



Welcome to 'Spatial Insights', the first edition of DCS Spatial Services e-newsletter which will be sent out quarterly to keep you informed.

Our customers are at the heart of all our endeavours and we look forward to telling you about our latest developments and achievements. This edition coincides with the launch of a new map viewer, enhancements to the Spatial Collaboration Portal and our exciting new user-friendly Customer Hub that makes delivering our services and products to you faster.

We also explain how our whole-of-government addressing program has helped with COVID-19 border permits and so much more.

From the Executive Director Spatial Services, Bruce Thompson



Welcome to the first edition of our new Spatial Insights newsletter. We'll keep you informed about new products and services, and of changes and upgrades to existing services. And we hope to have your feedback, so we can progressively shape our services to meet

your needs. As a first edition, it's a bit of a bumper crop – there's a range of new products and services to be delivered, and some significant advances in GDA2020 implementation.

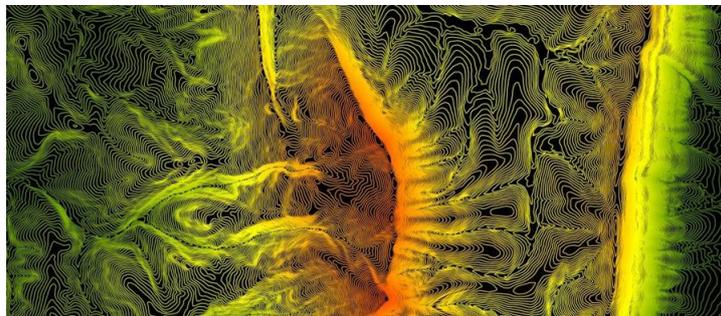
NSW Point, the real time address validation service is a great success story, geo-coding hundreds of thousands of addresses on the fly to support COVID related activities including the VIC border closure and the Dine & Discover NSW program.

Enjoy, and all feedback welcome.

#### NSW Elevation Data Service delivers two new datasets

Two new datasets; slope and aspect, are now available through the [Spatial Collaboration Portal \(SCP\)](https://portal.spatial.nsw.gov.au/portal/apps/sites/#/home)'s <https://portal.spatial.nsw.gov.au/portal/apps/sites/#/home> newest map viewer, the [NSW Elevation Data Service](https://portal.spatial.nsw.gov.au/portal/apps/webappviewer/index.html?id=437c0697e6524d8ebf10ad0d915bc219) <https://portal.spatial.nsw.gov.au/portal/apps/webappviewer/index.html?id=437c0697e6524d8ebf10ad0d915bc219>.

Derived from the NSW state-wide five-metre Digital Elevation Model (DEMs) these datasets will provide authoritative terrain data to support the development of industry standards in a variety of government, agriculture, research and industrial areas. Covering the western NSW region the five-metre slope is produced from a combination of one metre and two metre resolution LiDAR DEMs and five metre resolution photogrammetric DEMs. The export function and web feature service within the SCP allow users to explore a variety of representations including slope, aspect and contours based on ground surface. For further information please visit the [user guide](https://portal.spatial.nsw.gov.au/portal/apps/Cascade/index.html?appid=d86c906d4c1e405cab8d88d3a51ac799) <https://portal.spatial.nsw.gov.au/portal/apps/Cascade/index.html?appid=d86c906d4c1e405cab8d88d3a51ac799> for this new service. Availability and scales of data vary by location.



Making slope and aspect data available through the Spatial Collaboration for download on demand is another exciting venture for Spatial Services. As a by-product of the five-metre state-wide Digital Elevation Model from the Surface Model Enhancement Project, two metre state-wide contours are now available via the [NSW Elevation Data Service](https://portal.spatial.nsw.gov.au/portal/apps/webappviewer/index.html?id=437c0697e6524d8ebf10ad0d915bc219).

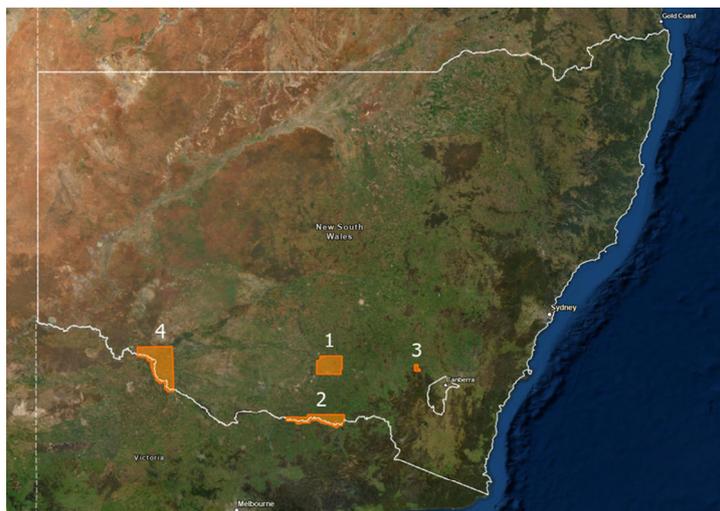
<https://portal.spatial.nsw.gov.au/portal/apps/webappviewer/index.html?id=437c0697e6524d8ebf10ad0d915bc219>. This is a huge achievement for Spatial Services and New South Wales will benefit from the availability of this seamless contour dataset available for users to download on demand as open data or to use as a webservice.

For additional information please access our [How to guides](#) <https://portal.spatial.nsw.gov.au/portal/apps/sites/#/home/pages/how-to-guides> to learn how to navigate the many functions that the Spatial Collaboration Portal has to offer.



Updates from Spatial Services			
Now available - LiDAR			
Extent	Coverage February and March 2021	Format	Access
1	440 tiles of new LiDAR data have been uploaded to the ELVIS Elevation Portal covering an area between Narrandera and Griffith in South West NSW.	These datasets are in GDA2020 and LAS version 1.4 format. The DEMs are in cloud optimised GeoTIFF format.	Data is available from the Geoscience ELVIS – Elevation and Depth Portal
2	414 tiles of new LiDAR data have been uploaded to the ELVIS Elevation Portal covering the Albury to Mulwala areas in Southern NSW.		
3	25 tiles of new LiDAR data have been uploaded to the ELVIS Elevation Portal covering an area to the west of Lake Burrnjuck.		
4	965 tiles of new LiDAR data have been uploaded to the ELVIS Elevation Portal covering the Balranald area in south western NSW.		

Find out more: <https://elevation.fsf.org.au/>



Now available - Orthorectified imagery			
Mosaic	File name	Resolution	Access
Mossgiel 1:100 000	mossgiel_2015_11_50cm Last date of capture: 16 December 2015	50cm GSD	This imagery will soon be available via our Spatial Map Viewer on our Spatial Collaboration Portal.
Cootamundra 1:100 000	Cootamundra_2017_02_50cm Last date of capture: 20 February 2017	50cm GSD	
Yetman	Yetman_2018_06_50cm	50cm GSD	

1:100 000	Last date of capture: 02 June 2018		
Cootamundra 10cm Town	Cootamundra_2017_02_10cm Last date of capture: 14 February 2017	10cm GSD	

For access to the imagery mosaics please contact our Service Delivery Team.

[SS-SDS@customerservice.nsw.gov.au](mailto:SS-SDS@customerservice.nsw.gov.au)



## Historical Imagery Viewer

Development of the Spatial Collaboration Portal (SCP) has enabled us to offer new and improved pathways to access a wide range of our data.

The portal provides a secure platform that delivers the NSW Foundation Spatial Data Framework collection to our customers on demand. Previously, access to our historical imagery was a manual process where users had to submit a request. We have streamlined this to a more user-friendly self-service supply which enables rapid delivery, reducing costs and time.

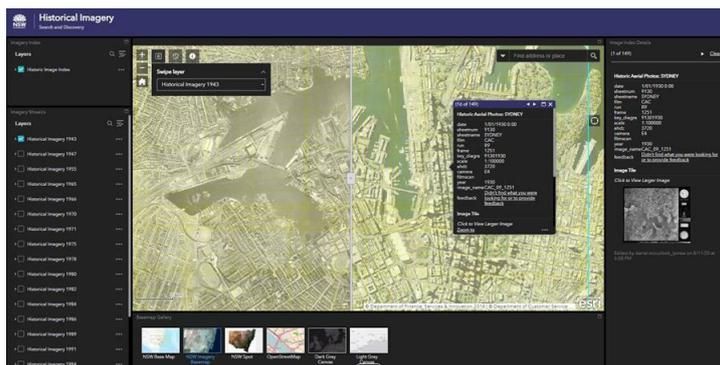
The self-service model enables users to search and discover our datasets in a secure and stable environment. A feature of the SCP, the Historical Imagery Viewer, now enables users to view and download 600 dpi images on demand, free of charge. Currently there are more than 600,000 frames which will increase upwards to over 1 million frames.





Users can also view the HAPE (Historical Aerial Photo Enhancement) Project Mosaics over the Sydney SIX area from 1943 – 2005. Higher resolution, 2000 dpi images still need to be requested via the Service Delivery team at [SS-SDS@customerservice.nsw.gov.au](mailto:SS-SDS@customerservice.nsw.gov.au).

This is an exciting new delivery platform of Spatial Services' data which will progressively improve as we move through development and testing stages.



Find out more: <https://portal.spatial.nsw.gov.au>

Real-time addressing validation slashes red tape in COVID-19 border closures

Spatial Services provides real-time address validation to NSW Government agencies through our NSW Point address services that are invaluable to live applications like the NSW/Vic border permits which were necessary during the COVID-19 border closures.

NSW Point address services put the customer first by providing predictive search functionality which enabled customers to quickly and accurately fill out their permit application addresses. This real-time functionality is underpinned by up-to-date datasets, direct API integration and account management support services.

In 2020 during the COVID-19 pandemic, Service NSW implemented NSW Point for real-time validation within NSW Border Permit Applications for entry from Victoria. In the NSW and Victorian Border Permit application form, NSW Point provided real-time validation of addresses entered by customers. The application determined if the user was able to submit a request for exemption to cross the NSW/Vic border, based on the user's input address which was verified during the application submission. During this period our services transacted over 23 million API calls for the entry applications and 5.7 million API calls to check the border zone eligibility.

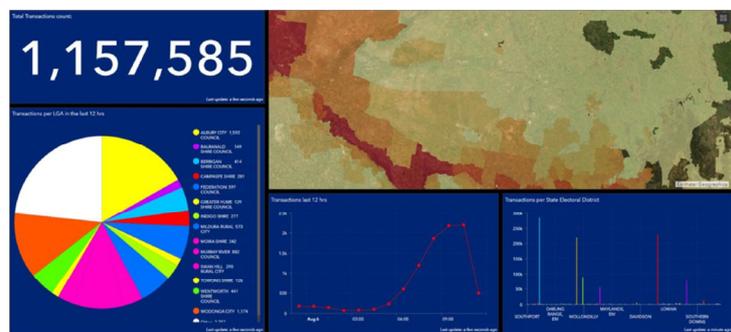
NSW Point was also used within the Border Permit's Address Checker application. The Address Checker application used certain outputs of NSW Point to match the address to the relevant suburb. This then provided information if the applicant could proceed with an application or if the address did not fall within the Border Zone Area.

Meanwhile, Spatial Services' Service Point application provided a visual dashboard of all border applications submitted to Service NSW. The deidentified information from each application was submitted in real-time to update the dashboard for the government's decision makers to use analytical data.

**NSW Point Predictive API**



**Example of a Service Point location based reporting dashboard**



New video explains process to identify Offensive Place Names

A place name is the most common way to identify your location or where you live, and how we apply names is important for many reasons including emergency services, economic development, preserving history and creating community.

Place names need to reflect community sensitivities, which can change over time. The subjective nature of the term “offensive” requires place names to be reviewed on an individual basis.

Spatial Services and the Geographical Names Board (GNB) have a statutory responsibility to establish, update, preserve and publicise place naming in New South Wales. The GNB strongly encourages members of the public who find a place name offensive, to start the discussion with their community.

For more information regarding the process of what to do if you find a place name offensive, please watch the following video:

[https://www.gnb.nsw.gov.au/\\_data/assets/video\\_file/0005/228488/GNB\\_Offensive\\_Names.mp](https://www.gnb.nsw.gov.au/_data/assets/video_file/0005/228488/GNB_Offensive_Names.mp)



Please visit the GNB website for further information <https://www.gnb.nsw.gov.au/>

GDA2020 updates in the pipeline

Spatial Services continues to work towards updating data and services to support GDA2020. In particular, we are currently upgrading Web Services (e.g. Map and Feature Servers, Imagery and Base Maps) and Incremental Feed services, to provide GDA2020-aligned datasets for use in your GDA2020 GIS environments and applications.

Release date(s) are not yet confirmed, but we anticipate providing these services from 01 July 2021. Existing web services will remain available, with GDA94 support explicitly extending to mid-2023.

The latest information on products and services is available from [https://www.spatial.nsw.gov.au/products\\_and\\_services/spatial\\_data](https://www.spatial.nsw.gov.au/products_and_services/spatial_data)

More information on GDA2020 is available from <https://www.spatial.nsw.gov.au/surveying/geodesy/gda2020>  
<https://www.icsm.gov.au/gda2020>



## Spatial Services set to launch new Customer Hub

Our customers will soon be directed to contact Spatial Services through our new, user-friendly Customer Hub.

The Customer Hub is designed to better facilitate, track, manage and streamline customer requests. Once a request is submitted through the Customer Hub, a ticket is raised, and customers will be able to monitor and track the status of their request as it is processed.

Access to the Customer Hub is free, however, users are required to create an account and individual user profile using a one-time username and password.

The new Customer Hub includes:

- A single platform for customers to make an enquiry, submit a data request and provide feedback.
- An improved user experience featuring a modern, user friendly interface.
- Real-time tracking where the status of any submission can be viewed.
- Enhanced security delivered through a robust and secure infrastructure.
- User support with a comprehensive guide and frequently asked question responses.

Spatial Services email [SS-SDS@customerservice.nsw.gov.au](mailto:SS-SDS@customerservice.nsw.gov.au) continues to be monitored,

however, we are directing customers to use the Customer Hub where possible.

Spatial Services is committed to providing excellent customer service and continuously looks for new and improved ways to engage and interact with our customers.



## Emergency mapping system transforms from hard drives to cloud

Spatial Services, Emergency Information Coordination Unit (EICU) is in the final stages of delivering a redevelopment of our Spatial Information and Mapping Systems (SIMS). SIMS is a frontline tool for emergency service responders that has previously been delivered via portable hard drive kits biannually.

As a frontline tool for emergency responders, it was very important that we were able to develop this new product to align with current technology as well as maintain and improve on how we provided this service to users.

Our development teams have worked hard to ensure that SIMS2 aligns with current technology and meets all our customers' needs.

SIMS2 is delivered through a cloud-based solution on the ESRI platform which provides a secure environment and enables self-service for our customers. This ensures all users across the emergency services sector will have easier access to the most current SIMS available.

## Spatial Services Rapid Response flood imagery now accessible as open data

Spatial Services has responded to the recent flood emergency across NSW by capturing and processing imagery of those areas most affected by last month's rain event.

Our team have played a critical role in supporting NSW's emergency services and communities. Imagery has been captured at a variety of resolutions including 12cm and 15cm over the heavily impacted areas of the Hawkesbury-Nepean and Lower Clarence.

All federal, state and local government agencies, as well as the general public can access the latest flood imagery as an API. If you wish to download the mosaics please contact Service Delivery at [SS-SDS@customerservice.nsw.gov.au](mailto:SS-SDS@customerservice.nsw.gov.au) for access.

There are two rapid response products available for use in a GIS environment, including a colour-infrared (CIR) and a 3-band colour mosaic image. The CIR or NRG mosaics consist of the NIR, red and green band combination and can be referred to as False-colour Infrared imagery. This band combination is useful for studying vegetation and the depiction of water.

Please see below information on how to access these products as an API via the Spatial Collaboration Portal:

### ***Floods\_2021 (Colour Mosaics)***

Available here:

[https://portal.spatial.nsw.gov.au/server/rest/services/Floods\\_2021/MapServer](https://portal.spatial.nsw.gov.au/server/rest/services/Floods_2021/MapServer)

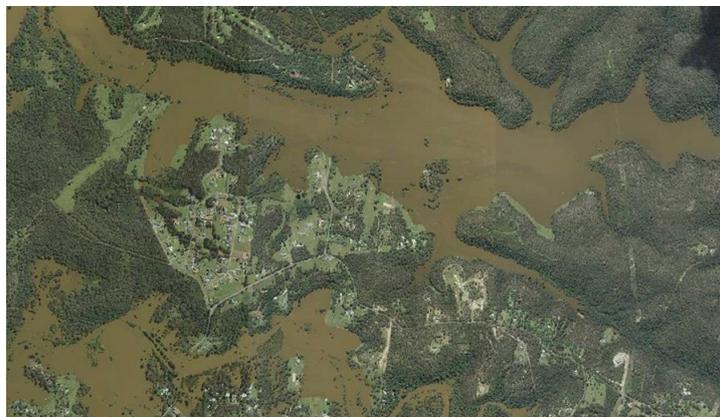
### ***Floods\_CIR\_2021 (NIR)***

Available here:

[https://portal.spatial.nsw.gov.au/server/rest/services/Floods\\_CIR\\_2021/MapServer](https://portal.spatial.nsw.gov.au/server/rest/services/Floods_CIR_2021/MapServer)

*For best results, follow the links provided and select an appropriate option from the 'View In' section*

<b>Floods_2021 (MapServer)</b>
<b>View In:</b> <a href="#">ArcGIS JavaScript</a> <a href="#">ArcGIS Online Map Viewer</a> <a href="#">ArcGIS Earth</a> <a href="#">ArcMap</a> <a href="#">ArcGIS Pro</a>
<b>View Footprint In:</b> <a href="#">ArcGIS Online Map Viewer</a>
<b>Service Description:</b>
<b>Map Name:</b> Floods_2021



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<https://www.spatial.nsw.gov.au/>

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