

21 Years of EMSINA National

Meeting Summary Document - WA June 2023









Meeting Agenda

Meeting Minutes

Meeting Actions

<u>Jurisdictional</u> <u>Reports</u>







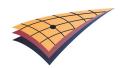
<u>Presentations</u>
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Meeting Overview

Meeting Dates: Tuesday 20 and Wednesday 21 June 2023

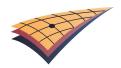
Host(s): Rod Nowrojee and Brett McGregor (Dept. Fire and Emergency Services - WA)

Location(s): Nambeelup, Western Australia

Chair Name: Primary Chair: Simon Webster (Qld)
Support Chair: Ryan Lawrey is in Canada on OS deployment
Fill in Chair: Naomi Withers (Vic)

Secretariat Name: Kane Orr (GA)

		Member and Agency Attendance		
p = physical attendance, o = online attendance				
Meeting Attendees:	ACT	Steve Forbes (ACT Emergency Services Agency) - P;		
	NSW	Chad Ajamian (Service NSW) - P; Gurrminder Saini (RFS NSW) - P; Julianne Leslie (Police NSW) - O; Melissa Daley (SES NSW) - O; Natalie Hill (Service NSW) - P; Peter Verwey (SES NSW) - O; Steve Parker (Dept Env Parks and wildlife NSW) - P;		
	NT			
	Qld	Andrew Drazek (Enery QLD) - P; Nick Moss (QPS) - P; Peter Timmers (QFES) - O; Simon Webster (QFES) - P;		
	SA	Nick Severin (DEW National Parks) - P;		
	Tas	Aaron Cashion (NRE Tas) - P; Adam Goodfellow (DPFEM Tas) - O; Brenda Lilley (DJCS) - O; Mark Brown (TAS) - O; Sam Ferguson (Fire Tas) - O;		
	Vic	Naomi Withers (DECA) - P; Teena Speirs (CFA Vic) - P;		
	WA	Aaron Thorne (DFES) - P; Brett McGregor (DFES) - P; Cat Timms (DFES) - P;		

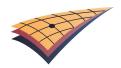


		Glenn Hall (DFES) - P; Grant Pipe (DFES) - P; Jared Ebrall (DFES) - O; Joel Toohey (DFES) - P; Kelly Scherbarth (DBCA) - P; Paul Rampant (DCBA) - P; Robert Lawry (DFES) - P; Robyn Parker (DFES) - P; Rodney Nowrojee (DFES) - P; Sarah Morrison (DFES) - P; Vicky Reynen (DBCA WA) - P; Yih Pyng Lee (DFES) - P;
	Federal	Angeline Prasad (BOM) - O; Brian Foo (AEC) - P; Damien Shearer (NEMA) - P; Deb Sparkes (AFAC) - P; Kane Orr (GA) - P; Kathleen Hirst (BOM) - P; Martin Brady (ACS) - O; Ross Henry (ACS) - O; Scott Muston (ARPANSA) - O; Shane Crossman (ICSM) - O; Shaun Copley (BOM/ACS) - O; Steve Taylor (NEMA) - P; Tyler Armstrong (NBN) - O; Yaba Odaro (NEMA) - P;
	Other	Ben Sharp (ESRI Australia) - P; Craig Carpenter (ESRI Australia) - P; John Hummelstad (Locatrix) - O; Kristopher Brown (Locatrix) - O; Lee Johnson (Locatrix) - O; Matthew Henry (Locatrix) - O;



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Meeting - Day 1

Meeting Introduction Items

Meeting Open Address, Host Housekeeping, Round Table Introductions

Introductions:

Chair welcomed all physical and online attendees, gave an overview of the meeting agenda

and then formally opened the June 2023 EMSINA Meeting.

Housekeeping:

Undertaken by DFES staff.

Meeting Opening Address:

Grant Pipe (Superintendent): Grant's background and his thanks to the people of the EMSINA Group for their efforts. Reflect back on data challenges (Kimberly Floods), lots of

agencies requiring data and capture and welcome to the Peel District.

Members Only Session - START

Item 1.1

Members Only Session - Last meeting Review

Presenters Name: Chairs

URLs: Minutes - Click Here

Notes:

All actions reviewed from the Hobart Meeting.

Actions:

Simon to contact Ryan Banks and get back to all members

Item 1.2 Members Only Session - This Meeting

Presenters Name: Chairs

Notes:

Round Table Introductions

Completed

Actions:

nil

Item 1.3

Members Only Session - Jurisdictional (Agency) Reports

Agency

View Reports

ACT:

ACT Emergency Services (Steve Forbes)



NSW: • Spatial Services (Chad)

Service NSW (Natalie Hill)

• Department of Parks and Wildlife (Steve Parker)

• Fire & Rescue New South Wales (Gurminder Saini)

NSW State Emergency Services (Peter Verwey)

NT: • -

Qld:

Queensland Fire and Emergency Services (Simon Webster)

Click <u>here</u> to view all Jurisdictional Reports

Queensland Police (Nick Moss)

• Energy Queensland (Andy Drazek)

• Department of Environment and Water (Nick Severin)

Tas: • NRA (Aaron Cashion)

Dept. Police, Fire and Emergency Management (Adam

Goodfellow)

Vic: • Country Fire Authority (Teena Speirs)

• DEECA (Naomi Withers)

• Emergency Management Victoria (Brenda Lilley)

• Department Fire and Emergency Service (Rod Nowrojee)

Parks and Wildlife Service of Department of Biodiversity,

Conservation & Attractions (Kelly Scherbarth)

Federal: • Bureau of Meteorology (Kathleen Hirst)

• Geoscience Australia (Kane Orr)

National Emergency Management Agency (Damien

Shearer)

Australian Electoral Commission (Brian Foo)

AFAC (Deb Sparks)

• National Broadband Network (Tyler Armstrong)

Australian Maritime Safety Authority (Giovanna Lorenzin)

• Department of Health (James Newhouse)

ARPANSA (Scott Muston)

Item 1.4 Members Only Session - Australian Climate Services Update

Presenters Name: Martin Brady and Ross Henry

URLs: • Presentations - click <u>here</u>

Notes: • ACS Overview - Vision and Purpose

• Partnership of GA, BoM, CSIRO, ABS

Work programs overview 0 through 4

Design and discovery phase: user engagement of the end users (platform roadmap).



- First deployment in April 2024.
- Data Catalog an essential part of the uplifts
- Engagement question from Victoria; who are the ACS talking too?
 - Concerns that the voices into ACS are not getting a chance to be heard at the right levels.
 - Queensland highlighted the COP issues taking 9 months to implement into their systems
- Jurisdictional Engagement
 - o Chapter 4 RC
 - Green light to engage with the State's and Territories
 - National round table engagements
- Climate and Disaster Risk Information discussion
 - Areas of focus: Data standards and harmonisation
 - Data sharing
 - o Integration and analysis
 - Leverage effort
 - o Platforms and ICT
 - o Governance and processes to collaborate
 - Communication and public release processes
- Bushfire Boundaries:
 - NBIC bushfire information to be fed into the NBIC capabilities
 - ICEYE GA Hazard Extents (Bushfire Extents)
 - Sharing data (Jurisdictions)
 - Flood Extents (extents)

- Aaron to have a discussion with Ross Henry re Tas concerns with ACS past requirements
- Ross to confirm with GA on the evaluation reports for Bushfire and Floods and get back to EMSINA.

Item 1.5 Members Only Session - Members

Presenters Name: EMSINA Committee

URLs: nil

Notes: • New Member Introductions

Departing Members

Actions: • nil

Item 1.4 Members Only Session - EMSINA Tabled Documents

Presenters Name: EMSINA Chairs



URLs: • Click here

Notes: • GA/NEMA email concerning EM-LINK

Actions: • nil

Item 1.5 Members Only Session - EMSINA Contacts

Presenters Name: Committee

URLs: • EMSINA - <u>contacts</u>

Notes: All contacts are reminded to please update their contact details through the EMSINA

Website's Members Area

If you are a new member please look at your introduction pack for details on how to do

this.

Actions:

• All Members to check their contact details and update if required

Item 1.6 Members Only Session - Proposed new membership structure

Presenters Name: EMSINA Committee

URLs: nil

Notes: • Issues:

 Size of the Group and venue accessibility, expense of holding meetings, carbon footprint, and duplication of travel

Proposed Solution:

 Kane presented a collation of a number different working group membership models

• Way forward:

• Members get back to Kane about their thoughts on the proposal.

Proposed Roll over date:

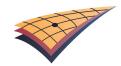
1 February 2024

Group TOR:

Update Terms of Reference and Website - for acceptance in December

Annually Updated:

Membership will be updated annually (ensure currency of memberships)



Group Items	Primary	Secondary	Primary Non-	Secondary	Affiliate
	Government	Government	Government	Non-	EMSINA
	EMSINA	EMSINA	EMSINA	Government	Member
	Member	Member	Member	EMSINA	
				Member	
Receive formal Invite to attend all Sessions of a	Yes	No	No	No	No
National EMSINA Meeting					
Receive formal Invite to attend Non-Government	Yes	No	Yes	No	No
Sessions of a National EMSINA Meeting					
Receive access to the EMSINA Contacts List	Yes	Yes	Yes	Yes	No
Receive access to the EMSINA Website's Members	Yes	Yes	Yes	Yes	No
Page					
Receive access to the EMSINA Google Drive and	Yes	Yes	Yes	Yes	No
Documents					
Receive Blog Posts	Yes	Yes	Yes	Yes	Yes
Receive EMSINA Newsletters	Yes	Yes	Yes	Yes	Yes
Receive EMSINA emails (other non-sensitive content)	Yes	Yes	Yes	Yes	Yes

• Membership to get back to EMSINA Committee with suggestions, clarifications and/or alterations to the proposed membership categories way forward

Item 1.7 Members Only Session - EMSINA at AFAC23

Presenters Name: Steve Forbes (ACT ESA)

URLs: • The 2022 AFAC Conference EMSINA Website: click here

Notes: • The EMSINA@AFAC website will be up in late July 2023.

• Esri Australia sponsors the AFAC booth plus marketing and lots of support.

• Lots of promotion thorough NRMA - Resilience Lane

• Last year's booth v this year's booth.

• Come and get help with your Esri problems section of the Booth

• Bring people to the Booth and get them to show them our wares

• Quick chats - lunchtime seminars will be part of the Booth program

Location history and access to data from the past (LGA's) - Nick Moss

Actions:

Any ESRI user cases to be sent to Steve for use at AFAC23

All Members: Send a photo or 3 COP and its Name to Steve.

• PDP - welcome any topic for presentation at the PDP

Members Only Session - END

Item 2.1 Lessons Learned 2023

Presenters Name: Teena Speirs (Vic CFA)



Notes:

- Teena split the Group into jurisdictions and requested that each group come up with points that covered 'what went well', 'what did not go well', 'what will be done better next time'.
- All products combined into one product which will now be analyzed by Teena and a storymap of the main points will now be produced for AFAC.

Activity URLS: Combined Product: Click here

Actions:

All Members asked to send through some photos that align to their key points put forward.

Item 2.2 National Bushfire Intelligence Capability and the ARDC Project Deliverables + ARDC Bushfire Historic Boundaries Project Update

Presenters Name: Naomi Withers (Vic), Kane Orr (GA),

URLs: ARDC Bushfire Project Storymap: click <u>here</u>

NBIC Presentation: click here

ARDC Project Webpage including access to National Dataset: click here

Notes:

Naomi & Kane re ARDC Work Package 1

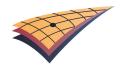
- QLD and NT identified as having partial or no capability in particular areas
- WA were not sharing data at the time of assessment
- Craig Carpenter found that identifying key accountabilities within states was an appropriate starting point to building both ownership and systems improvement
- Further ARDC gap analysis conducted around whether data was searchable, attributed, licenced appropriately, etc. also looked at alignment to data dictionary.
- Summarised at a high level about what is required for each state, followed by a deep dive into systems, interoperability, field data collection, desktop editing, web-based mapping, timeliness of data capture, how do they capture operational fire boundaries, satellite access, training, lead agency, etc.
- There are currently three states which require new systems built to have an integrated fire history. WA, Tas, QLD (Parks).
- The documents will be available via the members area of the EMSINA website, also via ARDC.

Kane re Work Package 2

- Thanks to Agnes.
- Available via ARDC website
- Now undertaking operational fire boundary data which is with PSG for consideration
- Due to be published alongside Fuels data by about October 2023.

Craig Carpenter re Work Package 3

Naomi, Ryan, Craig visited WA, QLD, NT



- Common themes emerged: Most jurisdictions had methodologies to capture content and share it. Often verbal agreements in place, but should be followed with formal sharing agreements which can transcend changes in management structures.
- Looking at opportunities to strengthen data workflows and pathways: eg in QLD expanding QLD Parks capabilities.
- Items discovered of concern, such as NAFI not having permanent funding to undertake their business.

Work Package 4

- 308,000 polygons comprising a harmonised fire history
- Dataset soon to be released within Digital Atlas of Australia
- Care around the caveats regarding numbers is important as "number of Fires" is a reportable element.

Work Package 5

- Burnt area mapping approach report has been completed
- First version is showing great promise, with detected extent is close to actual.
- Victoria is moving their GEE algorithm to the DEA sandpit.

Project has been extended, approval by ARDC as of 15 June 2023.

NBIC

- Run through CSIRO, sponsored by ACS.
- Contracts are now out, with GA picking up two projects.
- GA to pick up bushfire boundary near real time data.
- Project planning is largely complete for each of the activities
- Expect data agreements to be formalised to ensure their continuity. This will be run through Neil Cooper.

Note: As data has come in there are a lot of nulls in date fields. Currently thinking about how to fund that body of work to fill in.

Actions:

nil

Australian Electoral Commissions - GIS Journey and data requirements moving forward

Presenters Name: Brian Foo

URLs: Presentation: click <u>here</u>

Notes: • AEC background - elections, bi elections, referendums

Brian's background

• Operational Room - single point of information



- Older systems data rich
- Zero geospatial when Brian first joined
 - o 150 electorates
 - Hugh need for geospatial information in the business
- History of last Election and data
- Tracking readiness and readiness trackers
- Huge logistical undertaking to organise an election
- Emergency Management system for the agency required
- Reliant on the data feeds from a variety of sources
 - Spatial enabled EM system
- Power Bi Dashboard Snapshot example for Fadden By-Election
- Large funding to modernise the AEC data and infrastructure

nil

Item 2.4 DFES Facility Tour - Bushfire Centre of Excellence

Presenters Name: Grant Pipe (DFES Superintendent)

Photos:



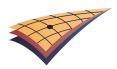






Notes:

• Highly recommend if you are in the area that you pop into the Bushfire Centre of Excellence and have a look.



Meeting - Day 2

Meeting Items Meeting Opened by Simon Webster (Chair)

Housekeeping: Undertaken by DFES staff

Item 3.1 BoM Standing EMSINA Update - Spatial Services

Presenters Name: Kathleen Hirst (BoM)

URLs: Presentation URL: click here

Notes:

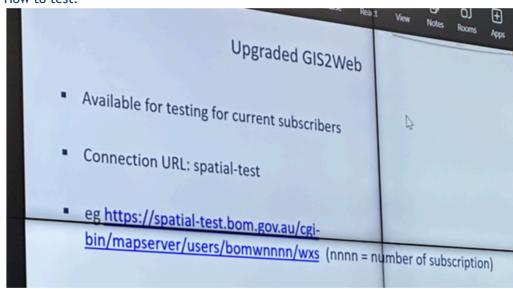
Major Project underway

• GIS2Web maintained and supported

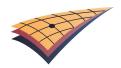
• Upgrade of hardware and software coming soon

In test mode on production servers

• How to test:



- Improvements:
 - o WFS2.0
 - Cleaner wrapper script
 - Upgraded OS and Mapserver Software
 - Connecting to Postgres/PostGIS database
- ARCGIS Online findings:
 - o Differences in Classic and Map Viewer
 - Testing undertaken and all differences listed in the presentation
- Listing of WMS Layers



- Arcgis pro
- ArcGIS Online Classic
- o ArcGIS Online map viewer
- WMS Legend
 - o Differences in legend between viewers and work around explained
 - Popups are still problematic
 - ArcGIS Enterprise (10.9.1)
 - Map Viewer does not support WMS or WFS
 - Some functions work in Chrome but not Edge
- GIS2Web Murray River in SA
 - Flood warnings and watches changed in preparation for flood warnings to be issued be BoM form Q3 2023
 - New files available on ftp... (See presentation)
- AFDRS
 - 4 day weather districts
 - 7 day subareas
 - Fire weather warnings
 - Time enabled coming after upgrade (coming soon)

 Testing of the BoM Services - please provide feedback of your experiences back to Kathleen.

Item 3.2 DBCA Drones - Using RPA imagery

Presenters Name: Paul Rampand (DBCA)

URLs: Presentation: click <u>here</u>

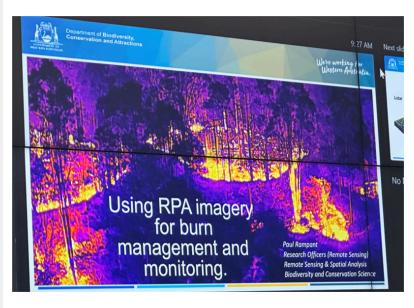
Notes:

- Two technologies:
 - o Lidar and Thermal
- Lidar DJI Matrice 300
 - Active sensors
 - Delivers heights and photos
 - o 240,000 pt/s
 - 2 return/pulse
 - o 200-400 pts/m2
- Tests on how much penetration is getting lost
 - Burn severity mid and lower stories
 - Canopy reflection
 - Correlate ground based measurements
- Updating fuels models letting the predictions down.
- Weather data is fantastic now!
- Fire Behaviour Thermal
 - Rates of spread, flame heights
 - Coming up with SOPs still
 - Only operating over Prescribed buns a the moments
 - Height 120m min height for manned aircraft 500ft.



- Directing to hotspots after the fire
- Strengths over aerial human observations
 - See through smoke
 - Final scale measurements
 - Night obs
 - o Human safety risk is low.

Photos:



Actions:

• Nic, Simon and Kane to discuss machine learning options within EMSINA and taking an active approach to the topic

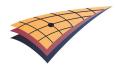
Item 3.3 ARDC / AFAC National Bushfire Fuels Aggregation Project

Presenters Name: Deb Sparks (AFAC) and Craig Carpenter (ESRI Australia)

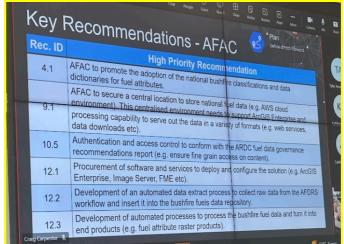
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Notes:

- Objectives of the Project (objective and vision)
- Centralise capability for fuel data
- Approach:
 - o Discover; data flows, common challenges, bus requirements...
 - Understand; future state and solution design
 - Plan; define a roadmap forward with related recommendations
- Common challenges and innovations from the workshops
 - Common threads
 - Large variations in capture methods
- Current State:
 - Fuel type
 - Grassland conditions and curing
 - Fire history and fire severity



- Fuel attributes
- Point fuel observations
- Fuel moisture and bark type sampling
- Current State Data flow diagram example
 - Craig walked the group through an example of how the data flows through the systems and onto the AFDRS
- Challenges:
 - Limited resourcing
 - Inconsistency within and between jurisdictions on how data is captures
 - Edge effects across boundaries between states
 - Roles and responsibilities for the capture and management of fuel data
- Opportunities
 - Improve funding and dedicated resourcing
 - Leverage tech to streamline and standardise processes
 - Facilitate national standards for data capture and collaboration
- Key requirements
 - Jurisdictions want to be in charge of their own destiny
 - Jurisdictional to use most appropriate scale for data submissions
 - Central storage of data
 - Implementation AFAC to coordinate the implementation of the overarching body.
- Future State Solution
 - Recommendations and future state diagram see presentation
 - Point fuel observations to be added into the future data flow
- Outcomes:
 - National Standards
 - Defined roles and responsibilities
 - Procedure Changes
 - 0
- Next Steps
 - Find a host for the data (key step)
- Recommendations:





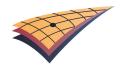
 Deb and Kane to have a discussion about where the History data sits and how it could be delivered

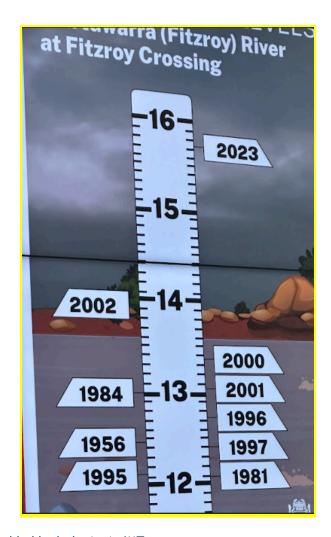
Item 3.4 Kimberly Flood Experience - end to end support process of floods and discussions

Presenters Name: Rob Lawry (BoM), Glenn Hall (DFES Metro Operations), Cat Timms (DFES Recovery), Rod Nowrojee (DFES Intel Systems)

Notes:

- Robert Lawry <u>Presentation</u>:
 - o BoM Senior hydrologist
 - Flood forecasts take to the agencies and what does that mean
 - o 2023 Fitzory River Floods
 - Caused by Ex-TC Ellie
 - Triggered peak flows
 - Exceed 1%
 - Challenges around mapping
 - Catchment description
 - Communities in the area of Fitzroy Crossing description
 - Soil moisture catchment was extremely wet moving into the wet season
 - o TC Ellie -
 - Brought a lot of rainfall
 - Major flooding
 - 4 days out forecasts were showing major event
 - 2 loops in the Fitzroy catchment and dropped a lot of rainfall without weakening
 - Fitroy Crossing became the concern
 - They knew it would be about a 1 in 100 event early on
 - Became apparent that it was larger than the expected height
 - Very collaborative approach from BoM to EM Services
 - Challenges in forecasting:
 - Peak height correlations
 - Off the chart calculations
 - Progression of floods going down the towns and settlements from Fitzroy
 - o Highest Peak flow in Australia
- Glenn Hall
 - Managing Remote Flood Event Kimberly <u>Presentation</u>
 - The response and recovery to the flooding in Fitzroy Valley Jan and Feb 2023.
 - Acknowledgements (important to be recognised)
 - Assistance from other states in 2022
 - Checking on communities once per year for preparedness



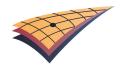


- Embedded hydrologist in IMT
- Asked for impact mapping around the community data did not exist
- Airplanes could not land at Broome to provision resources
- Damage to major infrastructure some severe
- 600 evacuations and rescues 85 damaged structures 251 RFA
- 121 washouts
- An incredible video of a damaged bridge and the abutment damage.
- Incident Appreciation
 - Issues with taking people off country needed to be resolved
- Operational Challenges
 - Process RDA
 - Required to change due to complexity
 - Effective use of that data
 - Size o the incident area.
 - Distance and limited resources
 - Heat and fatigue management



- Needs of the communities very divergent
- Management of resupply to communities
- RDA/RFA management process
- Resupply challenges
 - Defence moved nearly a million kilos of logistics during the floods
- Cultural Impact:
 - Evacuations Community off country
 - Impact to sites of significations
 - Responders welcome to country
 - Respectful liaison with community members throughout the area of impact
 - Translated languages into community warnings
 - Conducted in cultural acceptable manner
- Air Ops
 - 1388 Flight Taskings direct from Fitzroy Crossing
 - o 200 peak per day
 - Had to set up airport traffic control
 - Medical evacuations
- **Defence**
 - Joint task Force mobilised
 - Ground recon
- **Catherine Timms**
 - Data and Intel Coordinator State recovery Presentation
 - Imagery from 9th January
 - Still do not have a good understanding of the extent
 - Understanding Impact:
 - Built
 - Social
 - Natural
 - Economic
 - To date more than \$600m has been made for recovery this is expected to increase
 - Response State led recovery locally led
 - Over 40 agencies currently involved
 - Data from disparate organisation a challenge
 - Cultural lens over everything that is done.
 - Connection to community
 - Challenges
 - Validity and reliability of dataAboriginal land tenure

 - Disparity in methodology of property addresses
 - Data sharing and system interoperability
 - Community vulnerability
- Rod Nowrojee
 - Flood data experience Presentation
 - Ability to aggregate the information
 - Ability to transport understanding fast facilities collaboration
 - Innovation and problem solving for everything we do



- Data was relied upon extensively
 - What, where, how much, linking
 - The assumed knowledge that they knew where the water was
 - Iceye was fantastic but not the only solution
- How do you not miss something?
 - Local knowledge and human networks
 - Can data fit into this
 - Exposure by data
 - Start with a focus on building footprints
- Damage RDA and RFA one became the other sometimes
 - Revision of what is needed in this space
- Street Address
 - Many versions of address as a proxy for place
 - Don't reconcile to official
 - People can be one to many and many to one.
 - Carry that information through
- Response begin prioritize, tast and don't loose track
 - RDA / RFA = tasking
 - Tasking is more than address
 - Demonstrating effort needs reporting
 - Task (where an what)
 - Activities (effort, where people have been is a good proxy)
 - Summarise to map, dashboard, lists
- Two 'What if's' put forward to the Group...see presentation for details

Actions: • nil

Item 3.5 ICSM Metadata Working Group - EMSINA Project Update

Presenters Name: Shane Crossman (ICSM Executive Lead - Metadata) shane.crossman@ga.gov.au

URLs: Presentation URL: click here

Notes: • ANZMet Lite V2 is a metadata creation, edit and export tool

Enables recording of metadata statement against the ISO19115-1

• Important new features, ability to create metadata for datasets/products (dataset specific templates).

• ANZMet Lite V2 is built to allow stakeholders to build xml easily and guickly.

• Reboot EMSINA activities and complete steps 2 and 3 as described on EMSINA.org

Actions: • Descriptions of the EM Profiles to be sent around to the Membership ASAP



Item 3.6 Locatrix

Presenters Name: John Hummelstad, Kristopher Brown, Lee Johnson, Matthew Henry

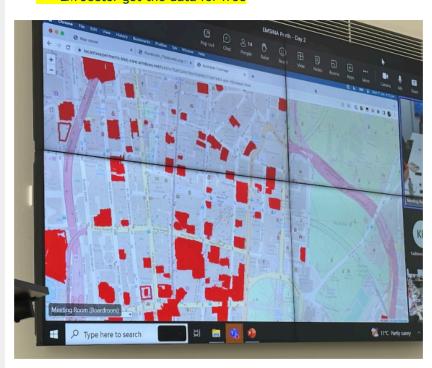
URLs: Presentation URL: no presentation provided

Company URL: https://www.locatrix.com/

Notes:

- Background of the company; Locatrix
- How to get out of buildings, show fire equipment, instruction on how to use it
- Mapping the indoor world, one evac sign a a time
- Plan Studio
- Square metres of maps of floor plans 35m to 70m in 12 months
 - Emergency plans
- Creating the digital thin-twin of the future
- Building a floor by floor view of a building through Plan Studio
- Matt spatial plan and repository
 - Floor plan example shown
 - Example of entry to the building
 - Example of hazardous information on a floor
 - o Brisbane Show Ground examples
 - Bitmap tiles
 - How many maps do they have?
 - Coverage is fairly extensive in Brisbane
- EM Sector get the data for free

Photos:





Simon to send around the contact details to Locatrix around to the membership

Item 3.7 DFES Air Operations

Presenters Name: John Landwehr (DFES Air Operations)

URLs: Presentation URL: click here

Notes:

- Electronic Flight Bag Components
- Simple mapping and imagery
- Sharing incident intel and other arial assets
- Accessing non-spatial information
- **EFB Limitations**
 - Physical work environment, combined, turbulent
 - Reliance on mobile data
 - Constantly changing improving 3rd party apps
 - Enterprise Firemapper Trial
 - 2019 in Tasmania
 - Trialed in the 2022 and 23 season
 - Additional capability for other assets
 - **FIRESCAN**
 - **FIREBIRD**
 - 15 licenses of Firemapper spread throughout the different roles
 - Lots of benefits about Firemapper Enterprise
 - Intuitive / user friendly tool
 - Nationally agreed fire symbols
 - Interfaces with other apps (ozRunways)
- Basemaps explanation
- Nambung example
- Hope Valley Example
- Involvement in the TC Iisa April 2023
- Future Development
 - Autoload from FESMaps to Firemapper
 - Auto load/display of other non-spatial info
- Yeal Nature Reserve Example
- Have a play with the Firemapper using this token

Actions:

nil

Item 3.8 EMSINA Other Business

Presenters Name: Committee

URLs: nil



Notes:

- A huge thank you to Rod, Brett and his Team for their hospitality whilst in Western Australia. Absolutely the most attended EMSINA Meeting ever held in WA.
- Attendees (online and physical) great attendance for the second meeting of the vears
- Next National Meeting click <u>here</u>
 - o December Adelaide, South Australia
- EMSINA Developers Workshop in Tasmania
 - o RSVP on the Website
- Meeting closed, safe travels home

Actions:

• Kane to make available the Adelaide RSVP details in September



Meeting Actions

	Meeting Actions
1	Simon to contact Ryan Banks (GIC Offer from Hobart)
2	 Aaron to have a discussion with Ross Henry - re Tas concerns with ACS past requirements
3	 Ross to confirm with GA on the status evaluation reports for Bushfire and Floods and get back to EMSINA.
4	All Members to check their contact details and update if required
5	 Membership to get back to EMSINA Committee with suggestions, clarifications and/or alterations to the proposed membership categories way forward
6	 EMSINA@AFAC: Any ESRI user cases to be sent to Steve for use at AFAC23 All Members: Send a photo or 3 COP and its Name to Steve. PDP - welcome any topic for presentation at the PDP
7	 All Members asked to send through some photos that align to their key Lessons Learned points.
8	 Testing of the BoM Services - please provide feedback of your experiences back to Kathleen.
9	 Nic, Simon and Kane to discuss machine learning options within EMSINA and taking an active approach to the topic
10	Simon to send DFES and thank you letter (Kane to help)
10	Kane to make available the Adelaide RSVP details in September