





European Space Agency





Smart Water Management has no borders

Partners

- •International Software
- Funding Support
- •Local Partners

Smart, Cost effective, solutions





















Australia A Water Control Room for the Goulburn Broken CMA











Boundary Work: Goulburn Broken CMA

- Boundary Setting:
 - Riverine water quality & environmental management and monitoring
 - Information must be operationally available
 - Data located externally. Did not meet their specific information needs
- Boundary Object: HydroNET Water Control Room
 - Personalised live data in the field

Concept: Turning Data into Decision Support

Boundary

Boundary Organisation: Goulburn Broken CMA Effective environmental monitoring and management

Boundary object: HN Water Control Room

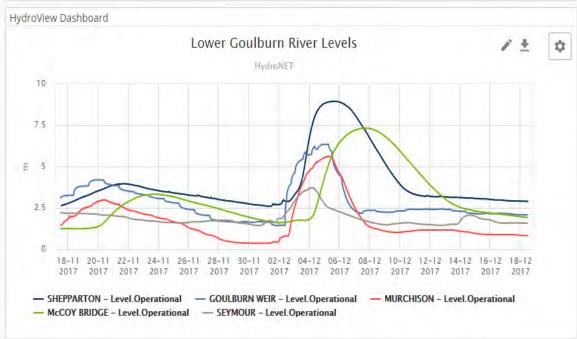
Boundary Setting: Smart Data Access

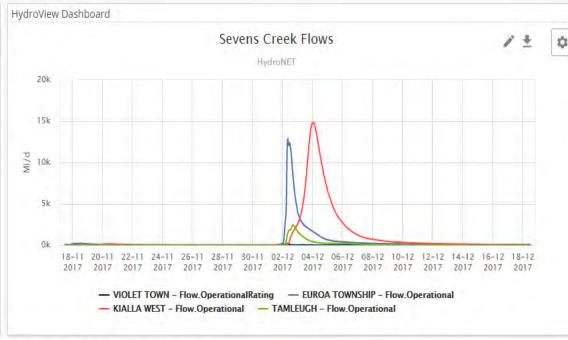


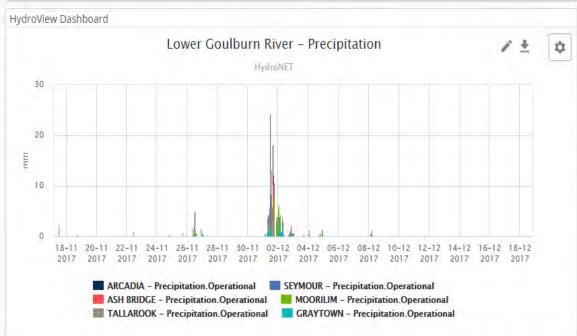


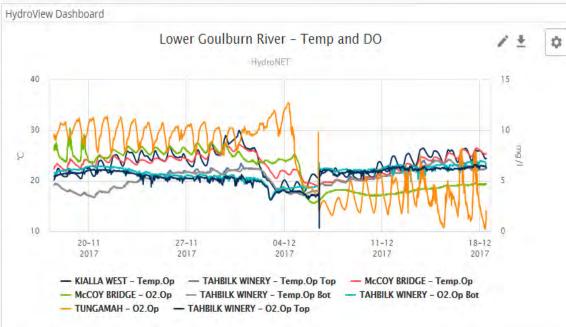




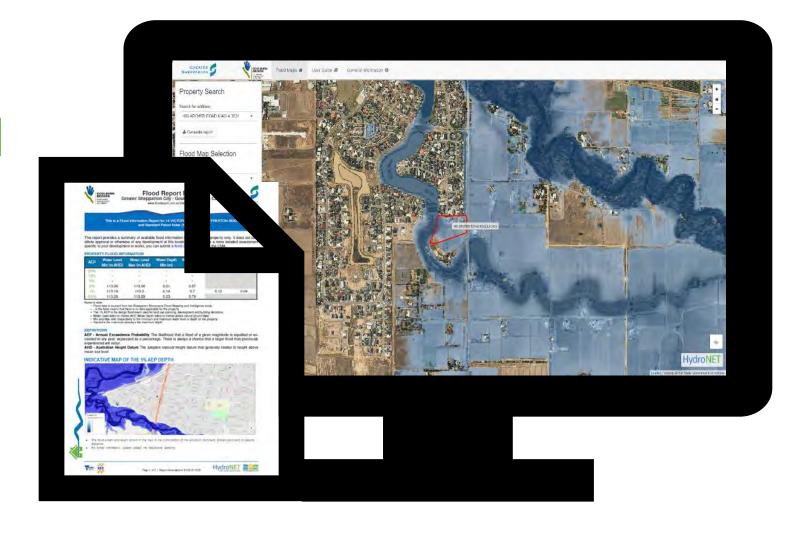








Shepparton Property Flood Information and Report Portal









Boundary Work: Shepparton and GBCMA

- 2011 floods = new legislation
 - Flood studies and sharing of flood (intelligence) risk information
- Lots of flood studies resulted but:
 - Not readily accessible and split across different organisations in different formats
 - Manual, repetitive, time-consuming, resource heavy to provide
 - Thus, users often requested later in development process
- A Need for Councils and CMA's to:
 - improve community flood resilience
 - provide property specific flood information
 - improve internal human resource utilisation

Boundary Concept:

Turning Data into
Decision Support

Boundary Organisation: Shepparton City

Shepparton City and Goulburn Broken CMA Boundary Work
Sharing Flood
Information

Boundary object: Flood Map Portal

- Simple
- Live links to official data
- Reports processed onthe-fly

Boundary Setting:

Smart Service Delivery, resilience, Transparency, trust, confidence

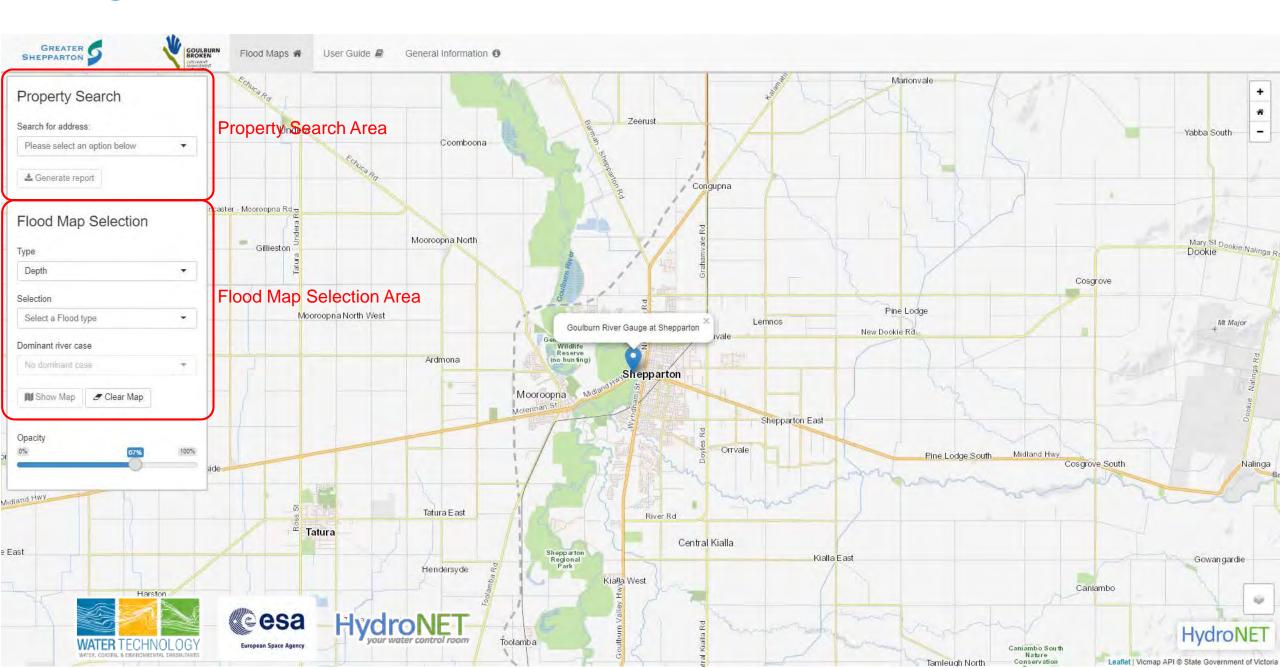




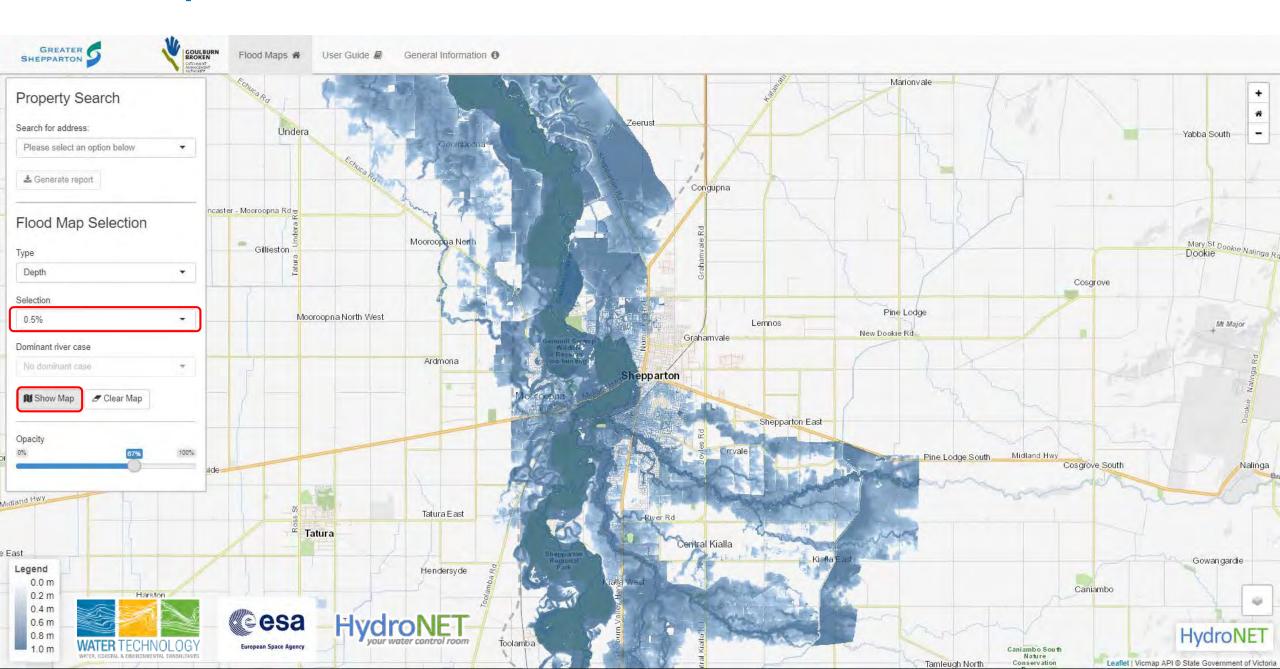




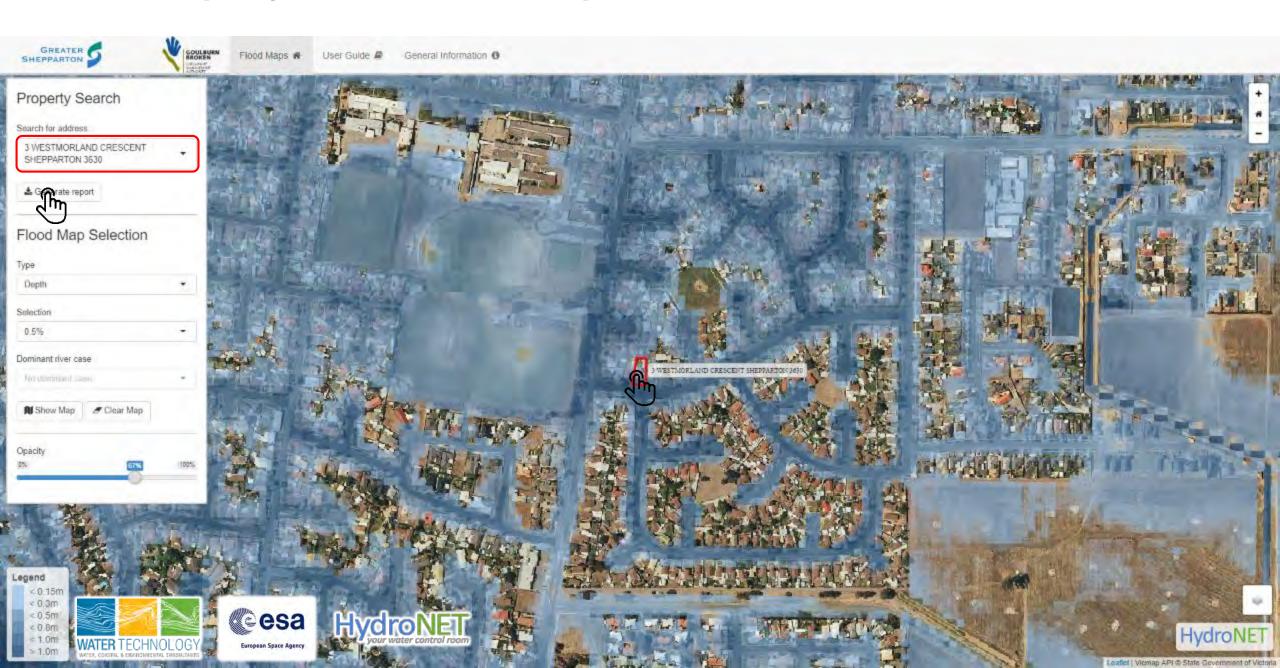
Using the Portal



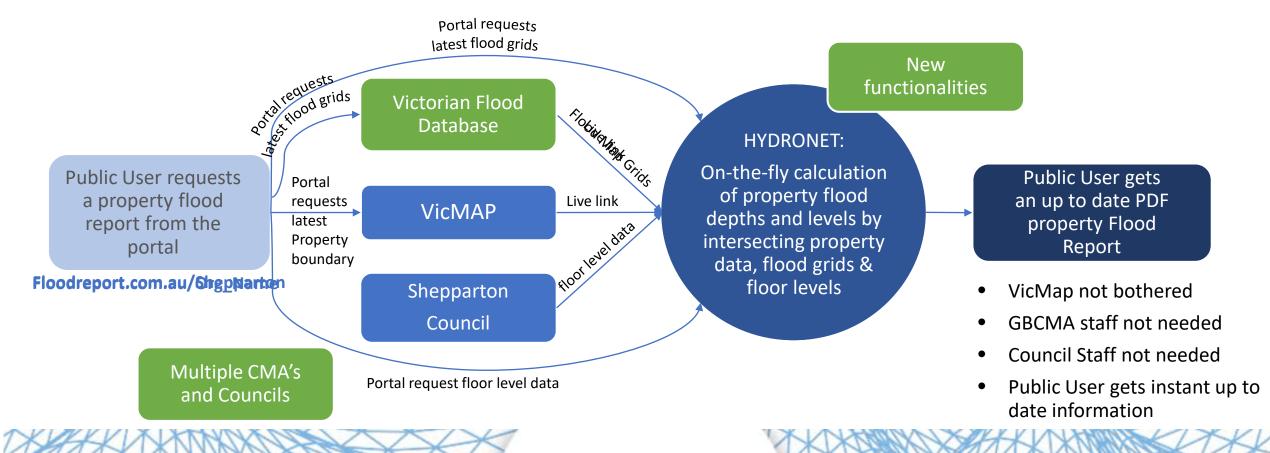
Flood Map Selection - AEP



Select Property and Generate Report



Current Flood Report Generation Process













Report

GOULBURN BROKEN

Flood Report Portal Greater Shepparton City / Goulburn Broken CMA

www.floodre.port.com.au/Shepparton



This is a Flood Information Report for 303 ARCHER STREET SHEPPARTON 3630, and Standard Parcel Index (SPI) 55\LP92569

This report provides a summary of available flood information for the selected property only. It does not constitute approval or otherwise of any development at this location. If you require a more detailed assessment specific to your development or works, you can submit a flood advice request to the CMA.

PROPERTY FLOOD INFORMATION

AEP	Water Level Min (m AHD)	Water Level Max (m AHD)	Water Depth Min (m)	Water Depth Max (m)	Max Velocity (m/s)	Max Hazard (VxD)
20%	-	-	-	-		
10%	(4)	14	1-1	191		
5%	4		1.0	79		
2%	113.63	113.63	0.01	0.78		
1%	113.65	113.65	0.01	0.8	0.45	0.12
0.5%	113.86	113.87	0.2	1.02		

- · Flood data is sourced from the Shepparton Mooroopna Flood Mapping and Intelligence study.
- · in the table means that there is no data applicable for the property.
- . The 1% AEP is the design flood event used for land use planning, development and building decisions.
- · Water Level refers to metres AHD. Water Depth refers to metres above natural ground level.
- . Min and Max refer respectively to the minimum and maximum water level or depth on the property.
- · Hazard is the maximum velocity x the maximum depth.

AEP - Annual Exceedance Probability The likelihood that a flood of a given magnitude is equalled or exceeded in any year, expressed as a percentage. There is always a chance that a larger flood than previously experienced will occur.

AHD - Australian Height Datum The adopted national height datum that generally relates to height above mean sea level.

INDICATIVE MAP OF THE EXTENT AND DEPTH OF THE 1% AEP FLOOD





For further information, please contact the responsible authority.



esa

European Space Agency











Flood Report Portal www.floodreport.com.au/Shepparton.



FLOOD PREPAREDNESS TABLE

Scenario	Goulburn River @ Shepparton Gauge Level	Flood Class / Design Level ⁽¹⁾	Water Level ⁽²⁾ (m AHD)	Water Depth over floor ⁽²⁾ (m)
Gaultern Dominant	9.5	~ Minor	-	
	10.1			
	10.7	~ Moderate	-	-
	10.9		14	
	11.1	~ Major (20% AEP)		-
	11.3	~ 10% AEP	- 3-	-
	11.7	~ 5% AEP		
	12.1	~ 2% AEP	112.99	-0.31
	12.2	~ 1% AEP	113.11	-0.19
	12.3	~ 0.5% AEP	113.11	-0.16
ī	9.5	→ Minor		
	10.1		-	
듣	10.7	~ Moderate		
ş	10.9		-	-
Su.	11.1	~ Major (20% AEP)		
8	11.3	~ 10% AEP	-	100
	11.7	~ 5% AEP		-
Broken / Sevens dominant	12.1	~ 2% AEP	113.06	-0.24
	12.2	~ 1% AEP	113.16	-0.14
	12.3	~ 0.5% AEP	113.28	-0.02
	9.5	~ Minor		
	10.1		_	
	10.7	~ Moderate	-	
	10.9			
2	11.1	~ Major (20% AEP)		-
Neutral	11.3	~ 10% AEP		
	11.7	~ 5% AEP		
	12.1	~ 2% AEP	113.03	-0.27
	12.2	~ 1% AEP	113.19	-0.11
	12.3	~ 0.5% AEP	113.26	-0.04
Historic	Modelled 1974 Flood	4.745.27	113.11	-0.19
	Modelled 1993 Flood		112.79	-0.51
	Modelled 2010 Flood			101

- . The surveyed floor level for this property is 113.3m AHD, and is sourced from the Shepparton Mooroopna Flood Mapping and Intelligence study (SKM, 2002), where available. - in the table means that floor level data is not available for the property.
- . (1) This is the approximate Flood Class or Design Level, based on the amalgamation of all dominance case scenarios. The actual design level will differ depending on actual events and influences from each of the Goulburn River, Broken River and Seven Creeks.
- . (2) Water Level' and Water Depth Over Floor' are applicable at the location of the surveyed floor level for this property, usually being the front of the main building.
- If your property is not affected by flooding, you may be impacted indirectly by road closures, isolation & disruption to essential services.

FURTHER INFORMATION

Further definitions, information and resources relevant to this report is available in the 'General Information' document available for download at the flood information portal.

TERMS, CONDITIONS, COPYRIGHT AND DISCLAIMER

This report is subject to the copyright and disclaimer of the flood Information portal, which you accepted by clicking on the "Agree and Continue" button when entering the portal, and which is available for download on the portal.







Summary: "Turning Data into Decision Support"

- Smart Water Management needs Information for decision support
 - Turn Data into Information
 - Make readily accessible and personalised
 - Share it and collaborate
 - Turn Information into knowledge
 - Boundary works helps to conceptualise the setting for developing smart solutions
- Partner chain approach:
 - International software and funding support cost effective
 - Local Partner provides local knowledge needed to determine smart solutions
- Boundaries Broken
 - Flood Portal
 - Funding Flood portal affordable and expansion possible
 - Latest data used in reports Vicmap API
 - 4 Organisations involved in report generation, Public has easy access
 - GBCMA Water Control room
 - GBCMA connects with GMW with no added burden to GMW
 - Disparate Data is now personalised and in the various format needed. No headaches to process and compile.









Thank You