FSDF Positioning Theme Roadmap

Currently funded and included in work programs

Required to meet outcome, but not yet funded nor included in work programs of custodians / sponsors

Goals

Outcomes against Areas of Focus

2015 2016 2017

Future Status

Quality

- A nationally consistent National Positioning Infrastructure and datum which underpins all positioning in Australia with an accuracy of 2cm in real-time while meeting other user requirements.
- Coverage includes mainland Australia, Tasmania, external territories and the maritime jurisdiction.

Establish a mechanism for the NPI user community to provide input on their requirements for accuracy, integrity, timeliness and availability

Incorporation into NPI of state/territory investment in positioning infrastructure

National adjustment for GDA2020 is operational

New GNSS analysis capability developed

National transformation grids from GDA94 to GDA2020 developed

New geoid model developed

Supply Chain

- Cooperative Research Centre on Spatial Information – Program 1 outcomes incorporated into development of GDA2020

Research to underpin GDA2020 development

National governance framework implemented - agreements in place to ensure data sharing between jurisdictions

Automated data sharing and product delivery implemented in all jurisdictions via eGeodesy

Options for private sector collaboration developed

Delivery

- GDA2020 is fully documented
- Tools and services required to implement GDA2020 are available.

Business case articulating drivers, costs and opportunity costs associated with datum upgrade

Options for delivery of national GNSS corrections documented

Development of GDA2020 technical manual

Development of public document – NPI Strategic Plan

Network upgrade to full GNSS and improved integrity

Policy

- National positioning services continue to be made available under open and low cost policies. Resellers can augment this service as opportunities arise.

No change to existing open and low cost policy.

Engagement

- Widespread adoption of GDA2020.

Establish datum implementation group.

Reference groups continue to update user requirements

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User engagement plan

Communication tool to explain datum change to industry and the public

Development of the new GDA2020 national datum, and development and maintenance of a national real-time Global Navigation Satellite System (GNSS) positioning capability which will provide real-time access to GDA2020 with 2cm accuracy.

Precision positioning will contribute 2.1% of Australia's GDP by 2030, and will support automated mining, driverless cars, subsidence mapping, and navigation of unmanned aerial vehicles.

Positioning will continue to provide the reference frame for the collection and management of other foundation spatial datasets.

Sponsor:

ICSM
INTERGOVERNMENTAL COMMITTEE ON SURVEYING & MAPPING

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