NSW GOVERNMENT | Spatial Services

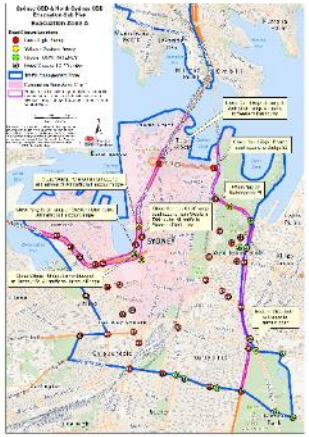
Emergency Information Coordination Unit, Spatial Services

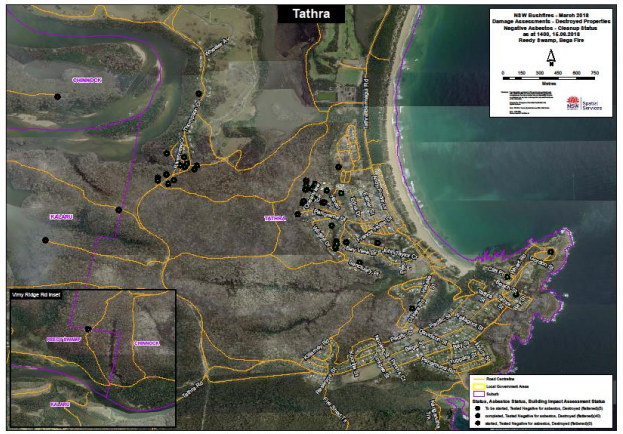
Who are the EICU and what we do?

Shaun Epe
Manager Client Services, EICU
(02) 8224 3633 or 0427 627 398

OVERVIEW

- **Emergency Information Coordination Unit (EICU)**
  Background; Objectives
- **Emergency Services Spatial Information Library (ESSIL)**
- **Spatial Information & Mapping System (SIMS)**
- **Buildings & Infrastructure Database**
- **Special Events**
- **Operational Support**





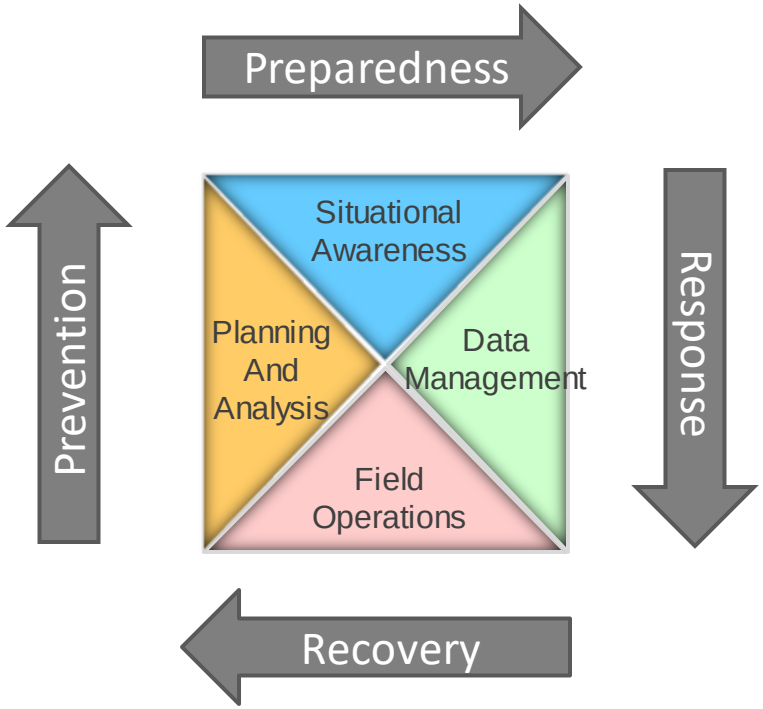
EMERGENCY INFORMATION COORDINATION UNIT (EICU)

Formed in LPI in 2002 to respond to the spatial information requirements of a Sep11 type event in NSW

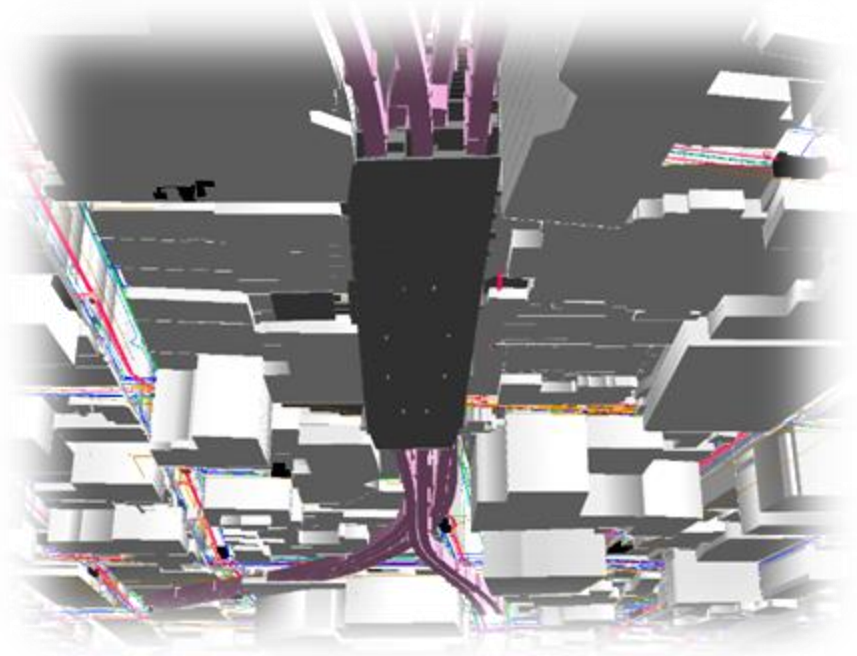
Role later extended to provide spatial information to all emergency service organisations, functional areas and local, state & federal agencies.

GIS IN EMERGENCY MANAGEMENT

GIS in Emergency Management:
What role does it play and where is it used?

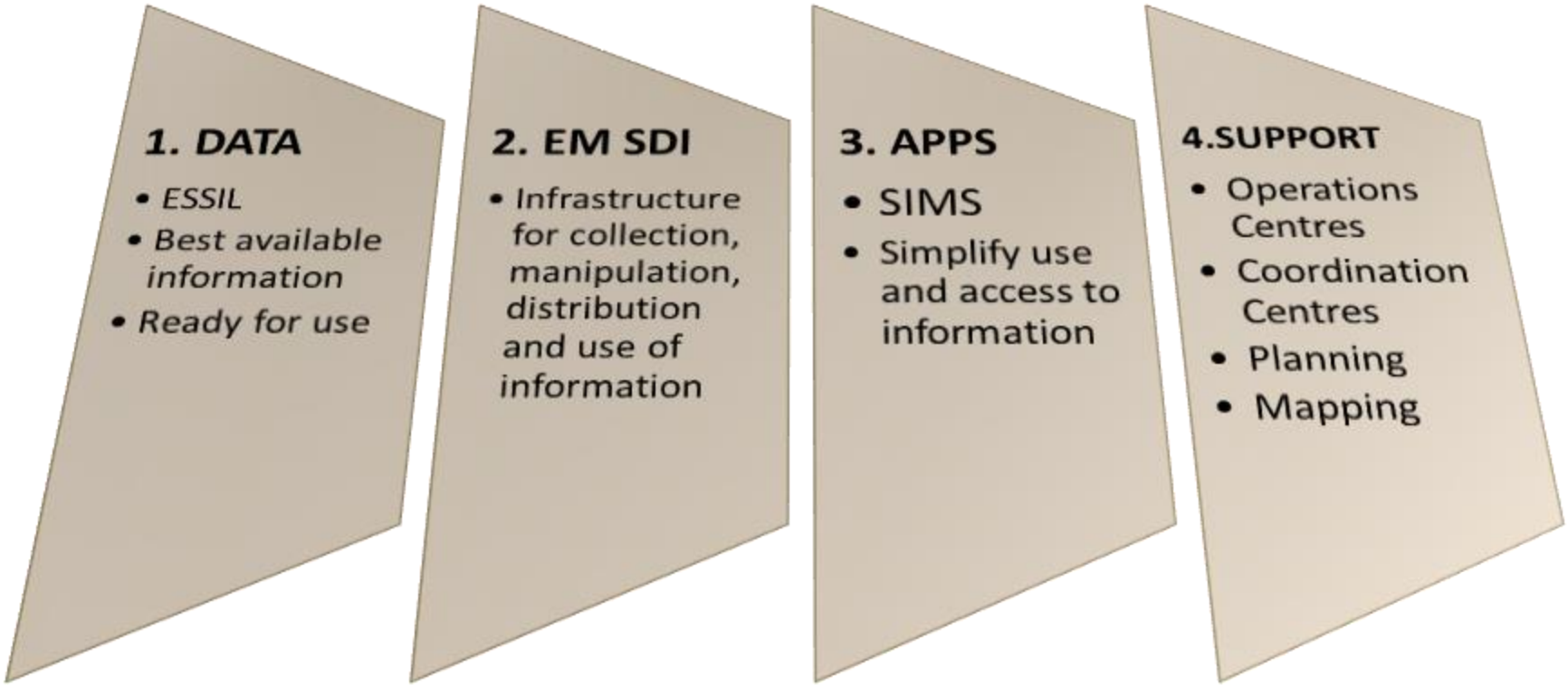


Minimise the impact of disasters on lives and properties

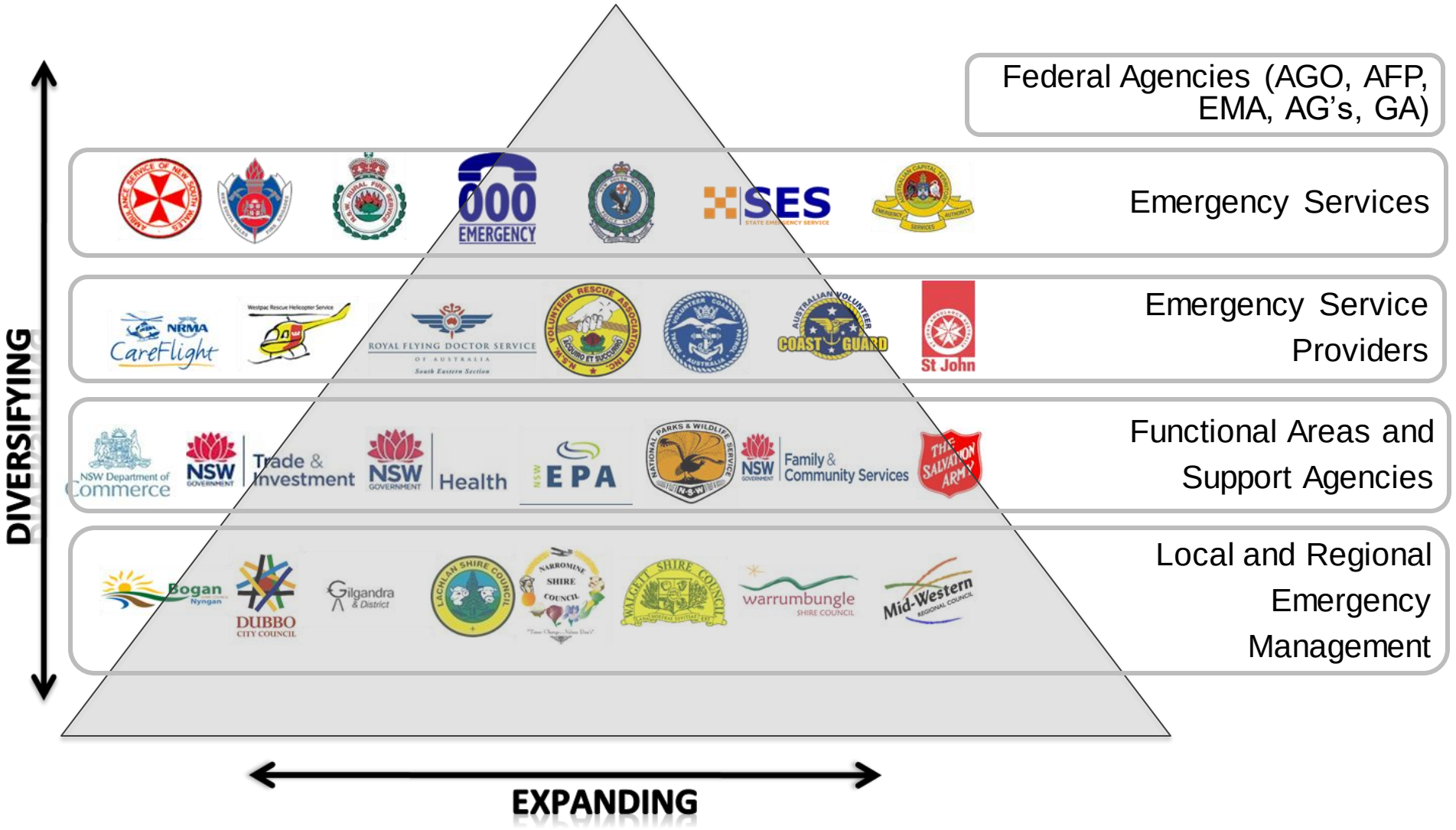


HOW EICU OPERATES

Promoting and supporting the best practice use of geospatial technologies in emergency management, counter terrorism and critical infrastructure protection



EICU PARTNERS & STAKEHOLDERS



ESSIL

EMERGENCY SERVICES SPATIAL INFORMATION LIBRARY

One stop shop for geo data... 350 seamless state wide layers...

- **Basemaps – Imagery & Topographic**
- **Communications – Telephone exchanges & cables**
- **Built Environment – Schools, Hospitals, Childcare, Buildings**
- **Persons at Risk – Aged Care, Schools, Childcare**
- **Hazards – Fire, Flood, Earthquake History, Bushfire Prone Land**
- **Emergency Management – Police, SES, RFS, FRNSW, VRA, Marine Rescue – Sites & Boundaries**
- **Location – Points of Interest**
- **Transport – Air, Road & Rail**
- **Environment – Vegetation, Soils, National Parks, State Forests**
- **Utilities – Water, Sewer, Stormwater, Electricity & Gas**

Up to date information from Source Agencies is extremely important. 6 monthly data supplies will benefit all users and the EM Sector

ESSIL OVERVIEW – September 2018

Source Data from Custodians

EICU DATA REPOSITORY on Informix

Transformed into:
- Same projection
- Same database
- Unaltered model
- Verified
- EICU metadata

STAGING DATABASE

95 Million features

Fit data into ESSIL Model

DELIVERY DATABASE

34 Million features

Export Data

DCDB 7.9 M

DTDB 8.3 M

GURAS 7.0 M

AAMHATCH	Clarence Valley Council	Heritage Office	NSW Ambulance	Sinclair Knight Merz
Albury City Council	Cobar Shire Council	Hornsby Shire Council	NSW Art Gallery	Singleton Shire Council
	Coffs Harbour City Council	Hunter Water Corporation	NSW Board of Studies	Snowy Mountains Hydro Electric Authority
	Conargo Shire Council	Hunter Hill Council	NSW Department of Commerce	Snowy River Council
	Cooma Monaro Shire Council		NSW Department of Community Services	State Emergency Management Commitee
Schools of NSW	Cootamundra Shire Council	Hydrographic Survey	NSW Department of Health	State Rescue Board
	Corowa Shire Council	Integ	NSW Department of Human Services	State Rescue Board
	Council of the City of Sydney	Inverell Shire Council	NSW Department of Industry and Investment	Sutherland Shire Council
	Country Energy	Jemena	NSW Department of Planning	Sydney Water
Bureau of Statistics	Cowra Shire Council	Jerilderie Shire Council	NSW Department of Primary Industries	Tamworth Regional Council
Australian Capital Territory	Data Australia	Kempsey Shire Council	NSW Dept of Education	TELSTRA
Australian Communications and Media Authority		Kiama Municipal Council	NSW Fire Brigades	The Hills Shire Council
Australian Electoral Commission		Kogarah Municipal Council	NSW Land and Property Information	Tourism NSW
Australian Museum		Ku ring gai Council	NSW Maritime	Transgrid
Australian Tax Office		Kyogle Council	NSW National Parks and Wildlife Service	Transport for NSW
Auswaus		Lachlan Shire Council		Tumbarumba Shire City Council
		Lake Macquarie City Council		Tumut Shire Council
		Leeton Shire Council		Tweed Shire Council
		Leichhardt Municipal Council		UBD
				Upper Hunter Shire of Councils
		Liverpool Plains Shire Council		Wagga Wagga City Council
		Maitland City Council		Wakool Shire
		MANLY COUNCIL	Pittwater Council	Walcha Council
		MapInfo	PSMA GNAF	Walgett Shire
Bogan Shire Council		Marrickville Council	QLD Dept of Education and Training	Warringah Council
Botany Bay City Council		Mid Coast Water	Railcorp	Warrumbungle
Bourke Shire Council		Moree Plains Shire Council	Randwick City Council	Waverley Council
Broken Hill City Council	Queanbeyan	Mosman Municipal Council	Richmond Valley Council	Wellington Council
Bureau of Meteorology	Goulburn Mulwaree Council	Murray Shire Council	Rockdale City Council	Wentworth Shire
Burwood Council	GPS Australia	Muswellbrook Shire Council	Rous County Council	Willoughby City
Byron Shire Council	Greater Hume Shire Council	Nambucca Shire Council	Ryde Council	Wingecarribee
Cabonne Shire Council	Greater Taree City Council	Narrabri Shire Council	Sutherland Shire Council	Wollondilly Shire Council
Camden Council	Griffith City Council	Narrandera Shire Council	Sydney Water	Wollongong City Council
Campbelltown City Council	Gunnedah Shire Council	Narromine Shire Council	TELSTRA	Woollahra Municipal Council
Canada Bay City Council	GURAS	Navigate	TMS	WorkCover Authority of NSW
Canterbury City Council	Gwydir Shire Council	Newcastle City Council	Shellharbour City Council	Wyong Shire Council
Catholic Education Commission	Hastings Shire RFS data	North Coast Water	Shoalhaven City Council	Yass Valley Council
Cessnock City Council	Hawkesbury City Council	North Sydney Council	Shopping Centres	Young Shire Council

WATER

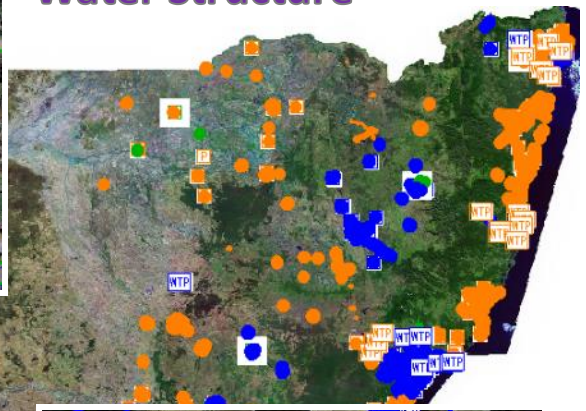
Albury City Council
Armidale Dumaresq Council
Ballina Shire Council
Balranald Shire Council
Bankstown City Council
Bathurst Regional Council
Bega Valley Shire Council
Bellingen Shire Council
Berrigan Shire Council
Blayney Shire Council
Bourke Shire Council
Byron Shire Council
City of Lithgow Council
Clarence Valley Council
Cobar Shire Council
Coffs Harbour City Council
Cootamundra Council
Corowa Shire Council
Cowra Shire Council
Deniliquin Shire Council
Dubbo City Council
Forbes Shire Council
Gilgandra Shire Council
Glen Innes Severn Council
Gosford City Council
Goulburn Mulwaree Council
Griffith City Council
Hunter Water Australia
Inverell Shire Council
Jerilderie Shire Council
Kempsey Shire Council
Kyogle Council
Land and Property Informatic

Water Treatment Plant

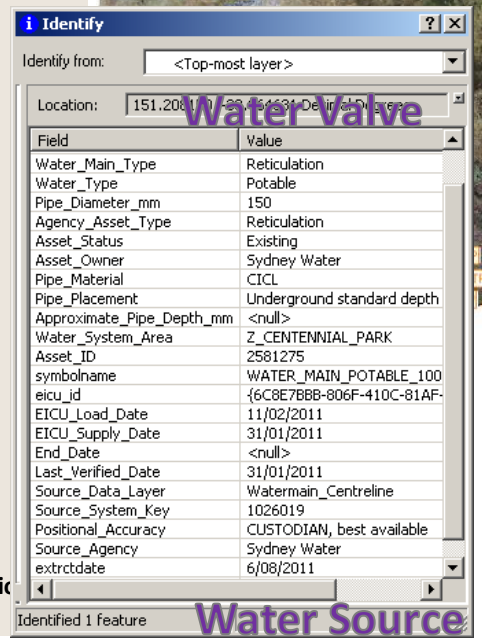
Water Main

Water Pumping Station

Water Structure



Water Valve



Water Source

Water Storage

Water Hydrant

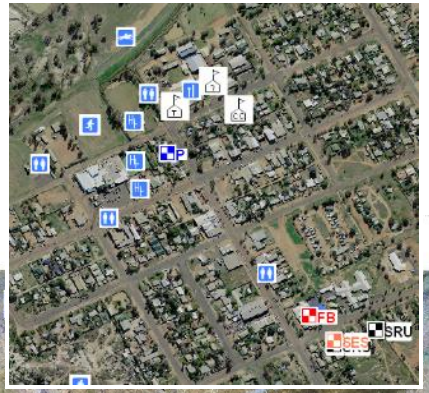
Leeton Shire Council
Lismore City Council
Liverpool Plains Shire Council
Mid Western Regional Council
Midcoast Water
Moree Plains Shire Council
Murray Shire Council
Nambucca Shire Council
Narrabri Shire Council
Narrandera Shire Council
Narromine Shire Council
Orange City Council
Parkes Shire Council
Richmond Valley Council
Rous County Council
Shoalhaven City Council
Singleton Shire Council
Snowy River Shire Council
Sydney Water
Tamworth Regional Council
Tumbarumba Shire Council
Tumut Shire Council
Upper Hunter Shire of Councils
Wakool Shire Council
Walgett Shire Council
Warrumbungle Shire Council
Wellington Council
Wentworth Shire Council
Wingecarribee Shire Council
Wyong Shire Council
Yass Valley Council
Young Shire Council

Water Canal

COMMUNITY FACILITY

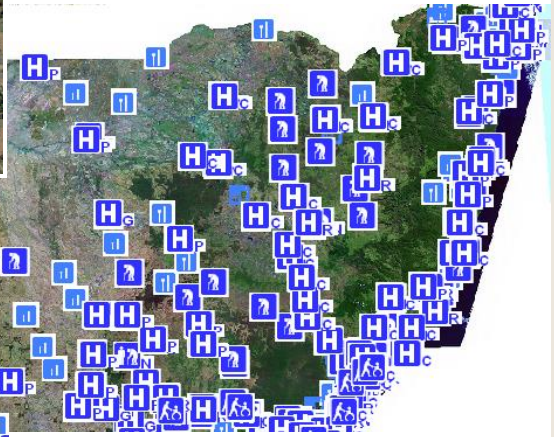
Ambulance Service of NSW
Association of Independent Schools of NSW
Catholic Education Commission
Data.gov.au
Department of Health and Ageing
Department of Human Services
Fire & Rescue NSW
Geoscience Australia
Land and Property Information
NSW Department of Education and Training
NSW Department of Family and Community Services
NSW Department of Health
NSW Fire Brigade
NSW Maritime
NSW Police
QLD Department of Education and Training
Rail Corporation
Roads and Traffic Authority
State Emergency Service
State Rescue Board
Universities_Australia

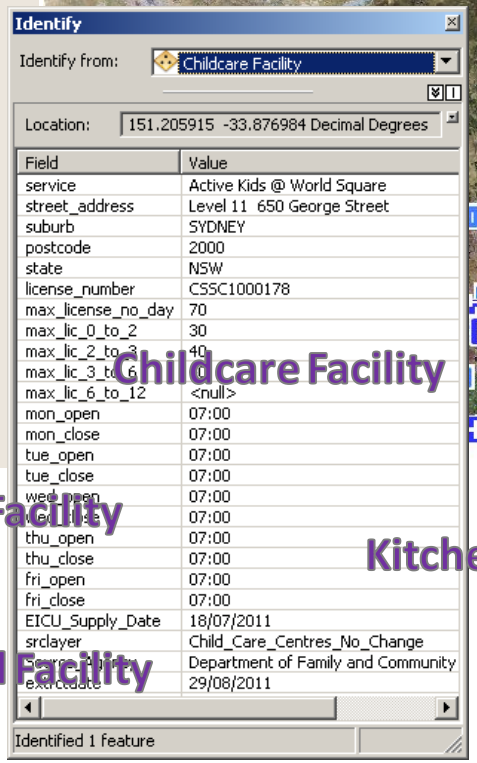
Emergency Facility



Education Facility

Health Facility





Childcare Facility

Accommodation Facility

Kitchen Facility

Public Facility

Recreational Facility

Ashfield Municipal Council
Baulkham Hills Shire Council
Bega Valley Shire Council
Bellingen Shire Council
Bogan Shire Council
Byron Shire Council
City of Newcastle
Conargo Shire Council
Council of the City of Sydney
Gilgandra Shire Council
Glen Innes Severn Council
Gosford City Council
Greater Taree City Council
Hawkesbury City Council
Kempsey Shire Council
Kogarah Municipal Council
Ku-ring-gai Council
Kyogle Council
Leeton Shire Council
Lismore City Council
Marrickville Council
Mosman Municipal Council
North Sydney Council
Richmond Valley Council
Shoalhaven City Council
Tumut Shire Council
Warrumbungle Shire Council
Waverley Council
Wellington Council
Wollongong City Council
Woollahra Municipal Council
Yass Valley Council

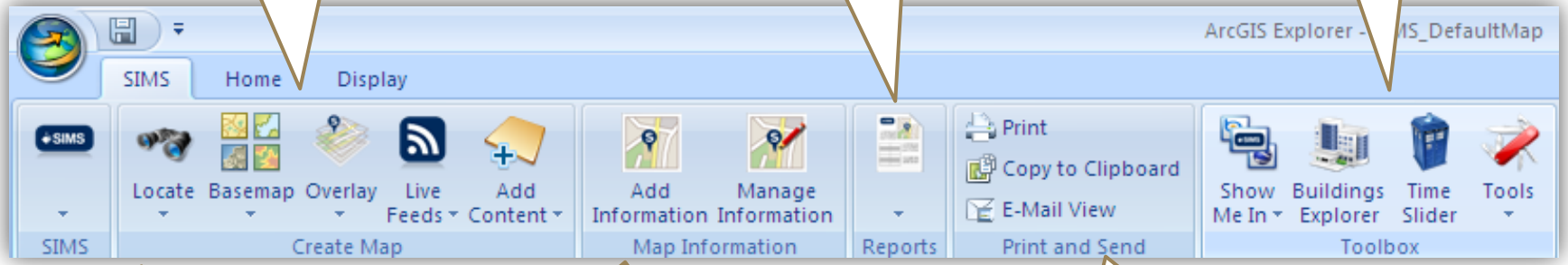
SIMS
SPATIAL INFORMATION & MAPPING SYSTEM

SIMS is a mini-GIS for non-GIS Users.

Create Map

Compile a Report

Toolbox

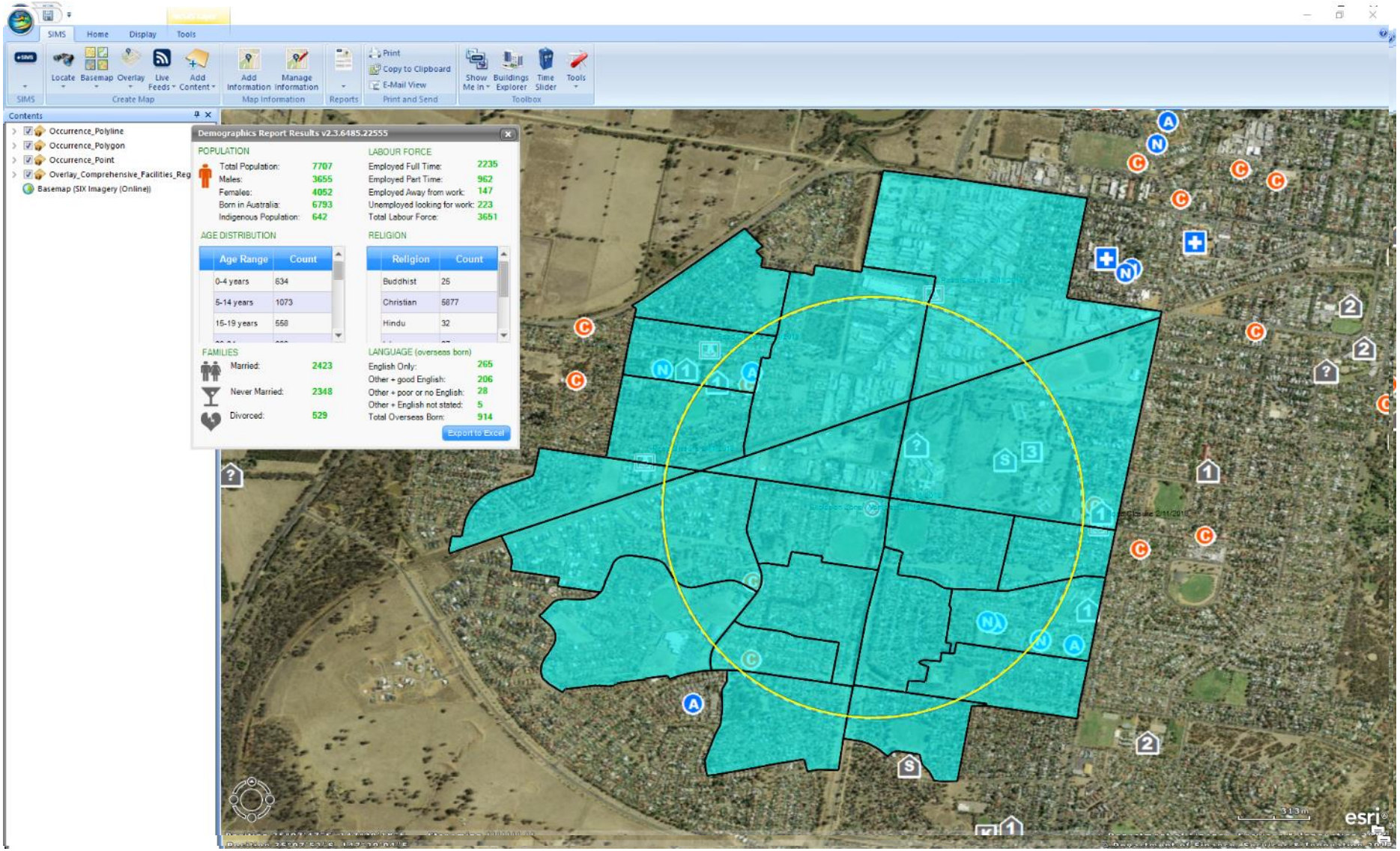


Locate Places of Interest

Map Information

Print and Send

Training on SIMS takes three to four hours.


SIMS
Home
Display
Tools
Locate
Basemap
Overlay
Live Feeds
Add Content
Add Information
Manage Information
Reports
Print
Copy to Clipboard
E-Mail View
Show Me In
Buildings Explorer
Time Slider
Tools
Create Map
Map Information
Print and Send
Toolbox
Contents
Occurrence_Polyline
Occurrence_Polygon
Occurrence_Point
Overlay_Comprehensive_Facilities_Reg
Basemap (SIX Imagery (Online))
Demographics Report Results v2.3.6485.22555
POPULATION
Total Population: 7707
Males: 3655
Females: 4052
Born in Australia: 6793
Indigenous Population: 642
LABOUR FORCE
Employed Full Time: 2235
Employed Part Time: 962
Employed Away from work: 147
Unemployed looking for work: 223
Total Labour Force: 3651
AGE DISTRIBUTION
Age Range
Count
0-4 years 634
5-14 years 1073
15-19 years 558
RELIGION
Religion
Count
Buddhist 25
Christian 5877
Hindu 32
FAMILIES
Married: 2423
Never Married: 2348
Divorced: 529
LANGUAGE (overseas born)
English Only: 265
Other + good English: 206
Other + poor or no English: 28
Other + English not stated: 5
Total Overseas Born: 914
Export to Excel
esri

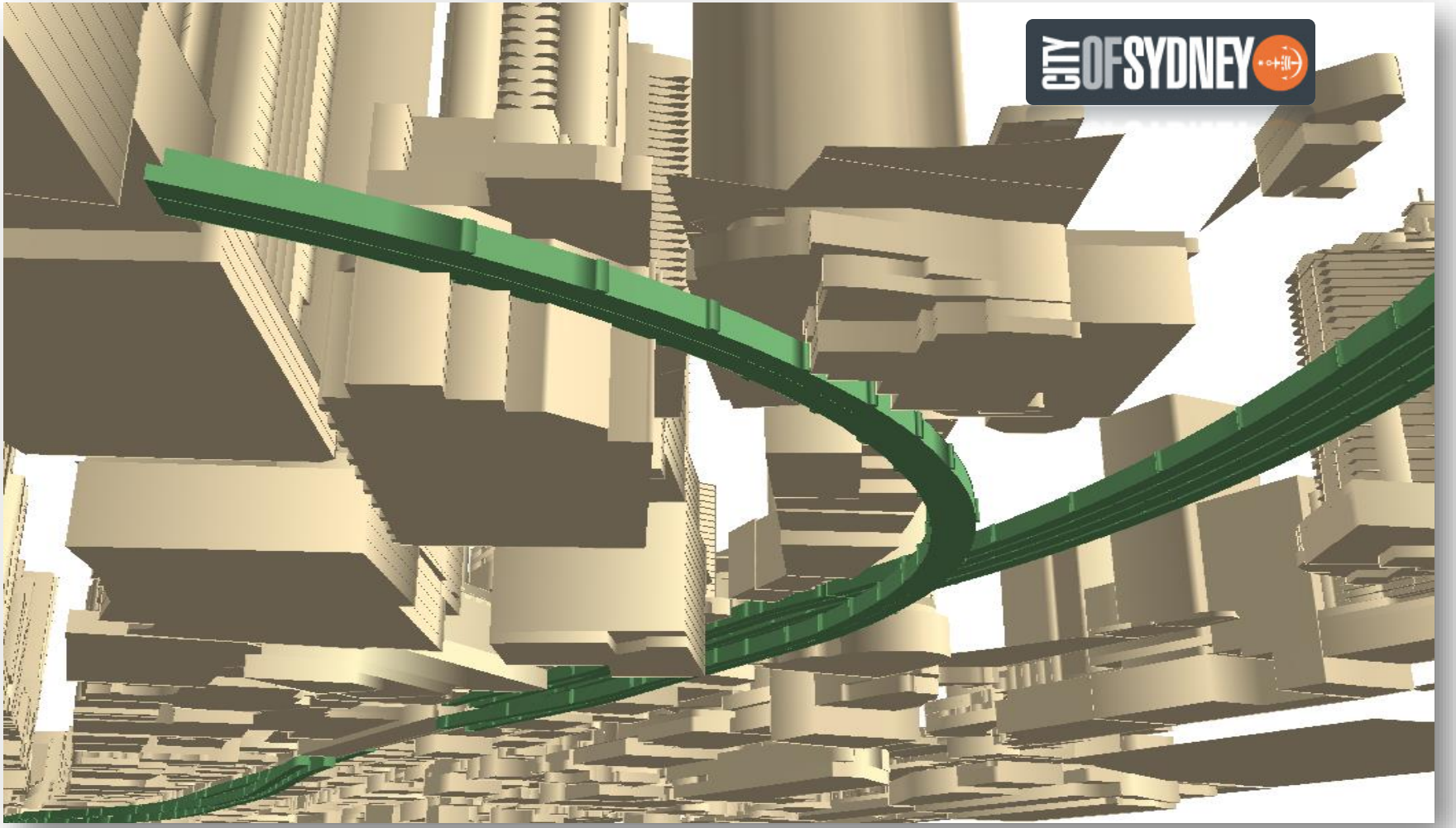
ESSIL & SIMS RECIPIENTS

- State Crisis Centre
- State Emergency Operation Centre
- Government Coordination Centre
- Emergency Service Organisations
- Police Counter Terrorism Command
- Regional Emergency Management Officers
- Local Emergency Management Officers
- AGO & Defence
- Attorney Generals (Federal)
- Geoscience Australia
- Australian Federal Police
- ACT Emergency Services Agency
- Emergency Functional Areas - Health, Transport, Agriculture, Environment and Energy/Utilities.

ESSIL DELIVERY

- ESSIL is provided to the Emergency Management sector/ Local Government Areas as an ESRI file geodatabase supplied on an external Hard Drive Kit (HDK) along with the EICU developed SIMS application and other associated data
- HDKs are updated on a 6 monthly basis
- EICU are continuously receiving data from source agencies, therefore the update of ESSIL is an ongoing process

BUILDING AND INFRASTRUCTURE DATABASE



Spatial Innovation Program

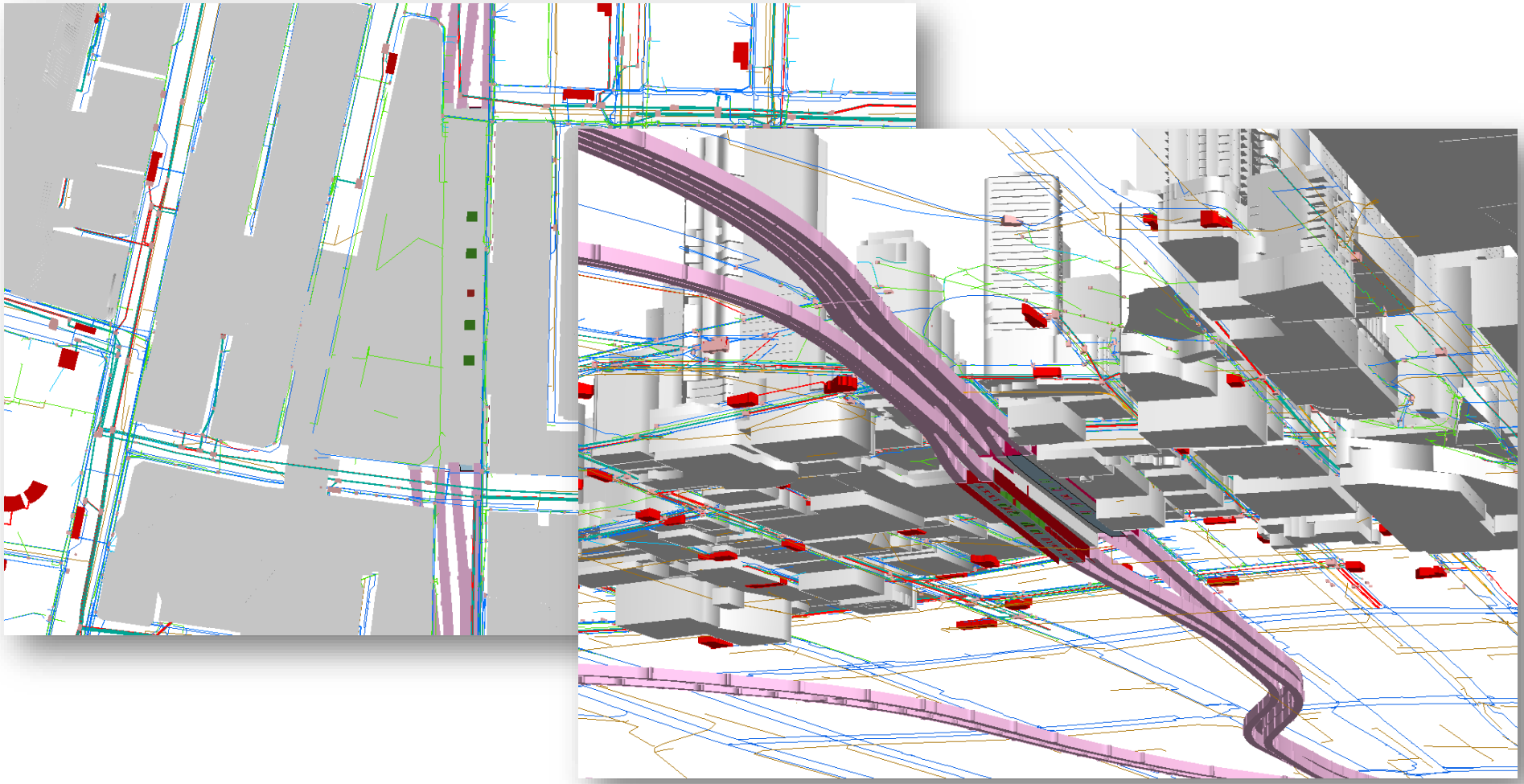
PARTNERSHIPS

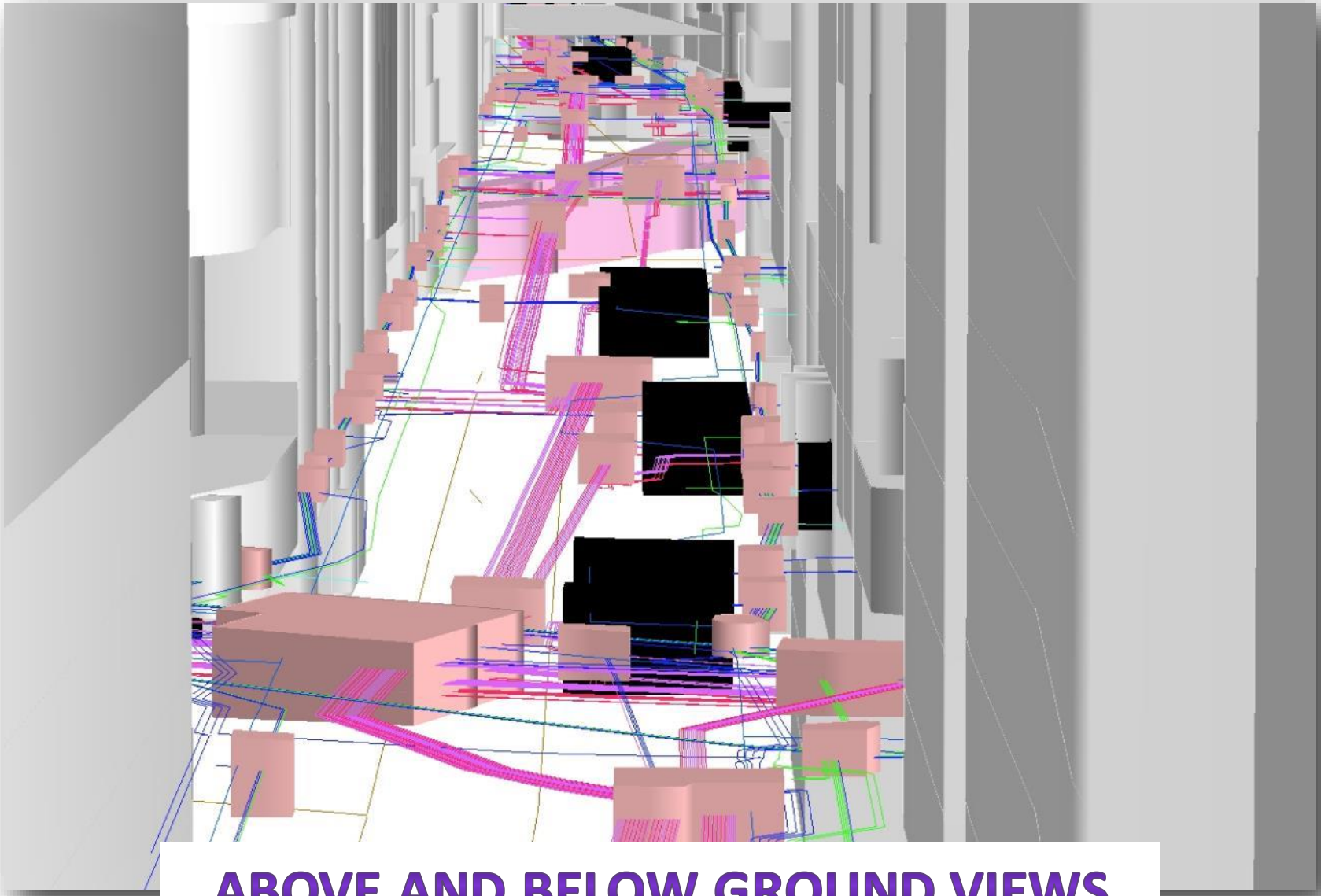
Sponsors

Stakeholders

Participants

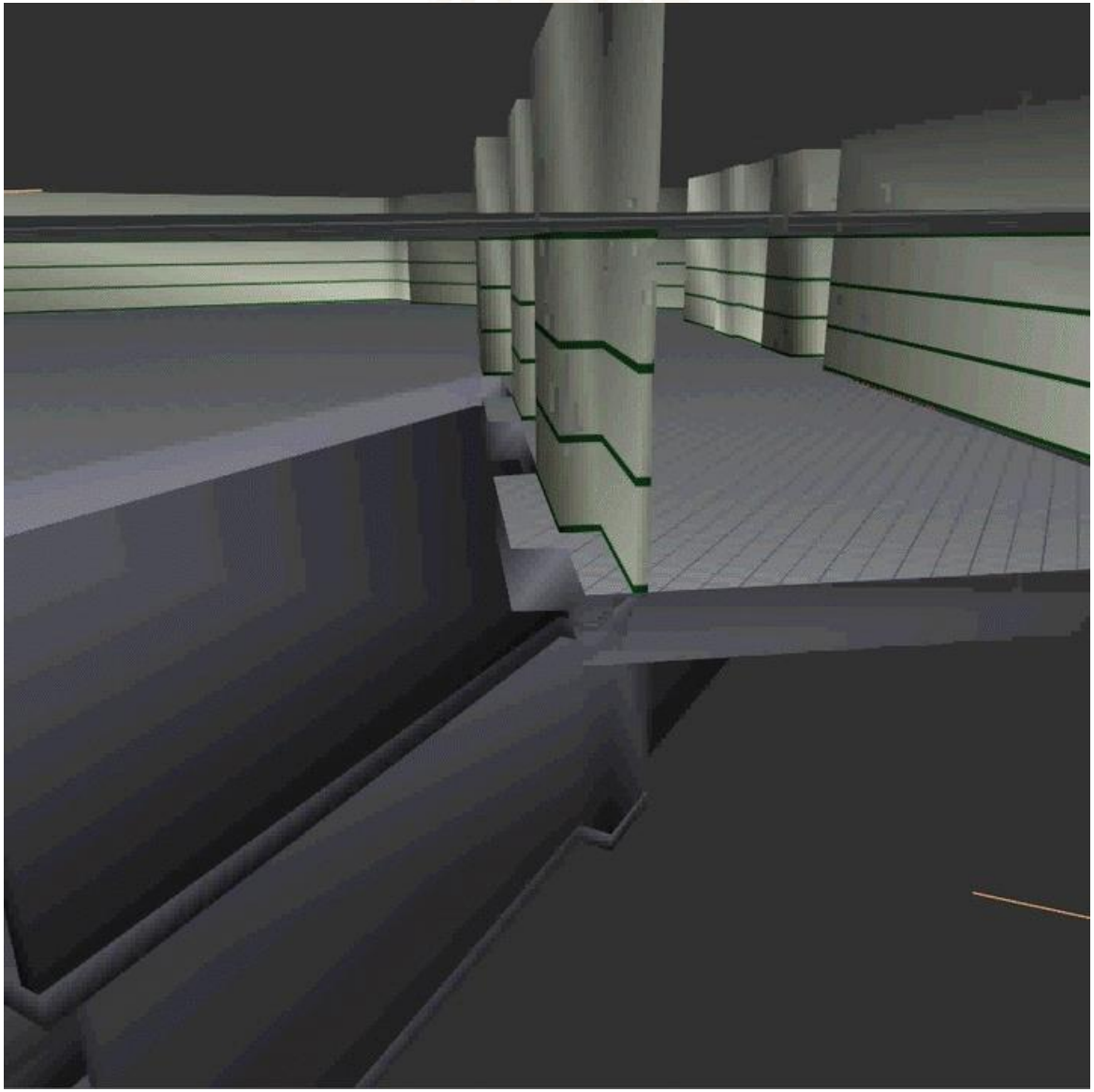
2D VERSE 3D





ABOVE AND BELOW GROUND VIEWS

3D PDF

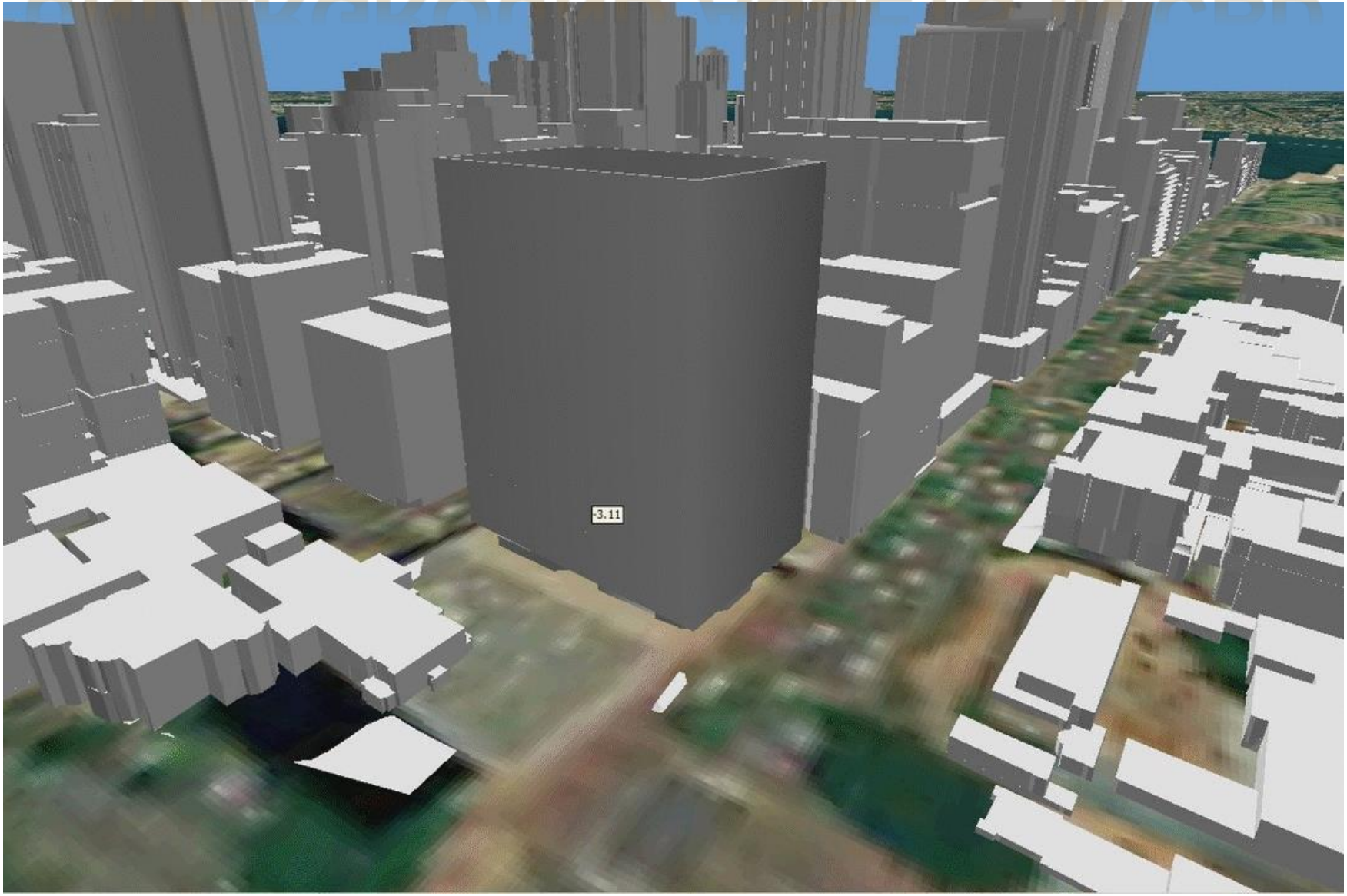


VIRTUAL ENVIRONMENTS

EMERGENCY EXERCISES SIMULATION

- Interactive
- Multi Player
- Scenarios
- Exercises
- Walk throughs
- Real time tracking

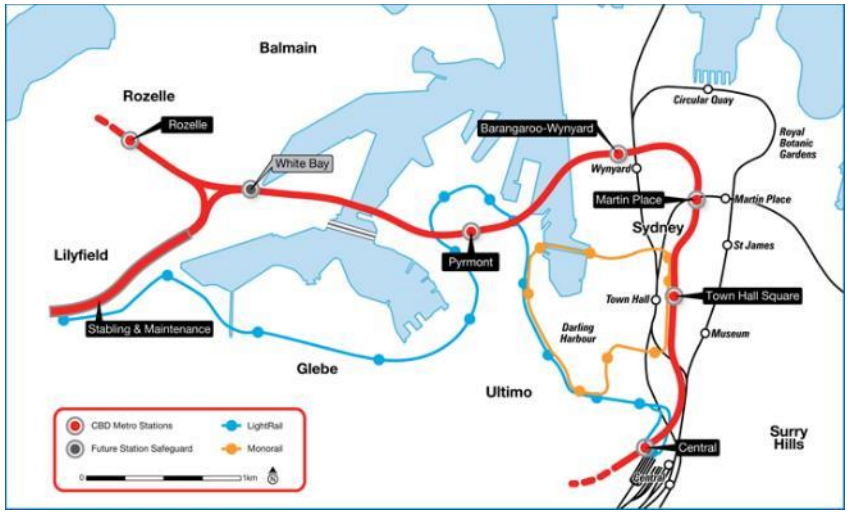
UNDERGROUND ASSETS IN CBD

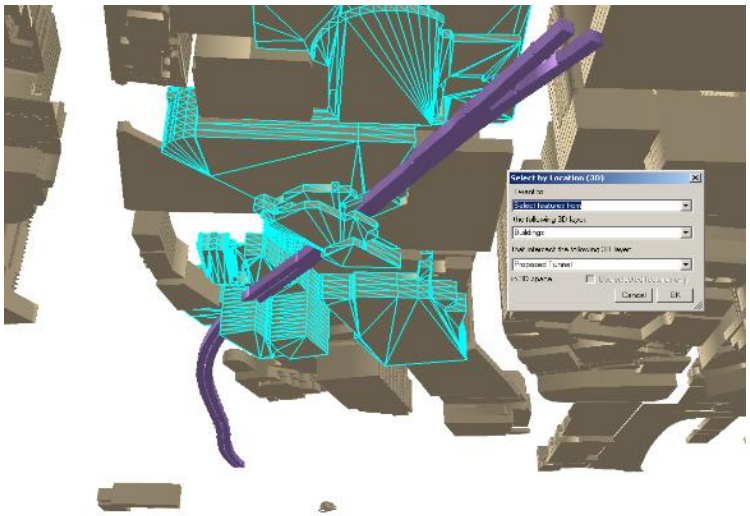


PLANNING NEW INFRASTRUCTURE

Identifying the best route for City Metro tunnels

3D building basements used in planning process





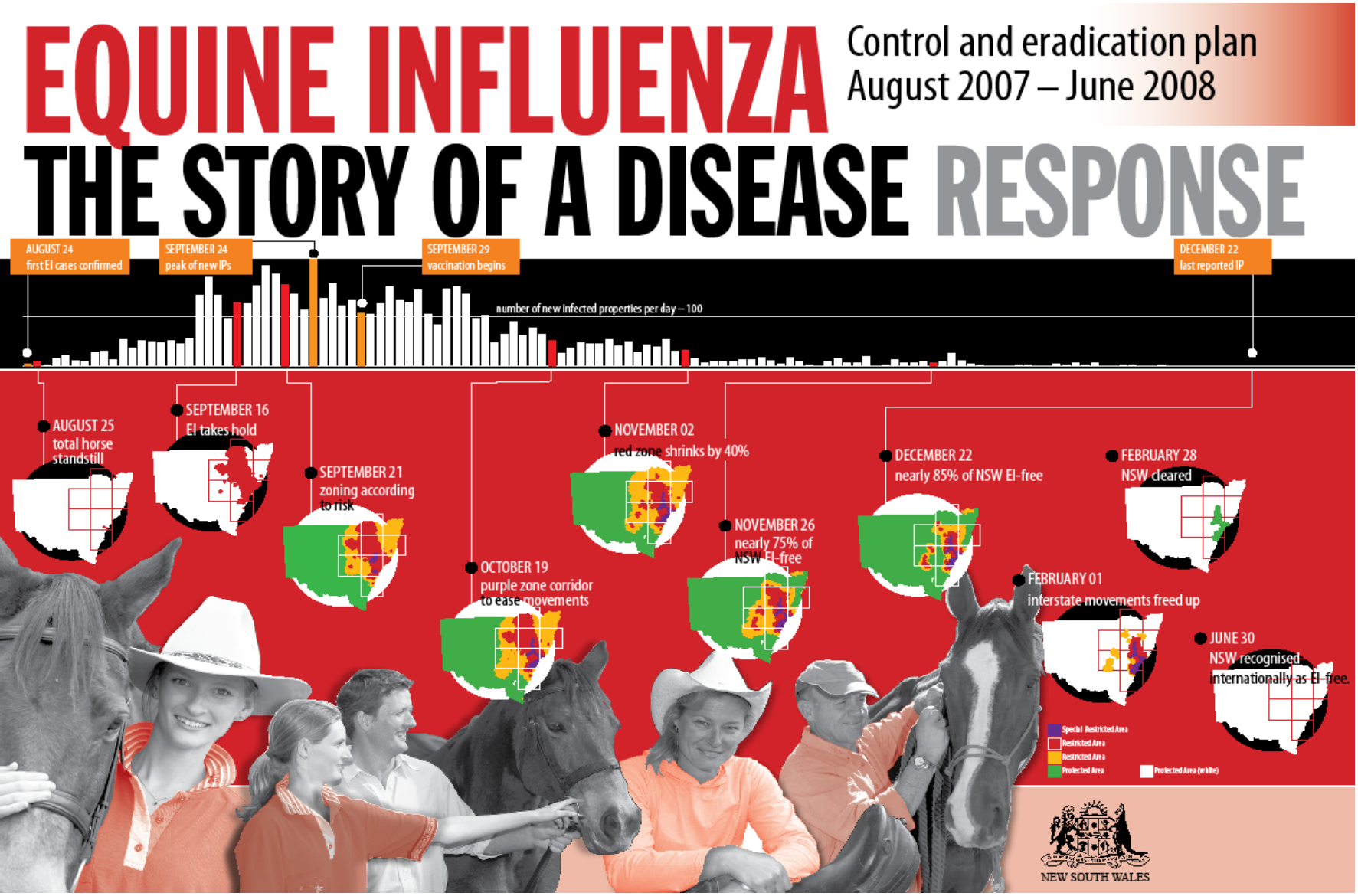
MINIMISE EXCAVATION ERRORS

Single point of reference where all data can be accessed

Data includes building basements and all tunnels

Data exchange incrementally improves the quality of the data

MANHUNT FOR MALCOLM NADEN

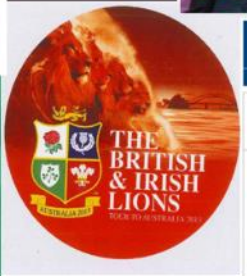


ESSIL APPLICATION: EQUINE INFLUENZA 2007-08

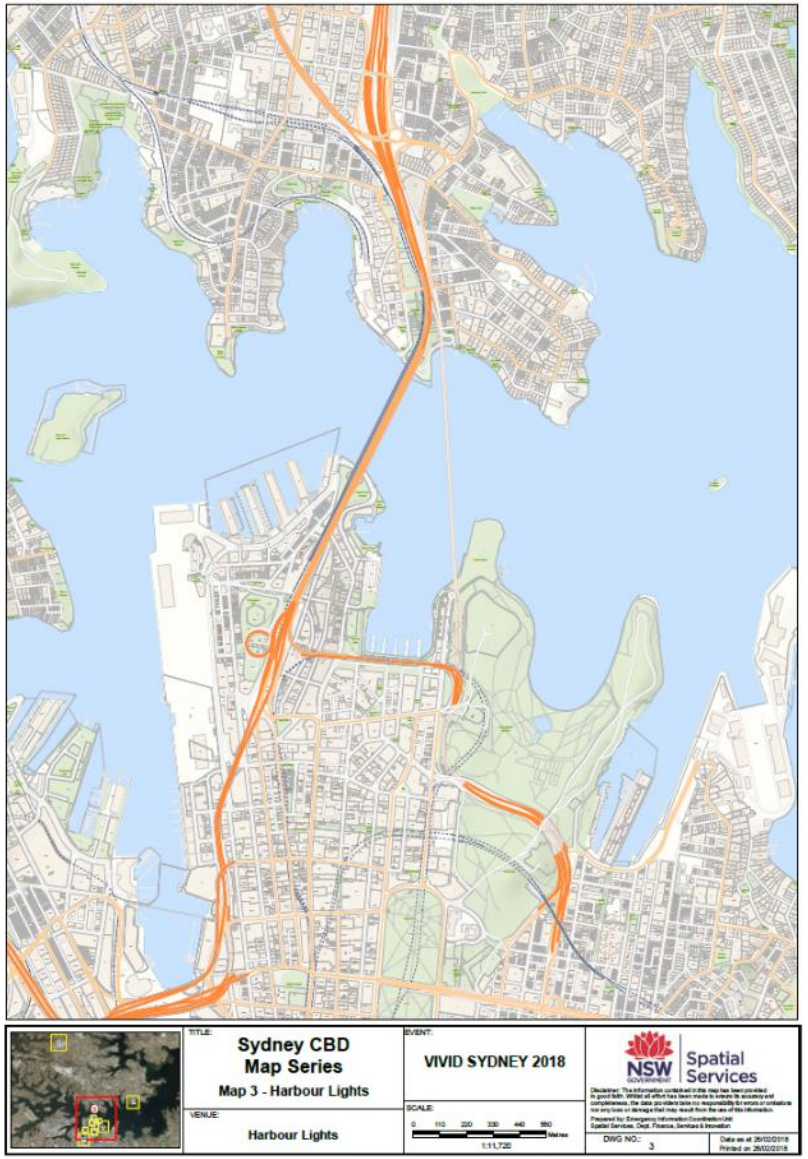
MAPPING FOR MAJOR EVENTS

Assisting NSW Government Agencies in support of Major Events in NSW by utilising EICU's expertise in providing quality Spatial Services to the sector

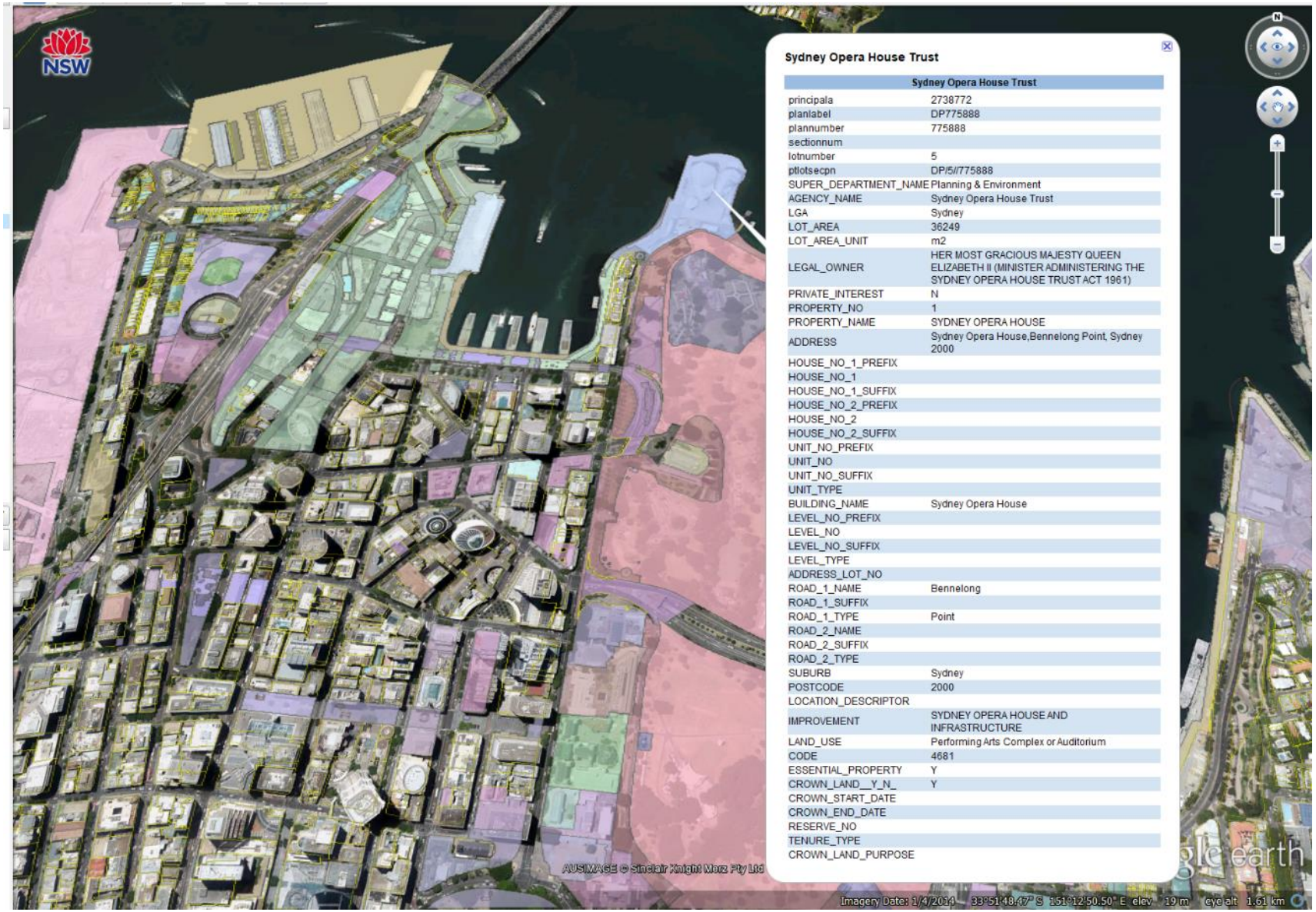
SPECIAL EVENTS



MAPS FOR PLANNING



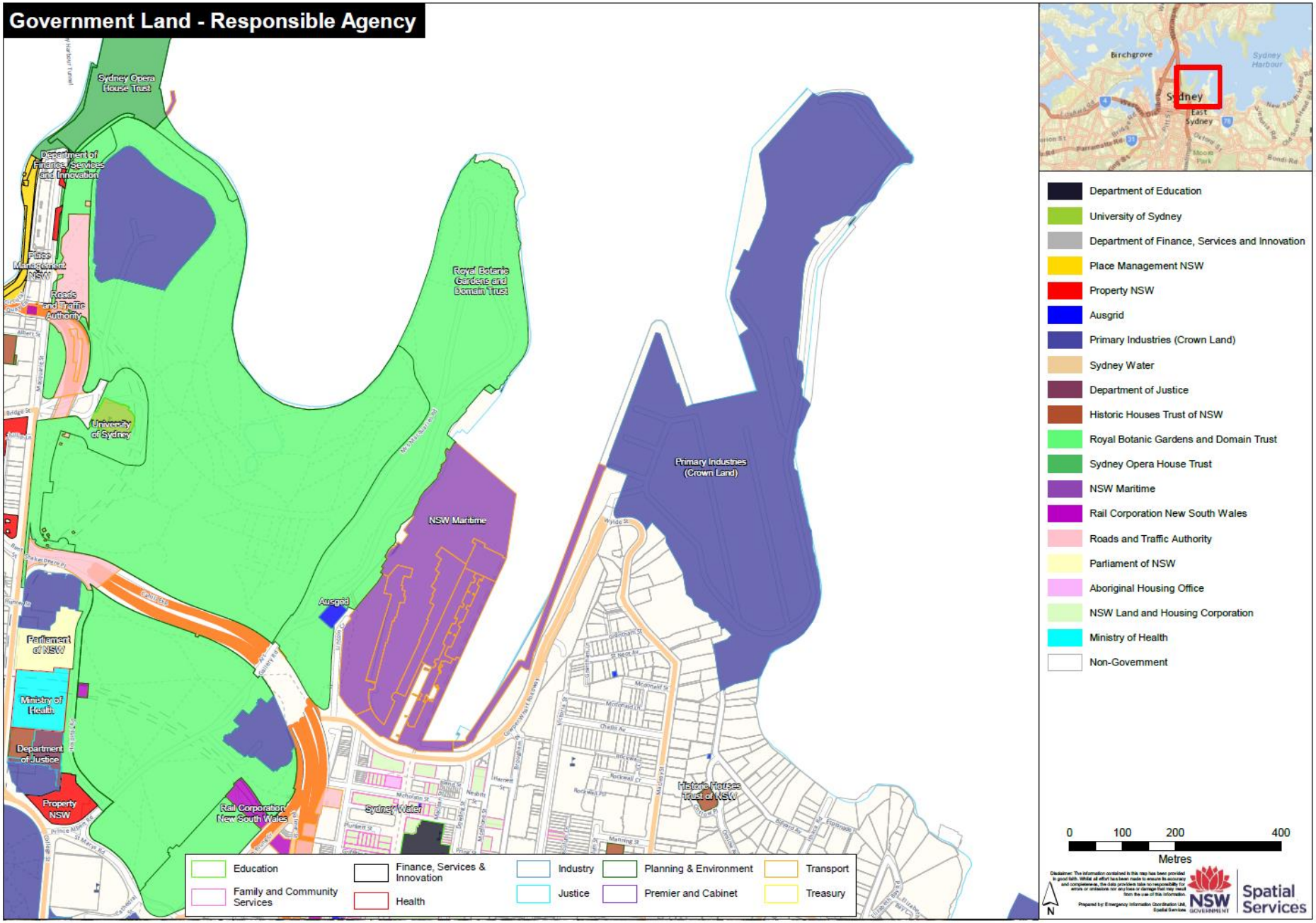
GOVERNMENT OWNERSHIP – CONTROLLING AGENCY

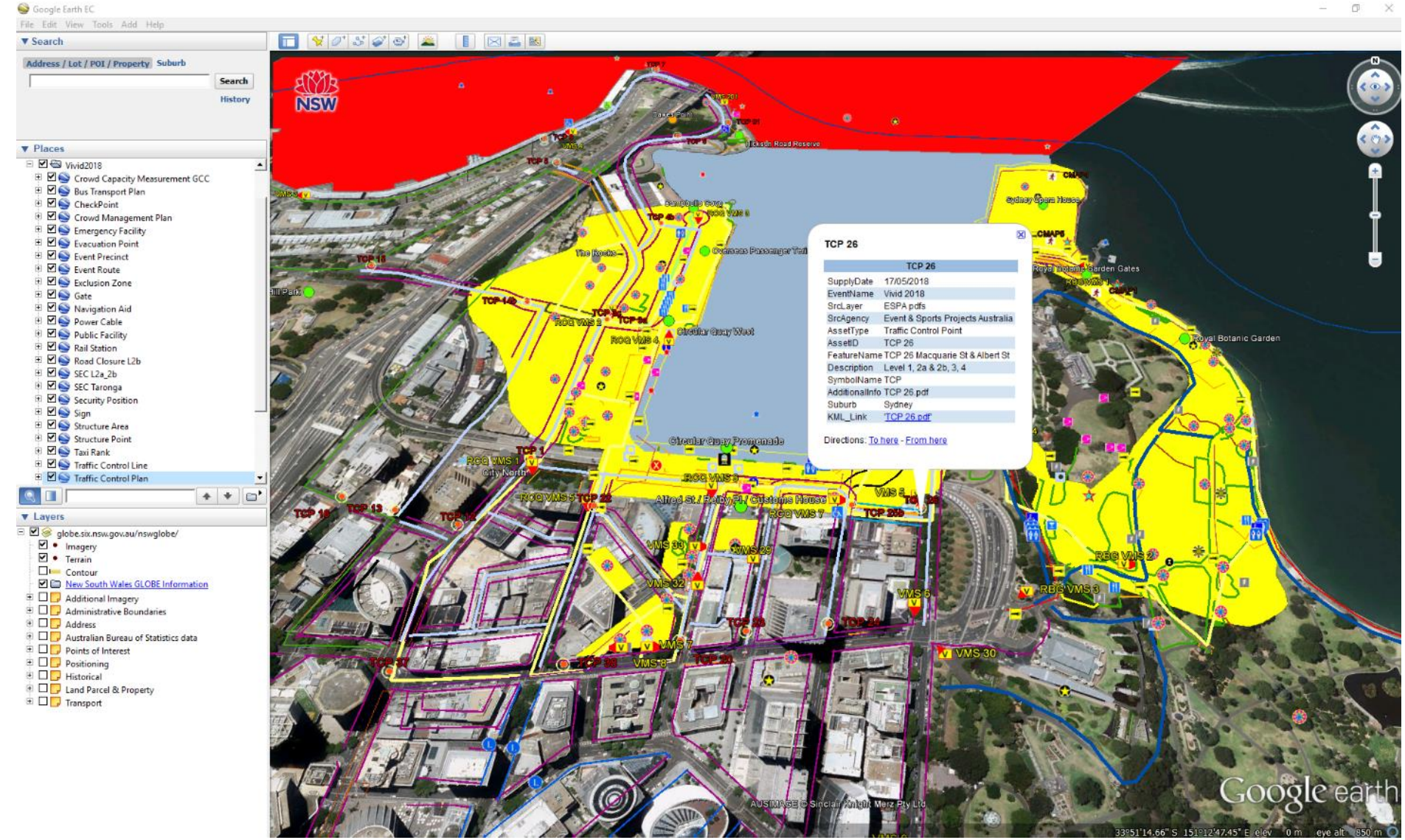


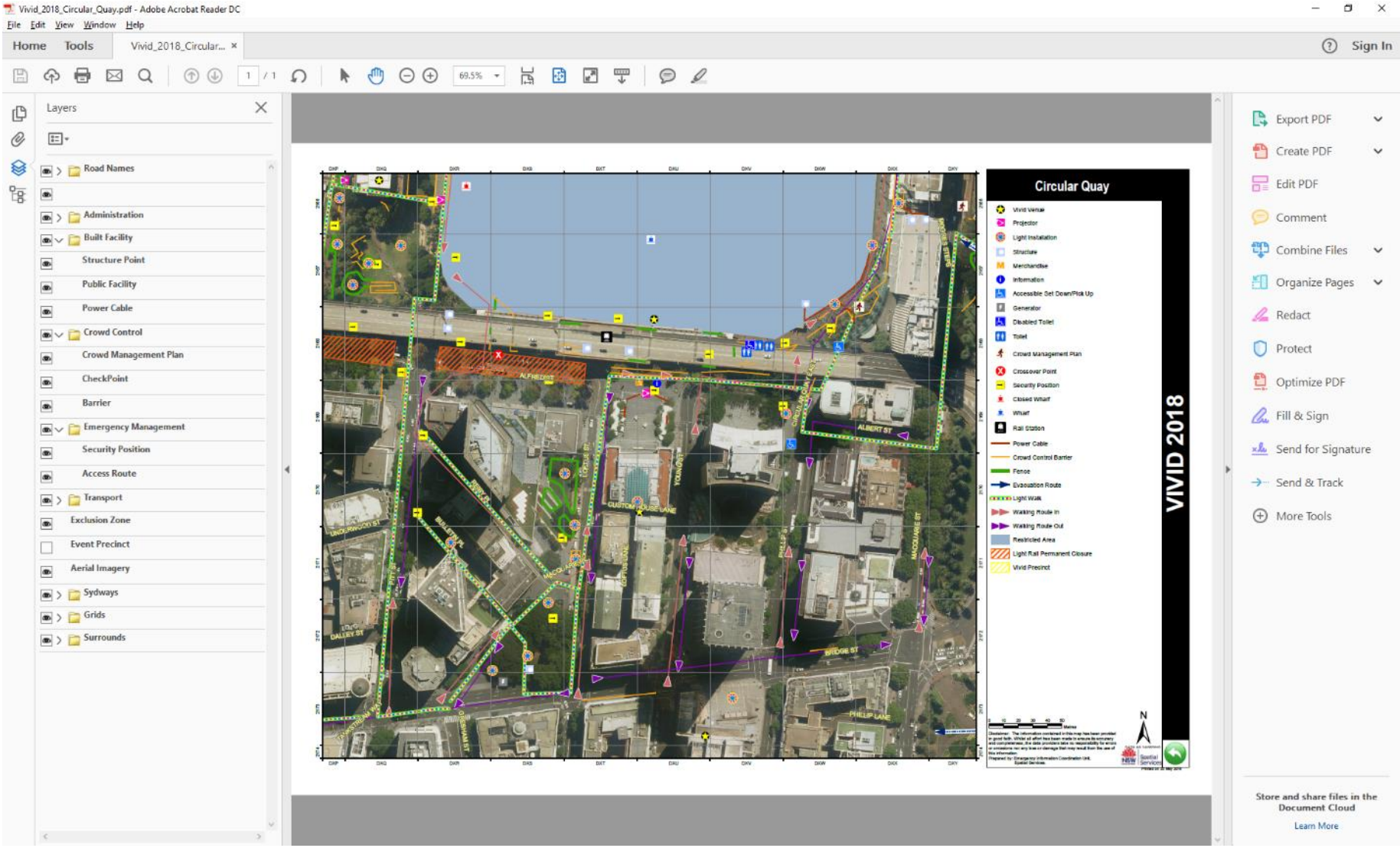
Sydney Opera House Trust

Sydney Opera House Trust	
principala	2738772
planlabel	DP775888
plannumber	775888
sectionnum	
lotnumber	5
ptlotsecpn	DP/5//775888
SUPER_DEPARTMENT_NAME	Planning & Environment
AGENCY_NAME	Sydney Opera House Trust
LGA	Sydney
LOT_AREA	36249
LOT_AREA_UNIT	m2
LEGAL_OWNER	HER MOST GRACIOUS MAJESTY QUEEN ELIZABETH II (MINISTER ADMINISTERING THE SYDNEY OPERA HOUSE TRUST ACT 1961)
PRIVATE_INTEREST	N
PROPERTY_NO	1
PROPERTY_NAME	SYDNEY OPERA HOUSE
ADDRESS	Sydney Opera House,Bennelong Point, Sydney 2000
HOUSE_NO_1_PREFIX	
HOUSE_NO_1	
HOUSE_NO_1_SUFFIX	
HOUSE_NO_2_PREFIX	
HOUSE_NO_2	
HOUSE_NO_2_SUFFIX	
UNIT_NO_PREFIX	
UNIT_NO	
UNIT_NO_SUFFIX	
UNIT_TYPE	
BUILDING_NAME	Sydney Opera House
LEVEL_NO_PREFIX	
LEVEL_NO	
LEVEL_NO_SUFFIX	
LEVEL_TYPE	
ADDRESS_LOT_NO	
ROAD_1_NAME	Bennelong
ROAD_1_SUFFIX	
ROAD_1_TYPE	Point
ROAD_2_NAME	
ROAD_2_SUFFIX	
ROAD_2_TYPE	
SUBURB	Sydney
POSTCODE	2000
LOCATION_DESCRIPTOR	
IMPROVEMENT	SYDNEY OPERA HOUSE AND INFRASTRUCTURE
LAND_USE	Performing Arts Complex or Auditorium
CODE	4681
ESSENTIAL_PROPERTY	Y
CROWN_LAND__Y_N_	Y
CROWN_START_DATE	
CROWN_END_DATE	
RESERVE_NO	
TENURE_TYPE	
CROWN_LAND_PURPOSE	

Government Land - Responsible Agency




Google Earth EC
File Edit View Tools Add Help
Search
Address / Lot / POI / Property Suburb
Search
History
Places
Vivid2018
Crowd Capacity Measurement GCC
Bus Transport Plan
CheckPoint
Crowd Management Plan
Emergency Facility
Evacuation Point
Event Precinct
Event Route
Exclusion Zone
Gate
Navigation Aid
Power Cable
Public Facility
Rail Station
Road Closure L2b
SEC L2a_2b
SEC Taronga
Security Position
Sign
Structure Area
Structure Point
Taxi Rank
Traffic Control Line
Traffic Control Plan
Layers
globe.six.nsw.gov.au/nswglobe/
Imagery
Terrain
Contour
New South Wales GLOBE Information
Additional Imagery
Administrative Boundaries
Address
Australian Bureau of Statistics data
Points of Interest
Positioning
Historical
Land Parcel & Property
Transport
TCP 26
TCP 26
SupplyDate 17/05/2018
EventName Vivid 2018
SrcLayer ESPA pdfs
SrcAgency Event & Sports Projects Australia
AssetType Traffic Control Point
AssetID TCP 26
FeatureName TCP 26 Macquarie St & Albert St
Description Level 1, 2a & 2b, 3, 4
SymbolName TCP
AdditionalInfo TCP 26 pdf
Suburb Sydney
KML_Link TCP 26.pdf
Directions: To here - From here
Circular Quay Promenade
Sydney Opera House
Royal Botanic Garden
Google earth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Administration
Built Facility
Structure Point
Public Facility
Power Cable
Crowd Control
Crowd Management Plan
CheckPoint
Barrier
Emergency Management
Security Position
Access Route
Transport
Exclusion Zone
Event Precinct
Aerial Imagery
Sydways
Grids
Surrounds
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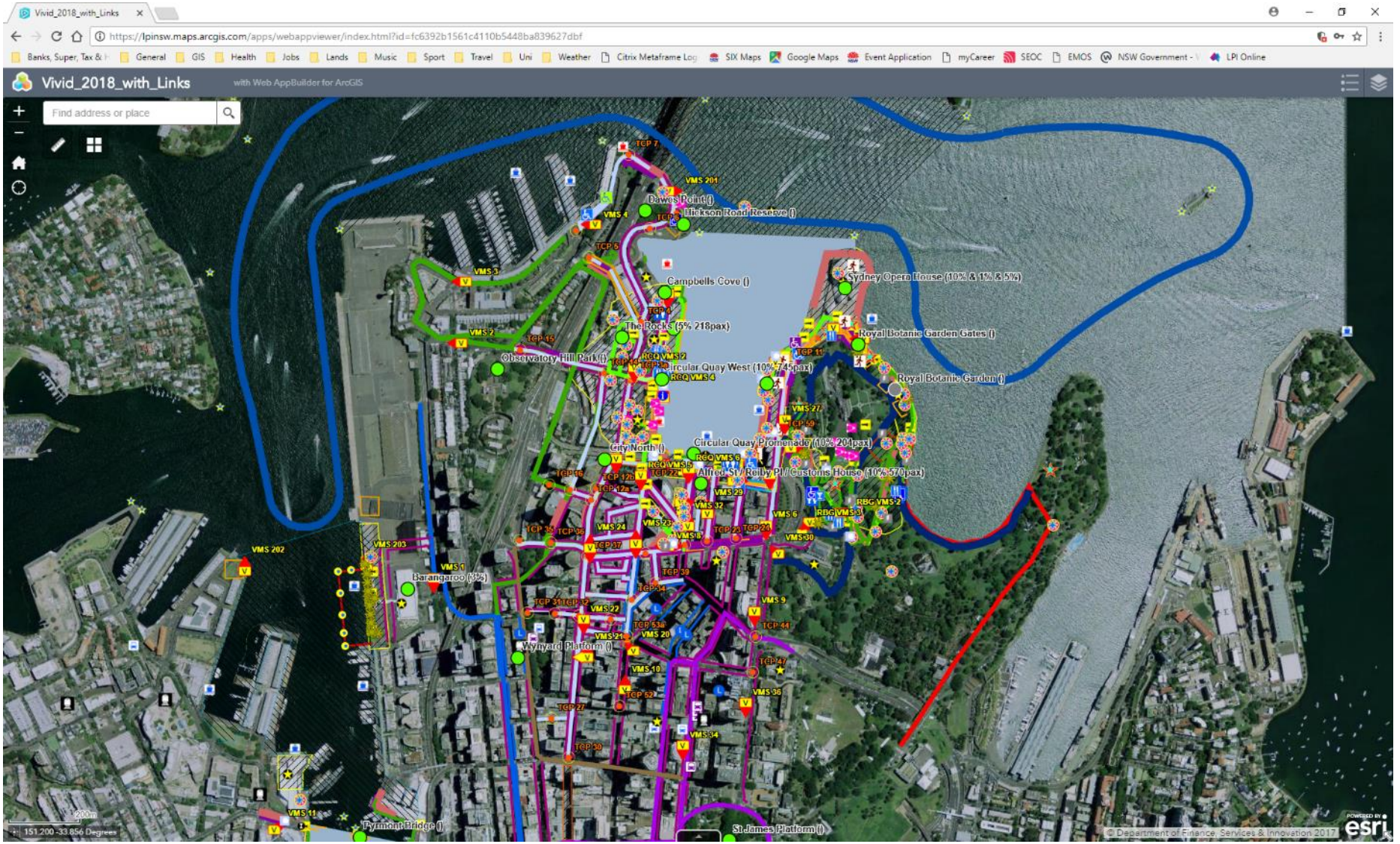
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Vivid_2018_with_Links
with Web AppBuilder for ArcGIS
Find address or place
Dawes Point ()
Hickson Road Reserve ()
Campbells Cove ()
Sydney Opera House (10% & 1% & 5%)
The Rocks (5% 218pax)
Observatory Hill Park ()
Circular Quay West (10% 745pax)
Royal Botanic Garden Gates ()
Royal Botanic Garden ()
City North ()
Circular Quay Promenade (10% 204pax)
Alfred St / Reilly Pl / Customs House (10% 570pax)
Barangaroo (5%)
Wynyard Platform ()
Tyrmait Bridge ()
St James Platform ()
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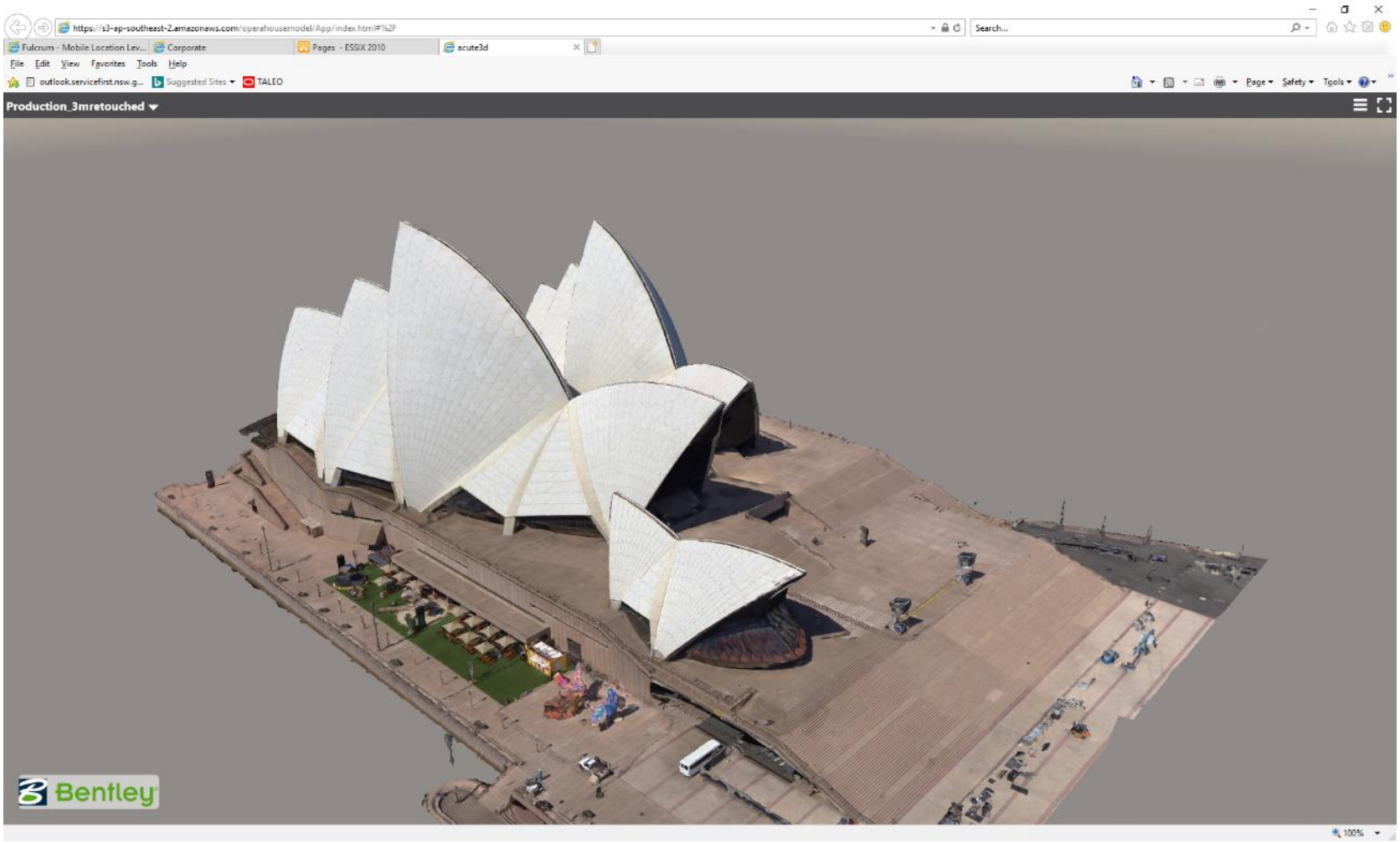
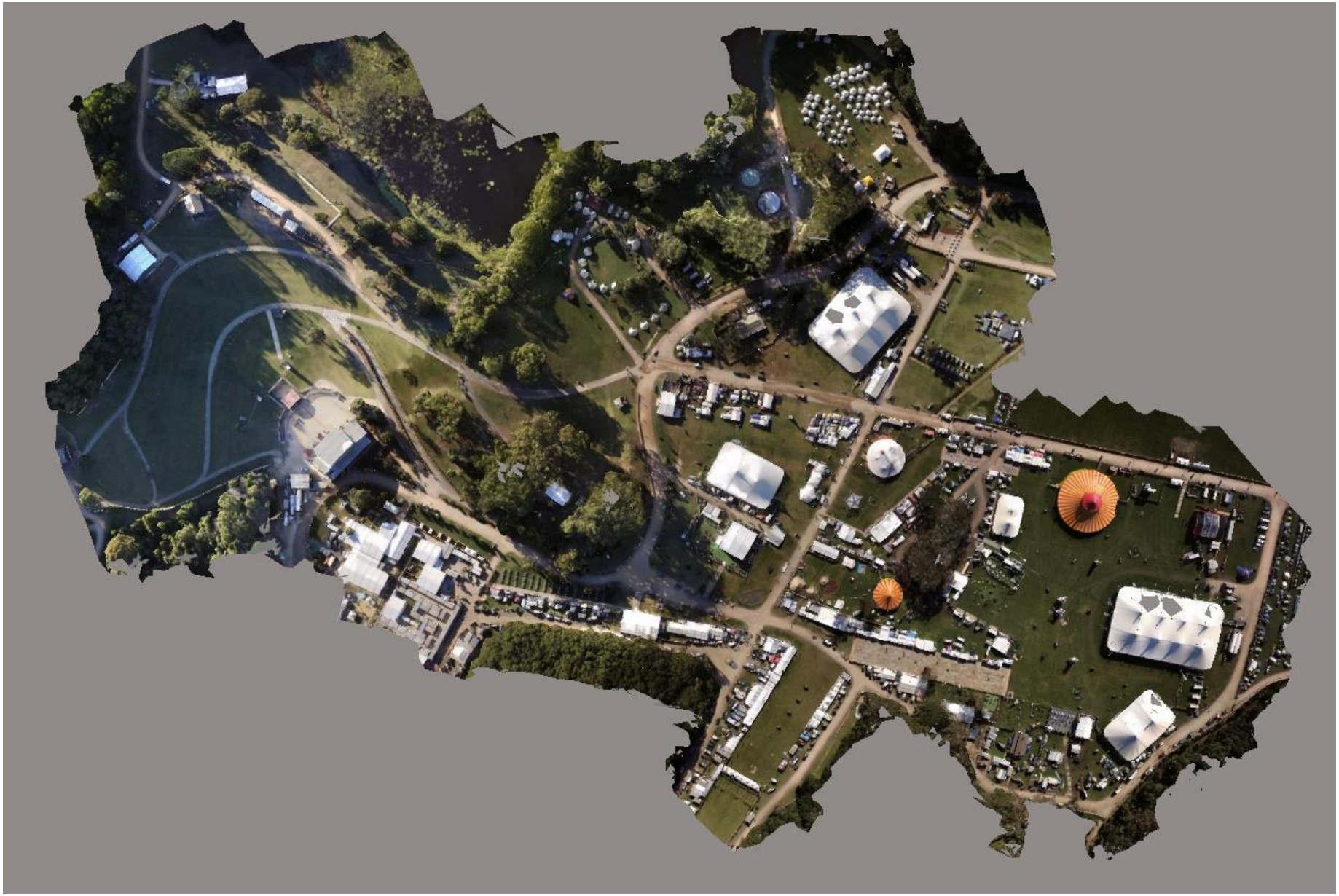
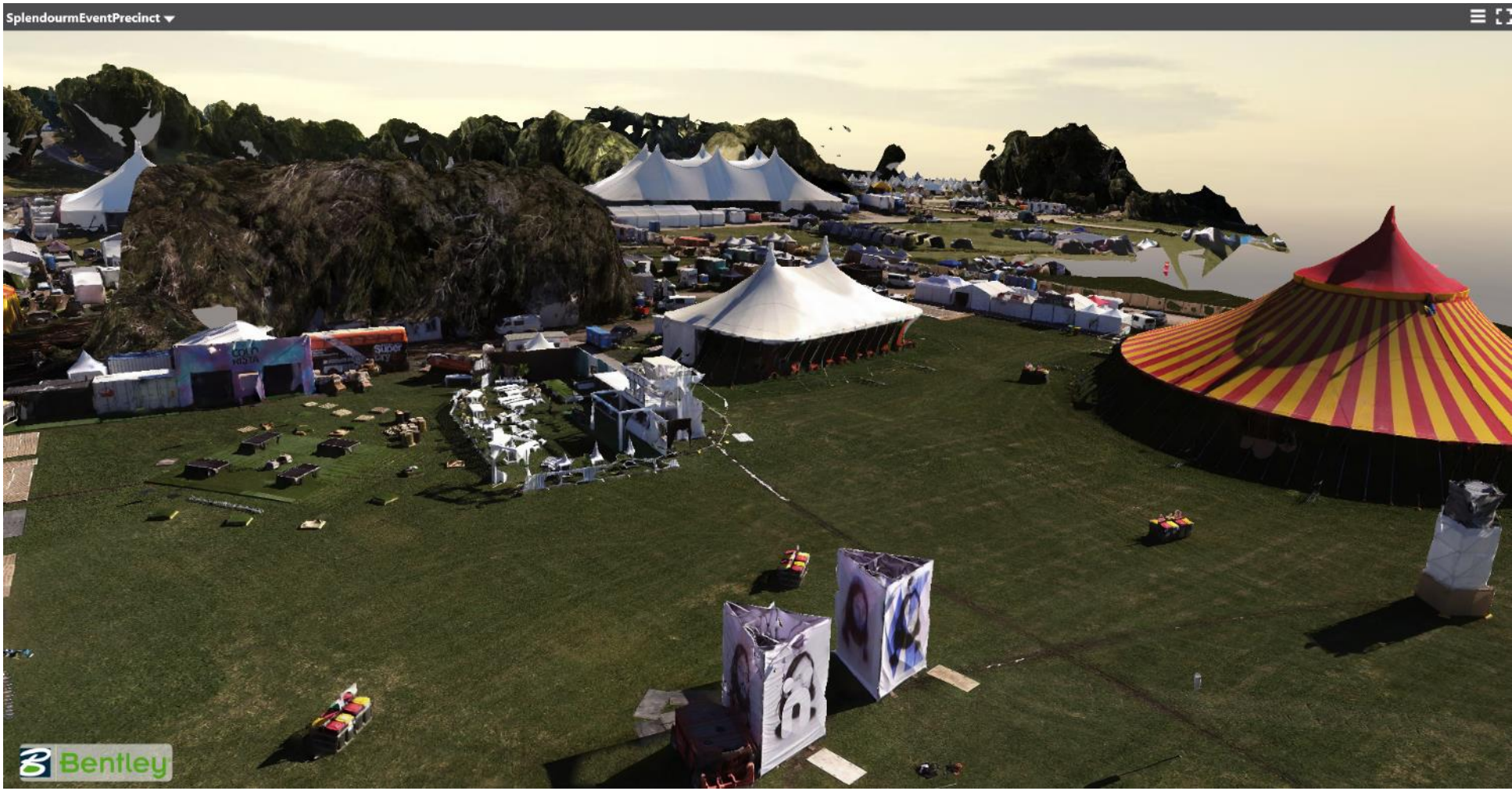
POTENTIAL FUTURE CAPABILITIES FOR EVENT MANAGEMENT



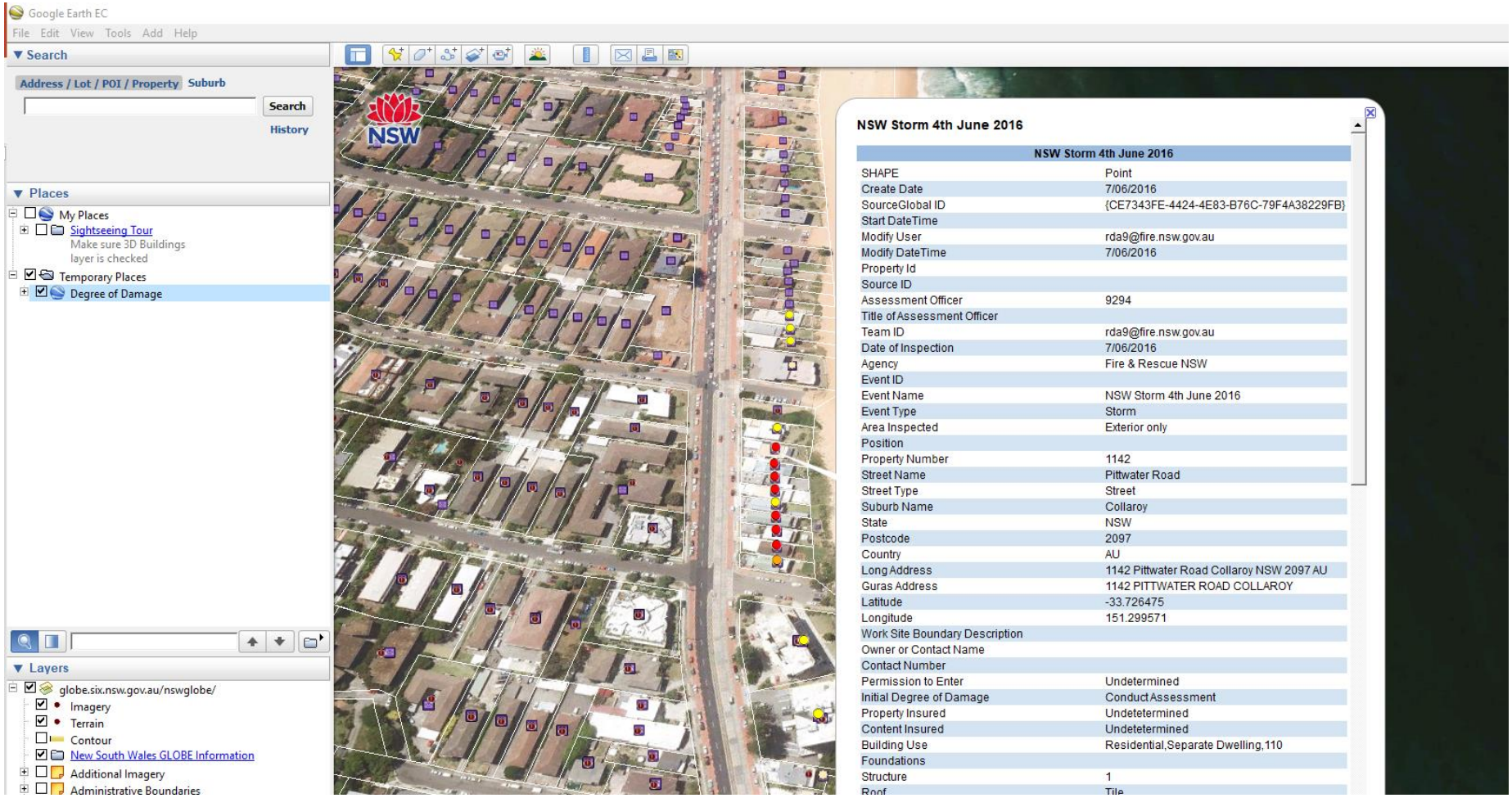
SPLENDOUR IN THE GRASS 2018




SplendourmEventPrecinct
Bentley

OPERATIONAL SUPPORT

IMPACT ASSESSMENTS – RAPID DAMAGE ASSESSMENTS

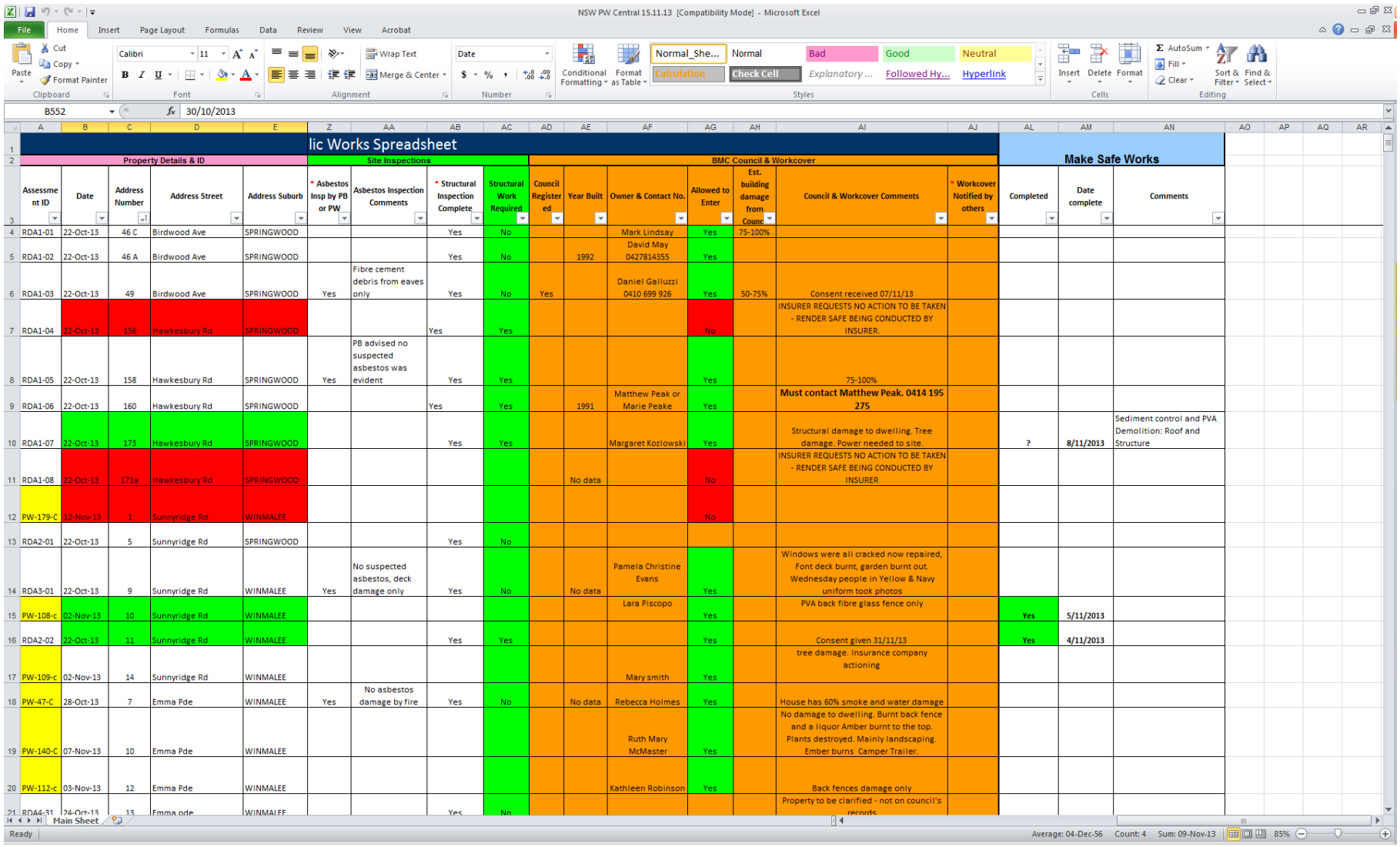


IMPACT ASSESSMENTS – RAPID DAMAGE ASSESSMENTS PROCESSING DATA

- Major Weather Event or Bushfire
- Widespread Impact on or Destruction of Property
- SERCON activates Impact Assessment Data Sharing Arrangements
- Once safe to do so, responding ESOs begin collection of data
- After day of collecting data, data fed into EICU, internet, email, carrier pigeon
- EICU process data and transform it using FME into 1 data schema
- EICU produces Maps, KML files, Excel tables, GIS data
- And repeat….

- For the recent Tathra Bushfire in March 2017, data updates were received daily until cleanup finished in June

IMPACT ASSESSMENT – BLUE MOUNTAINS



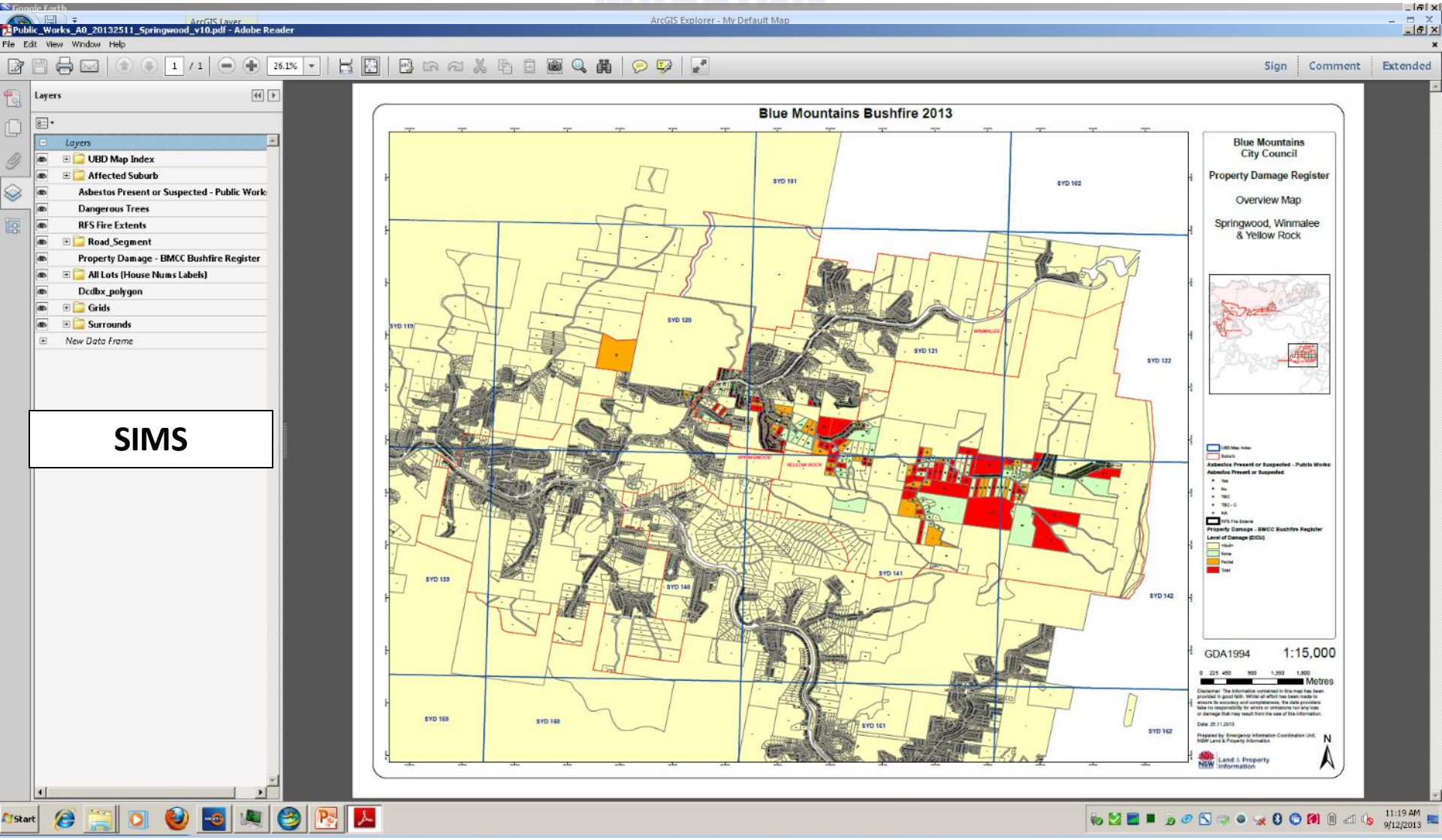
NSW PW Central 15.11.13 [Compatibility Mode] - Microsoft Excel

lic Works Spreadsheet

	Property Details & ID					Site Inspections				BMC Council & Workcover							Make Safe Works		
	Assessment ID	Date	Address Number	Address Street	Address Suburb	* Asbestos Insp by PB or PW	Asbestos Inspection Comments	* Structural Inspection Complete	Structural Work Required	Council Registered	Year Built	Owner & Contact No.	Allowed to Enter	Est. building damage from Counc	Council & Workcover Comments	* Workcover Notified by others	Completed	Date complete	Comments
4	RDA1-01	22-Oct-13	46 C	Birdwood Ave	SPRINGWOOD			Yes	No			Mark Lindsay	Yes	75-100%					
5	RDA1-02	22-Oct-13	46 A	Birdwood Ave	SPRINGWOOD			Yes	No		1992	David May 0427814355	Yes						
6	RDA1-03	22-Oct-13	49	Birdwood Ave	SPRINGWOOD	Yes	Fibre cement debris from eaves only	Yes	No	Yes		Daniel Galluzzi 0410 699 926	Yes	50-75%	Consent received 07/11/13				
7	RDA1-04	22-Oct-13	156	Hawkesbury Rd	SPRINGWOOD			Yes	Yes				No		INSURER REQUESTS NO ACTION TO BE TAKEN - RENDER SAFE BEING CONDUCTED BY INSURER.				
8	RDA1-05	22-Oct-13	158	Hawkesbury Rd	SPRINGWOOD	Yes	PB advised no suspected asbestos was evident	Yes	Yes				Yes		75-100%				
9	RDA1-06	22-Oct-13	160	Hawkesbury Rd	SPRINGWOOD			Yes	Yes		1991	Matthew Peak or Marie Peake	Yes		**Must contact Matthew Peak. 0414 195 275**				
10	RDA1-07	22-Oct-13	173	Hawkesbury Rd	SPRINGWOOD			Yes	Yes			Margaret Kozlowski	Yes		Structural damage to dwelling. Tree damage. Power needed to site.		?	8/11/2013	Sediment control and PVA Demolition: Roof and Structure
11	RDA1-08	22-Oct-13	171a	Hawkesbury Rd	SPRINGWOOD						No data		No		INSURER REQUESTS NO ACTION TO BE TAKEN - RENDER SAFE BEING CONDUCTED BY INSURER				
12	PW-179-C	12-Nov-13	1	Sunnyridge Rd	WINMALEE								No						
13	RDA2-01	22-Oct-13	5	Sunnyridge Rd	SPRINGWOOD			Yes	No										
14	RDA3-01	22-Oct-13	9	Sunnyridge Rd	WINMALEE	Yes	No suspected asbestos, deck damage only	Yes	No		No data	Pamela Christine Evans	Yes		Windows were all cracked now repaired, Font deck burnt, garden burnt out. Wednesday people in Yellow & Navy uniform took photos				
15	PW-108-c	02-Nov-13	10	Sunnyridge Rd	WINMALEE							Lara Piscopo	Yes		PVA back fibre glass fence only		Yes	5/11/2013	
16	RDA2-02	22-Oct-13	11	Sunnyridge Rd	WINMALEE			Yes	Yes				Yes		Consent given 31/11/13		Yes	4/11/2013	
17	PW-109-c	02-Nov-13	14	Sunnyridge Rd	WINMALEE							Mary smith	Yes		tree damage. Insurance company actioning				
18	PW-47-C	28-Oct-13	7	Emma Pde	WINMALEE	Yes	No asbestos damage by fire	Yes	No		No data	Rebecca Holmes	Yes		House has 60% smoke and water damage				
19	PW-140-C	07-Nov-13	10	Emma Pde	WINMALEE							Ruth Mary McMaster	Yes		No damage to dwelling. Burnt back fence and a liquor Amber burnt to the top. Plants destroyed. Mainly landscaping. Ember burns Camper Trailer.				
20	PW-112-c	03-Nov-13	12	Emma Pde	WINMALEE							Kathleen Robinson	Yes		Back fences damage only				
21	RDA4-31	24-Oct-13	13	Emma pde	WINMALEE			Yes	No						Property to be clarified - not on council's records				

Main Sheet | Ready | Average: 04-Dec-56 | Count: 4 | Sum: 09-Nov-13 | 85%

BLUE MOUNTAINS 2013 BUSHFIRE RECOVERY MAPPING



DAMAGE ASSESSMENT PRODUCTS

KMZ

Property Damage, Property Status, Asbestos and Inundation

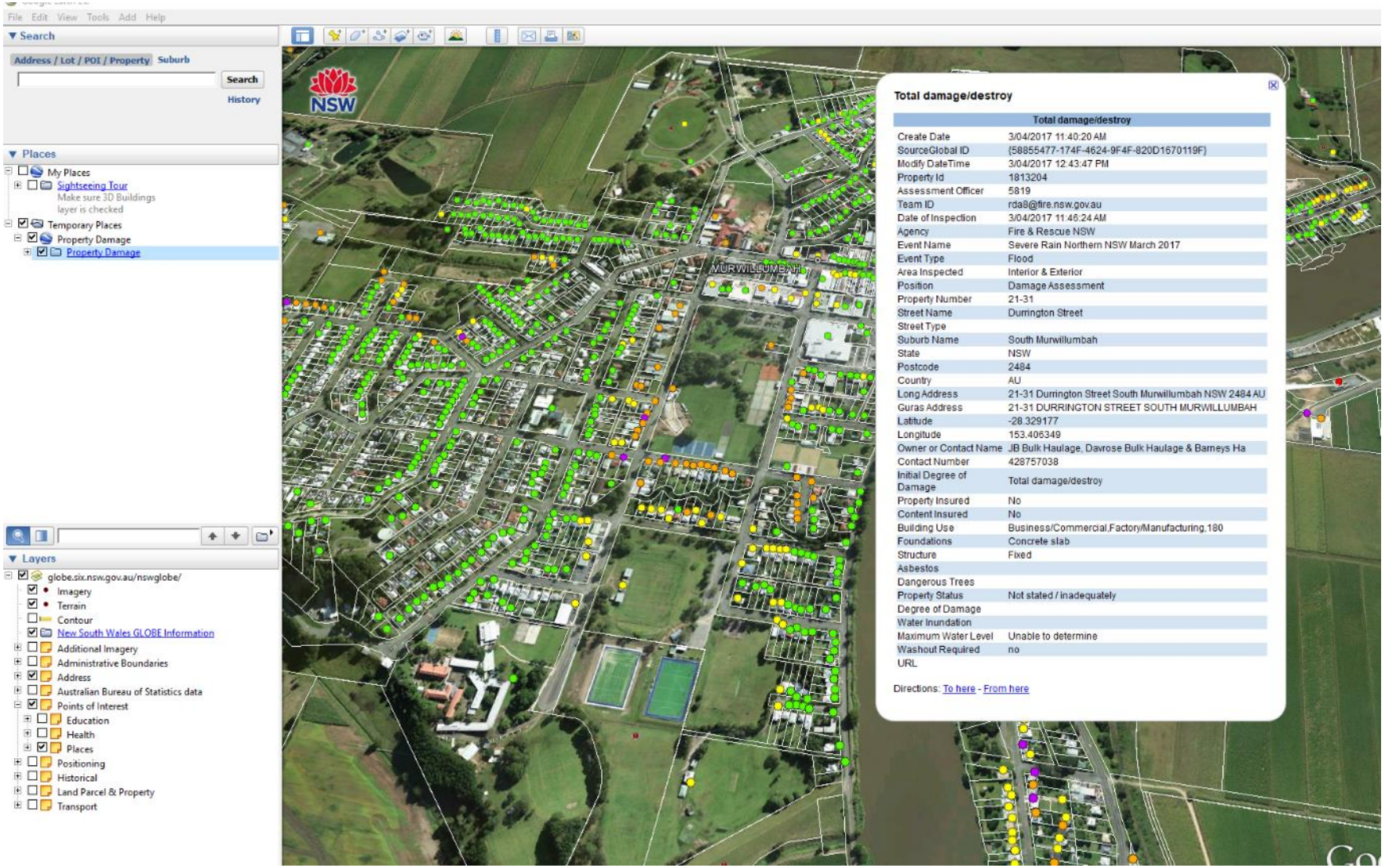
PDF

Excel Pivot Tables/Chart Map

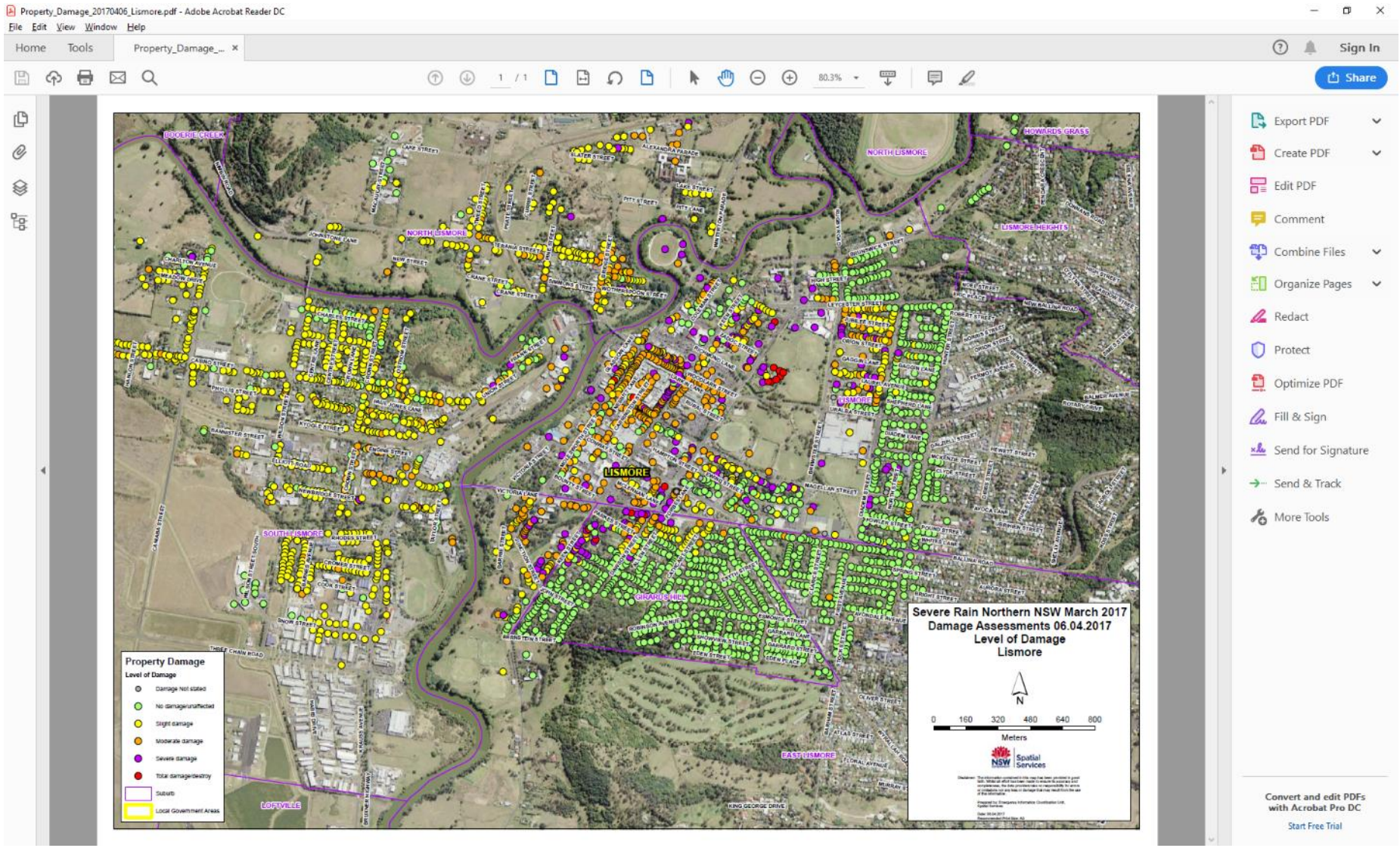
Property Affected Cadastre Maps

File Geodatabase/ Shape files/ Tab files

KML FILES – GOOGLE EARTH



GEOPDF MAPS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Home Tools
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Sign In
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Export PDF
Create PDF
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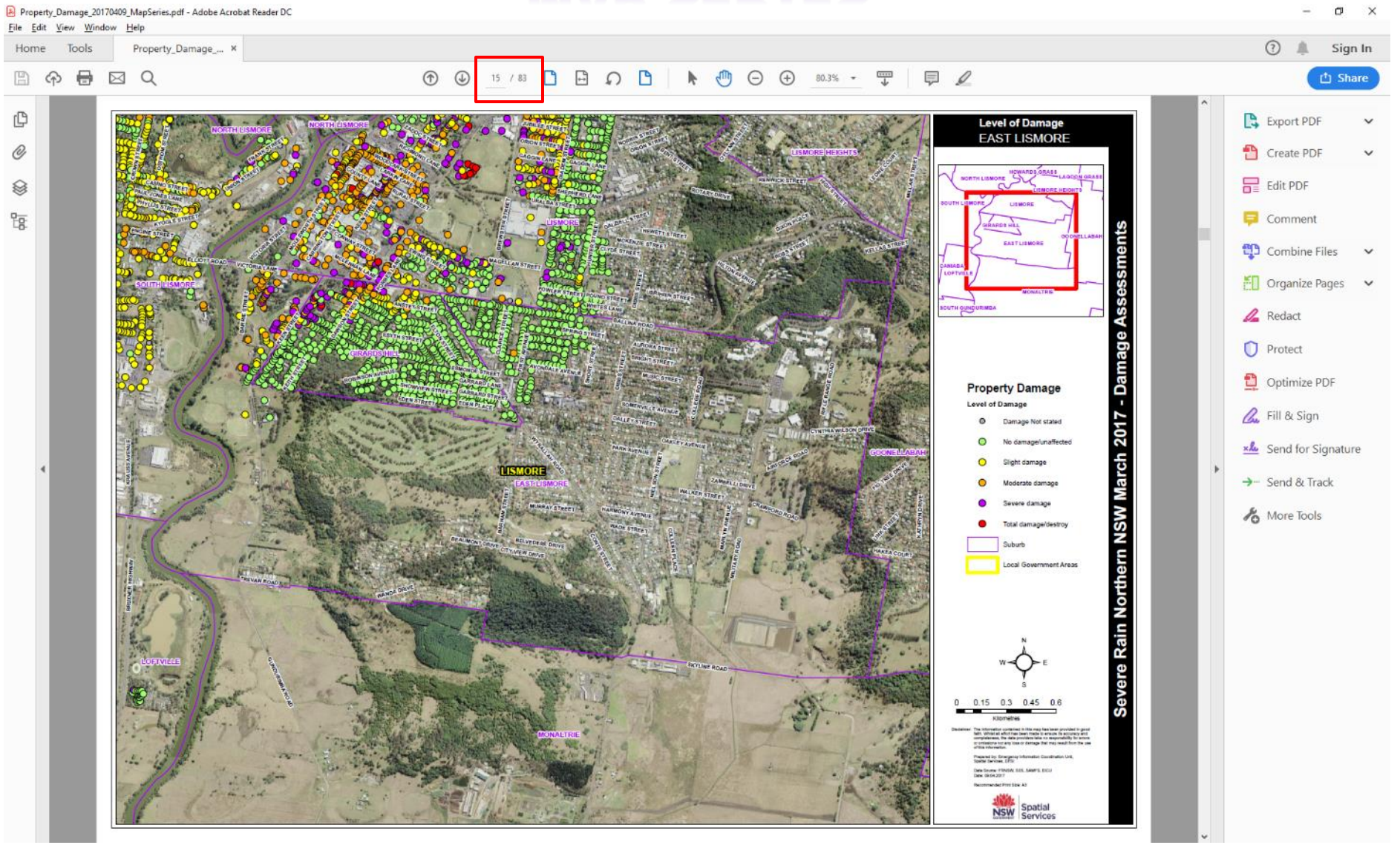
Organize Pages
Redact
Protect
Optimize PDF
Fill & Sign
Send for Signature
Send & Track
More Tools
Convert and edit PDFs with Acrobat Pro DC
Start Free Trial
BOOERIE CREEK
NORTH LISMORE
HOWARDS GRASS
LISMORE HEIGHTS
LISMORE
SOUTH LISMORE
GIRARD HILL
EAST LISMORE
LOFTVILLE
Property Damage
Level of Damage
Damage Not stated
No damage/unaffected
Slight damage
Moderate damage
Severe damage
Total damage/destroy
Suburb
Local Government Areas
Severe Rain Northern NSW March 2017
Damage Assessments 06.04.2017
Level of Damage
Lismore
N
0 160 320 480 640 800
Meters
NSW Spatial Services

MAP SERIES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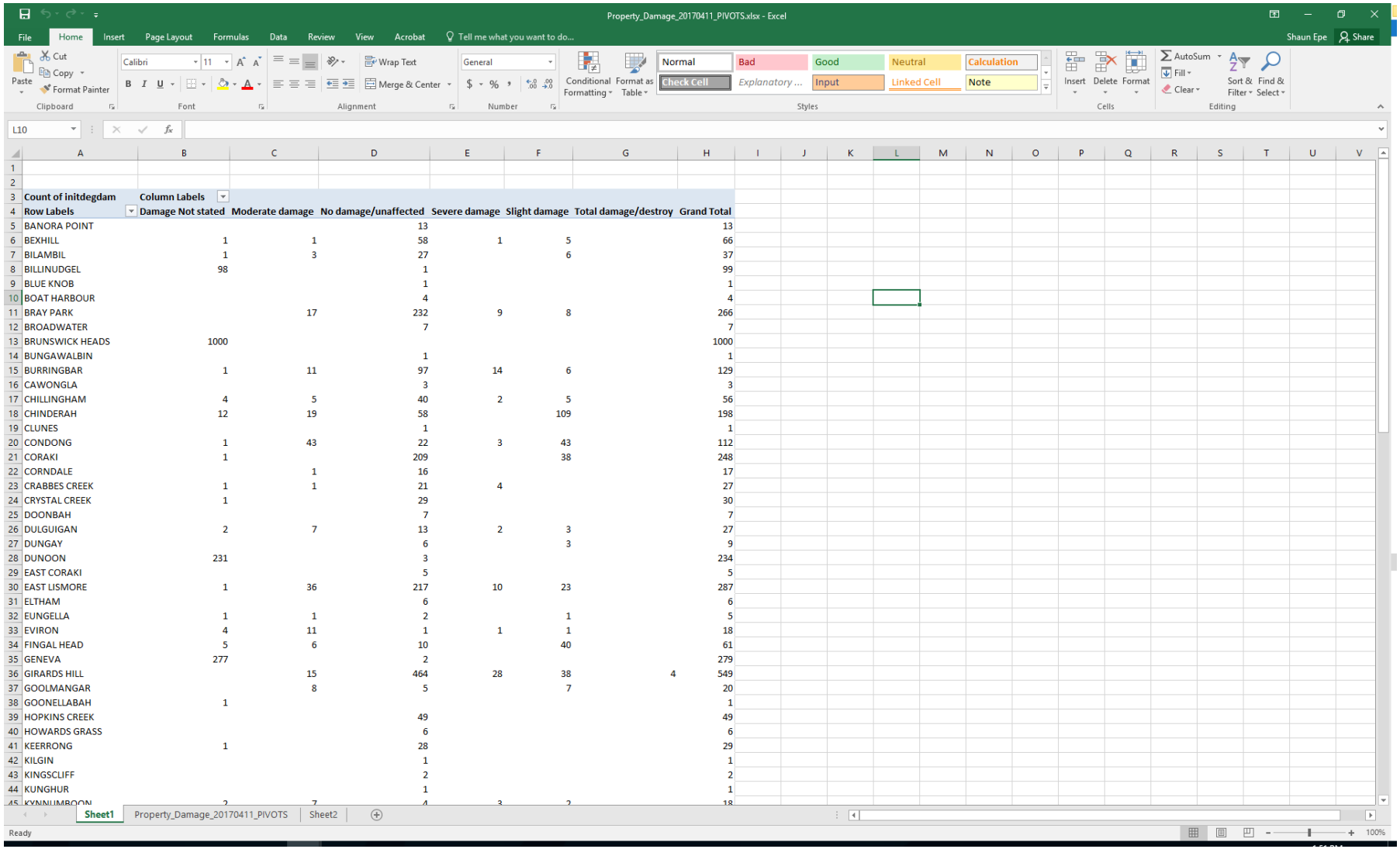
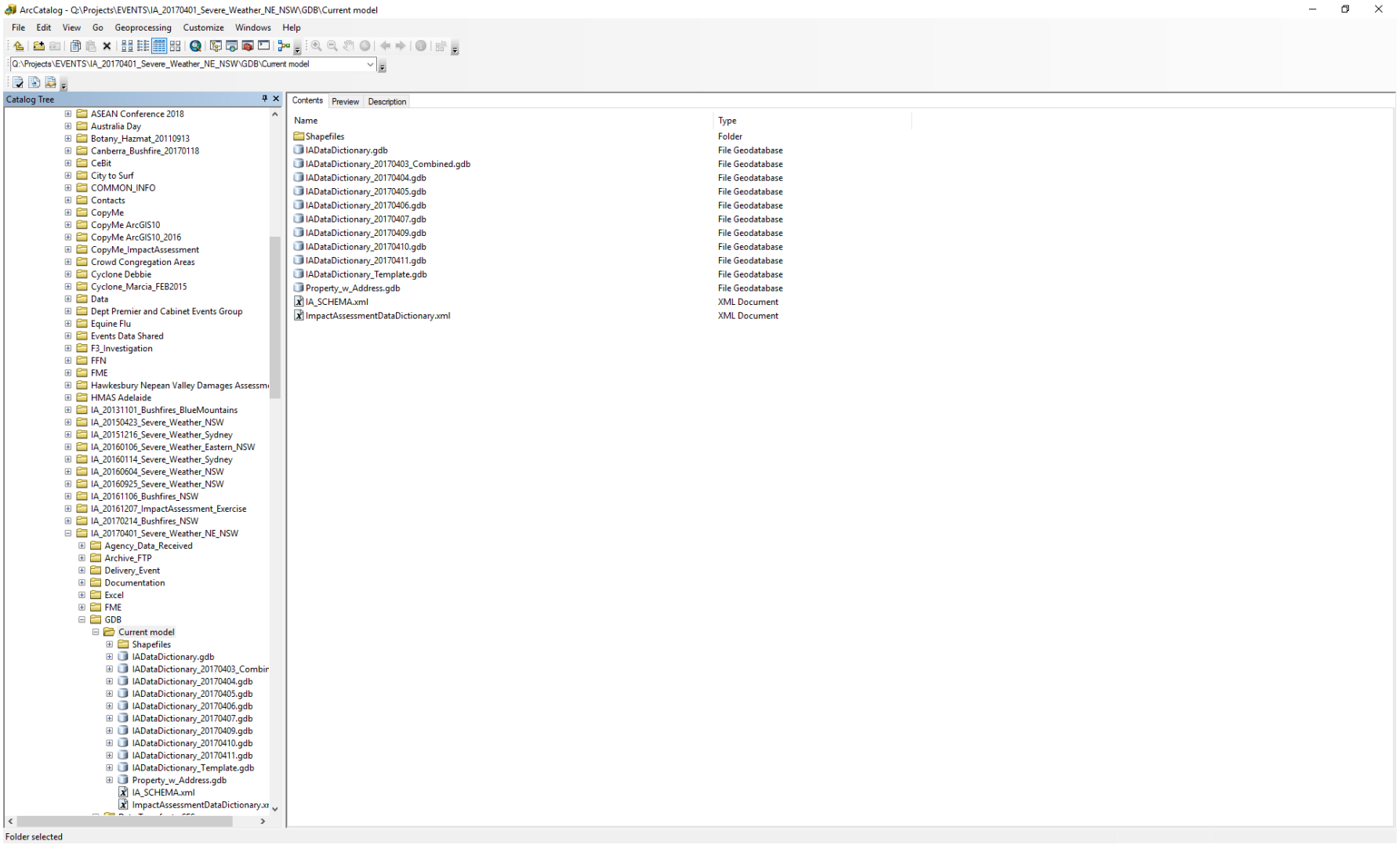
Sign In
Share
15 / 83
80.3%
Level of Damage
EAST LISMORE
Property Damage
Level of Damage
Damage Not stated
No damage/unaffected
Slight damage
Moderate damage
Severe damage
Total damage/destroy
Suburb
Local Government Areas
Kilometres
Severe Rain Northern NSW March 2017 - Damage Assessments
Spatial Services
Export PDF
Create PDF
Edit PDF
Comment
Combine Files
Organize Pages
Redact
Protect
Optimize PDF
Fill & Sign
Send for Signature
Send & Track
More Tools

EXCEL SPREADSHEETS



Count of initdegdam	Column Labels						
Row Labels	Damage Not stated	Moderate damage	No damage/unaffected	Severe damage	Slight damage	Total damage/destroy	Grand Total
BANORA POINT			13				13
BEXHILL	1	1	58	1	5		66
BILAMBIL	1	3	27		6		37
BILLINUDGEL	98		1				99
BLUE KNOB			1				1
BOAT HARBOUR			4				4
BRAY PARK		17	232	9	8		266
BROADWATER			7				7
BRUNSWICK HEADS	1000						1000
BUNGAWALBIN			1				1
BURRINGBAR	1	11	97	14	6		129
CAWONGLA			3				3
CHILLINGHAM	4	5	40	2	5		56
CHINDERAH	12	19	58		109		198
CLUNES			1				1
CONDONG	1	43	22	3	43		112
CORAKI	1		209		38		248
CORNDALE		1	16				17
CRABBES CREEK	1	1	21	4			27
CRYSTAL CREEK	1		29				30
DOONBAH			7				7
DULGUIGAN	2	7	13	2	3		27
DUNGAY			6		3		9
DUNOON	231		3				234
EAST CORAKI			5				5
EAST LISMORE	1	36	217	10	23		287
ELTHAM			6				6
EUNGELLA	1	1	2		1		5
EVIRON	4	11	1	1	1		18
FINGAL HEAD	5	6	10		40		61
GENEVA	277		2				279
GIRARDS HILL		15	464	28	38	4	549
GOOLMANGAR		8	5		7		20
GOONELLABAH	1						1
HOPKINS CREEK			49				49
HOWARDS GRASS			6				6
KEERRONG	1		28				29
KILGIN			1				1
KINGSCLIFF			2				2
KUNGHUR			1				1
KYNNUMBOON	2	7	4	3	2		18

GIS DATA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CeBit
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Dept Premier and Cabinet Events Group
Equine Flu
Events Data Shared
F3_Investigation
FFN
FME
Hawkesbury Nepean Valley Damages Assessm
HMAS Adelaide
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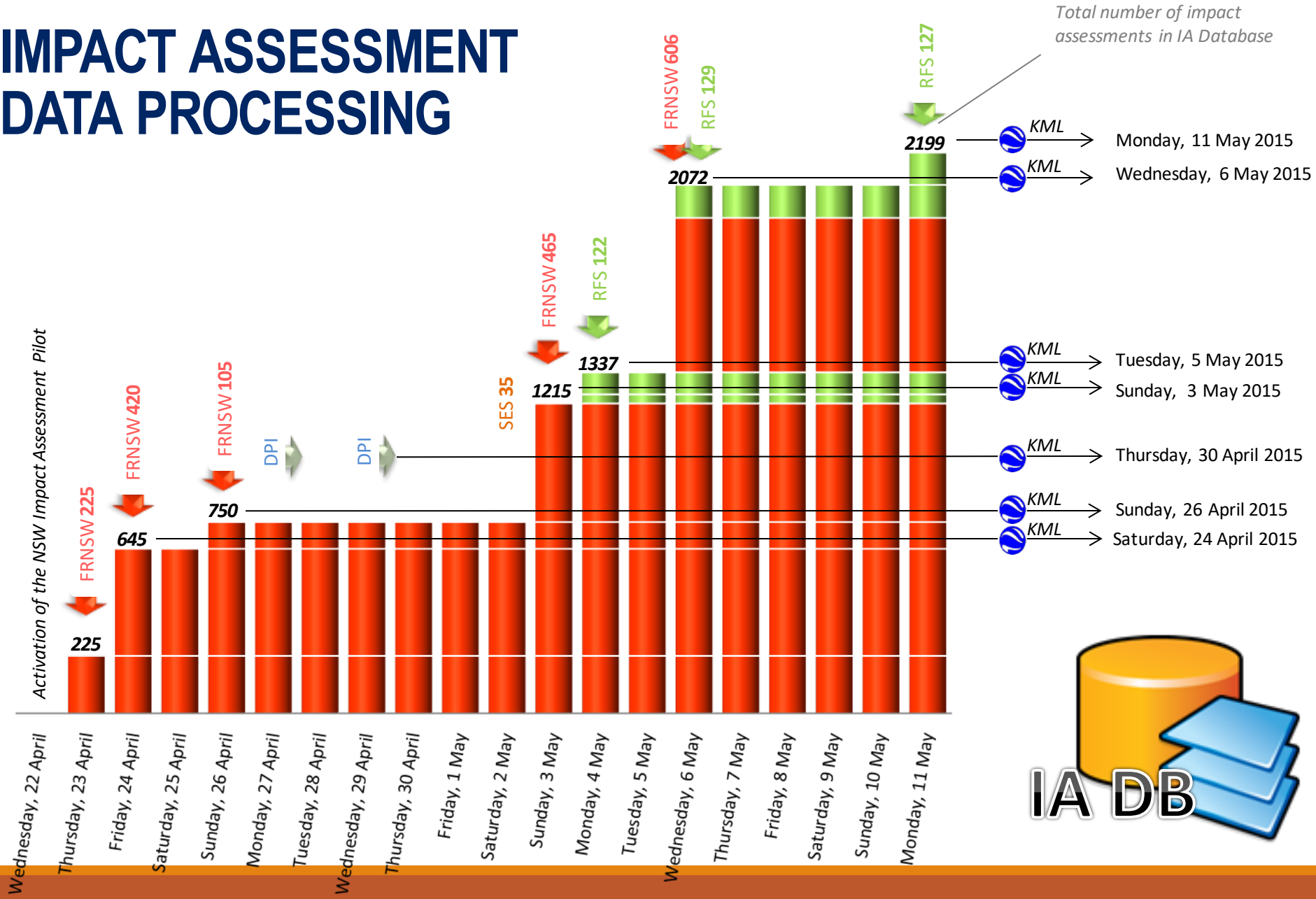
IMPACT ASSESSMENT DATA PROCESSING



QUESTIONS