

# Service Delivery Mapped out 2021 – Wagga Wagga

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Spatial Services - Service Offerings



# 2019 - we received a new instruction to deliver

## Five strategic government priorities:

- 1 Strong economy, quality jobs
- 2 Highest quality education
- 3 Well-connected communities
- 4 Customer at the centre
- 5 Breaking the cycle of intergenerational disadvantage

## Two Premier's Priorities:



### Premier's Priority: Government Made Easy

Increase the number of government services where the citizens of NSW only need to "Tell us once" by 2023.



### Premier's Priority: World class public service

Implement best practice productivity and digital capability in the NSW public sector; and drive public sector diversity through.

# Digital initiative

## 1 Customer at the Centre

Driving a human-centred approach to everything we do. Designing for, and with, citizens, employees, and our industry partners.

## 2 Collaboration & Agility

Working together across clusters and agencies, being proactive, motivating others, and delivering outcome and value at speed.

## 3 Data, Decisions & Ethics

Understanding data and privacy, interpreting data through code, gaining insights to drive decision making, and telling stories about what we learn.

## 4 Ideas to Impact

Changing the way we get things done and fund projects. Using lean start-up methods to accelerate outcomes to our customers.

## 5 Enabling Technology

Prioritising the Industry 4.0 technology that will help us deliver better outcomes to our customers. Keeping up with, and practising, digital ways of working.

## 6 Digital Leadership

Digital ways of working and technology have the potential to advance the way government services are delivered.

# Our customer commitments are our north star

|  |   |  |   |   |   |
|--|---|--|---|---|---|
|     |    |   |    |                |                  |
| <b>Easy to engage</b>  | <b>Act with empathy</b>   | <b>Respect my time</b>   | <b>Explain what to expect</b>   | <b>Resolve the situation</b>  | <b>Engage the community</b>   |
| <p>Make it easy to access what I need</p> <p>Make it simple for me to understand</p> | <p>Show you understand my situation</p> <p>Treat me fairly and with respect</p> <p>Provide service in my time of need</p> | <p>Tell me what I need to know beforehand</p> <p>Minimise the need for me to repeat myself</p> <p>Make what I need to do straightforward</p> | <p>Be clear about what steps are involved</p> <p>Contact me when I need to know something</p> <p>Let me know what the outcomes could be</p> | <p>Be accountable for your actions</p> <p>Be clear in decision-making</p> <p>Reach an outcome</p> | <p>Listen to the community to understand our needs</p> <p>Ask us how we want services delivered</p> |



**8+ million  
Customers**

# Service Delivery structure



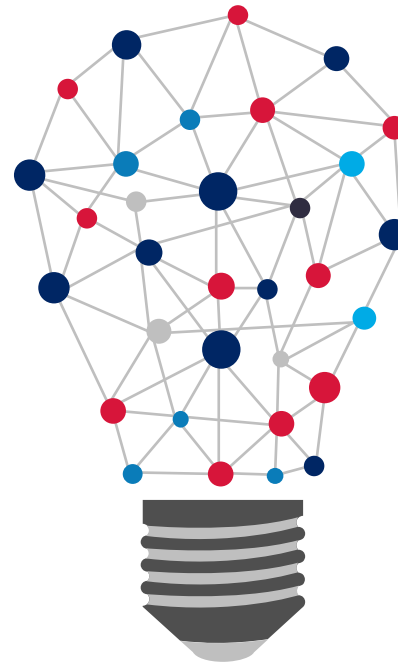
## Service Catalogue management

- Manage all aspects of service catalogue
- Integration of new services into portfolio
- Work with internal stakeholders



## Product development and innovation

- Develop concepts/ideas Industry trends analysis
- Recommendations and developing ideas for the improvement of existing deliverables



## Business intelligence

- Engagement and information gathering at all levels of government and industry
- Raw data analysis
- Driver of improved business decisions

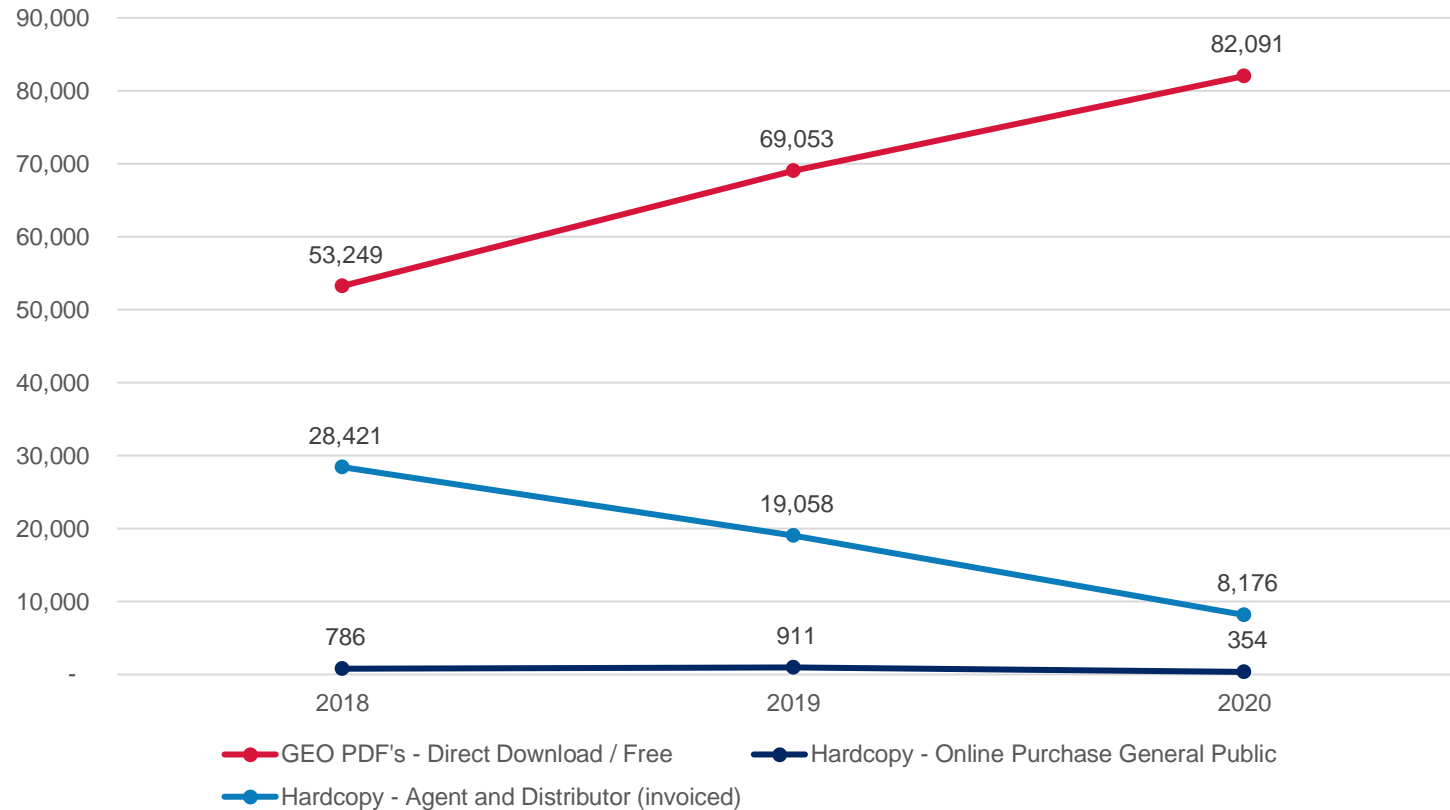


## Customer engagement, data and distribution

- Engagement with all levels of government, industry sectors and public
- Data supply and distribution
- Customer engagement

# Uptake on digital products

YoY demand for topographic maps



“

- The graph on the left shows increased PDF topographic maps downloads directly through SIX maps
- It also shows a decrease in hardcopy topographic maps

”

# Key GDA2020 messages

- **GDA2020** - Geocentric Datum of Australia 2020  
the first step to modernising the Australian Geospatial Reference System (AGRS)
- **Standards and software** are falling into place to support AGRS
- **DCS Spatial Collaboration Portal** now delivers GDA94 & GDA2020
- **DCS webservice and incremental feed** updates are expected mid-2021
- Beware “WGS 84”, “Web-Mercator” ... but changes to standards are helping  
**Prepare to encounter WGS 84  $\approx$  GDA2020**

**Metadata  
is Key!**



# Position in the palm of your hand...



**10 cm positioning**  
‘Anytime, Anywhere’  
(3 cm in mobile phone range)





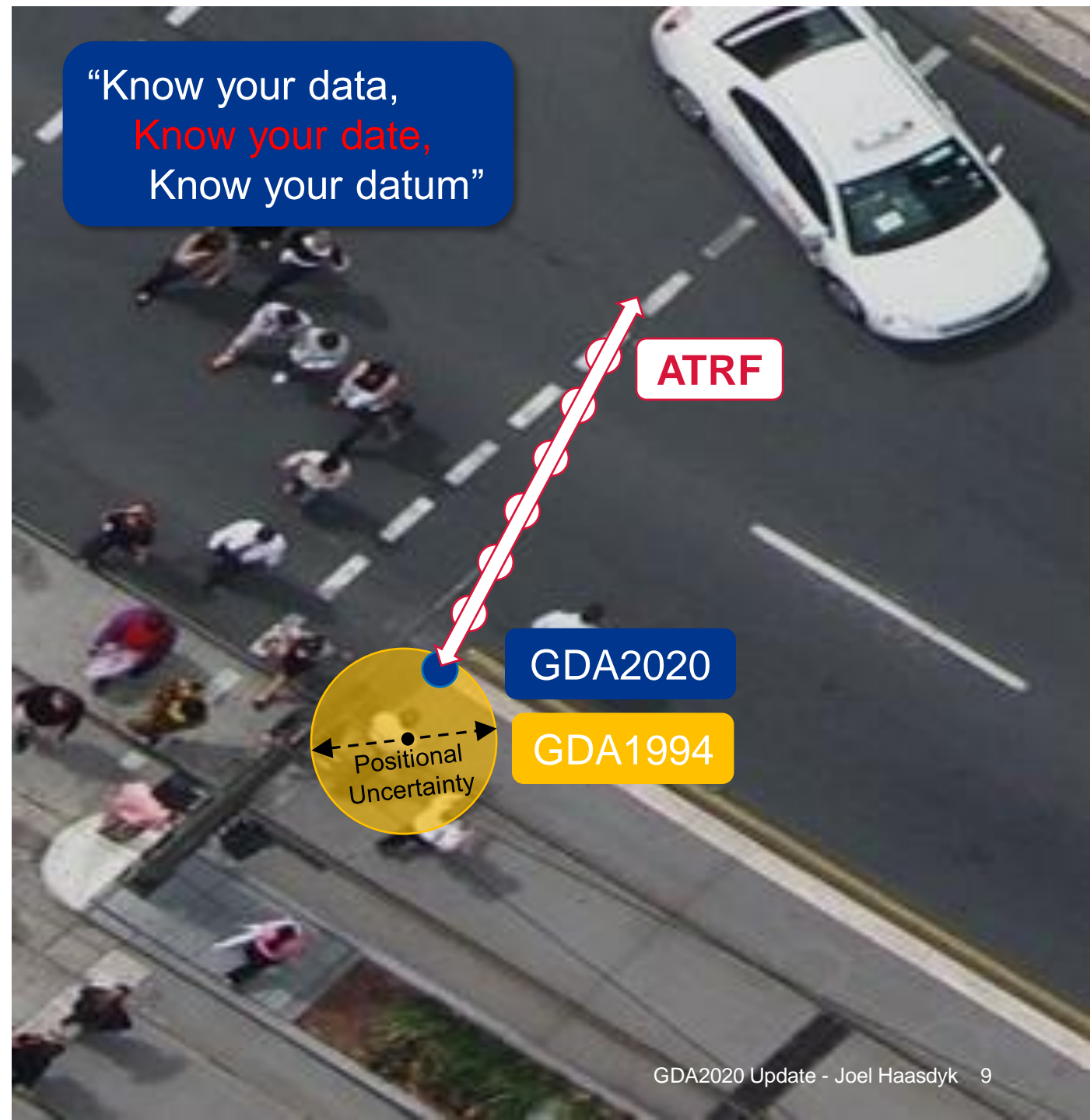
# GDA94, GDA2020 ... and ATRF

## Geocentric Datum of Australia 2020 (GDA2020)

- STATIC like GDA94
- ~1.5m NNE of GDA94
- Better precision

## Australian Terrestrial Reference Frame (ATRF)

- “Time-dependent”
- 7cm / year toward NE  
Australian Plate Motion Model + [deformation?]
- Future proofing



# Transforming from GDA94 to GDA2020

## Horizontal

- 7 Parameter Transformation (3D)  
‘Conformal only’ – preserves shape
- NTV2 Transformation Grids (2D)
  - 1) ‘Conformal only’ – preserves shape
  - 2) ‘Conformal and distortion’ (CPD) **used in NSW**

## Height

- No change to AHD71 heights
- ...but AHD-derived (from GNSS Ellipsoidal Height) requires new AUSGeoid model

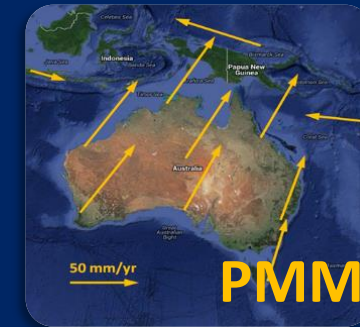
GDA94 + AUSGeoid09

GDA2020 + new AUSGeoid2020

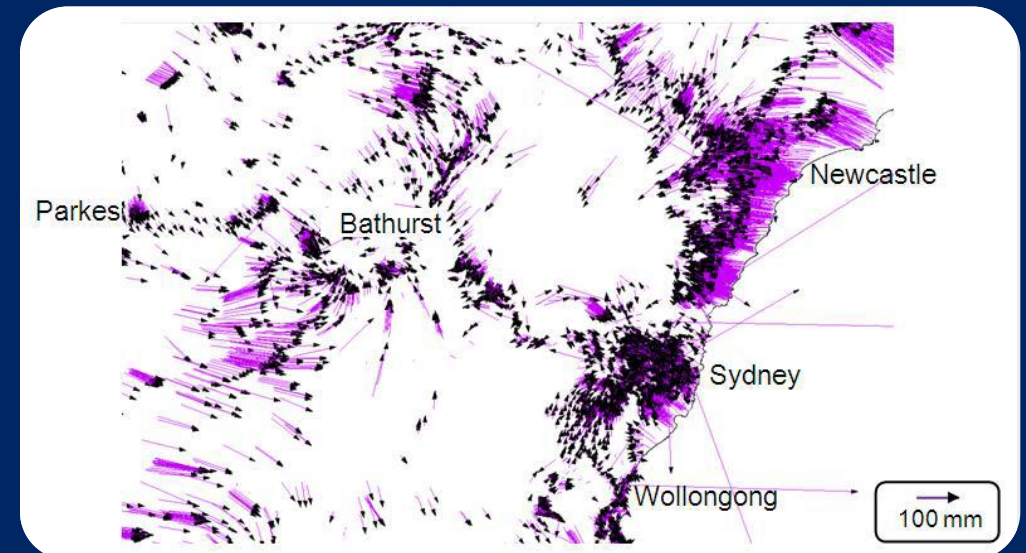
100 - 300mm  
improvement



GDA94  
ITRF1992 @ 1994.0



GDA2020  
ITRF2014 @ 2020.0



# Standards Updates (largely to support ATRF, WGS84 issues)

## ANZLIC

- [‘Preparing Metadata for GDA2020 and the AGRS’](#) includes examples (May 2020)

## GMIWG

- [‘Advisory on WGS 84 and Web Mapping’](#) (June 2020)

## ISO updates for Dynamic Datum

- ISO19111: Spatial Referencing by Coordinates (2019)
- ISO19115-1: Metadata (Published Dec 2020)
- ISO19115-3: Metadata as XML (in draft, expect Dec 2022)
- ISO6709: Geographic point location by coordinates (in revision, expect Dec 2021)

## EPSG updates

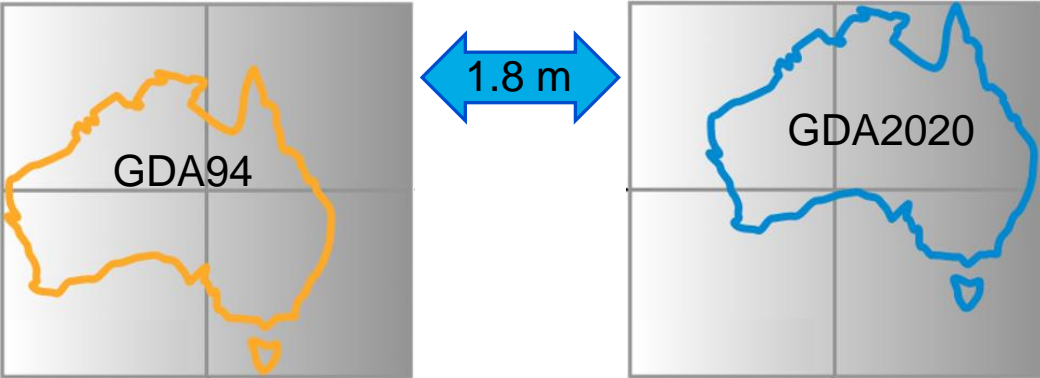
### (Coordinate Reference System codes)

- WGS84 = low accuracy (2m) static ensemble
- GDAXX <non-NULL Tf> WGS 84 ensemble (published Jan 2021)
- ATRF (Aug 2020)
- AVWS height (Aug 2020; updated Jan 2021)
- Compound Horizontal + Height [2D + 1D] (published Jan 2021)

## OGC (Open Geospatial Consortium) updates

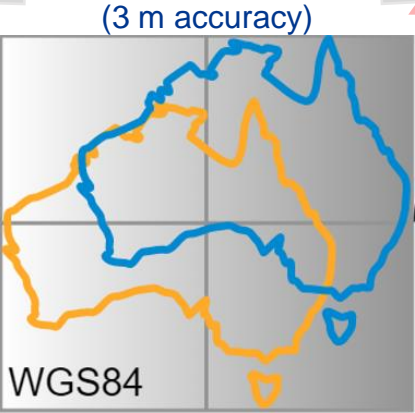
- Updates needed for WMS / WMTS, GML, KML, GeoJSON, etc
- [OGC APIs](#) – Features, now support any CRS] (released Feb 2020)
- Deformation Grid and Exchange format(s) (Progressing well in 2020, Draft standards expected 2021)

# WGS84 / Web-Mercator: Misalignments



NULL

~~NULL~~ ESRI (WGS84)



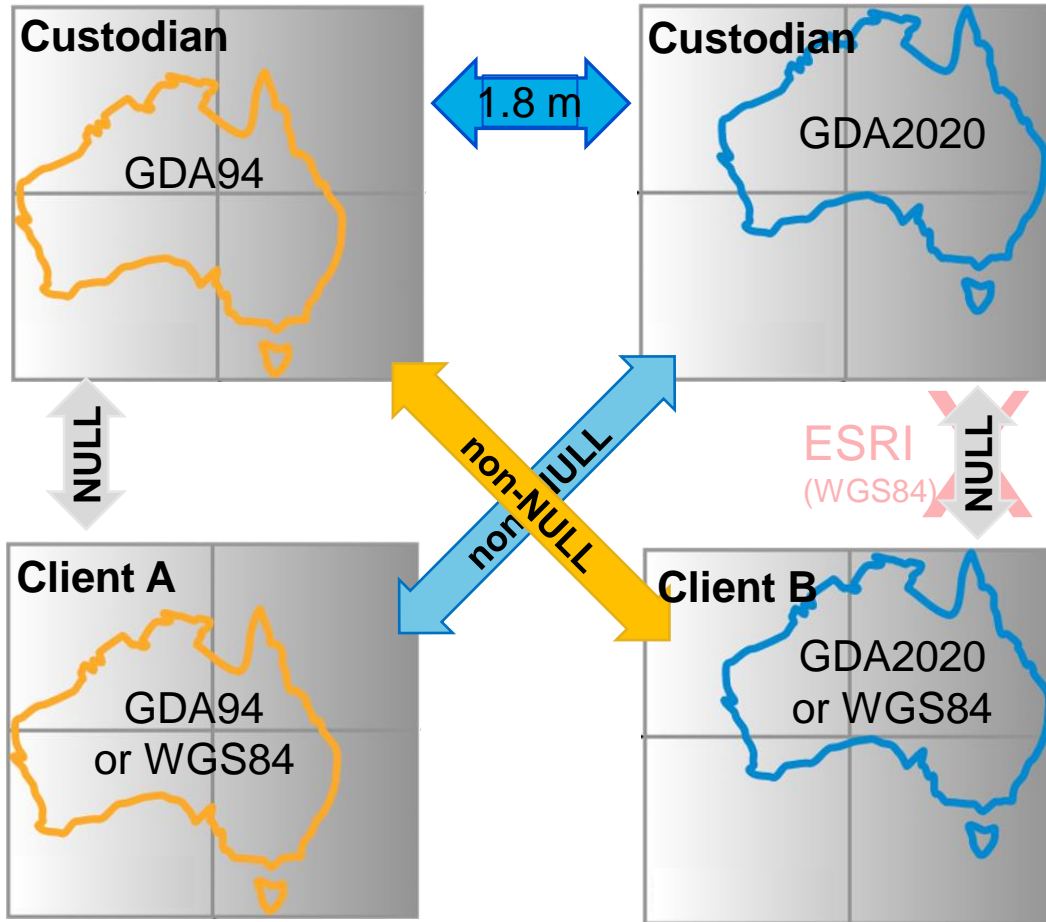
EPSG codes GDA94 <NULL> WSG 84

| EPSG Code | Name                  | Description | Accuracy |
|-----------|-----------------------|-------------|----------|
| 1150      | GDA94 to WGS 84 (1)   | Null Tf     | 3m       |
| 8450      | GDA2020 to WGS 84 (2) | Null Tf     | 3m       |

“Why are my maps out by 1.8 meters?”



# WGS84 / Web-Mercator: EPSG update (Jan 2021)



New EPSG codes for GDAXX <> WGS 84 (Jan 2021)  
To support user-choice, rather than custodian choice

| EPSG Code | Name                          | Description     | Accuracy |
|-----------|-------------------------------|-----------------|----------|
| 1150      | GDA94 to WGS 84 (1)           | Null Tf         | 3m       |
| 8450      | GDA2020 to WGS 84 (2)         | Null Tf         | 3m       |
| 9688      | GDA94 <7P Conformal> WGS 84   | Non-null Tf ... | 3m       |
| 9689      | GDA94 <NTv2-CPD> WGS 84       | Non-null Tf ... | 3m       |
| 9690      | GDA2020 <7P Conformal> WGS 84 | Non-null Tf ... | 3m       |
| 9691      | GDA2020 <NTv2-CPD> WGS 84     | Non-null Tf ... | 3m       |

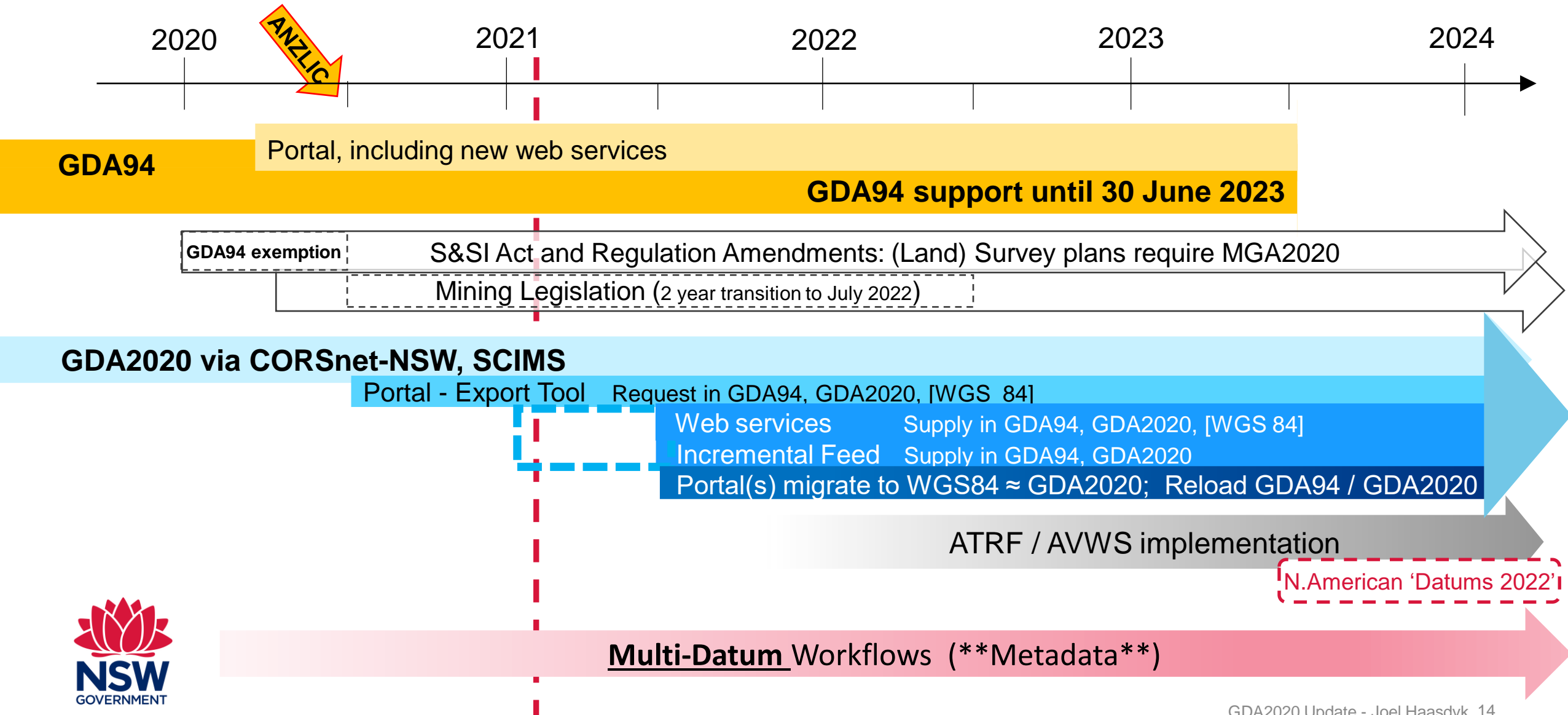
- Recommend:
- Adopt all EPSG codes for GDAXX <> WGS84
  - Make available for users in all workflows
  - Record lineage
  - Adopt WGS84 = GDA2020

- e.g. ESRI will adopt new EPSG from:
- ArcGIS Pro 2.9 from March / April 2021
  - Enterprise 10.9.1 from Nov / Dec 2021

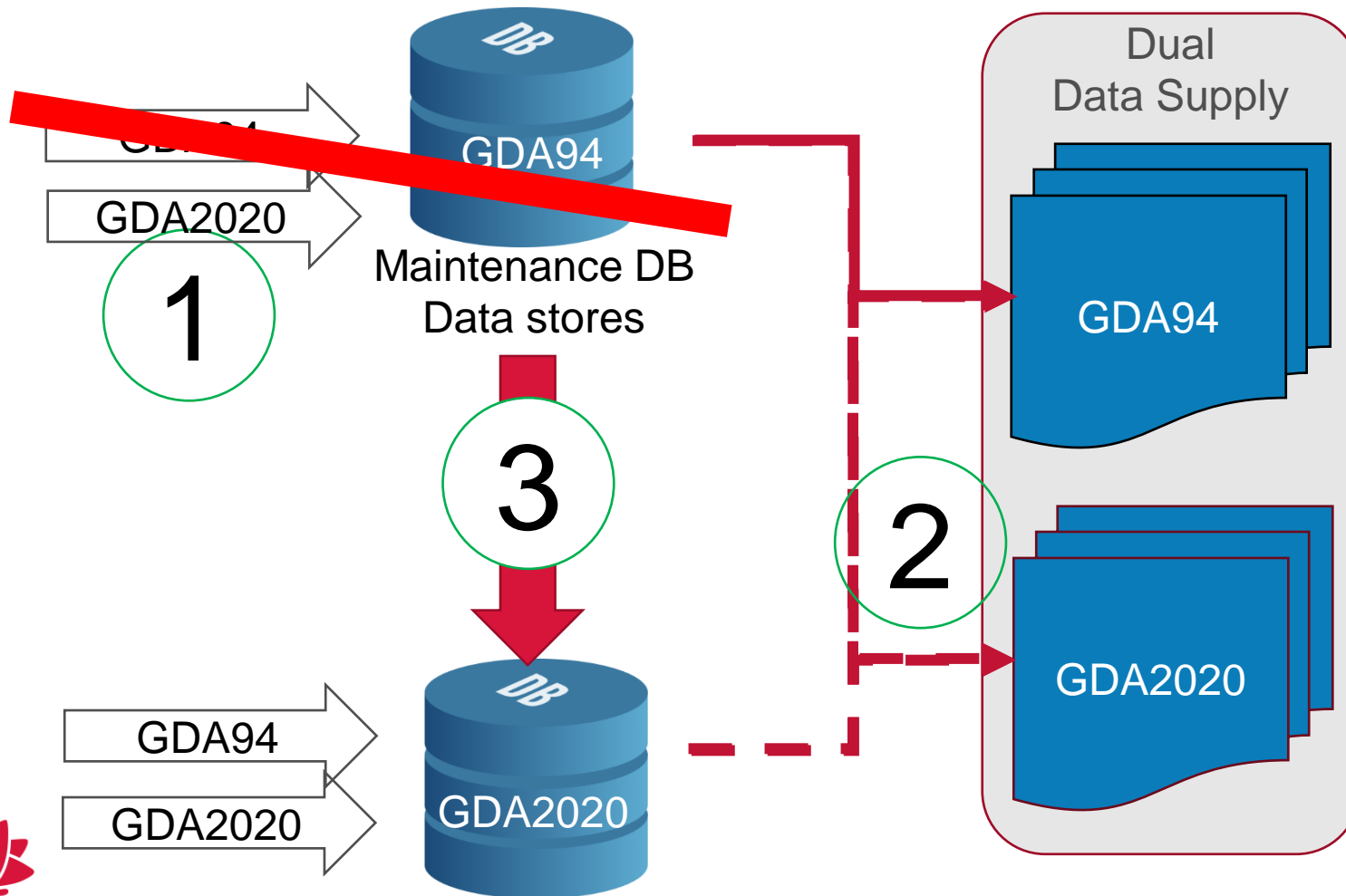
In NSW you will choose:  
GDA94 < NTv2-CPD > WGS84  
~~GDA94 < 7P > WGS84~~



# GDA2020 Timeline (at Jan 2021, Spatial Services DCS; Dates are approximate)



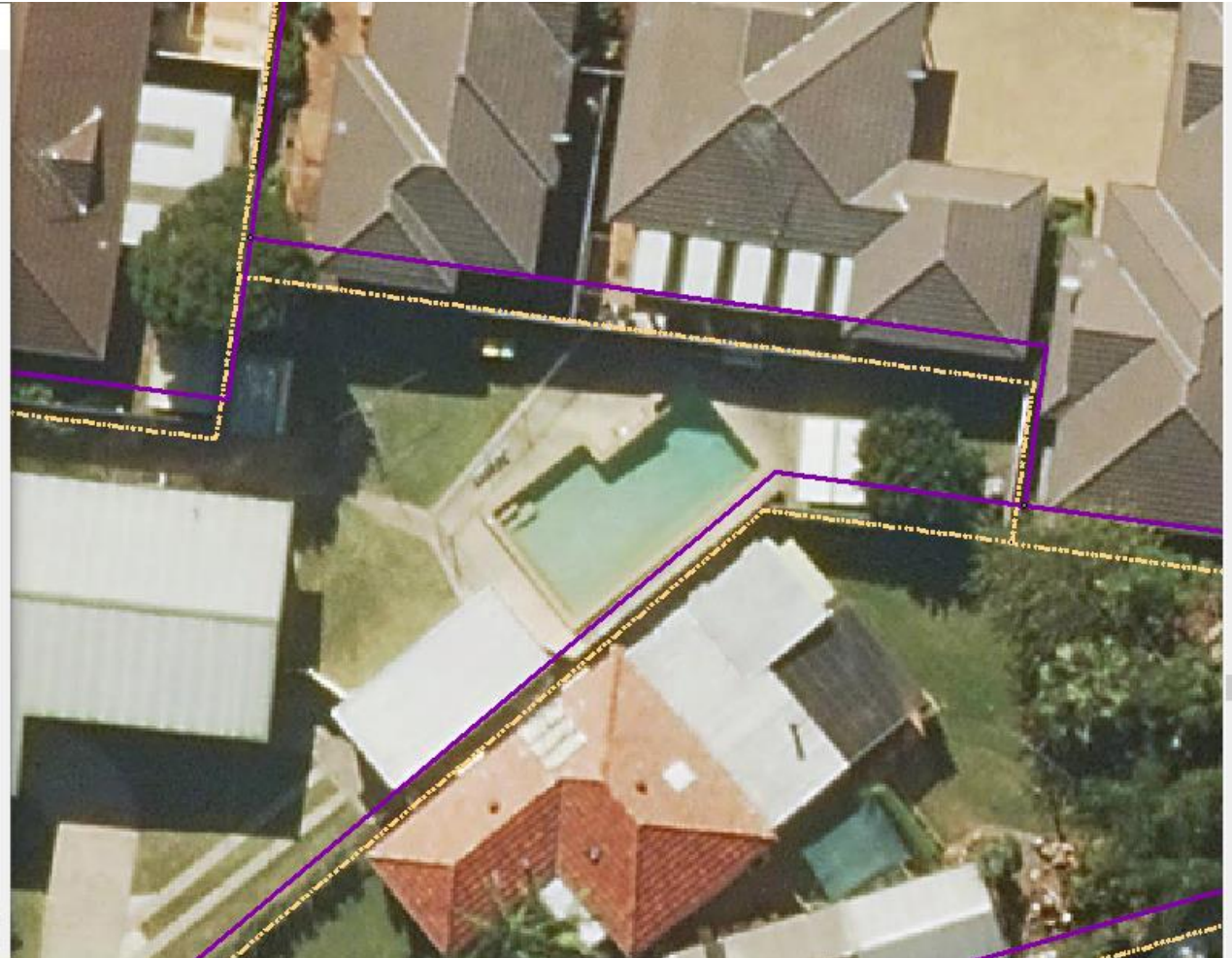
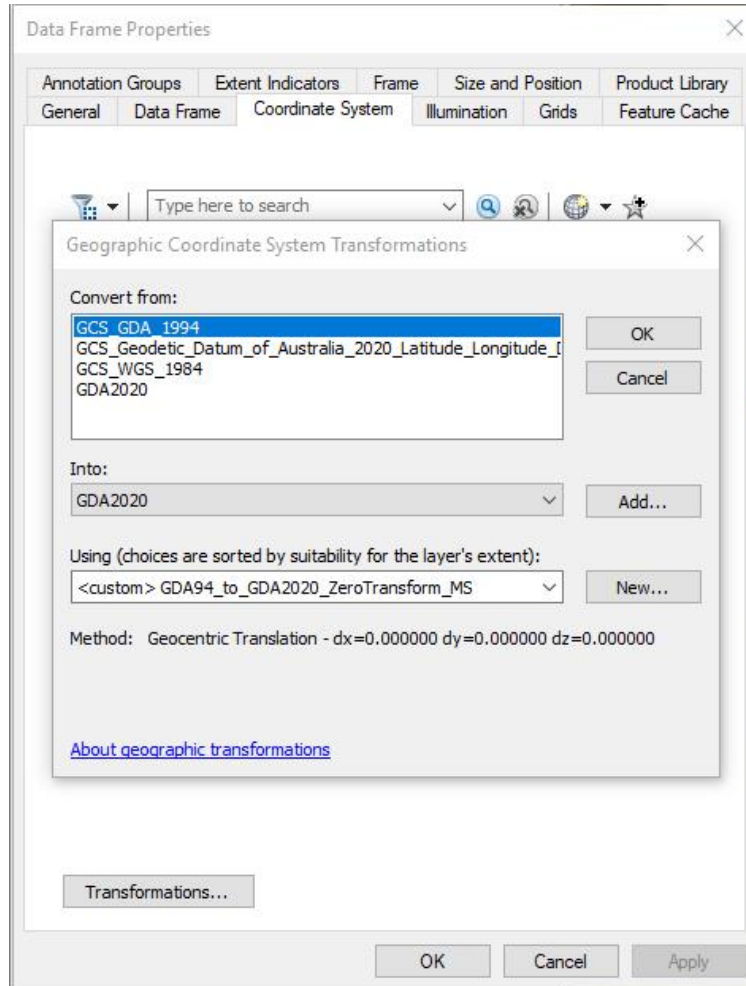
# Recommended path to create GDA2020 workflows



## Recommended path to prepare for GDA2020

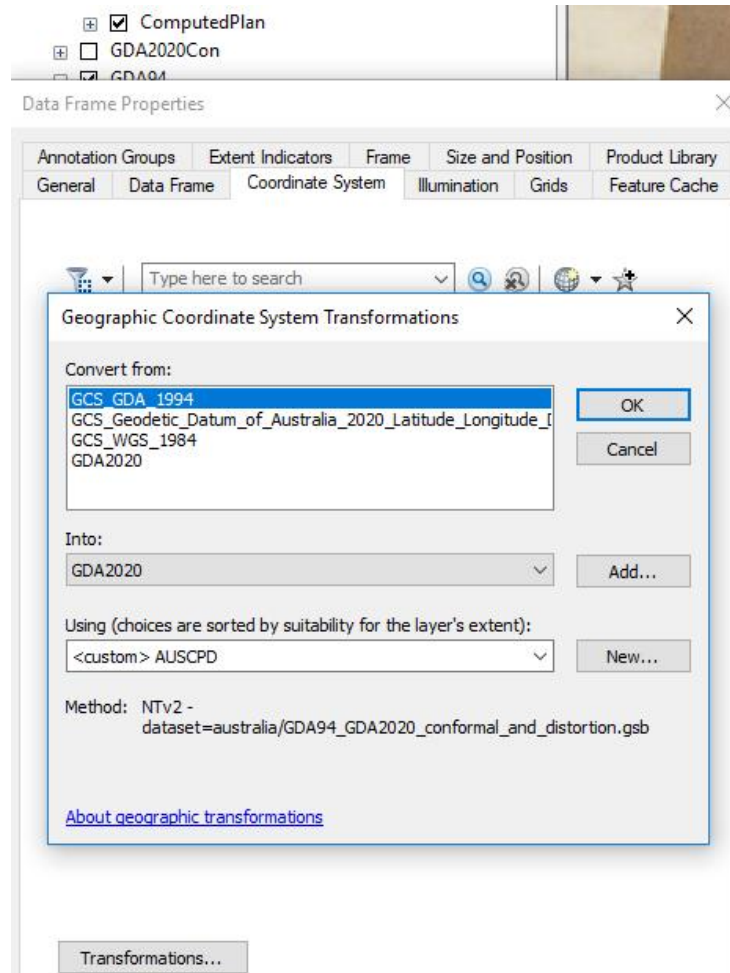
- 1) **Receive GDA2020 data (and GDA94)**  
Retain GDA94 workflow  
Store incoming data, as supplied
- 2) **Deliver GDA2020 data (and GDA94)**  
...on demand
- 3) **and then, when prepared...**  
migrate GDA94 workflows and data to GDA2020 workflows.

# Transform On The Fly (client-side)





# Transform On The Fly (client-side)



# Questions? Comments!



- [GDA2020 Information Sheet](#) (Oct 2020)
- [GDA2020 Legislation amendments](#) (Oct 2020)
- [NSW GDA2020 and AGRS Implementation Policy](#) (Oct 2020)
  
- Webinar Series on the [Australian Geospatial Reference System](#) (GDA2020, ATRF, AVWS etc,)
- NSW DCS website on GDA2020 <https://www.spatial.nsw.gov.au/surveying/geodesy/gda2020>
- ICSM FAQs, Fact Sheets, Forum <https://www.icsm.gov.au/gda2020>
- Tools: <https://www.icsm.gov.au/datum/gda-transformation-products-and-tools/software-and-plugins>
- NTV2 Grids [https://github.com/icsm-au/transformation\\_grids](https://github.com/icsm-au/transformation_grids)
- Online Transformation service <http://positioning.fsdf.org.au/>
- Datum spreadsheet(s) <https://github.com/icsm-au/DatumSpreadsheets>
  
- Email to: [GDA2020@customerservice.nsw.gov.au](mailto:GDA2020@customerservice.nsw.gov.au)

# Need more information of what is available? GDA94 & GDA2020 products, Information sheets

[https://www.spatial.nsw.gov.au/products\\_and\\_services/spatial\\_data](https://www.spatial.nsw.gov.au/products_and_services/spatial_data)

Spatial Services data supply options GDA94 / GDA2020 (1 Jan 2021)

| Service Delivery Supply Mechanism  | Data File                            | GDA94 | GDA2020 |
|--|--------------------------------------|-------|---------|
| CORSnet-NSW<br>via <a href="#">Authorised Resellers</a>  | Precision Positioning                |       |         |
| SCIMS Online (registration information)<br>via <a href="#">SIX</a>   | Survey Control Information           |       |         |
| *The official source for SCIMS information   |                                      |       |         |
| SCIMS web services<br>via <a href="#">Spatial Collaboration Portal</a>   | SurveyMarkGDA94<br>SurveyMarkGDA2020 |       |         |
| *See more information <a href="#">online</a>   |                                      |       |         |
| Data Export Functions<br>via <a href="#">Spatial Collaboration Portal</a><br>Open data self-service<br><br>*See <a href="#">How To Guide</a><br><br>This function provides download capability of data to be stored in your own system.<br><br># Point Cloud and DEMS available from <a href="#">ELIVS</a> | NSW Imagery                          |       |         |
|  | NSW Administrative Boundaries        |       |         |
|  | NSW Elevation and Depth <sup>#</sup> |       |         |
|  | NSW Geocoded Addressing              |       |         |
|  | NSW Landcover <sup>2</sup>           |       |         |
|  | NSW Land Parcel Property             |       |         |
|  | NSW Place Names <sup>3</sup>         |       |         |
|  | NSW Positioning                      |       |         |
|  | NSW Transport                        |       |         |
|  | NSW Water                            |       |         |

<https://www.spatial.nsw.gov.au/surveying/geodesy/gda2020>

**Spatial Services GDA2020 Update**  
Information Sheet October 2020

**GDA2020 NSW Legislation Amendments**  
Information Sheet October 2020

To support the adoption of the [Geocentric Datum of Australia 2020 \(GDA2020\)](#), legislation governing surveying and spatial information in NSW has been updated. The Office of the Surveyor-General is also advising NSW Government on the modernisation and rationalisation of the relevant legislation under the control of several NSW Ministries.

**Amendments to the Surveying and Spatial Information Act and Regulation**

The [Surveying and Spatial Information Act 2002 \(NSW\)](#) and [Regulation 2017 \(NSW\)](#) (S&SI Act and Regulation) define the prescribed datum in NSW for the state control survey, state cadastre and surveys carried out for or on behalf of the Surveyor-General or a public authority. They also provide a mechanism for the Government to authorise the collection and distribution of other spatial information.

# Spatial Collaboration Portal – launched 24 February 2020

Search, share and manage spatial data

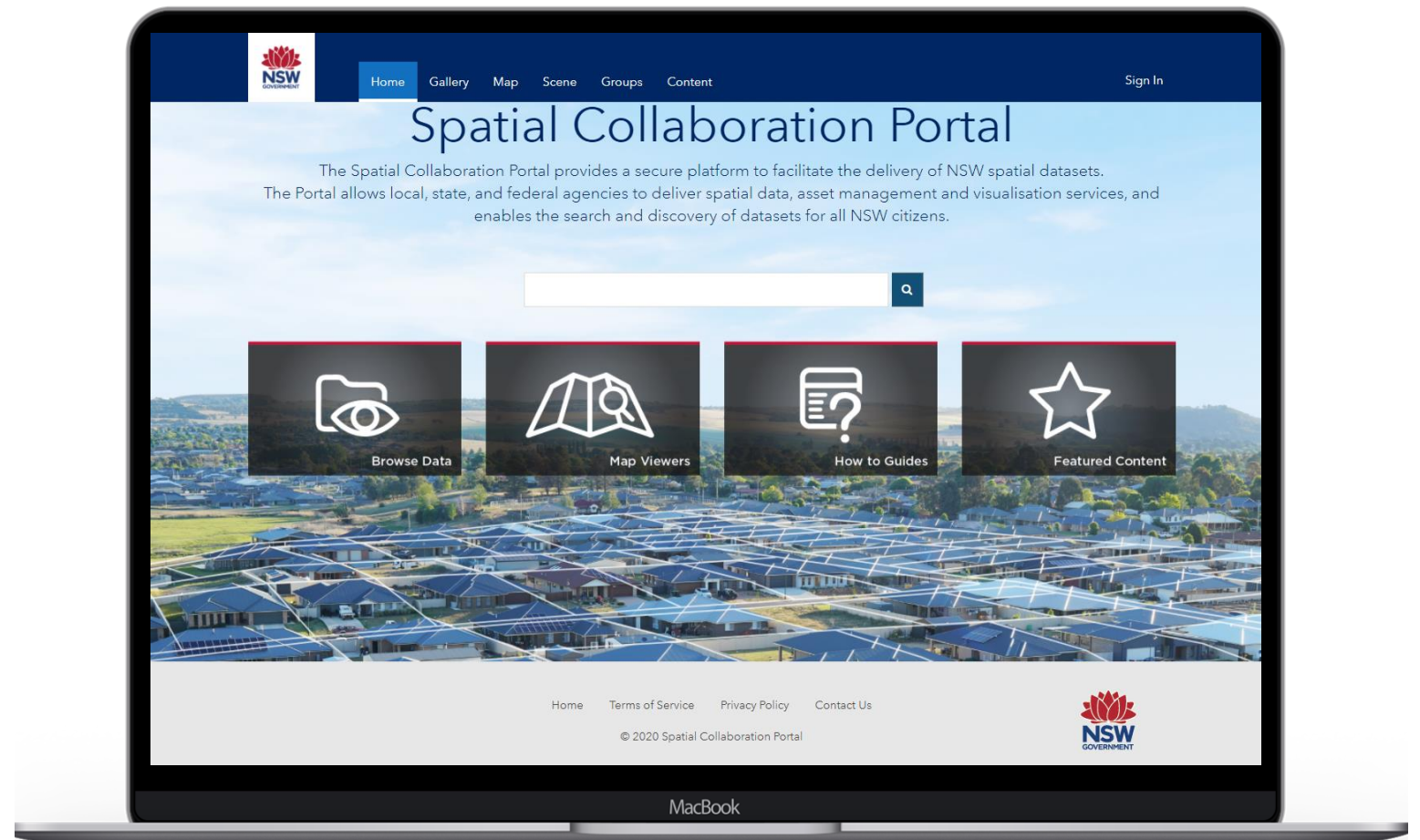
Access map viewers for data visualisation and analysis

Analytics available on data consumption and use

Enable open data discovery and access or share data with specific users or groups

Custodians manage access permissions to their data

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



# NSW Foundation Spatial Data Framework themes

## NSW Foundation Spatial Data Framework Data Themes

Spatial data is a critical component of the NSW economy and is relied upon heavily for regional issues associated with environmental management, the mitigation of natural disasters and economic growth. The NSW FSDP provides a common reference for the base and spatial (foundation) datasets that are essential for the contextualisation of information. Foundation spatial data is also a key enabler and requirement for innovation and digital service delivery. It is the delivery of state wide coverage of the best available, current, authoritative source of foundation spatial data which is standardised and quality controlled.



Administrative Boundaries



Elevation and Depth



Geocoded Addressing



Imagery



Land Cover



Land Parcel and Property



Place Names



Positioning



Transport



Water

## Additional Categories

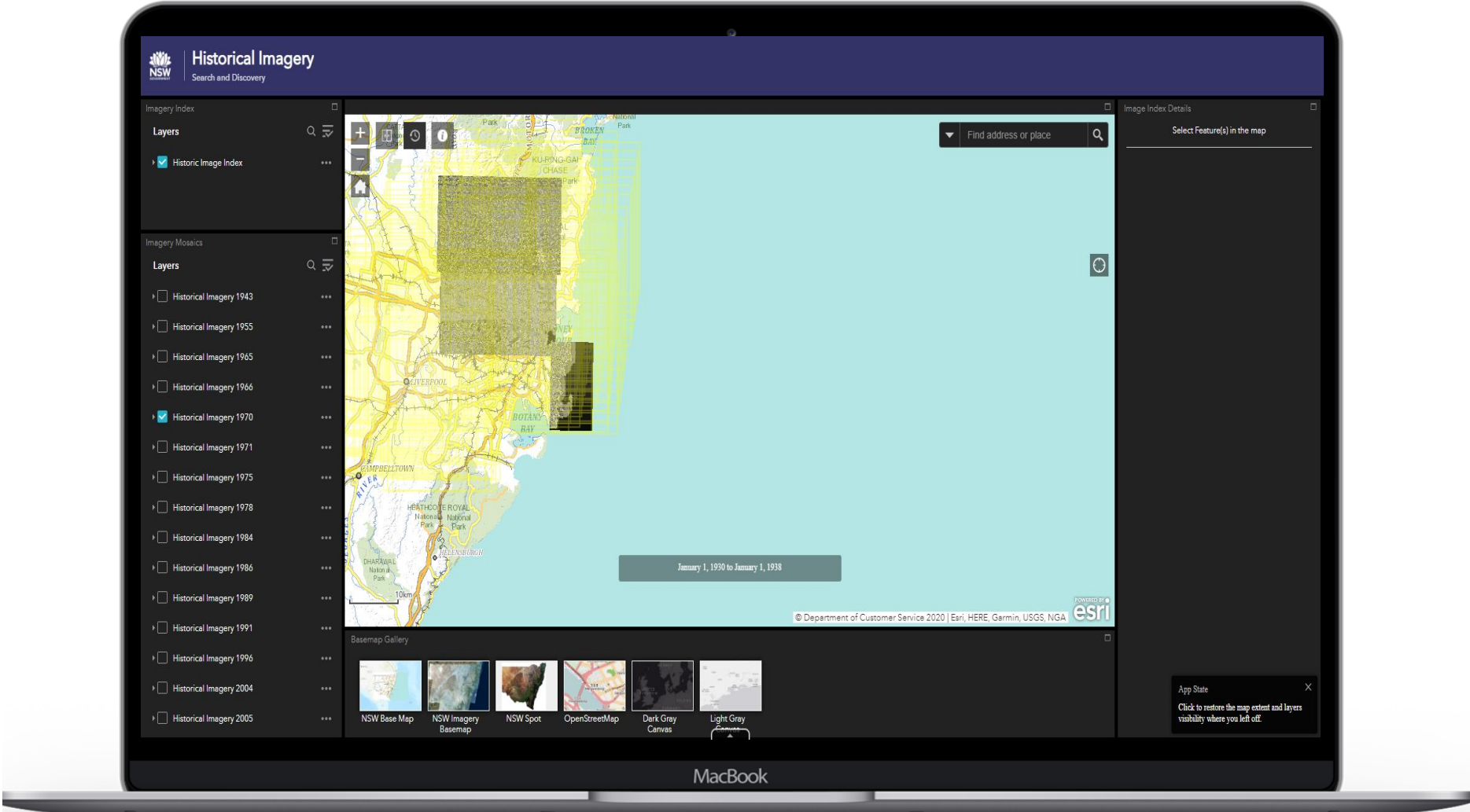


Physiography

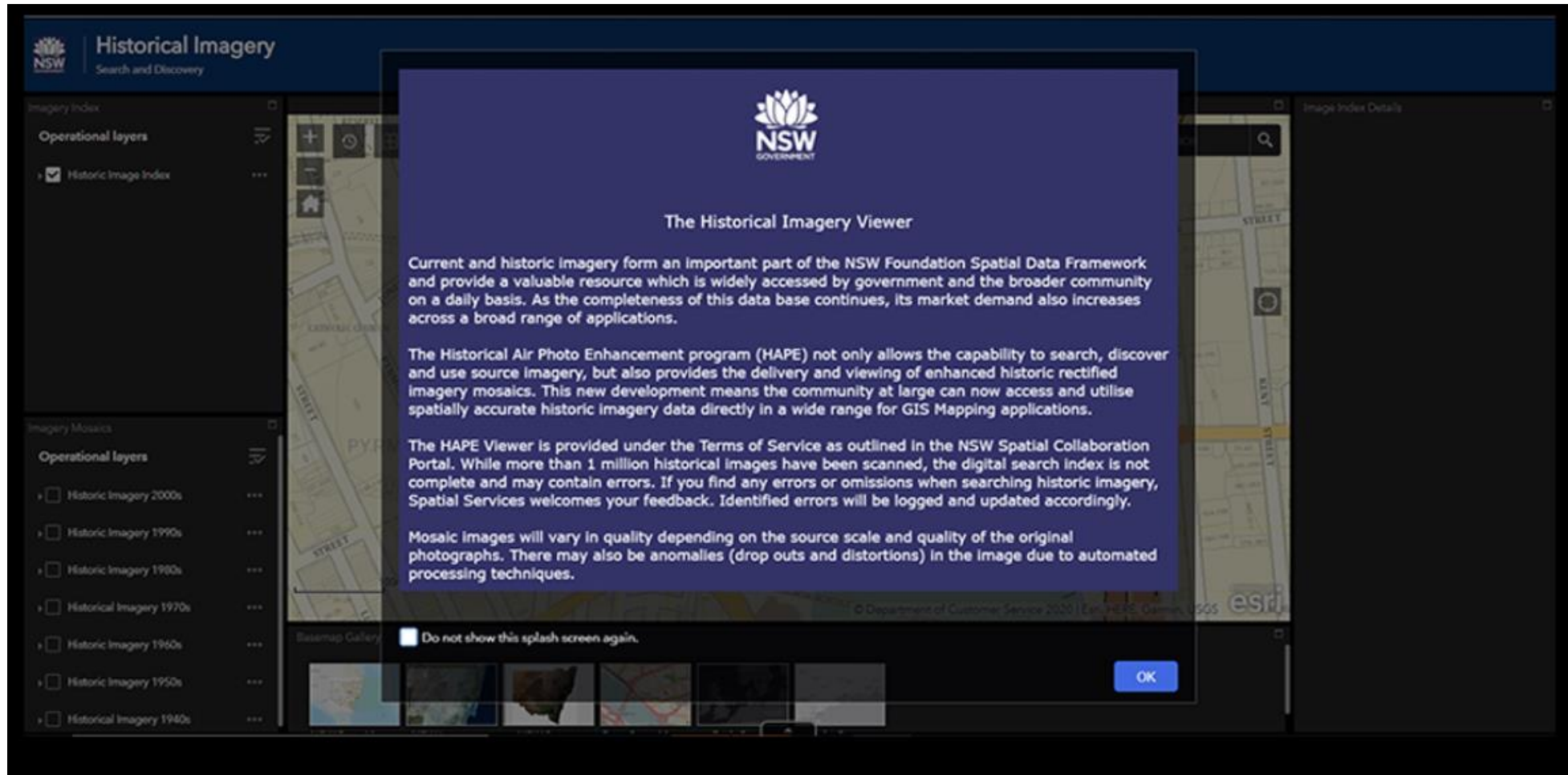


Features of Interest

# Historical Imagery Viewer



# Historical Imagery Viewer – User Guide

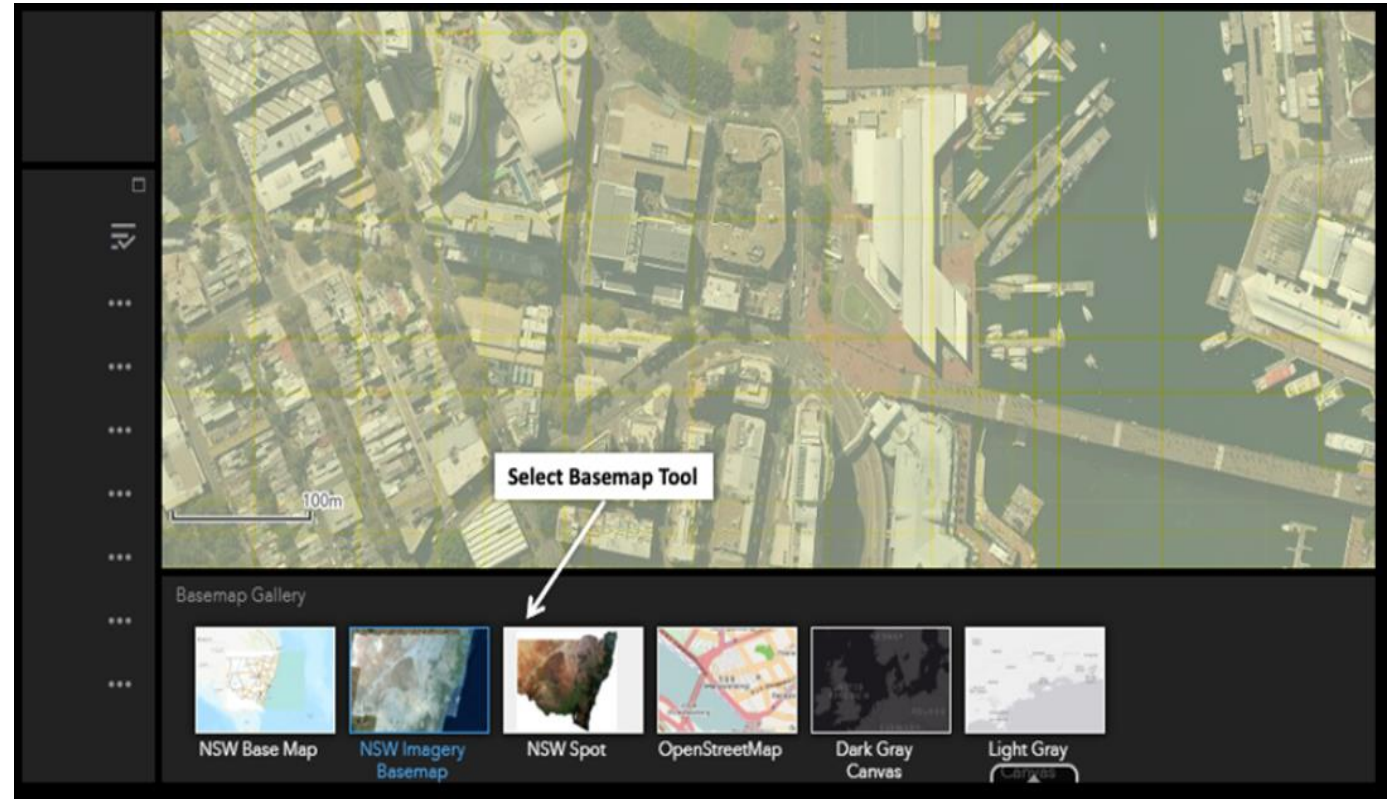
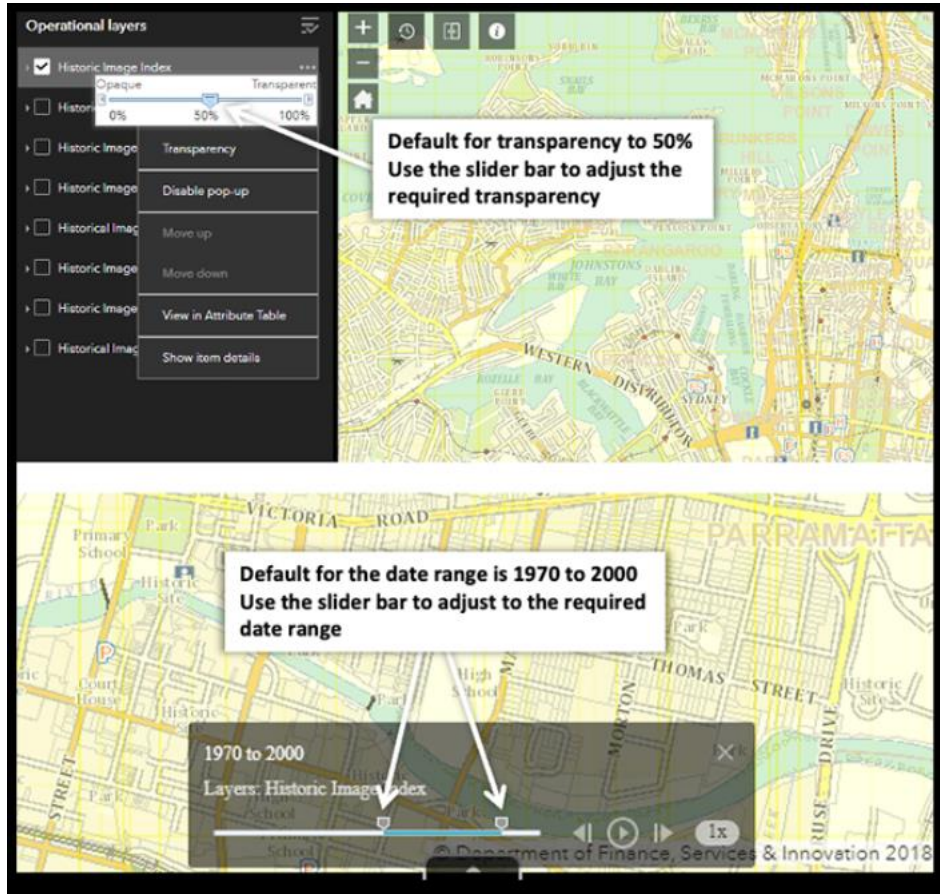


# Historical Imagery Viewer – User Guide

The screenshot displays the 'Historical Imagery' web application interface. The top navigation bar includes the NSW logo and the text 'Historical Imagery Search and Discovery'. The main content area is a map of a city street grid with a historical aerial photo overlay. A search bar at the top right contains the text 'Find address or place'. On the left side, there are two panels: 'Imagery Index' with a checked 'Historic Image Index' option, and 'Imagery Mosaics' with a list of decades from the 1940s to the 2000s. At the bottom, a 'Basemap Gallery' shows six map style thumbnails: NSW Base Map, NSW Imagery, NSW Spot, OpenStreetMap, Dark Gray, and Light Gray. A date range slider is positioned over the map, showing a range from 1980 to 2000. Various callout boxes with arrows point to specific UI features: 'HAP User Guide', 'Home', 'Swipe tool for comparing two image mosaics', 'Date Range Slider Bar ON/OFF', 'Search Tool by address or place', 'Image Index Details Panel', 'My Location', 'Search for Scanned Aerial Photos using Date Range Slider Bar', 'Select basemap tool', 'Historic Image Mosaics (Greater Sydney only) Selected by 10 year epochs', and 'Open, Scanned Image Index Attribute Table'.



# Historical Imagery Viewer – User Guide



# Historical Imagery Viewer – User Guide

The screenshot shows the Historical Imagery Viewer interface. On the left, there are panels for 'Historical Imagery Index' and 'Historical Imagery Missions'. The main area is a map with a search bar at the top right. A callout box over the map displays metadata for a photo. On the right, an 'Image Index Panel' shows a list of photos with a 'Next' arrow circled. A 'Basemap Gallery' is at the bottom.

**Note :- Search reveals a total of 54 photos discovered covering this address between 1970 to 2000**

**Image Index Panel. Click forward arrow to review each of the 54 discovered images**

**Metadata First photo discovered**

**Click on the image to get full screen view**

| Historic Aerial Photos: SYDNEY |                 |
|--------------------------------|-----------------|
| Date                           | 28/06/1961 8:00 |
| Altitude                       | 9130            |
| Altitude                       | SYDNEY          |
| Alt                            | 1050            |
| Path                           | R34             |
| Name                           | 3093            |
| Wgs_Origin                     | 9130/1961       |
| Scale                          | 1:10000         |
| Ends                           | 2800            |
| Camera                         | RC5             |
| Projection                     | RS              |
| Year                           | 1961            |
| Image Title                    |                 |
| Click to View Larger Image     |                 |

# Historical Imagery Viewer – User Guide



# Viewing and comparing historic imagery mosaics



# Spatial Collaboration Portal - View / Export / API access

## NSW Land Parcel Property Theme - Lot

Overview Data Visualization



NSW Land Parcel and Property Theme Lot is a polygon feature that represents a parcel of land created on a survey plan.

Feature Layer by ss-sds  
Created: Feb 26, 2020 Updated: Feb 26, 2020 View Count: 3,408

### Description

Export Data

NSW Land Parcel and Property Theme Lot is a polygon feature that defines a parcel of land created on a survey plan. Parcel polygons are defined by a series of boundary lines that store recorded dimensions as attributes in the lines table. It visualises these boundaries of land parcels, often buildings on land, the parcel identifier, and basic topographic features.

Open in Map Viewer

Open in Scene Viewer

Open in ArcGIS Desktop

### Details

Source: Feature Service  
Size: 1 KB  
★★★★★



### Credits (Attribution)

No acknowledgements.

### URL

View

<https://portal.spatial.nsw.gov.au/server/re>



# Export function – selecting a layer vs all layers



Land Parcel  
and Property

NSW\_Land\_Parcel\_Property\_Theme

Feature Layer by ss-sds

Created: May 13, 2020 Updated: Feb 11, 2021 View Count: 5,873

Description

Export Data



**Export content v2.0**

Your dataset contains multiple layers/tables. Typically, each layer in a dataset contains a different type of data, for example roads, rivers, property boundaries and local government areas.

Do you want to select which layers/tables to export?

No thanks. I want to export data from all layers/tables.

< Back to Portal Next >

**Export content v2.0**

Your dataset contains multiple layers/tables. Typically, each layer in a dataset contains a different type of data, for example roads, rivers, property boundaries and local government areas.

Do you want to select which layers/tables to export?

Yes

Please select which layers/tables you want to export:

Layers:

- WaterMark (3723 Features)
- RoadCentreline (562689 Features)
- WaterFeatureCorridor (21094 Features)
- WaterFeature (17981 Features)
- Unidentified (26627 Features)
- RoadCorridor (855326 Features)
- Road (1028073 Features)
- RailwayCorridor (4754 Features)
- Lot (3257331 Features)
- Easement (21707 Features)
- PropertyFragment (0 Features)
- AuthorityReference (41225 Features)
- Property (3989268 Features)

< Back to Portal Next >

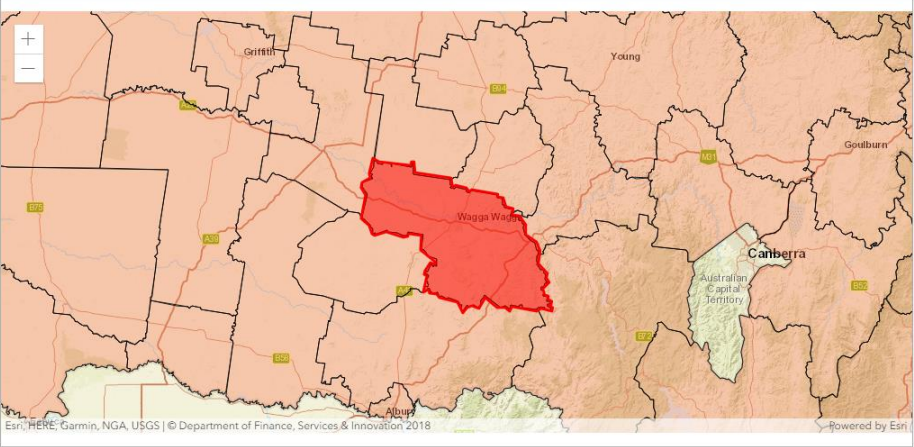
# Export function – Selecting an LGA from the dropdown

**Export content v2.0**

A polygon is a multipoint geometry defining a boundary on a map. If you specify a polygon for your export, only data within the polygon will be exported.

Do you want to specify a polygon? Yes, by selecting the LGA administrative polygon boundary on a map.

Select a LGA to specify as a polygon? WAGGA WAGGA



The number of features/records you will be exporting:  
Lot - 35526/3257331 features

The area 5138.067 sq km you have selected is larger than 3000 sq km. This may take a long time to extract. Please consider choosing a smaller area.

[Back](#) [Next >](#)

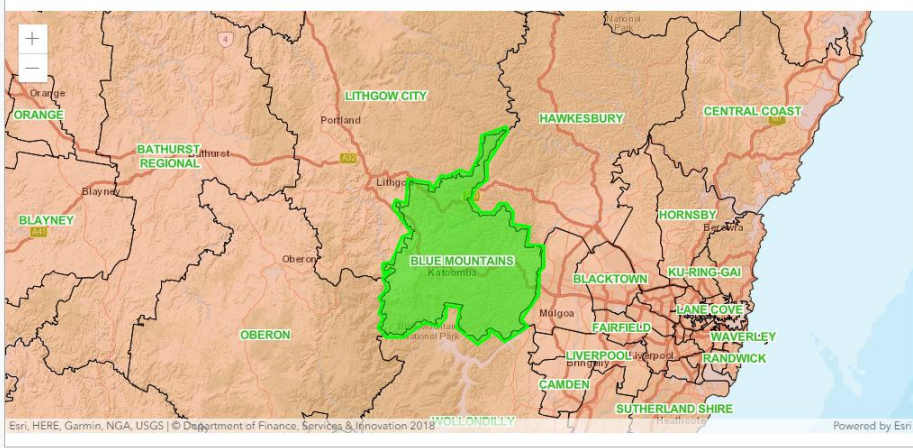


**Export content v2.0**

A polygon is a multipoint geometry defining a boundary on a map. If you specify a polygon for your export, only data within the polygon will be exported.

Do you want to specify a polygon? Yes, by selecting the LGA administrative polygon boundary on a map.

Select a LGA to specify as a polygon? BLUE MOUNTAINS



The number of features/records you will be exporting:  
Lot - 47106/3257331 features

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- If you select from the polygon or LGA which is larger than 3000 km<sup>2</sup>, it takes longer to process and **highlights in red** as a warning.
- Selecting less than 3000 km<sup>2</sup> **highlights in green** and processes the request much faster.
- Through export function we download vector data.

# Export function – selecting by entering latitude and longitude

**Export content v2.0**

A polygon is a multipoint geometry defining a boundary on a map. If you specify a polygon for your export, only data within the polygon will be exported.

Do you want to specify a polygon?

Yes, by entering the latitude and longitude of the polygon extent's boundaries. ▾

|                  |   |                  |  |
|------------------|---|------------------|--|
| Top Latitude:    | <input type="text" value="-35.05322867797767"/> |                  |  |
| Left Longitude:  | <input type="text" value="147.23867812861118"/> | Right Longitude: | <input type="text" value="147.5037232946269"/> |
| Bottom Latitude: | <input type="text" value="-35.17455218094975"/> |                  |  |

The number of features/records you will be exporting:

Lot - 26457/3257331 features

[< Back](#) [Next >](#)



# Export function – Choosing formats

**Export content v2.0**

Export format:  
Esri Geodatabase

Export datum:  
GDA94

Export coordinate system:  
Geographic

**File Formats descriptions and limitations**

**Esri Geodatabase .gdb**

An Esri geodatabase is a collection of geographic datasets of various types held in a common file system folder. Geodatabases come in many sizes, have varying numbers of users and can scale from small, single-user databases built on files up to larger workgroup, department, and enterprise geodatabases accessed by many users.

**Size Limitations**  
*File geodatabase has no size limitations, however the table or feature class will have a size limit of 1 TB (default).*

**Dataset approximations\* (full state extraction):**  
NSW Administrative Boundaries Theme - 400MB  
NSW Geocoded Address Theme - 22.3GB  
Features of Interest - 275MB  
Physiography - 80MB  
Transport - 713MB  
\*Guide only

Your email address:  
shalin.limbachia@customerservice.nsw.gov.au

We will send the notification email to this address.

Where DCS data is transformed for export:  
GDA94 ⇒ GDA2020 exports employ the 'NTV2 conformal and distortion' grid.  
WGS84 exports are not transformed. GDA94 ≈ WGS84 ≈ GDA2020 (at 3m accuracy).

< Back Export

Selecting the right output format is very important

## ► Export format

- ESRI shapefile
- ESRI Geodatabase
- Mapinfo
- CSV
- Excel
- GEOJSON – WGS 84 only
- Google KML – WGS 84 only

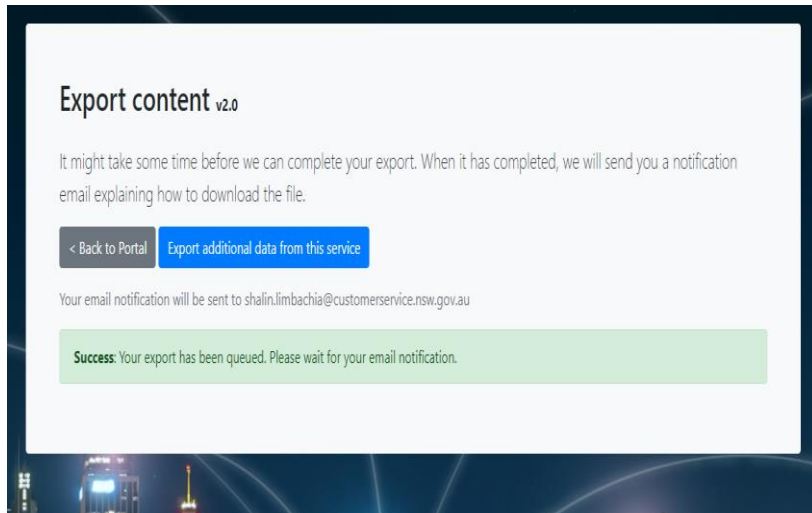
## ► Export datum

- GDA 94 or GDA 2020

## ► Export coordinate system

- MGA 54
- MGA 55
- MGA 56
- MGA 57
- MGA 58
- Geographic

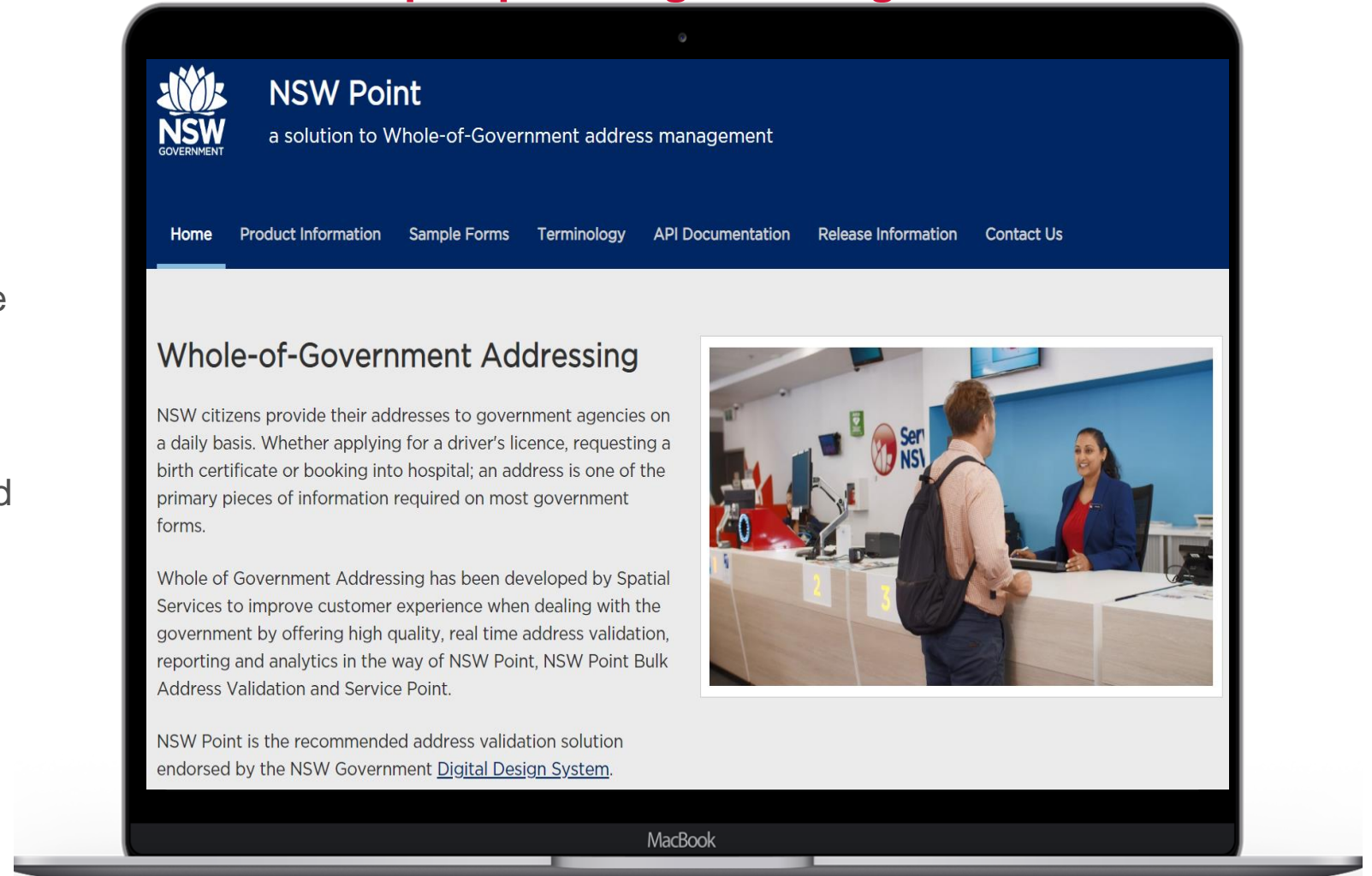
# Export function – final step



# NSW Point

<https://point.digital.nsw.gov.au/>

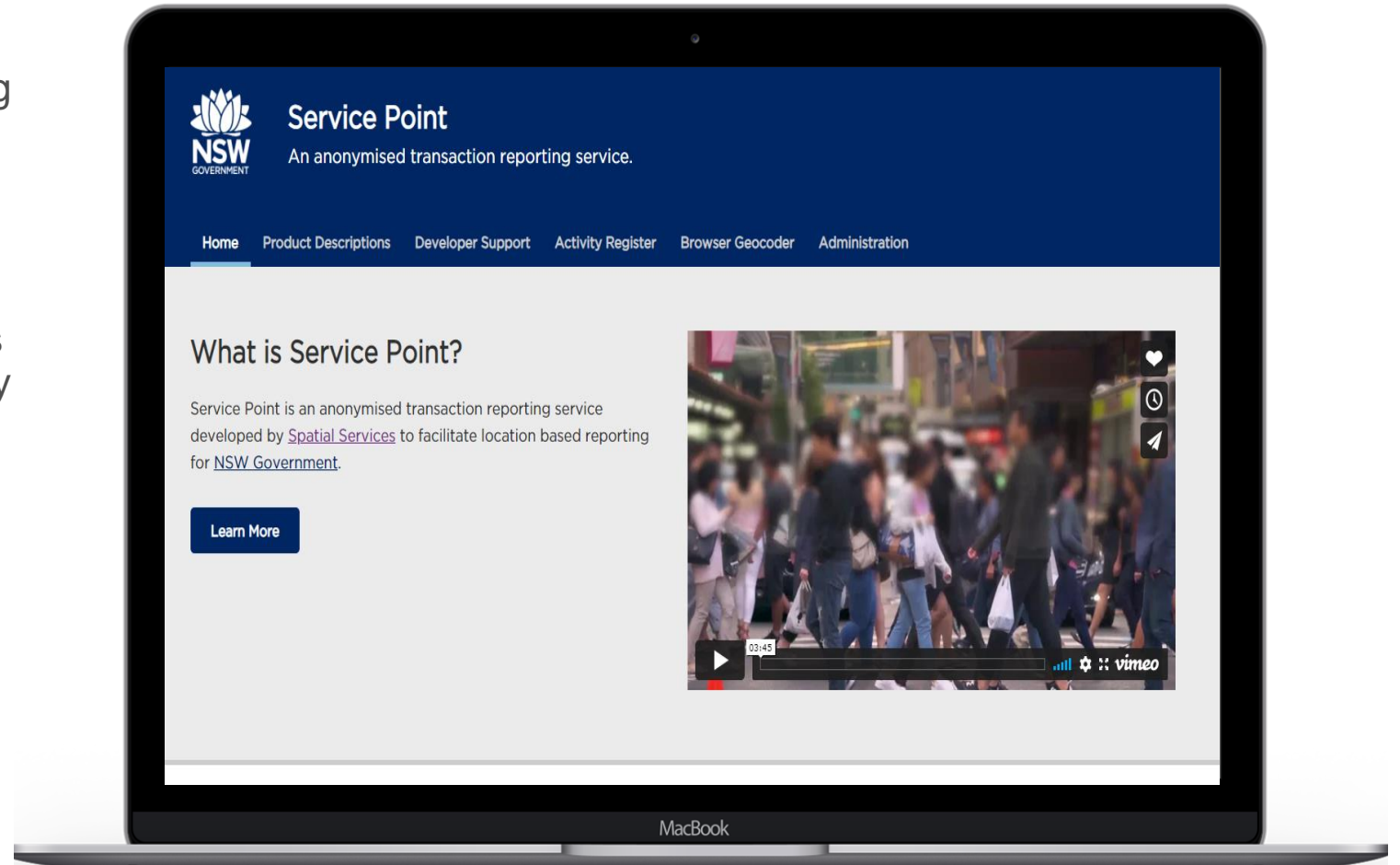
- NSW point is an address validation service provided to NSW government agencies
- Design to be embedded into an online form for real time address validation
- Key customer currently using NSW point are Service NSW, Education and Office of local government



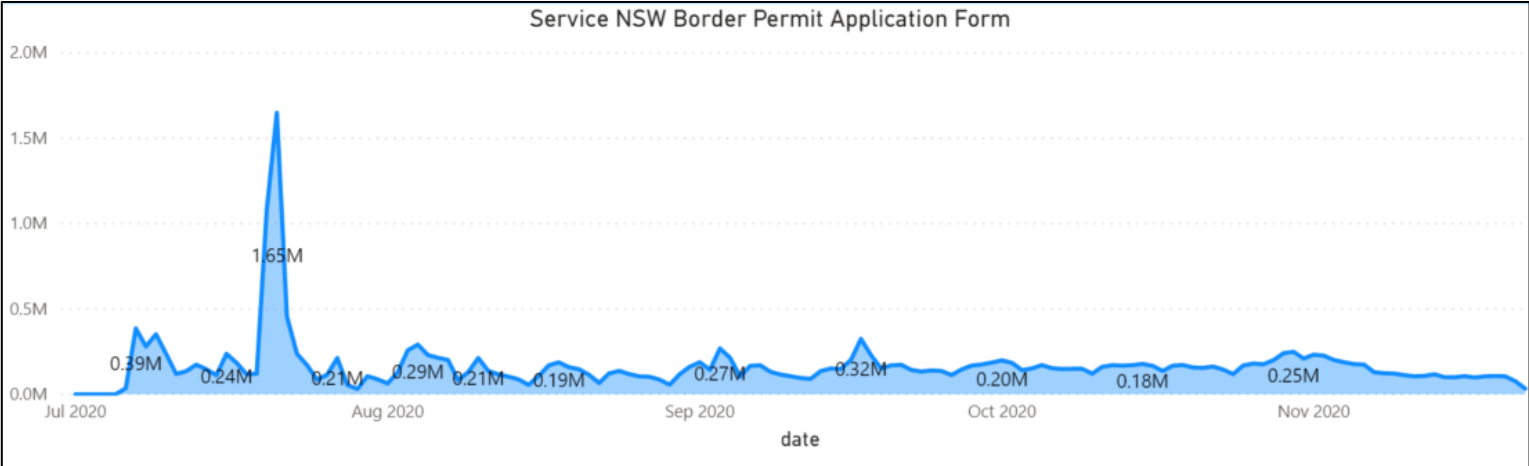
# Service Point

<https://servicepoint.digital.nsw.gov.au/>

- Service Point is a location-based reporting tool which uses de-identified location details of transactions to provide a dashboard.
- It does not use individual details but takes it down to Australian Statistical Geography Standard (ASGS) location.
- Currently in beta phase, Service NSW is the biggest customer for this tool.

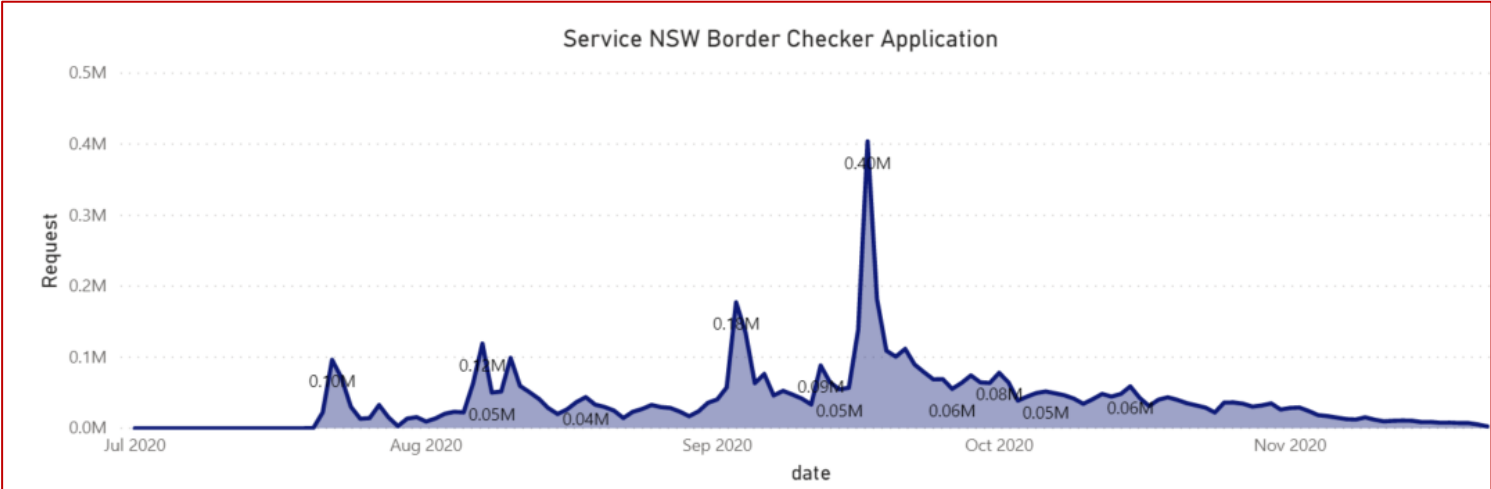


# NSW Point and Service Point used during border closures with Victoria July - November 2020

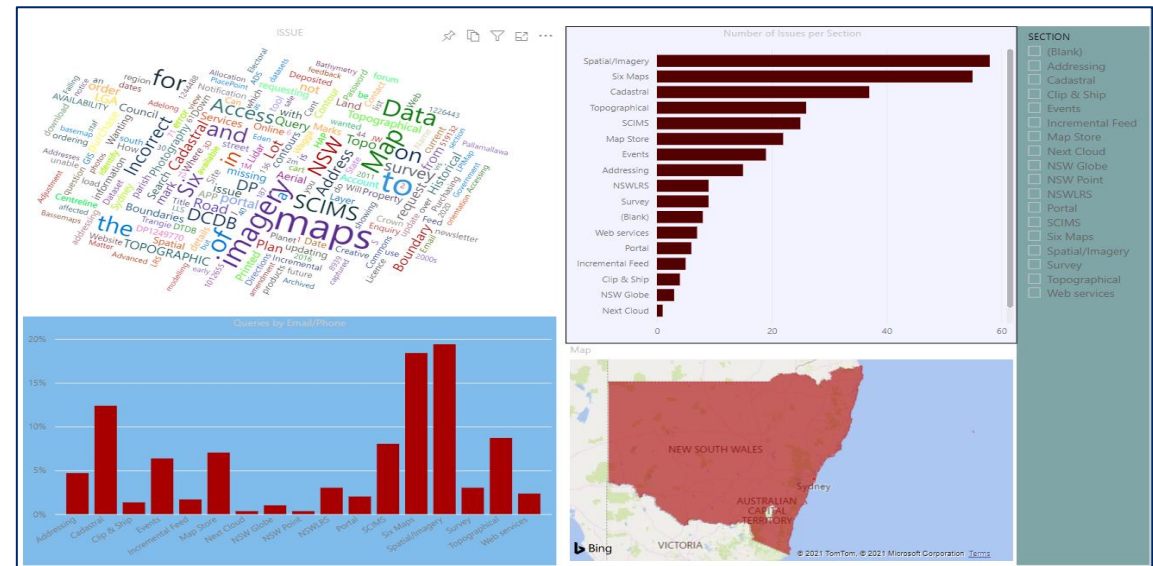
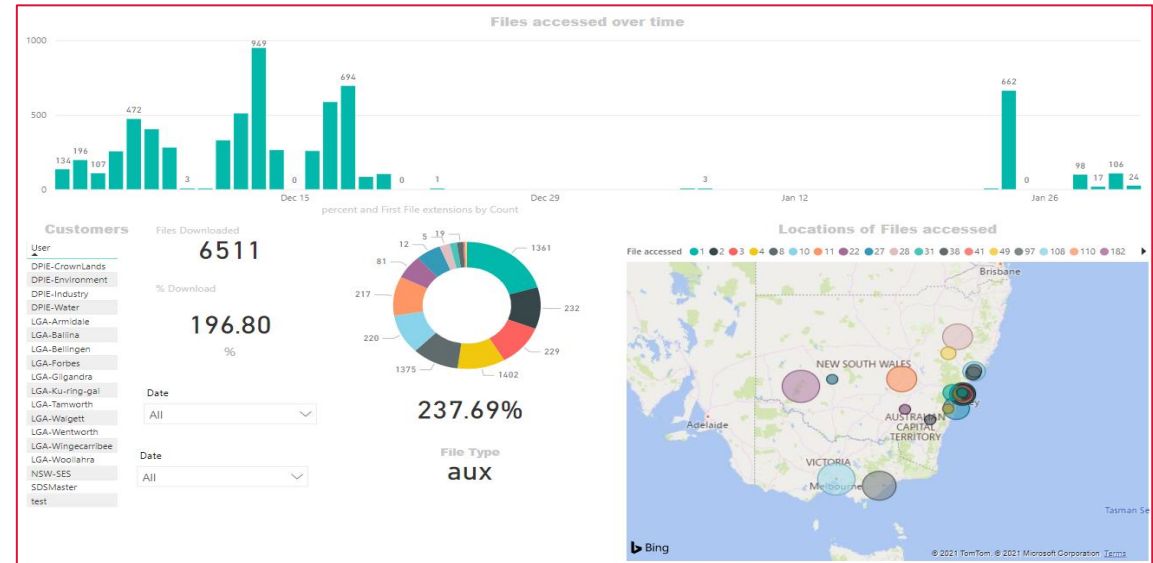
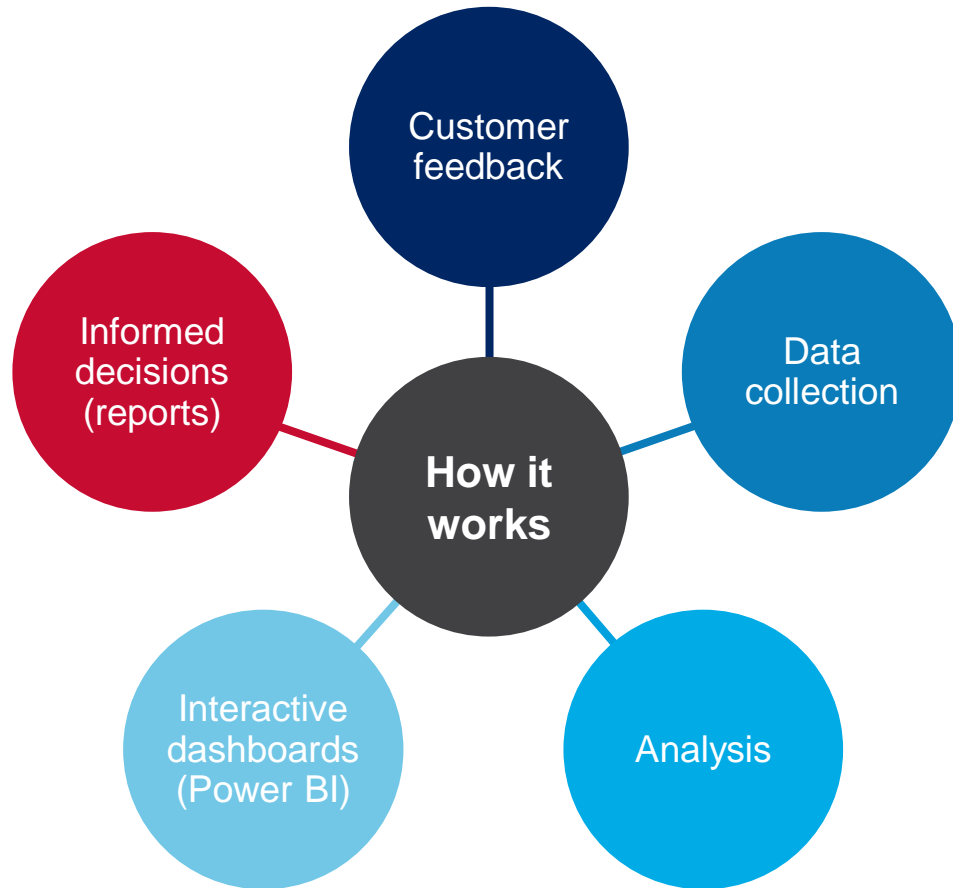


24 million transactions  
July - November 2020

6 million requests  
July - November 2020

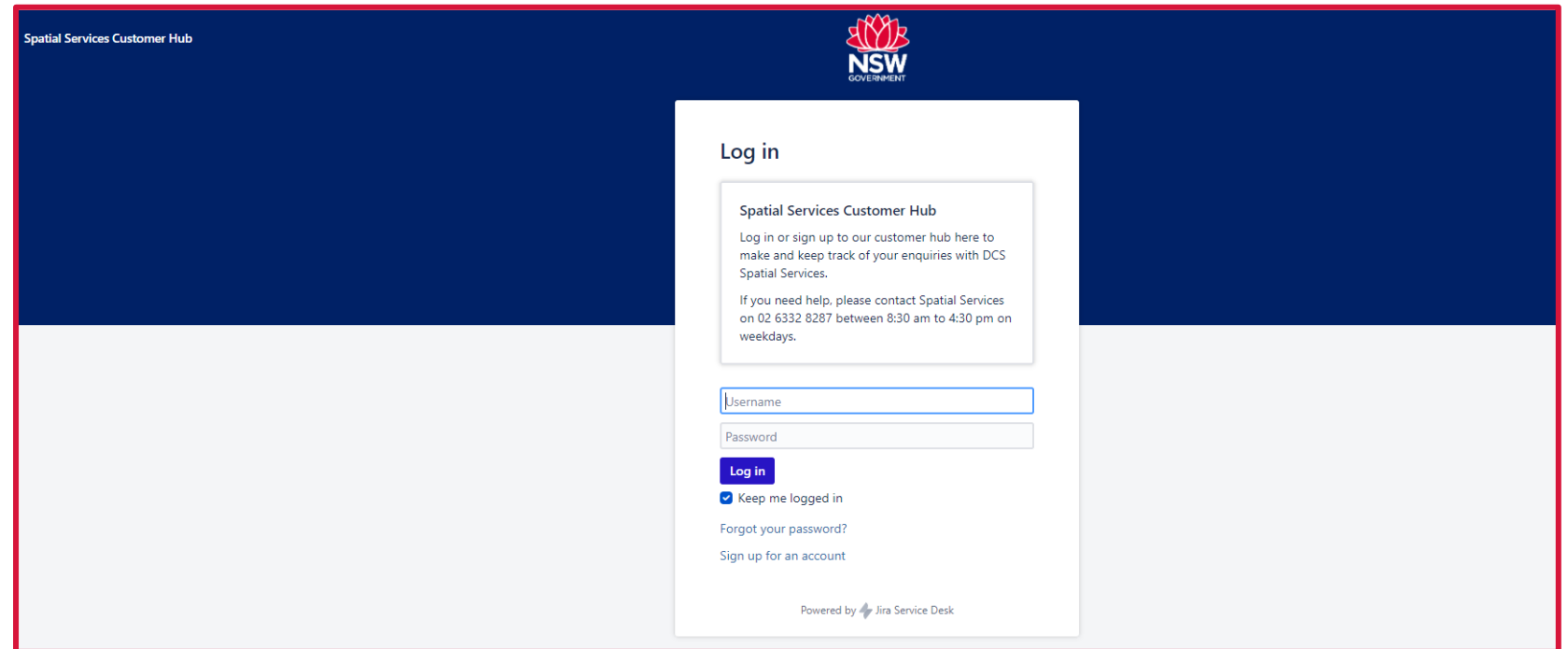


# Business Intelligence



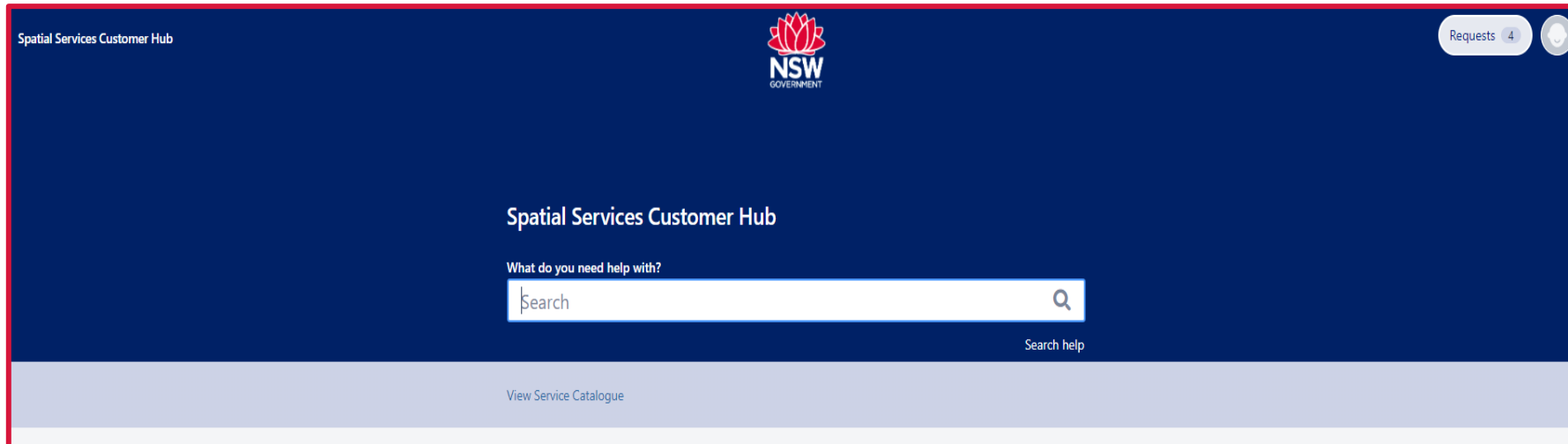
# Spatial Services Customer HUB

- Ease of engagement
- Customer HUB to communicate with the team and create tickets
- Simple sign on process
- Changing passwords not required and easy recovery process



The screenshot shows the login interface for the Spatial Services Customer Hub. The page has a dark blue header with the NSW Government logo and the text 'Spatial Services Customer Hub'. The main content area is white and contains a 'Log in' section. This section includes a heading 'Log in', a sub-heading 'Spatial Services Customer Hub', and a paragraph: 'Log in or sign up to our customer hub here to make and keep track of your enquiries with DCS Spatial Services. If you need help, please contact Spatial Services on 02 6332 8287 between 8:30 am to 4:30 pm on weekdays.' Below this text are two input fields: 'Username' and 'Password'. A blue 'Log in' button is positioned below the password field. There is a checked checkbox for 'Keep me logged in', a link for 'Forgot your password?', and a link for 'Sign up for an account'. At the bottom of the login box, it says 'Powered by Jira Service Desk'.

# Spatial Services Customer HUB



Informative page with  
FAQs and training  
guides



# Spatial Services Customer HUB

- Reach out to us and enquire about our services/products
- Submit a data request
- Provide feedback on our services or products
- Transparent tracking process

The screenshot displays the Spatial Services Customer Hub interface. At the top, the NSW Government logo is visible on the right, and the text 'Spatial Services Customer Hub' is on the left. Below the header, a section titled 'The Spatial Collaboration Portal' provides a brief description of the portal's purpose. The main content area features a sub-header 'Enquiries and data' with the NSW logo. A welcome message follows, leading to a search bar labeled 'What do you need help with?' and a 'Search help' link. Three service options are listed: 'Make an enquiry', 'Submit a data request', and 'Provide feedback', each with a brief description and an icon.

# NSW Elevation Data Download Service – Slope and Aspect

Home Gallery Map Scene Groups Content Organization

Spatial Services NSW Elevation Data Download Service

Overview Settings

Edit Thumbnail

Online Delivery Service for FSDf Spatial Services elevation datasets in 100k map partitions.

Web Mapping Application by ss-sds

Created: Nov 17, 2020 Updated: Feb 4, 2021 View Count: 93

Add to Favorites

Description

The NSW Elevation Data Service is an on-demand download service delivering a number of Spatial Services Elevation Datasets delivered in 100k map partitions.

Datasets delivered through this service are:

- NSW 2 metre Contour Dataset
- NSW 5 metre Digital Elevation Model Dataset
- NSW 5 metre Resolution Slope Model Dataset
- NSW 5 metre Resolution Aspect Model Dataset

Item Information

Low High

Details

Size: 216 KB

Shared with: Service Delivery Portal Testing Group, Portal Change Group

API: JavaScript

Purpose: Ready To Use

★★★★★

Spatial Services NSW Elevation Data Service

Discover and Download

Layer List

Elevation Index

South Pacific Ocean Coral Sea Tasman Sea

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# Web map applications



**Standardisation  
of Spatial Map  
Viewers and  
Applications**

Dams  
Safety NSW

NSW  
Revenue

Aboriginal  
Affairs

Wingecarribee  
Shire Council

NSW  
Environment  
Protection  
Authority

NSW  
Telco Authority



# Service Delivery

**Email: [ss-sds@customerservice.nsw.gov.au](mailto:ss-sds@customerservice.nsw.gov.au)**

**Phone: 02 6332 8287**

