

NSW Foundation Spatial Data Framework Data Custodian Records



The following spatial theme profile is the formal custodian arrangements for whole of government foundation spatial data.

Imagery theme

Theme profile



Images depict samples of airborne imagery over Bathurst, NSW (left) at 10cm in RGB and CIR (Left) © Spatial Services 2018

Name	Imagery
Description	<p>Imagery is the product created from the use of airborne, space borne or terrestrial sensors. These technologies image the surface of the Earth to allow for the visualisation of land surface features.</p> <p>Imagery includes data sourced from satellite, aircraft and vehicle mounted sensors. These technologies have a range of capabilities that includes but is not limited to, the ability to record multispectral and hyperspectral data and produce products such as orthorectified mosaics and stereo-viewable imagery.</p>
Datasets	<p>Standard Aerial Imagery Orthorectified Mosaics and Modules</p> <p>Standard Aerial Imagery Stereo Workspaces</p> <p>Town Aerial Imagery Orthorectified Mosaics and Modules</p> <p>Special Project Orthorectified Imagery</p>

<p>Purpose</p>	<p>Imagery provides an accurate representation of an area and its features for analysis and decision making purposes.</p> <p>These include:</p> <ul style="list-style-type: none"> • mapping • emergency services incident response • natural resource management • environmental management • geosciences • sustainable human and land use development.
<p>Status</p>	<p>Spatial Services is the source of truth for the Imagery data theme. Spatial Services currently operates an imagery capture program that supports Whole of Government outcomes. Priority is given to Emergency Services work and projects are undertaken for specialty or priority capture.</p> <p>Capture is undertaken at a resolution of 50cm across New South Wales, whilst 10cm resolution imagery capture is undertaken for regional townships. 10cm capture in the Sydney, Illawarra, Newcastle region is not currently a part of Spatial Services capture program as it is left to the open market for capture through contractors on an as-needed basis.</p> <p>The Imagery as a final product consists of an orthorectified imagery mosaic which is created as a result of imagery processing workflow consisting of; aerial-triangulation, colour balancing and the joining of overlapping image strips. These products are available either in a 4 band (BGRN) image mosaic consisting of the Blue, Green, Red, and Near infra-Red bands, or as a 3 band (RGB) image mosaic, which consists of the Red, Green and Blue bands. Historical aerial photography and second party imagery datasets are held and owned by Spatial Services including high, medium and low resolution aerial imagery and satellite imagery.</p>
<p>Future status</p>	<p>Spatial Services will be the reliable source of truth for this Foundation Theme, providing a complete, current and accurate coverage of NSW. The objective is to integrate the best available data and undertake continuous revision with suitable metadata for appropriate decisions.</p>
<p>Standards</p>	<p>Metadata for the relevant Spatial Services datasets are required to comply with AS/NZS ISO 19115-2 ANZLIC Metadata Profile v1.1, ISO 19115-2 and ISO 19139</p>
<p>Version</p>	<p>Version 0.7</p>