



Geospatial Datum Modernisation Policy

Transport is committed to leveraging the increased accuracies provided by modern positioning and navigation technologies.

We are committed to greater innovation and efficiency in delivering high quality transport and services that makes NSW a better place to live, work and visit.

Accurate and consistent geospatial information is crucial to delivering transport infrastructure that relies on accurate satellite positioning and surveying.

Australia's Geospatial Reference System is being upgraded to better align with the reference frameworks used by modern devices including smart phones, remotely piloted aircraft, autonomous vehicles, etc.

The Geocentric Datum of Australia 2020 (GDA2020) has superseded the GDA94 datum as the static national datum of Australia. GDA2020 is defined in the *National Measurement (Recognized-value Standard of Measurement of Position) Determination 2017*.

GDA2020 aligns more closely with Global Navigation Satellite Systems (GNSS) such as GPS and provides nationally consistent datasets, free of the known distortions of GDA94.

The *Surveying and Spatial Information Act* and the *Surveying and Spatial Information Regulation* legislate that GDA2020 is the legal datum for use in New South Wales.

We will take advantage of increased positional and navigation accuracy by:

- Adopting GDA2020 from 1 January 2020 through an incremental approach, meaning some projects and systems are to maintain previously set datum unless it is cost effective to transition to GDA2020.
- Ensuring all geospatially referenced datasets that are acquired, created, manipulated, transferred and stored have an associated datum stated in the metadata that is verified and traceable.
- Adopting the [GDA2020 logo](#) for geospatial data to highlight compliance with GDA2020.
- Trialling and adopting positioning and navigation technologies that take advantage of the modernised Geospatial Reference System, including the time-dependant Australian Terrestrial Reference Frame (ATRF).

This Policy applies to permanent, temporary and casual staff of TfNSW only, including staff seconded from another organisation and contingent workers including labour hire, professional services contractors and consultants.

A handwritten signature in black ink, appearing to read 'R. Staples'.

Rodd Staples
Secretary
12 May 2020