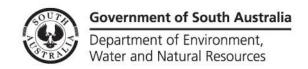
## Tiered report cards: Lessons from the Murray

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### Why have tiered Report Cards?

- Consistent messaging
- Cost effective
- Allows for an integrated approach to reporting
- Better linked to informing management

### Steps to help structure tiered report cards

- 1. What's out there?
- 2. What, for who and why?
- 3. Seek alignment
  - Objectives and targets
  - Spatial scales
  - Projects and programs
- 4. The logic test
- 5. Structure you reporting

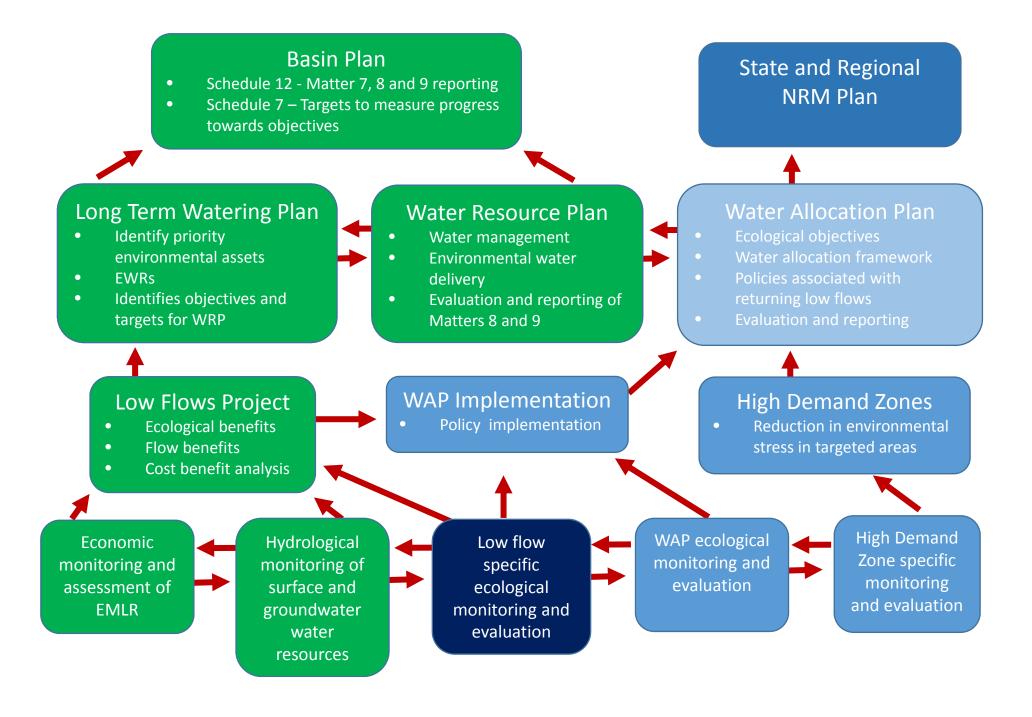
#### 1. What's out there?

- Brainstorm
- Map it all out plans, programs, projects, reporting
- What influences what?
- What's connected, what isn't?

Water Allocation
Plan
Implementation

Policy implementation





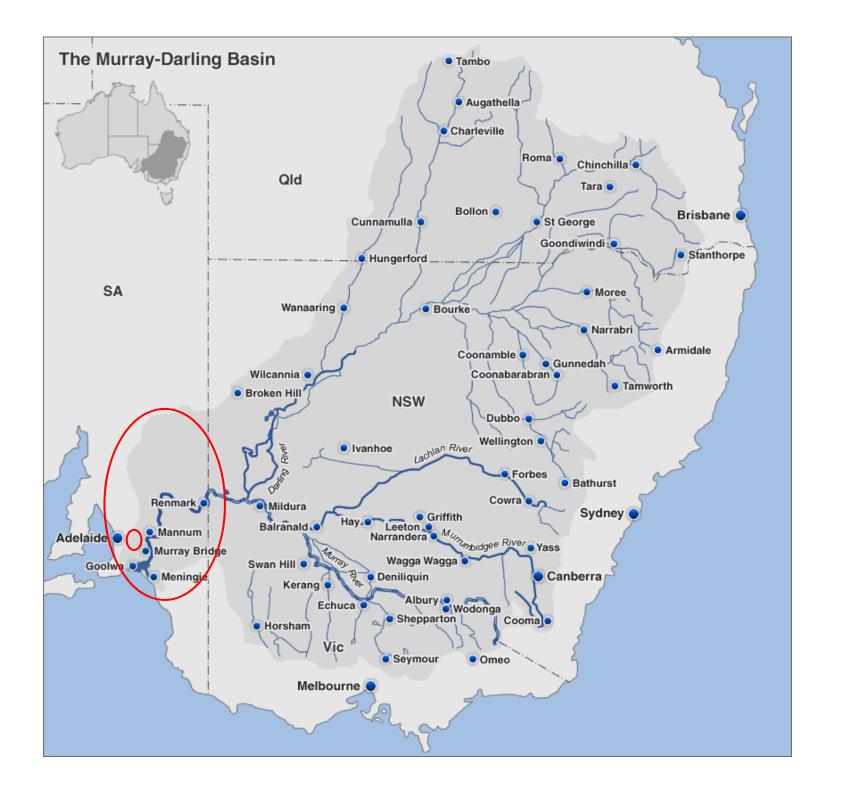
#### 2. What, for who and why?

Who wants what report card and for what reason?
Consider spatial scales and how that links to decision making

Local scale = local planning

State scale = investment at a large scale



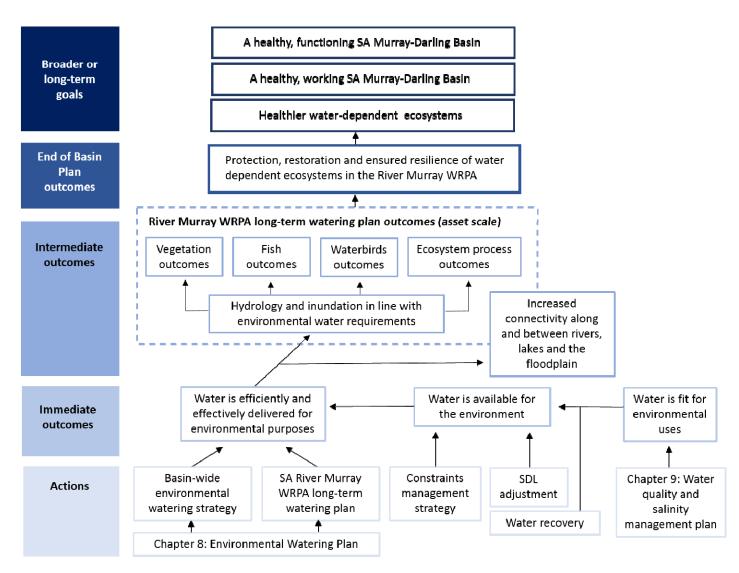


# 3. Align objectives, targets, evaluation questions and spatial scales

How do existing/proposed report cards fit together? What are the programs/projects which feed into, drive or support your report cards?

									Alignment					Monitoring Data	ta Source - state what data is coming		
t ·	Theme	Objective	Target	Species	Attribute	Prioritisa tion Score	Basin Plan objective (specific)	BVEVS objective/ expected outcome	TLM objective	Ramsar reporting/LAC	SARFIIP	Trend and Condition Reporting	TLM	LTIM	MDBA condition monitoring	Murray Futures	Nati SAN mor
	Ecuryrtom princarras	habitet end processes for	Hebitat acress the range of valually clearer is present in the lease third of unit posts for at least 60 consecutive days in Seg-Her, at a maximum interval of 2 years.	Habitet	Volucity class distribution	*		To keep base flows at least 60% of the natural level AND 30% overall increase in flows in the Fliver Murray, from increased tributary contributions from the Murrumbidgee, Goulburn, Campaspe, Loddon and Lover Darling catchments collectively									
			In an dation parise is temporery well only have unrestricted lateral connectivity between the river and well on its 190% of invadation events.	Hydrology	Direkerge, water lavel and deretion	,		30 to 60% increase in the frequency of freshes, bank-ful and lowland floodplain flows in the Murray, Murrumbidgee, Goulburn-Broken and Condamine-Balonne catchments									
	Water enality	Haintain water quality to paper togeth chiata and named biogeochemical processes.	Bisvalumo (10 mm3 L-1 far all Cyanabacterio, uhero taxinz ero nat prarent	Oyenab esteria	Biovelune	,		To keep base flows at least 80% of the natural level AND 30% overall increase in flows in the Fliver Murray, from increased tributary contributions from the Murrumbidgee, Goulburn, Campaspe, Loddon and Lower Darling						Sampled at less than 6 week intervals between Sept and March			
	vacor quanty		Bisvalumo of mm3 L-1fer ell Cyanaba eterie, ubere a knaun tasin praducer ir daminant.	Cyonebocturia	Bievelune	,		To keep base flows at least 60% of the natural level AND 30% overall increase in flows in the Fliver Murray: from increased tributary contributions from the Murrumbidgee, Goulburn, Campaspe, Loddon and Lower Darling						Sampled at less than 6 week intervals between Sept and March			
	Other	Premate bacterial rather than algel deminence of blofilms and improve feed resource quality for consumers.	Annual median biafilm composition is not dominated (\$80%) by filementour aleas.	Biofilms	Comparition											BBP, intervention	
odplain		Durtum verifiers papalation of Final dependent procedure within the SARM	Abundanco (CPUE[1]) of qoldon porch andribrer porch increases by 2017, aver a 5-year period.	Galdon porch andzilver porch	Abundance	19		A 10–15% increase of mature fish (of legal take size) for recreational target species (Murray cod and golden perch) in key populations	Maintain or increase diversity, extent and distribution of native fish species		Abundence (CPUE) af quiden perch en d zilvor perch exhibits a paritive trajectory, uith increases af 201/2 more a 5-year perior from 2020 AND Mainten ence ar enhanced wheat af province corner the site or		Chovilla, annual				T
			Papulation agestructure of golden pench and ellers perch includes TOT[2] with sub-adults and adults in 8 years in 10.	flation paret and eileer porch	Papadatina aqu structuro	11		Improved population structure (i.e. a range of size/age classes for all species and stable sax ratios where relevant) in key sites. This will require	Maintain or increase diversity, extent and distribution of native fish species		Meintenance or enhanced extent of species across the site as indicated by species specific extent index		Chovilla, annual				
	Firk		Papulation equatrosters of quiden porch and aliver porch in dicator a large recruitment (3) avant 2 years in 5, domonstrated by separate cohorte representing 30% of the population.	Galdenporch andzilverporch		11		annual reproliment arrante in at least eight out of improved population structure (i.e. a range of size/age classes for all species and stable sex ratios where relevant) in key sites. This will requir at the recultment events in at least eight out of 10 mars at 80% of key sites with at least forum of	Maintain successful recruitement of small- and large-bodies native fish		Meintononce er enhanced extent ef species a cress the site as indicate d by species specific "extent index"		Chovilla, annual				
			Abundance (CPUES) of Hurrey and increases by 250% over a 10-year period.	Murray cad	Abundance	10		A 10-15% increase of mature fish (of legal take size) for recreational target species (Murray ood and golden perch) in key populations	Maintain or increase diversity, extent and distribution of native fish species		Abundenco (CPUE) of Murray and oxidity a partitive trajectory more a Siyear paried from 2020 AND Maintenance or anhonced extent of pariety for a content of pariety and in		Chovilla, annual				
		circa annual sustar op ausers uithin the SARM	Papulation agestructure of Murray cod includes recent recruits, sub- edults and adults in 8 years in 10.	Murray cad	Population ogo atructuro	11		improved population structure (i.e. a range of strategies classes for all species and stable sex ratios where relevant) in key sites. This will require surround remainment aments in at laser sight out of improved population structure (i.e. a range of the classes).	Maintain or increase diversity, extent and distribution of native fish species		Recent retraitment of Parray and is avident as displayed by the presence of individuals of Ottom TLAND Plaintenance are nhance destent of species acres the site of individuals of the machine parties.		Chovilla, annual				
			Papulation equitare of Marray and indicator a large recruitment arount typer in 5, demonstrated by a cohort representing 50% of the annulation.	Murray cad	Papulation occ structure	11		size/age classes for all species and stable sex ratios where relevant) in key sites. This will require	Maintain successful recruitement of		avidant ar displayed by the prozence of individuals of Olemm TL AMD Maintenence or anhonce destent of species occurs the		Chowilla, annual				
		Maintain aviable, functioning fiver red gampsystation within the Fixe Spisin PER	Instandardised transects thatspan the managed flandslain elevetim gradient and existingspatial distribution 1762 of all trees have a Tree Condition Index Score (TCI) 210	Riverrodgum	Tree condition	13		No decline in condition of river red gum, black box and coobah across the Basin AND By 2024, improved condition of river red gum in the Lachlan, Murrumbidge, Lower Barling, Murray, Goulburn-Broken and Wimmera-Avoca	Maintain viable River Red Gum Populations within 70% (2414 ha) of River Red Gum woodland		(Same objective; for River Red Gum) In standardised transects that span the floodplain elevation gradient and existing spatial distribution, 100% of viable trees		Chovilla, annual				
	<b>T</b> ogotatian		Arustainable domagraphic (age atrusture) that matcher the muddled gradile for a visible papulation ir act ablished within soluting communities across the floodylein elevation gradient	River rod qum.	Papulation oge structure	12		Maintain the ourrent extent of forest and woodland vegetation including approximately: 360,000 heotares of inverred gum; 409,000 heotares of black box, 310,000 heotares of ooilbah ANID By 2014, improved recruitment of trees within river red gum; black box; and ooolbah	Maintain viable River Red Gum Populations within 70% (2414 ha) of River Red Gum woodland		By 2040		Chovilla, annual				
			Instandardised transcente that span the managed flandplain also etian gradient and existing spetial distribution, 270% of all treas have a Tree Condition Index Score (TCI) 210	Blackbas	Tree condition	12		No decline in condition of river red gum, black box and coobah across the Basin	Maintain viable Black Box populations within 45½ (2075 ha) of Black Box woodland		span the floodplain elevation gradient and existing spatial distribution, 100% of viable trees		Chovilla, annual				

# 4. Do these fit together? Is what you are doing what you want and need?



# 5.Using the above, come up with your tiered report card structure

Trend and Condition Report Cards (State scale)

#### **Matter 8 reporting**

River Murray WRPA

Eastern Mt. Lofty Ranges WRPA

Murray Region WRPA

Technical reports and evaluation reports

Ramsar Reporting

Commonwealth Based Murray Programs & Reporting

State Based Murray Programs & Reporting

**DATA** 

### Things to remember so it doesn't end in tears

- There is no such thing as green fields it probably won't come together naturally
- Don't be driven by the data, be drive by the questions
- Ask yourself regularly: are we doing the right stuff?
- Are your questions likely to change over time? Can you adapt to this if they do?
- Remember: It's unlikely to be straight forward!

### The ultimate goal:

To create a story and narrative through your report cards to affect decision making



