



FSDF Imagery 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

2015

Goals
2016

2017

Future Status

	2015	2016	2017	Future Status	
Quality	<ul style="list-style-type: none"> Urban areas will be covered by high- to very-high resolution imagery and be captured annually. Rural areas will be seamlessly updated on annual basis with medium-resolution imagery. Continental coverage with low resolution, high revisit imagery. Historic aerial photography and satellite imagery will be made available to allow for mapping change through time. Range of imagery will increase from new satellite constellations including Himawari (low resolution), Sentinel (medium resolution) and other hyperspectral sensors. 	<p>Data specifications will be published for available data</p>	<p>Needs for national products established, taking into account what 'the market wants' and what it is willing to fund</p> <p>Imagery from new spaceborne sensors becomes available.</p>	<p>Historic aerial photography will be georeferenced and made available</p>	<p>Imagery will continue to be collected at a range of resolutions and by a mix of government and industry suppliers.</p> <p>Earth observation datasets will be 'stacked' in time sequences covering the same area of ground, which will improve the ability of users to analyse changes in the landscape due to the effects of land degradation, flood damage, deforestation across time.</p> <p>The concept of this 'data cube' will be expanded from the current Landsat archive through to current and historic higher resolution imagery.</p>
Supply Chain	<ul style="list-style-type: none"> High performance computing will be used to build national products from the growing number of localised acquisition projects, from historic imagery, or from larger-coverage acquisition programs at a state level. Acquisition of very high-resolution imagery by government will utilise coordinated imagery programs managed by the states and territories. Imagery will support the maintenance and quality needs of other foundation spatial datasets. 	<p>Dependencies on other datasets will be documented</p>	<p>Any jurisdictional data available under CC-BY licence as a web service may be integrated into the foundation datasets</p> <p>Imagery from new spaceborne sensors ingested into data cube.</p>	<p>National information products will commence having near real-time currency</p> <p>Historic aerial photography will be ingested into the supply chain, subject to funding and availability arrangements</p>	
Delivery	<ul style="list-style-type: none"> Data delivery will be available as web services and also through high performance computing platforms. All products will be discoverable and those released under CC BY will be available for dissemination. 		<p>Nationally consistent datasets will be available for visualisation and download under open licencing</p>		
Policy	<ul style="list-style-type: none"> 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 		<p>Agreement with private providers – minimal restriction on dataset use</p>	<p>Wider accessibility to data held by various stakeholders</p>	
Engagement	<ul style="list-style-type: none"> Continuing and expanded engagement with stakeholders to establish use cases and discuss potential roles in the governance of foundation datasets. Demonstrate the need for investment in securing access to critical earth observation data. Existing reference groups will provide input into foundation dataset development – e.g., the <i>Australian Government Earth Observations from Space</i> working group, and existing imagery working groups in other jurisdictions 	<p>Reference groups established and lined with the FSDF</p>		<p>Reference groups continue to supply updated user requirements and visions for longer-term foundation dataset development</p>	



Version 0.4 dated 13 Oct 2014