data

Current, free and available on any device

Biota (flora and fauna) **Boundaries Economy Elevation Environment Farming Geoscientific information** Imagery and base maps **Inland waters** Locations **Oceans Planning cadastre** Society



Welcome to Queensland Globe

The Queensland Globe is part of the Queensland Government's open data initiative.

The new Qld Globe draws on our experience with the current Globe and user feedback to improve our customers experience accessing the vast array of spatial information available, and importantly, it provides a sound foundation for future development.

While the beta version doesn't include all intended data layers or functionality, this is an important opportunity for you to experience the updated Globe and provide valuable feedback to assist us in refining the product prior to release.

By using the Queensland Globe you acknowledge the following Terms & Conditions and Specific Data Conditions

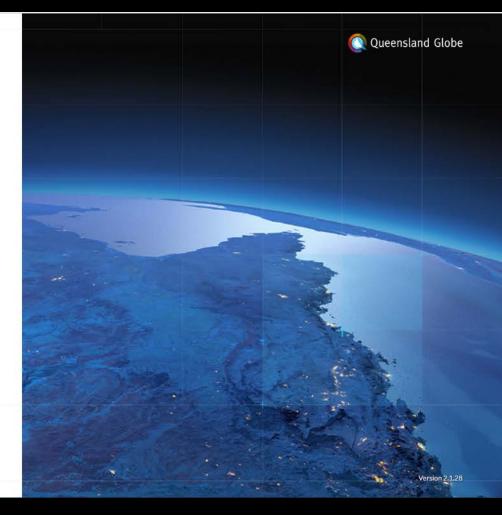
CET STARTED

TAKE TOUR

Contact Us Copyright Disclaimer Privacy Right to information Accessibility Jobs in Queensland Government EAAryviká (Other languages)

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Queensland Government

















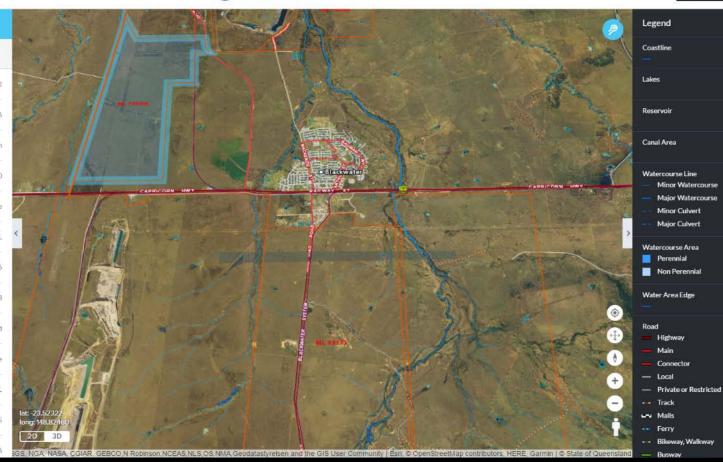






6

Attributes	
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PERMITTYPE	Mining Lease
PERMITTYPEABBREVIATION	ML
PERMITNUMBER	700006
PERMITSTATUSTYPEID	3
PERMITSTATUS	Granted
PERMITSTATE	None
PERMITMINERALS	COAL
ODGEDATE	15 April 2015
APPROVEDATE	27 June 2016





http://qldglobe.information.qld.gov.au

Contact: opendata@dnrm.qld.gov.au





Questions or follow-up opendata@dnrm.qld.gov.au

