



Key

Not Funded

Funded

Future Status

Outcomes against Areas of Focus

2015

Goals
2016

2017

Quality

- National coverage elevation datasets will have a 12m resolution, improving to 5m in the vicinity of airfields, and to 1m in urban areas and other areas vulnerable to hazards
- Vertical accuracy for national coverage elevation datasets will be no worse than 2m in flat terrain, improving to 10cm in priority areas for modelling water flows
- Datasets in the near-shore zone will be able to be seamlessly joined
- A legal representation of Australia's coastline at lowest astronomical tide will be completed
- Gaps in the shallow water zone will be filled using various techniques such as earth observation
- Improve tidal measurements from 50cm to 20cm

Current Data models and specifications will be published

First tranche of user needs for national elevation, coastal zone and bathymetry products will be captured

High-resolution LiDAR data will be captured over priority areas in the Murray-Darling Basin

Gap assessment and plans for upgrading published

Techniques using earth observation to improving mapping of shallow water, intertidal zone and benthic structures established

Techniques to improve tidal measurements investigated

Completion of territorial sea baseline capture. Integration of other coastline representations in areas of significant tidal ranges will be completed

Statewide elevation acquisition programs for NSW finalised

Investigation into application of TanDEM-X to improve national elevation coverage

Techniques to improve tidal measurements implemented.

Elevation, tidal and bathymetric data will be seamlessly integrated to better support decision-making in the coastal and nearshore zone. National elevation products will be derived from best available national coverage datasets, improved with more finely-detailed data held by local or state/territory authorities. Datasets supporting intelligent transport and safety, and water modelling, will be co-developed in line with the evolution of elevation information. Improvements in data storage capacities and bandwidth underpin this future state.

Supply Chain

- High performance computing will be used to build national products from the growing number of localised high-resolution LiDAR, nearshore or offshore acquisition projects, or from larger-coverage acquisition programs at a state level
- Clear and agreed governance of foundation spatial datasets between land information agencies, marine agencies and other sectors. Data held by local government, state government, the Commonwealth and private providers will be integrated into foundation datasets

Dependencies on other datasets will be documented

High performance computing facility in place to deliver products for Murray-Darling Basin

Integration of best available, high-resolution elevation and bathymetry observations and projects into national dataset

Agreed roles of land information agencies, marine agencies and other sectors.

Delivery

- Surface and 'bare-earth' models will be delivered as products
- Elevation products will be more widely delivered as web services
- All products will be easy to find and available for dissemination

5m coastal DEM products funded by the Climate Change Adaptation will be available

Review of National Elevation Data Framework portal business model

Generation of products to meet water modelling requirements

Generation of general use national elevation and bathymetry products

Implement changes as a result of the NEDF portal/business model review

Generation of products to meet civil aviation requirements

Engagement Policy

- Agreement will be reached with private providers of products on what constitutes "foundation" datasets (and therefore available under minimum restrictive licensing)
- Agreement will be reached on inclusion of high quality but restricted elevation data into open, national products

Agreement with custodians of restricted data – minimal restriction on dataset use

Reference groups established and linked with FSDF

Reference groups continue to supply updated user requirements and visions for longer-term foundation dataset development