



The Power of Collaboration Culture Case Studies

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Run Sheet

- Collaboration within Government past and present
- The accidental enabler
- Collaboration Case Studies
 - Elevation Collaboration
 - Placenames Collaboration
- A future of working together
- Your involvement and opportunities
- Questions.

Collaboration Change & Drivers

“We don’t have to collaborate”

“Please feel free to use our learnings and documents, but we are not changing.”

“Your collaboration sounds like more work for me.”

..Then things started to change



Collaboration Change & Drivers

Shrinking budgets

Less staff

advances in technology

Demand for data

No longer can we afford to be an island anymore

but;

How do we change? What is the mechanisms and what is the carrot to change?

The Accidental Enabler

To collaborate effectively you need something that enables this.

The two cases studies I am talking about today rely on a simple infrastructure called.....

“EleVation Information System”

Or

“Enhanced Location Value InfrastructureS”



Elevation Case Study

ELVIS

www.ga.gov.au/elvis/

Australian Government
Geoscience Australia

ELVIS - Elevation Information System

Version: 1.0.4

Enter a location

Indonesia

Papua New Guinea

Australia

Indian Ocean

Tasman Sea

Coral Sea

Great Australian Bight

Lat -34.08996° Long 170.24414°

500 m

Google

Map Data © 2018 Google, © 2018 Airbus, © 2018 CNES, Imagery © 2018 Airbus, TerraMetrics, Terms of Use

Available datasets

- ▶ **SRTM-derived 1 Second Digital Elevation Models Version 1.0**
The 1 second Shuttle Radar Topography Mission (SRTM) Digital Elevation Models Version 1...
- ▶ **DEM SRTM 1Second Hydrologically Enforced**
This Service represents the National Digital Elevation Model (DEM) 1 Second Hydrologically...
- ▶ **5 metre Digital Elevation Model (DEM)**
The Digital Elevation Model (DEM) 5 Metre Grid of Australia derived from LIDAR model repr...
- ▶ **25 metre Digital Elevation Model (DEM)**
The Digital Elevation Model (DEM) 25 Metre Grid of Australia derived from LIDAR model rep...

The Shop, The Warehouse and The Factory

- Data Storage and Packages Orders
- Reporting and Statistics



- Collects order instructions to send to warehouse

- Email Delivery via a link
- Reporting
- Links to Users

- Transform Data
- Clip
- QA incoming data from Suppliers
- Inventory of what's available for the shop
- Builds packages for the warehouse

The ELVIS Infrastructure



ELEVATION.FSDF.ORG.AU

Elevation - Foundation

elevation.fsdf.org.au

ELVIS - Elevation Foundation Spatial Data

Version: 0.1.0

Contributors

Download Help Glossary Reset

Select an area...

Selected bounds: 150.0293° west, -28.3044° north, 151.1719° east, -29.0754° south

NSW Government (Showing 1,561 of 3,250)
Spatial Services
Point Clouds
Select all AHD (Showing 1,561 of 1,561) [show list]

QLD Government (Showing 391 of 782)
Point Clouds
Select all AHD (Showing 391 of 391) [show list]

Geoscience Australia (Showing 4,886 of 7,300)
Point Clouds

500 km

Lat -34.8138° - Lng 163.82513°

Collaboration Critical Elements

Infrastructure – ELVIS



- Demonstrated working model/solution
- Minimal cost
- Timely Delivery of Big Data
- Linkage to Users
- Reportable use of data
- Strongly common data standard and format

PCTI (Permanent Committee for Topographic Data)



- Connection
- Communication
- Common and Realistic Aim/Goals
- Retain importance/profile
- Inclusive

Elevation Collaboration Benefits

Per Month

- Approaching 4000 orders
- ~40 terabytes of free data to users
- Significantly Reduced cost and time of Supply
- ~60 million dollars worth of data available

Every Jurisdiction has committed to eventually have a presence. (8 entities)

Reporting and Statistics

- Now have a new picture of who our data users are.
- Soon will survey Users to built a better idea of the benefits they have realised from our collaboration.

Placenames Case Study

Different to Elevation

- Not a large dataset in comparison
- Long History of Collaboration in Producing the Gazetteer Of Australia
 - More than 250,000 Official Names of Australia and Territories
 - Product built of the PCPN – Permanent Committee for Place Names – Another ICSM committee
 - The name of a place is fundamental to spatial
- The first vector dataset we have applied ELVIS

Placenames Case Study

Gazetteer of Australia didn't meet the modern requirements places on it

- Took 6 months to update due to difficulties mapping feature types between jurisdictions
- Was fundamentally a “non-spatial” spatial dataset delivered as a table
- Update Frequency was anything from 2-5 years
- Limited Resources to update

PCPN Identified it needed to change how we operated in this space.

- Spent 2 Years ago PCPN set about developing common feature definitions, which allowed for easy mapping between jurisdiction.
- Not necessarily changing their own data, but understanding and defining the mapping across to a national view.



Placenames Case Study

Little did PCPN know what they were creating with a common feature code mapping.

- Now they had a way of developing a national data view
- Jurisdictions didn't need to change their working datasets to collaborate.

With that Knowledge and having an access already to a Collaboration Infrastructure.

Placenames had the potential to easily facilitated a supply chain that allowed an almost instantly updated National View of data, based on unique jurisdictional data

Placenames FSDF - Beta

Place Names - Foundation Spatial Data
Composite Gazetteer of Australia


Version: 0.1.2
Contributors

Go to Antarctic view

Search results (Found 111 features) Show searched area Reset Help

Match by feature name: Clear Search Results

Matched 111 features, showing 50 (Load more) Download... Clear results



Bethlehem Lutheran Church Record ID: SA0042084

Authority	SA
Feature Type	CHURCH
Category	PLACE OF WORSHIP
Group	CULTURE
Supply Date	23/10/2017
Lat / Lng	-34.92661° / 138.60697°

Adelaide Technical College Record ID: SA0000273

Authority	SA
Feature Type	FURTHER EDUCATION
Category	EDUCATION
Group	SOCIETY
Supply Date	23/10/2017
Lat / Lng	-34.924° / 138.61039°

St Paul's Anglican Church Record ID: SA0041678

Authority	SA
Feature Type	CHURCH
Category	PLACE OF WORSHIP
Group	CULTURE
Supply Date	23/10/2017
Lat / Lng	-34.92671° / 138.60608°

Market Facade Record ID: SA0041271

Authority	SA
Feature Type	MARKET
Category	BUSINESS
Group	CULTURE
Supply Date	23/10/2017
Lat / Lng	-34.92322° / 138.60688°

300 m

Lat: -34.92990° / Lng: 138.61032°

Leaflet | Map data © Geoscience Australia and contributors

Placenames Benefits (future)

Per Month

- Yet to be release – so coming soon

Every Jurisdiction has committed to eventually have a presence. (9 entities)

Data is the most up to date national view available.

User Focused Delivery Formats

Reporting and Statistics

- Who are the users?
- How do they want to interact with the data?
- How do users want the data?
- Soon will survey Users to built a better idea of the benefits they have realised from our collaboration.

Collaboration - Where to now

Collaboration has been shown to work. We can work together to bring huge benefits to Australia.

Where to now.

- Aerial Photography
- Surface Water
- Any Vector Data Theme...Maybe? Depends on Collaboration!!!

Allows us also to start more focus on the user? Their experience and how they want data.

Local Govt, Industry? Public good?

The Collaborators – So Far



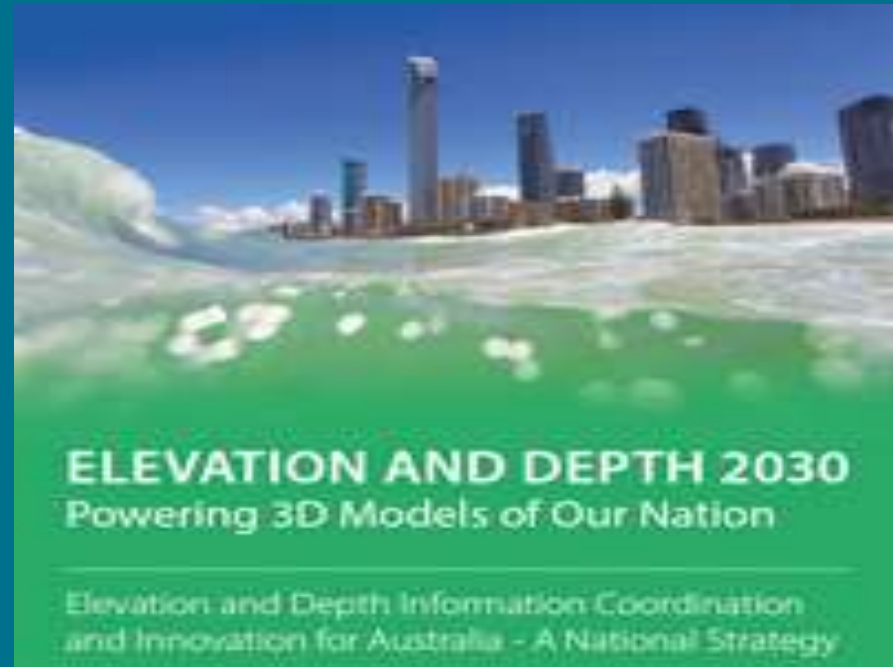
All this is built on people working together. Not because they had to, but because they wanted to.



The Power of Collaboration Culture

YOUR FEEDBACK

[HTTP://WWW.ICSM.GOV.AU/WHAT-WE-DO/PERMANENT-COMMITTEE-TOPOGRAPHIC-INFORMATION/ELEVATION-DATA](http://www.icsm.gov.au/what-we-do/permanent-committee-topographic-information/elevation-data)





Australian Government

Geoscience Australia

The Power of Collaboration Culture

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Thank You, Any Questions?

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