FSDF Land Cover 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

Outcomes against Areas of Focus	Goals 2015	2016	2017	Future Status
Quality • Land cover datasets will be utilised to model change through time. • Land cover datasets will include attribution that models the built environment such as buildings; modified natural environments such as agriculture, forestry and livestock production; and unmodified natural environments such as desert, the intertidal zone, ice, snow, water and rock. • Changes in land cover will be monitored by combining low resolution, fast turnaround imagery with higher resolution information from other sensors.	Data specifications will be published for available datasets Built environment components of land cover information framework established and documented	Updates to datasets as per user engagement. Research into automated extraction to develop built environment information and attribution completed	Representation of built and modified natural environments for the purposes of exposure to hazards completed Completion of update to buildings in New South Wales as per NTICI agreement	The Land Cover datasets will provide insight into the response of the landscape to natural and anthropogenic drivers, which in turn can assess if any policy interventions are required to mitigate that change. In agricultural areas, changes in land cover will be tracked down to the paddock level on an annual basis; in urban areas, building footprints will be modelled in 3D and incorporate construction materials to better determine their exposure to hazards; and in remote areas changes in vegetation cover, sand, ice and water will be used to monitor ecosystem health. The maintenance of these datasets will continue to rely heavily on other FSDF datasets such as those identified in the Imagery theme
Supply Chain • National land cover datasets and products will be aggregated and/or derived from a variety of other foundation spatial datasets or best available localised acquisition projects via high performance computing.	Dependencies on other datasets will be documented	Procedures to produce an annual 250m land cover product, the dynamic land cover product, the fractional land cover product and selected land cover themes at 25m resolution, from the data cube will be published	Any jurisdictional data available under CC-BY licence as a web service may be integrated into the foundation datasets	
Delivery • Data delivery will be available as web services and also through high performance computing platforms. • All products will be easy to find and available for dissemination.	Existing land cover datasets and products available via web services.		National land cover products will be available for visualisation and download under open licensing	
Policy • Agreement will be reached with private providers of products on what constitutes “foundation” datasets (and therefore available under minimum restrictive licensing) and what may remain under commercial arrangements. Access to existing data held by private companies will be enhanced by either purchase of IP or negotiation of open licensing. • Agreement will be reached on the best-available resolution for a national imagery product available under open data licensing		Agreement with private providers – minimal restriction on dataset use		
Engagement • Continuing and expanded engagement with stakeholders to establish use cases and discuss potential roles in the governance of foundation datasets. These include engagement with agencies involved in developing policies such as drought mitigation, food security, biosecurity, agricultural management, environmental degradation, natural resource investment, climate adaptation, land accounting, transport and hazard mitigation. • Demonstrate the need for investment in securing access to critical earth observation data for land cover applications. • Existing reference groups will be utilised to provide input into foundation dataset development	Reference groups established and linked with the FSDF	Needs for national land cover products established, taking into account what ‘the market wants’ and what it is willing to fund	Reference groups continue to supply updated user requirements and visions for longer-term foundation dataset development	

Sponsor:

ICSM
INTERGOVERNMENTAL COMMITTEE ON SURVEYING & MAPPING

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