

Partnering for SDI implementation: Victoria, Australia

GEOSPATIAL WORLD FORUM

Exchange Forum: Evolving Public-Private Partnership for Spatial Data Infrastructure

26-27 April 2012, Amsterdam





Outline

- ▶ **Background: Victoria, and partnering for SDI**
 - ▼ Public-private partnerships
 - ▼ Multi-sectoral governance
- ▶ **Step change: proposal for the Australia New Zealand Spatial Marketplace**
 - ▼ Marketplace partners
 - ▼ Marketplace demonstrator
 - ▼ Platform partners
 - ▼ Platform capabilities and forward development plan
- ▶ **Next steps: broadening the collaborative opportunity**



Background: Victoria

Australian Transverse Mercator





Background: Victoria

Universal Transverse Mercator





Victoria

- ▶ 5.5 million people, 24% of Australia's population, but only 3% of Australia by area
- ▶ Relatively wealthy in terms of spatial resources – small area, larger population
- ▶ Traditionally a leader in spatial sector in Australia



Victoria Australia



Public-private partnerships

- ▶ Victoria has a long record of partnering for SDI
- ▶ Over the last decade a series of partnerships have delivered parts of the picture
 - ▼ Spatial data maintenance
 - ▼ Topographic mapping production
 - ▼ Spatial services
 - ▼ State-wide commercial real-time high precision positioning services
- ▶ An informal partnering model: the Strategic Diamond

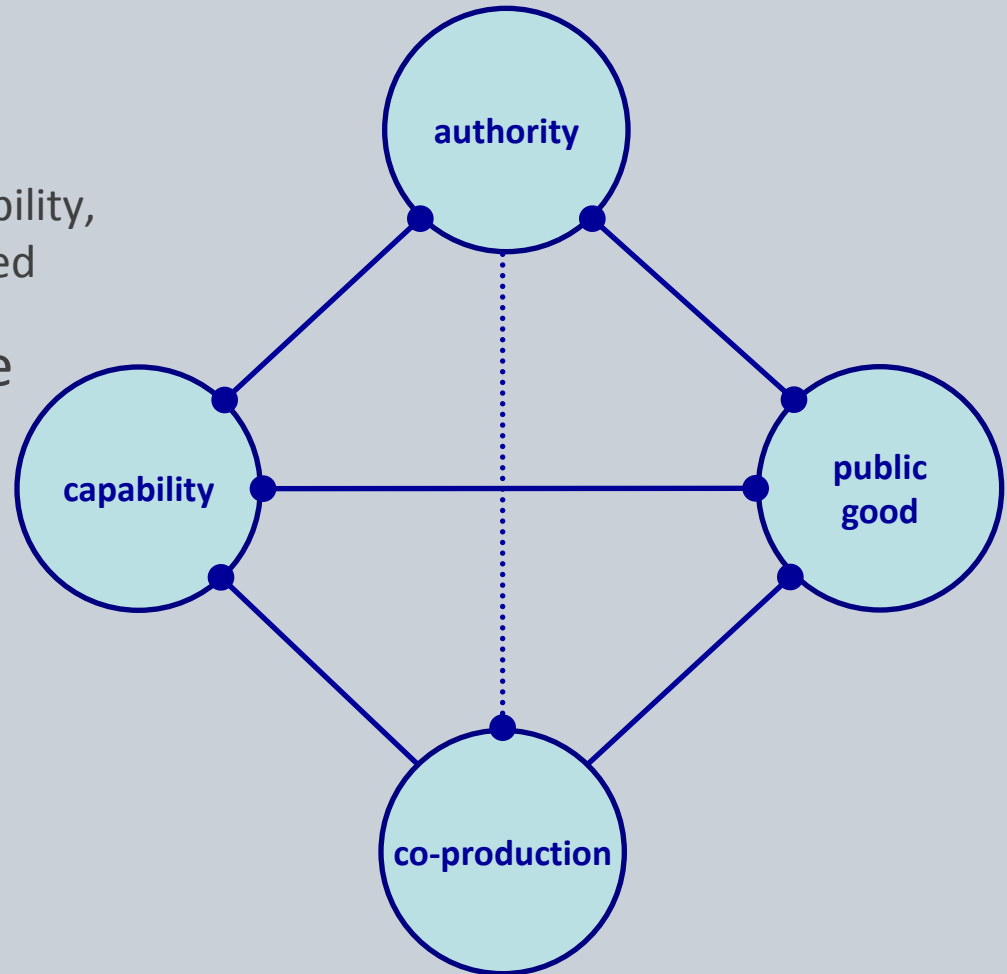
Partnering : the Strategic Diamond

▶ The strategic triangle

- ▼ Public good driven by capability, and appropriately authorised

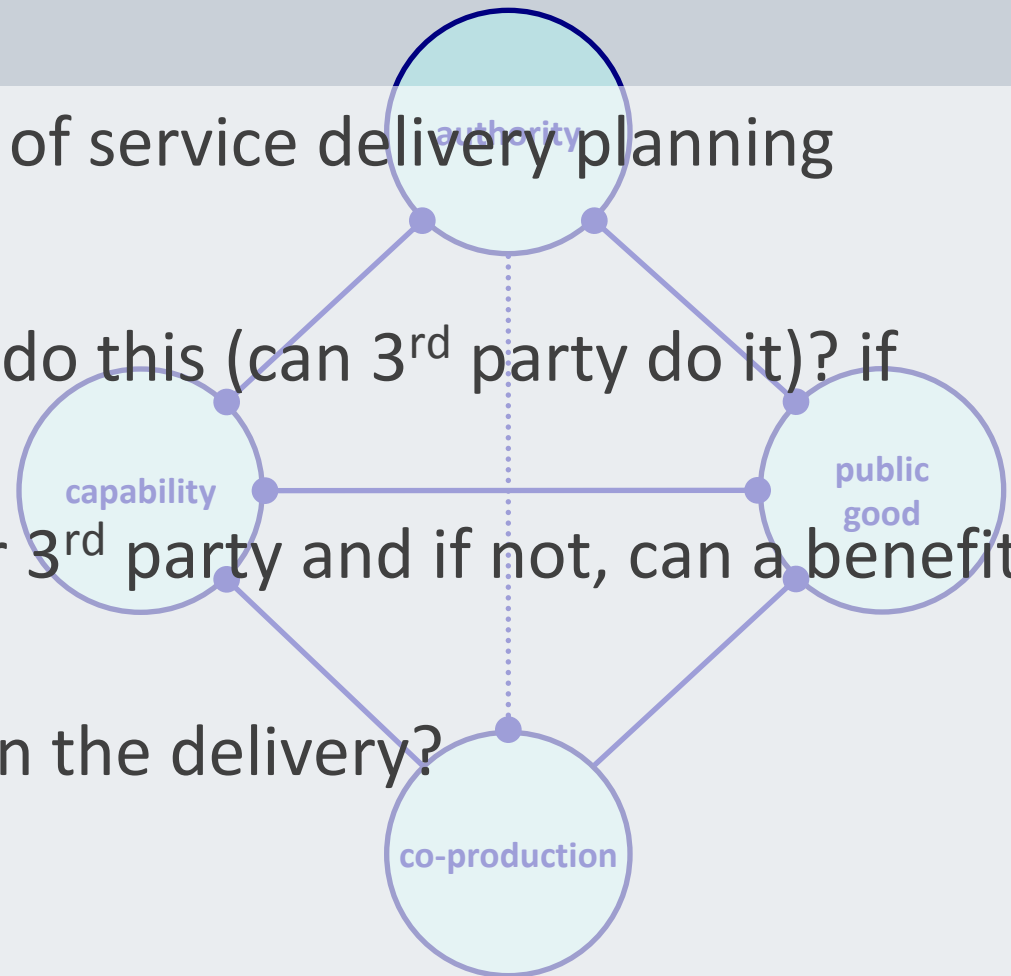
▶ Co-production builds the strategic diamond

- ▼ Strengthens capability, improves public good
- ▼ Authorising environment essential



Partnering : the Strategic Diamond

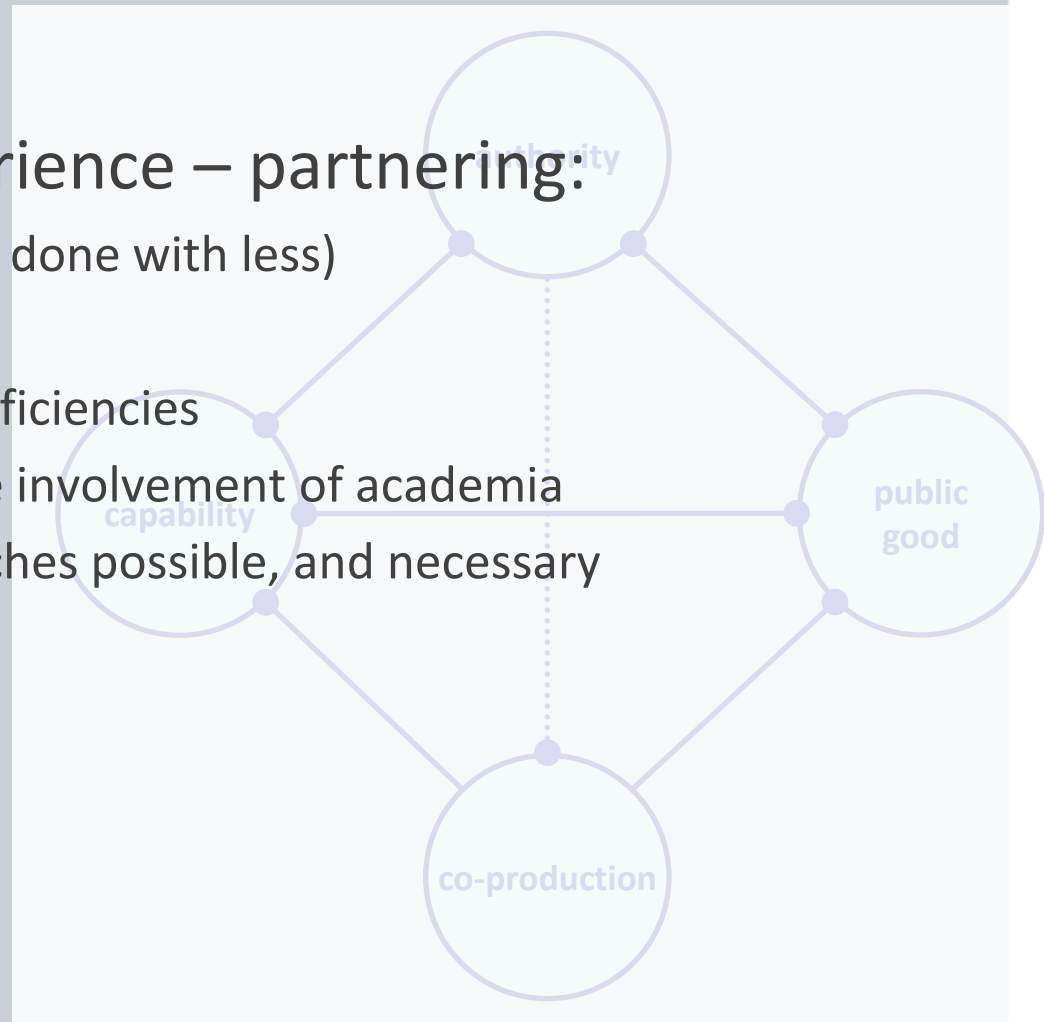
- ▶ Partnering the basis of service delivery planning
- ▶ Should government do this (can 3rd party do it)? if yes:
- ▶ Is there a benefit for 3rd party and if not, can a benefit be created? if yes:
- ▶ Can 3rd party share in the delivery?



Partnering : the Strategic Diamond

▶ Spatial industry experience – partnering:

- ▼ Drives progress (get more done with less)
- ▼ Reduces tunnel vision
- ▼ Encourages innovation, efficiencies
- ▼ Strengthened through the involvement of academia
- ▼ Infinitely variable approaches possible, and necessary
- ▼ Doesn't always come off





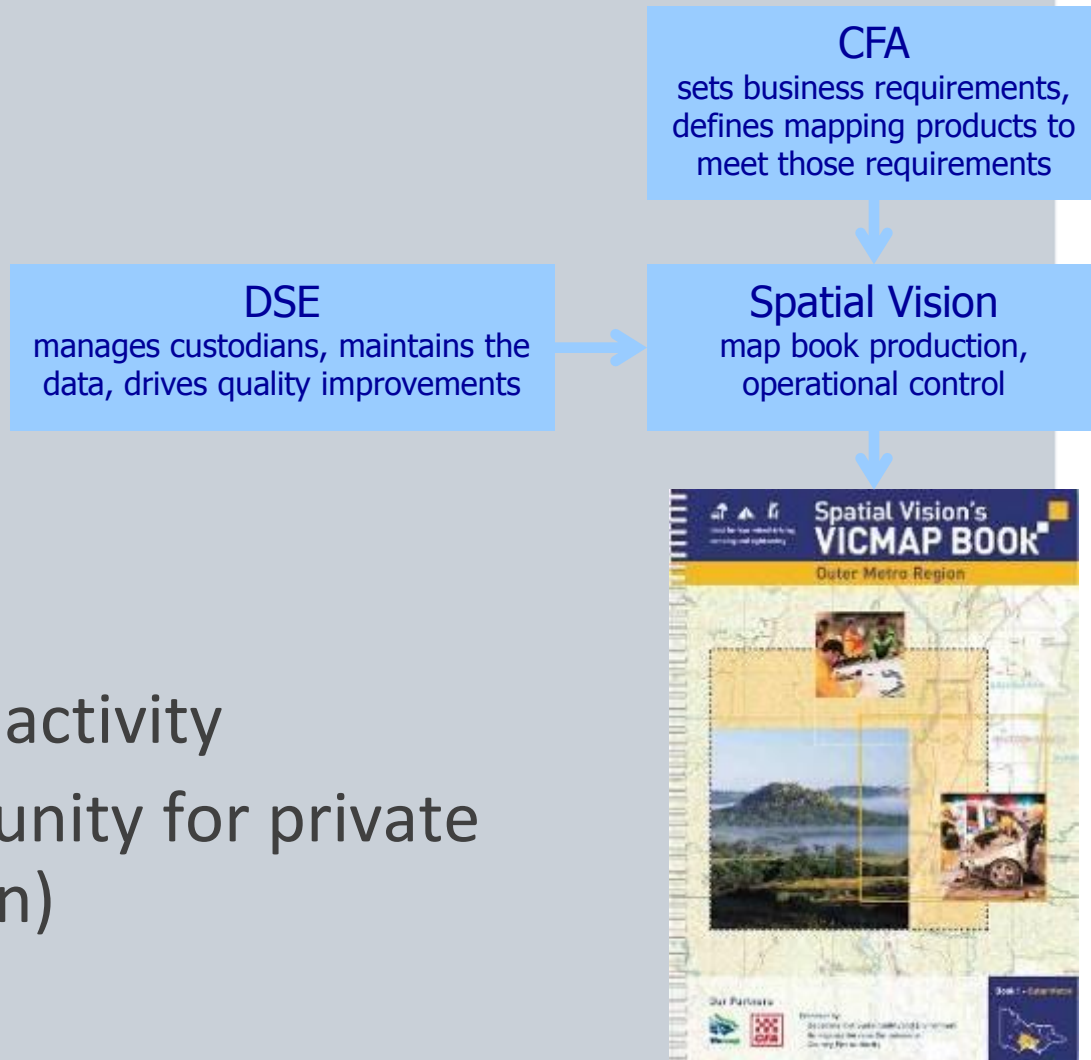
Example: spatial data maintenance

- ▶ Maintenance of framework datasets outsourced to private sector
 - ▼ Property and parcel
 - ▼ Roads
 - ▼ Address
 - ▼ Administrative boundaries
- ▶ Efficiencies and contractually enforced service levels

Example: topographic mapping

▶ The partnering response:

- ▼ the Spatial Vision Vicmap book series
- ▶ Get people and organisations doing what they do best
- ▶ Single, coordinated activity
- ▶ Commercial opportunity for private sector (Spatial Vision)





Example: Victorian Mapping and Address Service

- ▶ Build and operate tender for VMAS foreshadowed partnering, required tenderers to respond by:
 - ▼ Reducing capital and operating costs to government
 - ▼ Improving the address management performance by mining the address validation transactions
- ▶ Successful tenderer response included:
 - ▼ Marketing the VMAS service to the private sector (under a different brand) now returning 45% of operating costs
 - ▼ Closed the loop on address maintenance through notification of address validation failures

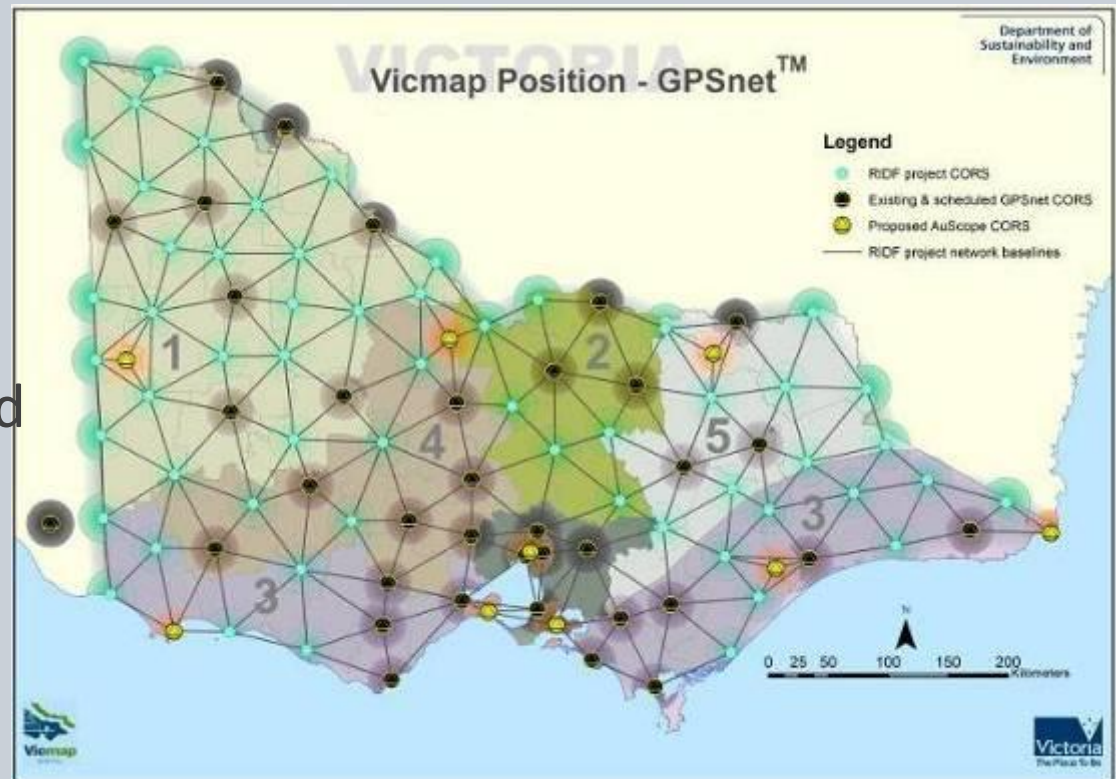


Example: Coordinated Imagery Program

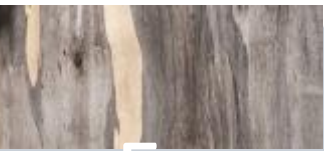
- ▶ Coordinated imagery acquisition for State and local government
- ▶ Single set of technical specifications, single set of contract documentation, consolidated procurement process
- ▶ Supported by industry and purchase partners
- ▶ Has increased the amount of imagery being procured, while reducing costs to industry
- ▶ Joint governance by industry and government

Example: GPSnet

- ▶ Network of 106 Continuously Operating Reference Stations (CORS)
- ▶ 34 stations provided by private sector
- ▶ Statewide
 - ▼ real-time
 - ▼ high reliability
 - ▼ 2cm accurate
 - ▼ audited and recorded



Example: GPSnet





Example: GPSnet

- ▶ Tier 1 and Tier 2 Value Added Resellers complete the market delivery channels
- ▶ Leading edge implementation, world class
 - ▼ provides an R&D test bed for Victorian spatial industry
- ▶ Founded on partnerships



Summary

- ▶ Partnering ‘business as usual’ for Victorian spatial industry
 - ▼ provides real benefits, achieves more with less
 - ▼ grows an effective and versatile resource base beyond public sector
- ▶ High level of trust, communication between sectors
 - ▼ long lead time – began over a decade ago
 - ▼ formal governance and institutional arrangements after about five years
- ▶ In combination, a concerted capability
 - ▼ healthy industry ‘co-opetition’
 - ▼ able to achieve more collectively than in isolation
- ▶ Government objectives
 - ▼ do more with less
 - ▼ industry development
- ▶ Advanced infrastructure to support strong R&D and innovation capability



Public-private partnerships: governance

- ▶ Governance model for the spatial sector has also been a partnership:
- ▶ Multi-sectoral Victorian Spatial Council delivers a ‘whole-of-Victoria’ spatial strategy
 - ▼ <http://www.victorianspatialcouncil.org/>
 - ▼ Public sector
 - ▼ Private sector
 - ▼ Academic sectors
 - ▼ Clearly defined roles and responsibilities
 - ▼ Independent chair
- ▶ No separate public sector strategy



Public-private partnerships: Victoria

- ▶ A well established environment for public-private partnerships
- ▶ But... parts of the picture only, not a coherent, overall plan
- ▶ Platform, and opportunity, for a step change



The step change proposal: ANZSM

- ▶ Proposal for the Australia New Zealand Spatial Marketplace (ANZSM)

the Spatial Marketplace will be a simple and useable one-stop-shop for finding spatial data, accessing spatial analysis tools and sharing spatial resources

- ▶ Complete publishing, discovery, access, distribution and interoperability services for all spatial information resources in Australia and New Zealand



ANZSM partners

▶ Public sector

- ▼ ANZLIC (Australia New Zealand Land Information Council)
- ▼ PSMA Australia

▶ Academic sector

- ▼ Cooperative Research Centre for Spatial Information

▶ Private sector

- ▼ Spatial Industry Business Association – New Zealand
- ▼ Spatial Industry Business Association – Australia

ANZSM: key step changes

Key characteristics	Existing SDI	ANZSM
content	Data only	Spatial resources
scope	Predominantly public sector	Public, private, academic sectors, and community
jurisdiction	Single jurisdiction	Australia and New Zealand
value chain	Monolithic roles spanning value chain	Discrete roles within value chain



Step change: content

- ▶ Existing SDIs focus on datasets, some web services
- ▶ ANZSM covers spatial resources:
 - ▼ Data – conventional spatial datasets
 - ▼ Products – PDFs, raster images, documents, spreadsheets
 - ▼ Services – web services
 - ▼ Processes – web processes
- ▶ Beginning with data and products, developing services and processes incrementally



Step change: scope

- ▶ Existing SDIs focus on public sector: supply side thinking for supply side users
- ▶ ANZSM covers all sectors:
 - ▼ Public sector
 - ▼ Private sector
 - ▼ Academic sector
 - ▼ Community
- ▶ Available and accessible to all, with both anonymous users and role based identity management



Step change: jurisdiction

- ▶ Each jurisdictions has its own SDI
 - ▼ No single reference point for spatial resources
 - ▼ Inefficiencies and duplication of effort for jurisdictions
 - ▼ Inefficiencies and inconsistency, lack of clarity for users
- ▶ All spatial resources available in a federated model, beginning from a single point of reference
 - ▼ Simplicity
 - ▼ Confidence
 - ▼ Critical mass



Step change: value chain roles

- ▶ **Five distinct (but not mutually exclusive) roles**
 - ▼ **Publisher:** makes spatial resources available
 - ▼ **Acquirer:** acquire spatial resources (data, products, services, processes) from the market place
 - ▼ **Value Adder:** watches and analyses market activity and transactions for opportunities to create and published new or improved spatial resources (*a subset of publisher*)
 - ▼ **Notifier:** reviews, corrects or otherwise contributes to the quality of a resource, or the collective understanding of the value or fitness for purpose of a spatial resource – *a subset of acquirer*
 - ▼ **Administrator/regulator:** manage the market place and facilitate the needs of marketplace



Step change: key differences

- ▶ The marketplace won't need a spatial presentation service, any number of VARs can publish their presentation service, and compete, in the marketplace
- ▶ The marketplace will have business intelligence – volumes and types of transactions
- ▶ The marketplace will have simple and effective publishing, discovery and access services for all users, not for spatial specialists
- ▶ The marketplace puts a business model on the bones of an SDI

ANZSM: business model on the bones of an SDI

Scope of SDI

Scope of Spatial Marketplace

Acquisition

Publishing

Discovery

Access

Presentation

Feedback/Notify

Positioning

Products and
services

Benefits



ANZSM: progress to date

- ▶ ANZSM demonstrator complete March 2012
 - ▼ Demonstrate value and benefits
 - ▼ Show how the Marketplace complements, leverages and builds upon existing jurisdictional and private sector infrastructure and spatial resources
 - ▼ Obtain stakeholder support for and participation in the future operational Spatial Marketplace
- ▶ Series of roadshows and workshop during rest of 2012 across all Australian and New Zealand jurisdictions
 - ▼ Evaluation and buy-in



ANZSM: platform

- ▶ Demonstrator developed on open source platform
- ▶ Based on GeoNode from OpenGeo
- ▶ Developer consortium
 - ▼ OpenGeo: <http://opengeo.org/>
 - ▼ Dialog Information Technology: <http://www.dialog.com.au/>

Marketplace home page: basic functions

The screenshot shows the Spatial marketplace Demonstrator project home page. The browser address bar displays 'spatialmarketplace.net.au'. The page features a navigation menu with links for Home, Search, Resources, Maps, Publication, Global Statistics, Statistics, Profiles, Groups, Help, and About. A search bar is located below the navigation menu. The main content area is divided into several sections: Welcome, Resources, Maps, Publication, and Statistics. The Welcome section includes a message about the ANZSM project and a 'More info' link. The Resources section has a search bar and buttons for 'Layer Search' and 'Resource Search'. The Maps section includes a search bar and buttons for 'Explore Maps' and 'Create Map'. The Publication section has a search bar and a 'Publish' button. The Statistics section has a search bar and buttons for 'Global Statistics' and 'Statistics'. On the right side, there is a sidebar with a 'Visit page only - not connected to profile' message and sections for 'My shopping cart', 'Recent purchases', 'My statistics', and 'Featured Company of the week'.

Windows - ANZSM Demonstrator X
spatialmarketplace.net.au

discover - innovate - publish
DSE_Vjo | Change password | Log out

Spatial marketplace
Demonstrator project

Home Search Resources Maps Publication Global Statistics Statistics Profiles Groups Help About

- [NEW: Profile page displayed full req details - Hide announcement](#)
- [See Help page for Tips document - Hide announcement](#)

Welcome

Welcome to the Australia New Zealand Spatial Marketplace (ANZSM). Currently in demonstration only mode, the ANZSM will be a distributed, internet based hub of location based data, products, services and processes, drawn from many sources.

[More info](#)

Resources

Access Resources to search for existing resources

[Layer Search](#) OR [Resource Search](#)

Maps

Explore existing maps or create your own from ANZSM Resources.

[Explore Maps](#) [Create Map](#)

Publication

Publish your own resources in the Spatial Marketplace, set prices, licensing and permissions for those resources.

[Publish](#)

Statistics

ANZSM provides Business Intelligence enabling you to monitor the performance of your own resources (Statistics) and also the overall best performers (Global Statistics).

[Global Statistics](#) [Statistics](#)

Visit page only - not connected to profile

My shopping cart

Recent purchases

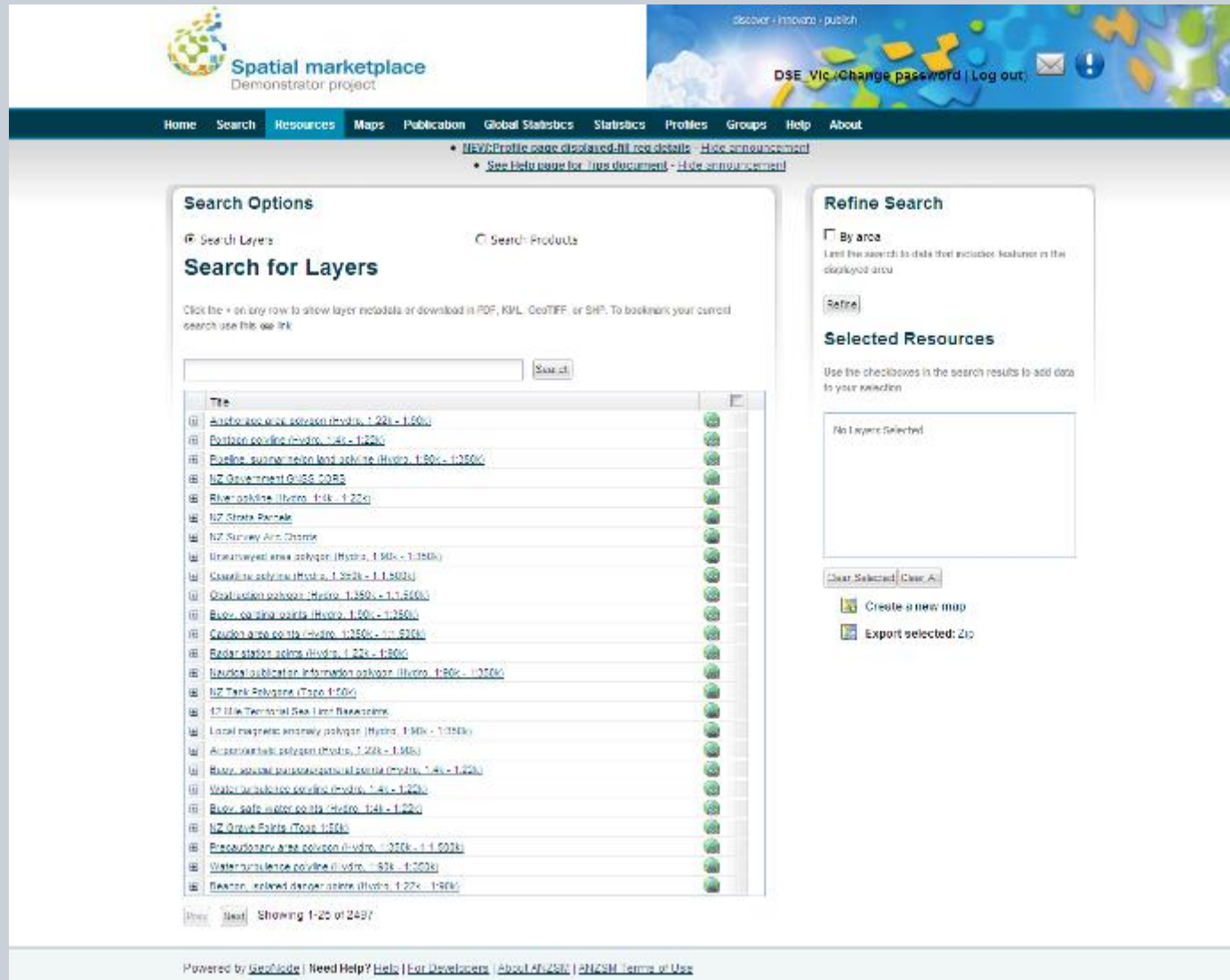
My statistics

Featured Company of the week

Spatial marketplace
Demonstrator project

spatialmarketplace.net.au/maps.html Developers | About ANZSM | ANZSM Terms of Use

Marketplace: specific search for data layers

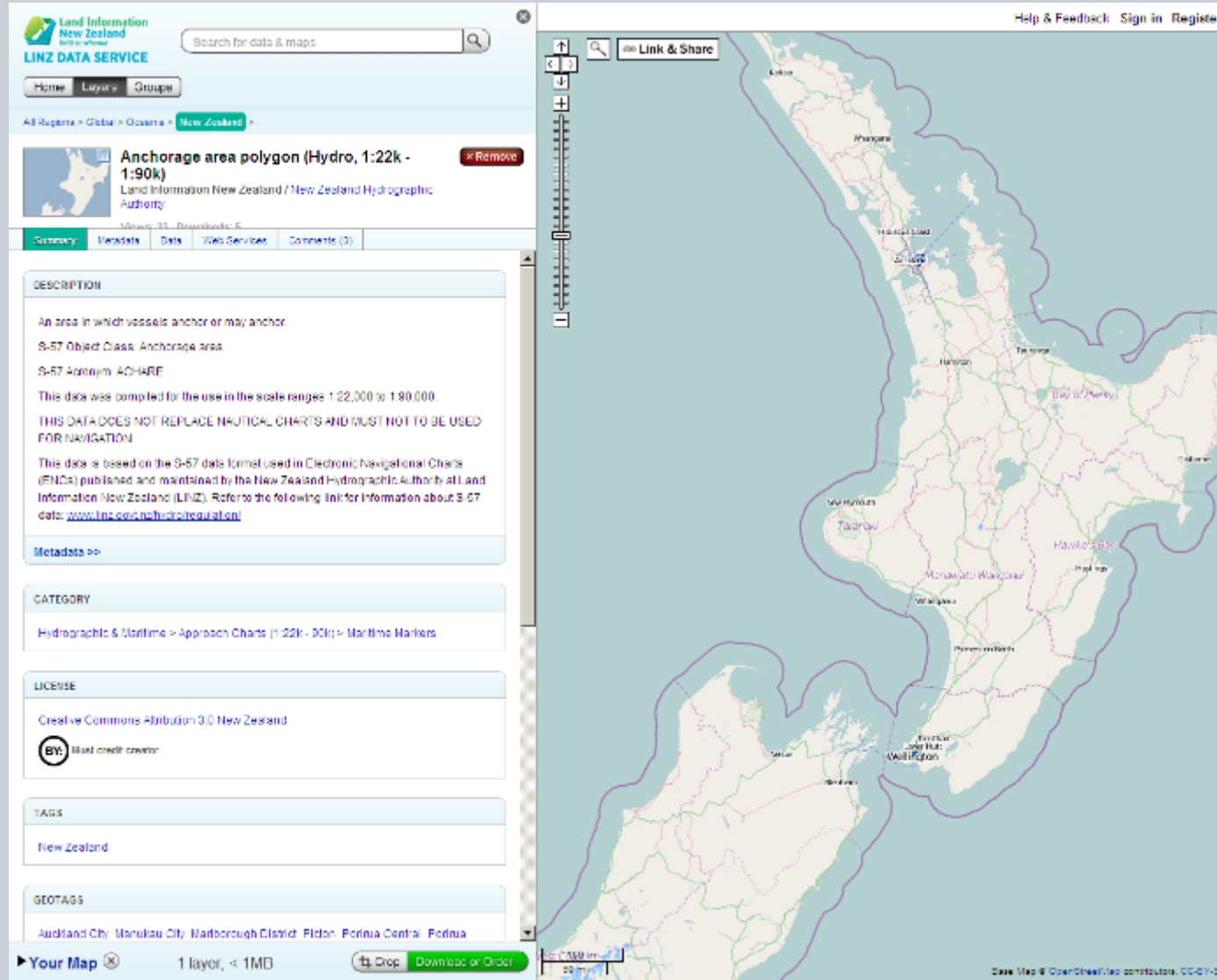


The screenshot displays the Spatial marketplace website interface. At the top, there is a navigation bar with links for Home, Search, Resources, Maps, Publication, Global Statistics, Statistics, Profiles, Groups, Help, and About. The main content area is divided into several sections:

- Search Options:** Includes radio buttons for "Search Layers" (selected) and "Search Products". Below this is a search box with a "Search" button.
- Search for Layers:** A list of search results, each with a checkbox, a title, and a link to details. The results include various data layers such as "Baseline area polygon (Hydro, 1,221 - 1,500)", "Baseline polygon (Hydro, 1,441 - 1,420)", "Baseline polygon (land use) (Hydro, 1,800 - 1,2500)", "NZ Government OWS CORP", "River polygon (Hydro, 1,100 - 1,220)", "NZ Street Network", "NZ Survey Air Chart", "Urbanized area polygon (Hydro, 1,500 - 1,100)", "Coastline polygon (Hydro, 1,200 - 1,1,500)", "Qualification polygon (Hydro, 1,350 - 1,1,200)", "River catchment polygon (Hydro, 1,500 - 1,250)", "Catchment area polygon (Hydro, 1,250 - 1,1,500)", "River station polygon (Hydro, 1,200 - 1,800)", "Biological habitat information polygon (Hydro, 1,800 - 1,100)", "NZ Tank Polygon (Topo, 1,500)", "17 Mile Territorial Sea Limit Boundary", "Local map area boundary polygon (Hydro, 1,500 - 1,100)", "Accretion belt polygon (Hydro, 1,200 - 1,500)", "River spatial nonpoint source polygon (Hydro, 1,400 - 1,400)", "Water discharge polygon (Hydro, 1,400 - 1,200)", "River safe water polygon (Hydro, 1,400 - 1,200)", "NZ Drive Points (Topo, 1,500)", "Procedural area polygon (Hydro, 1,200 - 1,1,500)", "Water discharge polygon (Hydro, 1,400 - 1,200)", and "Wastewater discharge polygon (Hydro, 1,200 - 1,800)".
- Refine Search:** Includes a "By area" checkbox and a "Refine" button.
- Selected Resources:** A section for adding data to the swatch, currently showing "No Layers Selected".

At the bottom of the search results, there is a "Showing 1-25 of 2497" indicator. The footer contains links for "Powered by GeoNode", "Need Help?", "Help", "For Developers", "About GeoNode", and "GN2SM Terms of Use".

Marketplace: search result



Land Information New Zealand
LINZ DATA SERVICE

Search for data & maps

Home Layers Groups

All Regions > Global > Oceania > **New Zealand**

Anchorage area polygon (Hydro, 1:22k - 1:90k) Remove

Land Information New Zealand / New Zealand Hydrographic Authority

Summary Metadata Data Web Services Comments (3)

DESCRIPTION

An area in which vessels anchor or may anchor.

S-57 Object Class: Anchorage area

S-57 Acronym: ACHARE

This data was compiled for the use in the scale ranges 1:22,000 to 1:90,000.

THIS DATA DOES NOT REPLACE NAUTICAL CHARTS AND MUST NOT BE USED FOR NAVIGATION

This data is based on the S-57 data format used in Electronic Navigational Charts (ENCs) published and maintained by the New Zealand Hydrographic Authority at Land Information New Zealand (LINZ). Refer to the following link for information about S-57 data: www.linz.govt.nz/hydro/regulation/


Metadata >>

CATEGORY

Hydrographic & Maritime > Approach Charts (1:22k - 50k) > Maritime Markers

LICENSE

Creative Commons Attribution 3.0 New Zealand

BY:  Must credit creator

TAGS

New Zealand

GEOTAGS

Auckland City, Manukau City, Marlborough District, Fildon, Porirua Central, Porirua

Your Map 1 layer, < 1MB Drop Download or Order

Help & Feedback Sign in Register

Link & Share

Scale Map & Download/Map contributors. CC-BY-SA

Marketplace: search for products

The screenshot shows the Spatial Marketplace website search interface. The browser address bar displays "spatialmarketplace.net.au/data/search". The website header includes the logo "Spatial marketplace Demonstrator project" and navigation links: Home, Search, Resources, Maps, Publication, Global Statistics, Statistics, Profiles, Groups, Help, About. A notification bar states: "NEW! Profile page displayed full map details - Hide announcement" and "See Help page for this document - Hide announcement".

The main content area is divided into two sections: "Search Options" and "Refine Search".

Search Options

Search Layers Search Products

Search for Products

Title	Type	Contact	Maps
Text Document	doc	spgad1	
Data of Australia	pdf	jeff	Australia
Australia final doc	pdf	asher	
Australia Final Viewers	html	brud	Australia
China	html	spgad1	
Chatham Islands Map	pdf	jeff	New Zealand island Maps
Kakadu National Park Map	pdf	jeff	Kakadu National Park Map
net page	html	asher	
Australia 100a	docx	asher	
Australia 100a 2	pdf	asher	
Australia 1	pdf	asher	
Australia 1 final	html	asher	
Text Link	html	spgad1	
Text link2	html	spgad1	
Sector Piece website	html	asher	
LeafletMap	ep	shwlsopadram	
Australia 100	html	brud	
Australia 100	doc	brud	Australia
Map of Australia	xlsx	asher	Victoria
Australia and of the sea	pdf	scott	
Australia 100 final product	PDF	asher	Australia 100 1. 100 final
Thames Valley Map	html	trussell	New Zealand island Maps
Australia 100a	xlsx	asher	Victoria
Australia 100a	xlsx	asher	Victoria
Australia 100a	html	asher	Victoria

Show 1 - 25 of 35

Refine Search

By area
Limit the search to data that includes features in the displayed area.

Selected Resources

Use the checkboxes in the search results to add data to your selection.

No Layers Selected

Marketplace: search for, create maps



The screenshot shows the Spatial marketplace website. At the top left is the logo for "Spatial marketplace" with the subtitle "Demonstrator project". To the right of the logo is a navigation bar with links: "discover", "innovate", and "publish". Below this is a user profile section for "DSE_Vic" with links for "Change password" and "Log out", along with an email icon and a warning icon. A dark blue navigation menu contains links for "Home", "Search", "Resources", "Maps", "Publication", "Global Statistics", "Statistics", "Profiles", "Groups", "Help", and "About". Below the menu are two announcements: "NEW Profile page displays all real details - Hide announcement" and "See Help page for Use document - Hide announcement". The main content area features a "Search for Maps" section with a search input field and a "Search" button, and a "Create Maps" section with a description: "Use ANZSM's Map Composer application to create your own maps. Add layers from the ANZSM or remote services, and style them." and a "Create your own Map" button. At the bottom, a footer contains the text "Powered by [GeoInfo](#) | [Need Help? visit](#) | [For Developers](#) | [About ANZSM](#) | [ANZSM Terms of Use](#)".

Marketplace: create map

The screenshot displays the Spatial marketplace web interface. The top left corner features the logo and text "Spatial marketplace Demonstrator project". The top right corner shows a user profile for "DSE_Vic" with options for "Change password" and "Log out". Below the header is a navigation bar with "Home" and a status message "This map is currently unshared".

The main area contains a map of Australia. On the left side, there is a "Data" panel with a "Legend" tab and a "Base Layers" section containing three options: "skewname", "No background", and "OpenStreetMap".

An "Available Layers" dialog box is open in the center, showing a list of layers available from the "local" source. The dialog includes a search bar and an "Add a New Service" button. The layers listed are:

Title	Id
Chatham Island Points	geonode.ChathamIslandP...
GA_All_State_Territories_00_brad	geonode.GA_All_State_...
POSTAL_AREAS	geonode.POSTAL_AREAS...
SOCIO_ECONOMIC	geonode.SOCIO_ECONOMI...
Touring Data	geonode.TouringData_inch...
Victoria	geonode.victoria
victoria_natural_eff	geonode.victoria_natural_eff

At the bottom right of the map, there is a scale bar showing 1000 km and 1000 m, and a coordinate display showing "17 69065320".

Marketplace: publish services

The screenshot displays the 'Spatial marketplace Demonstrator project' website. The main navigation bar includes links for Home, Search, Resources, Maps, Publication, Global Statistics, Statistics, Profiles, Groups, Help, and About. The 'Publication' tab is active, showing a 'Publish Services' form and a table of published resources.

Spatial marketplace
Demonstrator project

Discover | Home | Publish

DSE_Vic (Change password) | Log out

Home Search Resources Maps **Publication** Global Statistics Statistics Profiles Groups Help About

- [New Profile page displayed full req details - Hide announcement](#)
- [See Help page for Tips document - Hide announcement](#)

Publish Services

• The system currently supports WMS & WFS (Level 0 GML profile)

Service URL:

Type: WMS WFS

User:

Password:

My Published Resources:

Title	Type	Upload Date	Action
malaccota_2008an14_el_vic_150v_mga55	private	15/04/2012	edit
malaccota_2008an14_el_vic_380m_mga6b	private	15/04/2012	edit
spine_fire_20034627_el_vic_030m_mga00	private	16/04/2012	edit
VMAOIN_DSE_REGION	private	24/02/2012	edit
VMLITE_TR_ROAD	private	24/02/2012	edit
VMLITE_LOCALITY	private	24/02/2012	edit
VICCOV_REGION	private	24/02/2012	edit

Refresh

Default Permission Settings

Normalise the settings below to apply to resources which you are about to publish from this page. (These settings are not relevant to previously published resources, as listed below.)

Who can view and download this data?

Anyone

Any registered user

Only users who can edit

Paid users

Select Payment Type: Select Currency:

Add Perbill...

Enter dollars cost per byte...

Subject Licenses

Title	Action
GP	view
BSP Victoria license	view

Refresh

Upload License

License title:

Select license file:

Who can edit this data?

Any registered user

Only the following users or groups:

Add user...

Who can manage and edit this data?

Add user...

[View history](#)

Marketplace: publish spatial dataset

The screenshot shows the 'Spatial marketplace' website interface. At the top, there is a navigation bar with links for Home, Search, Resources, Maps, Publication, Global Statistics, Statistics, Profiles, Groups, Help, and About. A secondary navigation bar contains links for 'New Profile page displayed in req details' and 'New announcement', and another for 'See Help page for Tips document' and 'Hide announcement'. The main content area is divided into three sections: 'Data', 'Products', and 'Services'. The 'Publish Data' section is active, displaying a form with the following fields and options:

- Data File or ZIP:** A file selection button labeled 'Select file' and a 'Browse...' button.
- CR:** A text input field.
- GeoRSS URL:** A text input field with the placeholder 'Enter GeoRSS URL'.
- Select update frequency:** A dropdown menu with 'Update frequency' selected.
- Buttons:** 'Publish GeoRSS' and 'Publish Data'.

Below the form is a table titled 'My Published Resources:' with columns for Title, Type, Upload Date, and Action. The table lists various spatial datasets, such as 'EXTRACT_POLYGON_DSE_Vic_5', 'LOCALITY_POLYGON_DSE_Vic', and 'CL_TENURE_POLYGON_DG_DSE_Vic_1', each with a corresponding 'edit' link.

On the right side, the 'Default Permission Settings' panel is visible, containing the following sections:

- Who can view and download this data?:** Radio buttons for 'Anyone', 'Any registered user', 'Only users who can edit' (selected), and 'Paid users'.
- Select License:** A dropdown menu showing 'DSE Victoria license' as the selected option.
- Who can edit this data?:** Radio buttons for 'Any registered user' and 'Only the following users or groups' (selected).
- Who can manage and edit this data?:** Radio buttons for 'Any registered user' and 'Only the following users or groups' (selected).

At the bottom left, the URL 'spatialmarketplace.net.au/maps.html' is visible.

Marketplace: global business intelligence



Marketplace: client specific BI

The screenshot shows the Spatial marketplace website interface. The browser address bar displays "spatialmarketplace.net.au/statistics/". The page header includes the Spatial marketplace logo and navigation links: Home, Search, Resources, Maps, Publication, Global Statistics, Statistics, Profiles, Groups, Help, About. A user profile for "DSE Vic" is visible with options for "Change password" and "Log out".

Statistics

Performance of your ANZSM resources

Top 5 Sold (Australia)

View detailed sales | Australia | New Zealand


Sales Summary

Sales	Name
-------	------

Top 5 Visits

View detailed visits

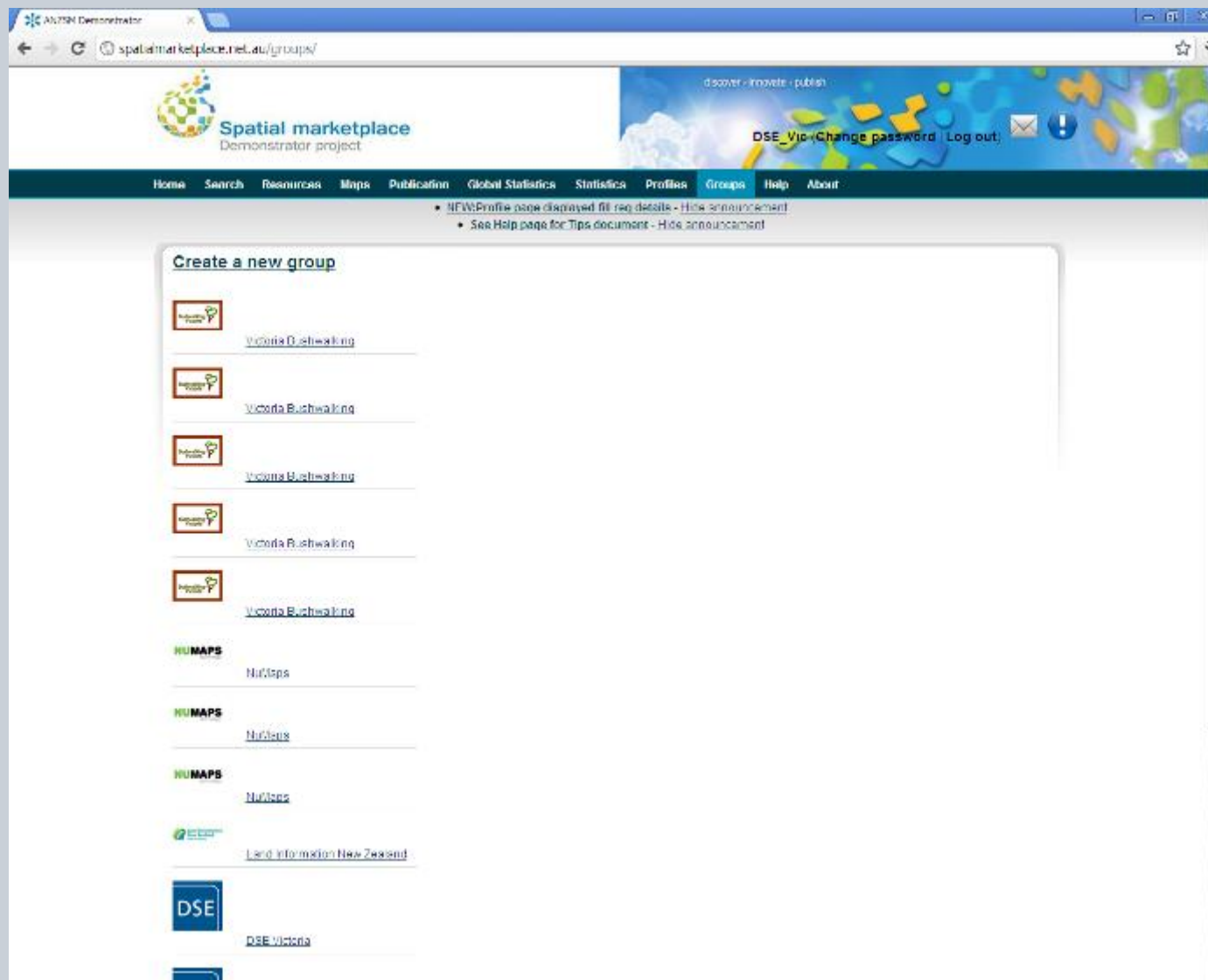
- VVLITE_LOCALITY
- VICCOV_REGION
- VVLITE_TR_ROAD
- macdonranges_2004and05_ar_vic_08on_rgs00
- PROPERTY_MP_DSE_Vic



Visits Summary

Value	Layer Name
1000	VVLITE_LOCALITY
1441	VICCOV_REGION
899	VVLITE_TR_ROAD
611	macdonranges_2004and05_ar_vic_08on_rgs00
511	PROPERTY_MP_DSE_Vic
411	PARDL_MP_DSE_Vic
300	ADDRESS_DSE_Vic
248	EXTRACT_POLYGON_DSE_Vic
200	VIRROD_SBR_PBD_1_DSE_Vic
252	EXTRACT_POLYGON_DSE_Vic_1

Marketplace: groups, communities



The screenshot shows the Spatial Marketplace Demonstrator project website. The browser address bar displays spatialmarketplace.net.au/groups/. The website header includes the logo and navigation links: Home, Search, Resources, Maps, Publication, Global Statistics, Statistics, Profiles, **Groups**, Help, and About. A user profile for 'DSE_Vic' is visible with options for 'Change password' and 'Log out'. Below the navigation bar, there are two announcements: 'NEW: Profile page displayed full req details - Hide announcement' and 'See Help page for Tips document - Hide announcement'. The main content area is titled 'Create a new group' and lists several groups:

- Victoria Bushwalking
- Victoria Bushwalking
- Victoria Bushwalking
- Victoria Bushwalking
- Victoria Bushwalking
- HUMAPS Nullaps
- HUMAPS Nullaps
- HUMAPS Nullaps
- Land Information New Zealand
- DSE Victoria

Marketplace groups: specific access and use



The screenshot shows a web browser window displaying the Spatial marketplace website. The browser's address bar shows the URL spatialmarketplace.net.au/groups/group/numaps/. The website header includes the Spatial marketplace logo and navigation links: Home, Search, Resources, Maps, Publication, Global Statistics, Statistics, Profiles, Groups, Help, and About. A user profile for 'DSE_Vic' is visible in the top right corner with options to 'Change password' and 'Log out'. The main content area features a 'NuMaps' group profile on the left and a 'Maps & Data' section on the right. The NuMaps profile includes a 'Join' button, an 'About' section describing the group's focus on ARS Census data, a 'Keywords' section, a 'Permissions' section stating the group is public, and a 'Members (3)' section with three member icons. The footer contains links for 'Powered by GeoNode', 'Need Help? Help', 'For Developers', 'About ANZSR', and 'ANZSR Terms of Use'.

spatialmarketplace.net.au/groups/group/numaps/

Discover - Innovate - Publish

DSE_Vic | Change password | Log out

Home Search Resources Maps Publication Global Statistics Statistics Profiles Groups Help About

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About

This group is for people interested in accessing ARS Census data in the form of DemographicDrapes or Thematic Map overlays. Access to these overlays is via industry standard APIs. These include GGC, WMS, WFS and WMTS protocols.

Keywords:

Permissions

This group is **Public**. Anyone may view data and maps and join this group.

Members (3)

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ANZSM: platform partners

- ▶ Platform partners not directly involved in ANZSM, but contributing to, and benefiting from the Open Source implementation
 - ▼ World Bank
 - ▼ Harvard WorldMap
 - ▼ MapStory
 - ▼ TsuDAT
 - ▼ OpenDRI



Platform development pipeline: 0 – 4 months

- ▶ Social features for ANZSM committed back in to core
- ▶ GeoNode Community investing in code clean up, testing and integration, and in scalability/availability)
 - ▼ New GeoNode features:
 - pushing the boundaries of theming/styling or resources
 - *easily customisable – layout & presentation of resources*
 - *easy to match – search criteria matched to Metadata (Complex / multi-part queries)*
 - Annotations: ability to mark up maps with additional content
 - ▼ *Time enablement. Ability to create animations and display time based data with time sliders.*
 - ▼ *Improved resource uploading for Publishers – including ability to drag and drop files to publish*



Platform development pipeline: 4 – 9 months

- ▶ *Full user interface review for publishers and acquirers*
- ▶ End user ability to customise: overall aesthetic and process/workflow personalisation.
- ▶ WFS Improvements:
 - ▼ GeoNode versioning capabilities via GeoGit project to allow users to upload and edit data, track changes and roll back
- ▶ Offline GeoNodes: perform operations without a connection to internet/server.
- ▶ *Federation of data (resources and metadata), to provide a wider access to global resources*



Platform development pipeline: 9 – 15 months

- ▶ *Greater ability for resource markup*
- ▶ *Improved raster handling, HTML5 raster manipulation*
- ▶ Quantiles/equal intervals in vectors to permit complex querying
- ▶ *imagery exploitation tools for data analysis and visualisation*
- ▶ *Scalability improvements for GeoServer*
- ▶ *Flexible security framework for GeoServer*
- ▶ Security model to support OpenID
- ▶ *Single Sign-On: OpenID and LDAP integration*
- ▶ *Server redundancy for GeoServer scalability and performance*



Platform development pipeline: 9 – 15 months

- ▶ *Upload of multiple formats: e.g. File Geodatabase, KML and CSV back into GeoNode*
- ▶ *Advances on mobile toolkits and mobile formats*
- ▶ *GeoProcessing*
- ▶ *Web Processing Service (WPS) plus integration with GeoScript*
- ▶ *'WPS Pipes', a javascript GUI interface similar to 'model builder' to create new processes graphically*
- ▶ *3D support in GeoServer and PostGIS*



Broadening the collaborative opportunities

▶ Collaboration on Spatial Marketplace

- ▼ What are the opportunities for broader evaluation, cooperation, collaboration or co-investment in the Marketplace model?

▶ Current participants:

- ▼ The eight governments of the Australian States and Territories, and the governments of Australia and New Zealand, through ANZLIC and PSMA Australia
- ▼ The Cooperative research Centre for Spatial Information
- ▼ The Spatial Industry Business Associations of Australia and New Zealand
- ▼ Discussions with World Bank

▶ No impediment to broader collaboration or participation



Broadening the collaborative opportunities

▶ Collaboration on the platform

- ▼ What are the opportunities for broader evaluation, cooperation, collaboration or co-investment in the OpenGeo Open Source stack?

▶ Current participants:

- ▼ ANZSM
- ▼ World Bank
- ▼ Harvard WorldMap
- ▼ MapStory
- ▼ TsuDAT
- ▼ OpenDRI

▶ Clearly, under the Open Source model, no impediment to broader collaboration or participation



Invitation to collaboration

- ▶ An open invitation to collaboration or participation:

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- ▶ Contact may also be made through sector partners:
 - ▼ Cooperative Research Centre for Spatial Information
 - ▼ PSMA Australia
 - ▼ Spatial Industry Business Association