Spatial Vision

Building Spatial Capabilities in Local Government

2017

Local Government
Spatial Reference
Group

2017 Local Government Capability Workshops

- Future for the geospatial industry
- UAV's – who is using them and why
- Open Data – what are you missing out on
- Your local challenges
- 2026 Action Plan
- Update from DELWP LUV
- Good Practice Framework – review outcomes

Benalla - 16ᵗʰ May

Name	LGA
Barrett Higman	Alpine Shire
Bethan McKay	Moira
Di Brock	Strathbogie
Fiona Spencer	Strathbogie
Robert Graves	Mansfield
Chris Rootsey	Towong
Jarryd Hunter	Shepparton
Stephen Firms	Wangaratta
Jane Kaye	Wangaratta
Jenny Levy	Benalla
Robert Milton	Benalla
Paul Drummond	Woodonga
Tim Clarke	Indigo Shire

Total of 13 participants

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Melbourne – 18th May

Name	LGA
Alexis Qiao	Warrnambool
Chrissy	Bayside
Gerry	Stonnington
Surag Kulkarni	Kingston
Tim Warfe	Colac-Otway
Juan Pufleau	Frankston
Emma James	Frankston
Kim Quach	Whittlesea
Neil Adamson	Mitchell Shire
Nikki sacaner	Bayside
Rob Ellis	Glen Eira
Steve Ryan	Melton

Total of 11 participants

Ararat – 24th of May

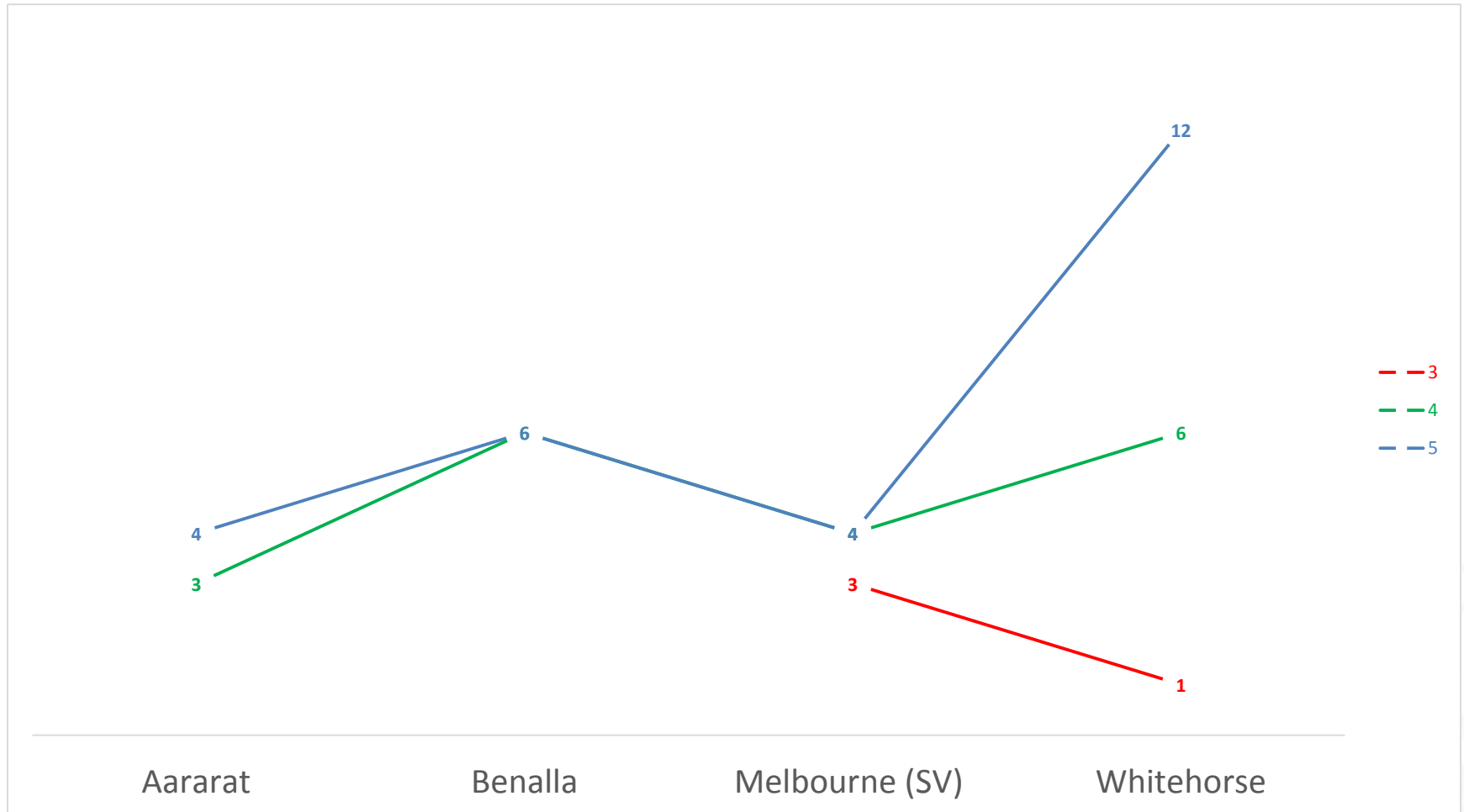| Name	LGA
Sandra Guy	Swan Hill
Bruce Ed	Mildura
Diane D	Central Goldfields Shire
Nick Hendriks	Southern Grampians
Libby O'Callaghan	Northern Grampians
Lettie Korf	West Wimmera
Trudie Holland	West Wimmera
Kelly Kong	Loddon

Total of 8 participants

Nunawading – 26th May

Name	LGA
Belinda Masskant	Monash
Courtney Leigh	Monash
Anne Q	Monash
Shaun Martin	Yarra City
John Cole	Yarra City
David Hassett	Melbourne City Council
Greg Dunmill	Moreland
Aloysius Thoonen	City of Greater Dandenong
Milind Joshi	City of Greater Dandenong
James Blythe	Wellington
Jeanette Paoletti	Whitehorse
Gregory Day	Whitehorse
Siobhan Matthews	Baw Baw Shire
Matthew Driessen	Baw Baw Shire
Mike Johnston	Melton
Stuart McDougall	Maribyrnongy
Will McIntosh	Melbourne City Council
Zoran Kosanovic	City of Boroondara
Jamie MacKinney	Knox City Council
Jon Wright	Knox City Council
Ravi Vasagar	Knox City Council

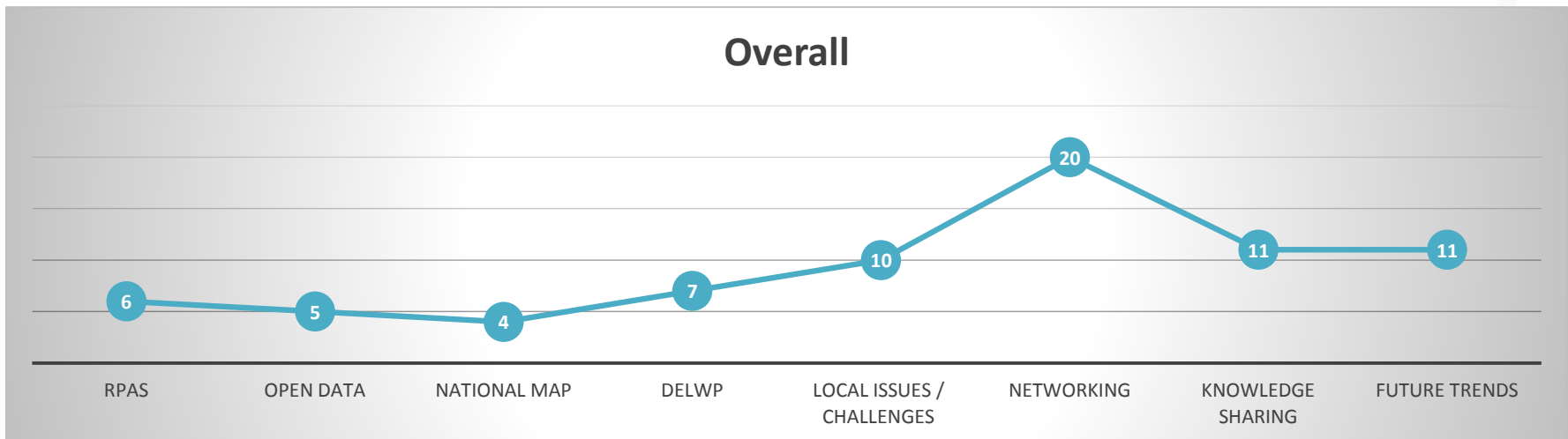Total of 21 participants

Overall – "How useful was the workshop?"

Best Parts

Session	Benalla	Melbourne	Aarrat	Whitehorse	Overall
RPAS	2	2	1	1	6
Open Data	1	1		3	5
National Map	2	1		1	4
DELWP		3	1	3	7
Local Issues / Challenges	2		2	6	10
Networking	5	6	2	7	20
Knowledge sharing	4	3		4	11
Future Trends	3	1	3	4	11

Overall

Change / Improvements

- More workshop activities (more chance to discuss in small groups), include problem solving.

- Less presentation (esp. after lunch)

- More frequent workshops (twice a year)

- Opportunity to suggest agenda items

- MAV Representation

- Guest presentation from a Council on topic of interest

- Bring in senior leaders on topic of interest.

- For larger groups, open discussions do not work as well. When group is larger than 10 people, break into groups to discuss and then provide feedback to the room.

- What did we achieve? Set objective for the day early, and reflect on that at the end of the day.

RPAS

- **Drone**
- **Unmanned Aerial Vehicle (UAV)**
- **Unmanned Aircraft System (UAS)**
- **Remotely Piloted Aircraft System (RPAS)**

ZONE 55S   E 295 172.94 m   N 5 757 482.18 m   ELEV 2.71 m   20 m
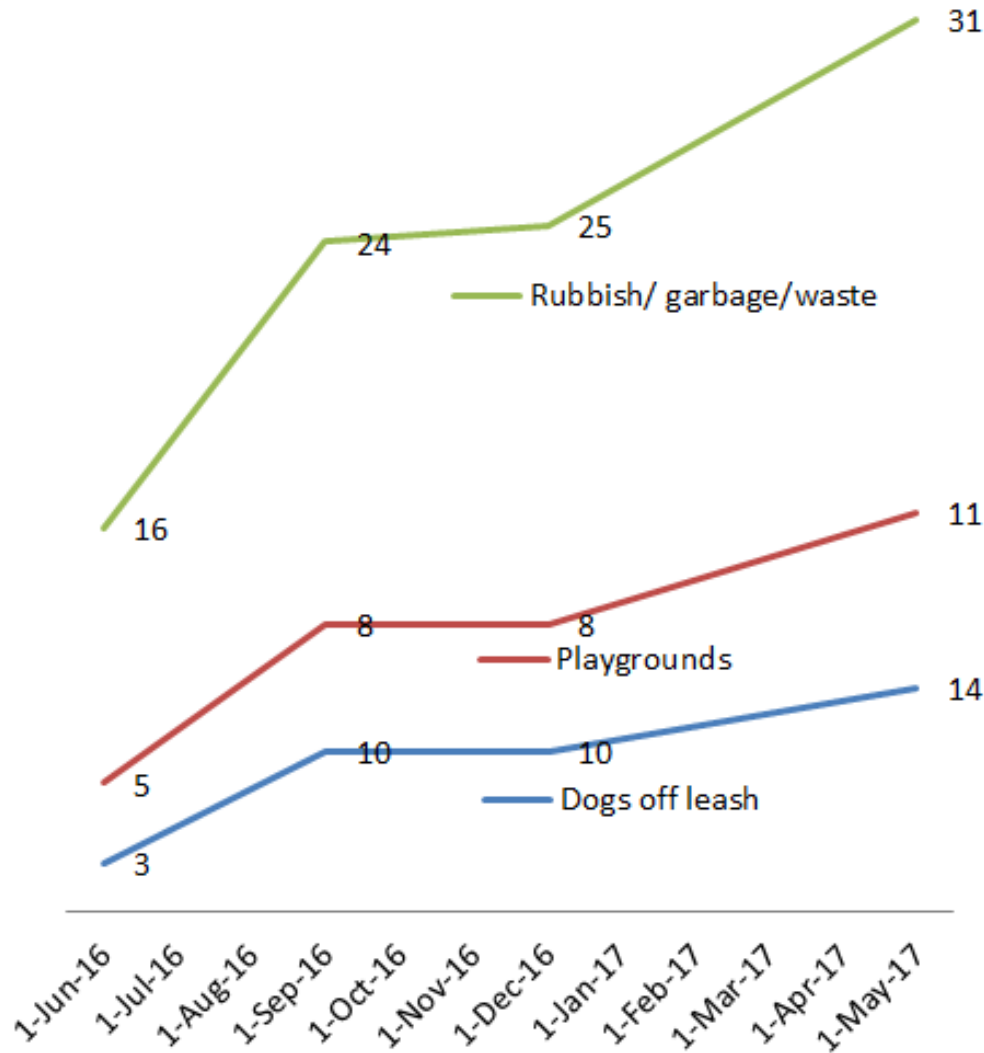
RPAS: Summary

- Lot of interest as demonstrated by survey and workshops although little work generating spatial data to-date
- Role for GIS Officers to promote effective data capture

Recommendations:

Action	How?
Create Checklist	LGSRG website
Share DELWP Panel	LGSRG website
Encourage sharing of lessons/tips	LGSRG website / Yammer?
Encourage DELWP to include in CIP	

Open Data and LGSRG Challenge

Open Data: Summary

- Many Councils still to publish open data, the only barrier is priority
- Lack of awareness of tools eg. scripts; common questions; how to upload data
- National Map well received, free albeit with limitations

Recommendations:

Action	How
Continue to promote the completion of the first 3 datasets	
Identify and promote next 3? (should be datasets already identified with 'open standards')	
Promote National Map, noting limitations	
Promote tools and upload 'how to' video's	OpenCouncil website host video's
Support funding application for Data Aggregation Platform	Smart Cities application MAV IT.

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Whole of property data capture

Development of "Food Portal"

What data exists?

Publishing historical information online (ie. roads/parks)

Getting IT on-board with open data.

How to balance operational and strategic tasks?

Linking disparate systems.

(property, assets, records, health)

Data (when to clean up older/unused data)

Get GIS involved at start of projects, not as an after thought

Challenges

Benalla - 16th May 2017

Metadata solution

Naming Audit (VicMap roads, signage, and new buildings)

Drainage Inventory

QGIS versus ESRI versus MapInfo

Launching IntraMaps for Public.

Collaborate with DELWP to add new datasets to VicMap, and influence data schemas?

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Mobile Apps

Enhance mobile data capture solution

(single solution for internal and contractors on android and iOS)

Developing mobile mapping process/application for asset inspection and reporting.

Resourcing

Less financial constraints to acquire aerial photograph (ie. Tenders and quotes)

Too many requests for development, data, maps, analysis. Under resourced.

Use of 3D data that we have.
Deliver 3D data in a usable way.

Frankston

3D

LiDAR

Start utilise the recently purchased LiDAR data (CIP) for planning and building applications ect.

LiDAR – Contours, spot heights, building footprints, solar panels and swimming pool data.

City of Kingston

Challenges

Melbourne - 18th May 2017

Data Management

Improve processes around provision of gifted asset/spatial data from developers.

(ie. Subdivisions)

Creation of building footprints dataset for 3,000km^2

Data maintenance and ownership

Public website

Improved web GIS presence on Council website.

(Firewall issues with ArcServer)

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Other

GIS Training

Funding shortfalls

Time constraints (double function)

Automated M1s

GDA2020

Integration

Data integration between different and new Council systems especially as 'cloud' becomes more of a focus.

Mobile data capture on any device syncing into AMS.

Challenges

Ararat - 24th May 2017

Project Management

Integrated project management (where gis is involved)

To obtain a level of understanding and acceptance that good data management and custodianship underpins good decision making through all corporate systems (inc. GIS). This should be at all levels of the organisation.

Recognising the importance of all spatial data and how it is primarily the key to a majority of Councils Communication and objectives within the own organisation and primarily throughout the State.

Data Management

Data Management and data cleaning program.

When changes in Road names / or new road names and Rural addressing processes. Can there be an instantly update?

Other

Tree Canopy Mapping and Monitoring Via Remote Sensing.
- Methods and costs
- One off versus Ongoing
- Regional coordination

Capital Works projects in GIS?

Land Use and Infrastructure Planning

Displaying data across multiple devices

Metadata

Co-develop a clear and accurate corporate metadata framework/system

How do other councils manage their metadata?
- Storage
- Display

Challenges

Whitehorse - 26th May 2017

Data Management

Promote responsibility back to PM of Location, Start – End date etc.

- Governance of Data
- Quality of Data
- Understanding of Data
- Integration of Data

Mobile data capture

Infrastructure Assets, maintenance update.

Data Custodianship
- Training
- Data Quality

Data Quality issues in key corporate systems.

3D model maintenance (apart from developer supplied models)

How long to keep data for storage space?

Through Business Unit Engagement sessions we hope not to duplicate data acquisition within council.

Core Business / GIS Culture

Spatial Technology to become integral part of organisational strategies.

To change the culture so that location is considered in all decisions and projects.

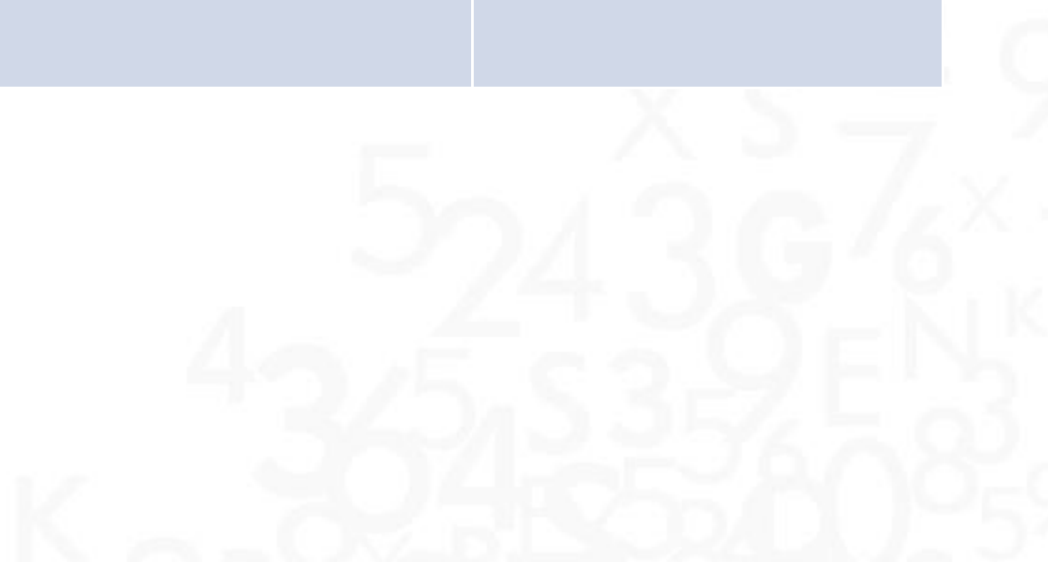Relaying technical information to a general audience.

Increased recognition/understanding of GIS by immediate manager and Directors.

Management understand the power of GIS

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Your local challenges – Recommendations

Action	How

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- Work Integrated Learning
  - experience – min 8 weeks
  - Free – signed RMIT agreement inc insurance
  - or Paid as contractor
- Contributing to skilling up the future workforce
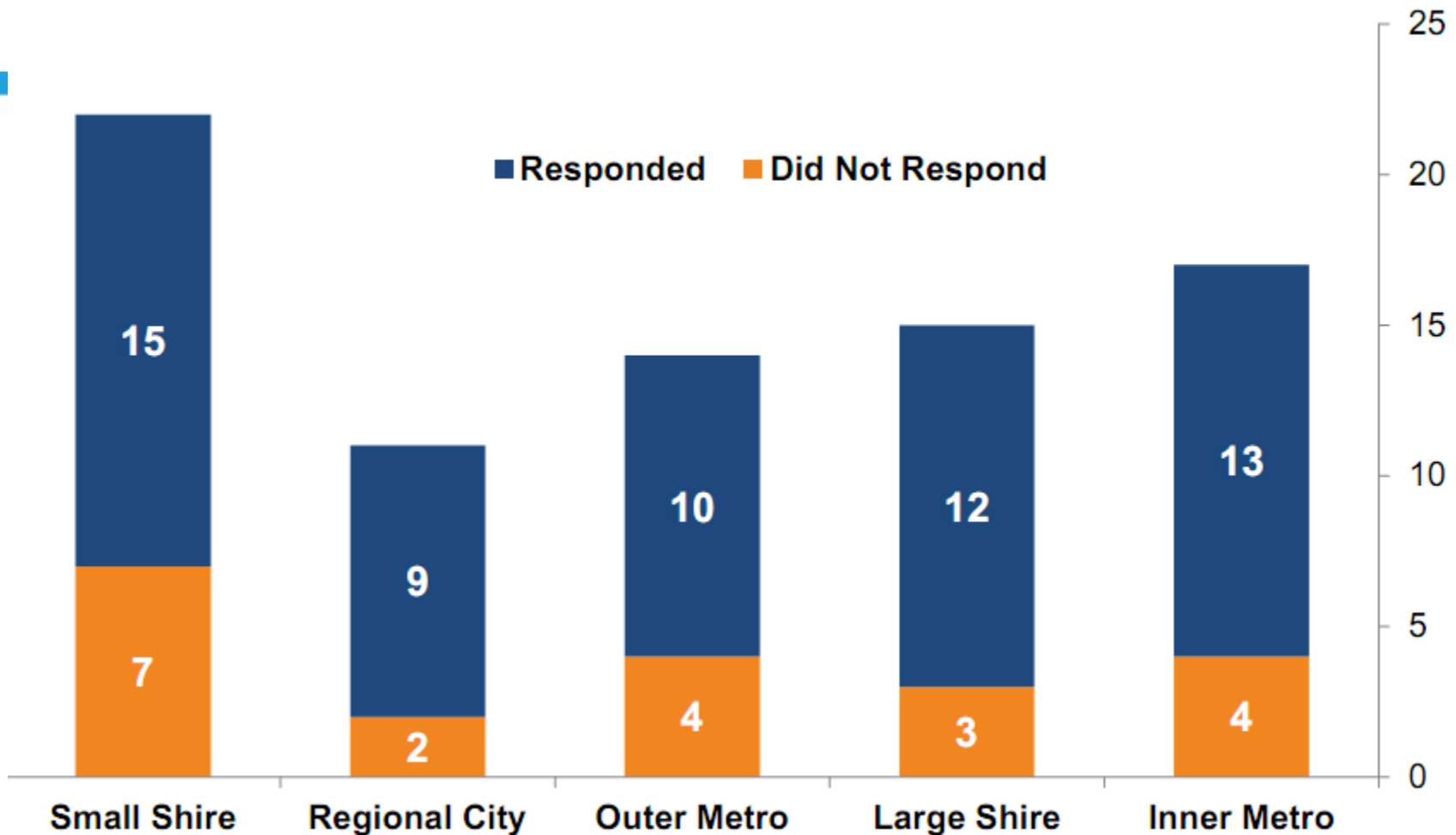
Your WIL Coordinator

Name: Robert Este

Position: Industry Engagement Advisor, RMIT School of Science

Email: robert.este@rmit.edu.au or science.wil@rmit.edu.au

Tel: 03 9925 3216

RMIT UNIVERSITY

Figure 1 - Breakdown of participating and non-participating councils by classification

60 responses to 2016. There 63 in 2015.
Of the 60 responses, 33 were paid Councils.
4 Paid but didn't complete

Good Practice Framework – Recommendations

Action	How
Supply previous years survey results to allow GIS officer to review what they said last year and comment on the change.	
Supply the survey to a GIS@council.gov.au email address to ensure someone at council will pick it up.	

Pillars

A — Public Infrastructure and Analytics
Nation-wide coordinated open access to public spatial information and to analytic tools

B — Innovation and Entrepreneurship
Developing creative business models to open up new markets

C — Outreach
Raise the profile of the spatial sector

D — Research and Development
Create a nation-wide, coordinated, collaborative and focused spatial R&D agenda

E — Education, Training and Capacity Building
Provision of location-related training at all education levels

F — Representation
Spatial bodies that speak with one voice

Agenda 2026 – Recommendations

Action	How

Other issues raised

- Council requesting to join LGSRG and not receiving invoices from MAV
- MAV does not appear to confirm when an invoice is paid
- GIS officers unclear on payment status

Recommendations:

Action	How
Meet with John/MAV to clarify process and timing for message to all Councils regarding payments, requesting invoices, status of payments	Set up meeting to confirm process. LGSRG and MAV
Implement shared registered of payment status	