




MARINE ESTATE MANAGEMENT AUTHORITY

Working together to manage our marine estate

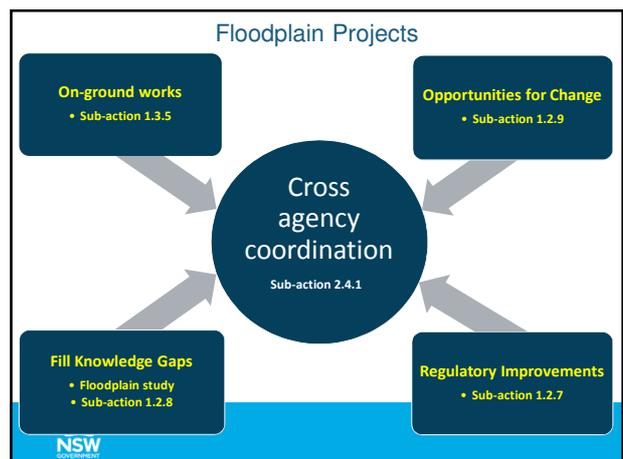
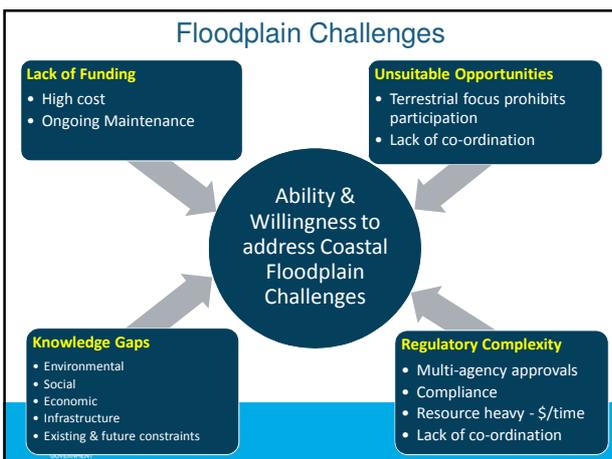
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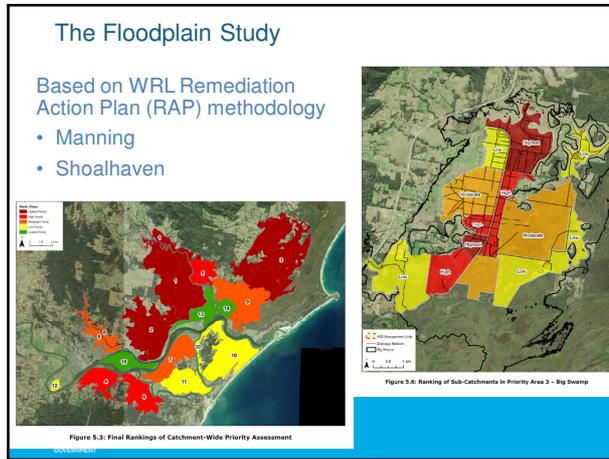
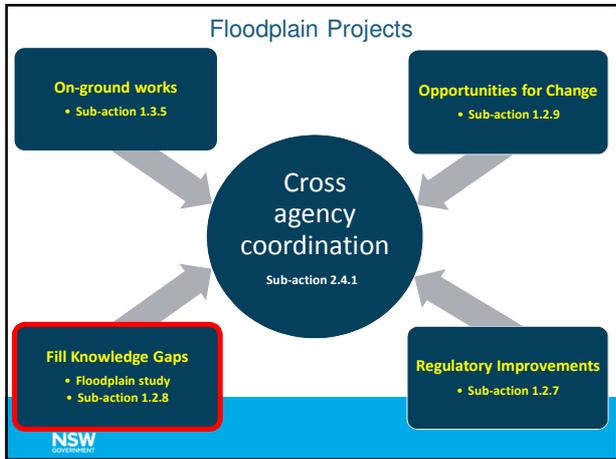



KYLIE RUSSELL – DPI FISHERIES

NSW marine estate management strategy
Coastal Floodplain Study

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Study locations

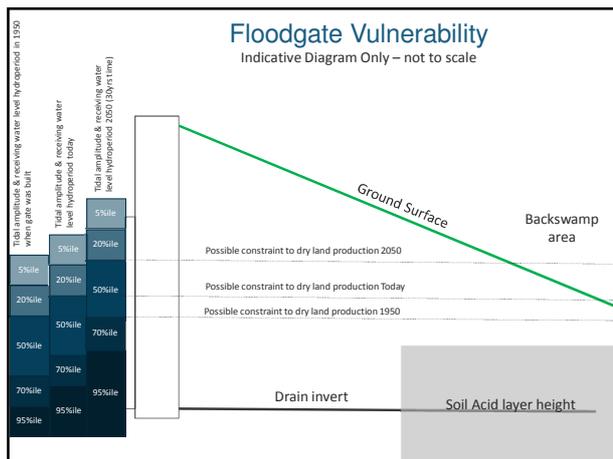
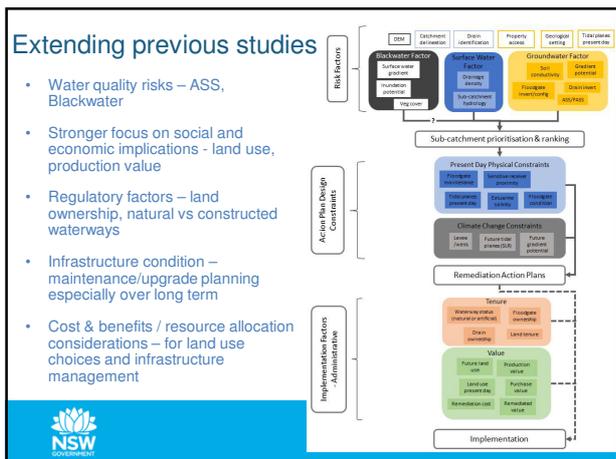
- Tweed
- Richmond
- Clarence
- Macleay
- Hastings
- Manning
- Shoalhaven

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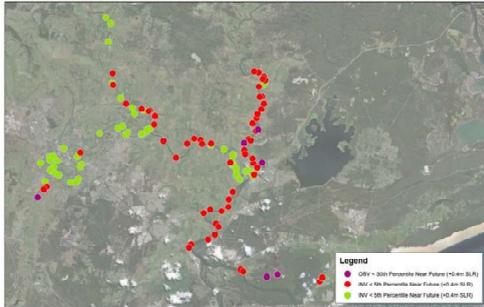
Multi-Criteria Risk-Based Priority Assessment

	← High priority/risk	Low priority/risk →	
Surface Water Factor	Drainage	Long, deep, wide drainage network Low-lying land	High drain invert, narrow, short network High topography
	Hydrology	Large catchment, high flow	Small catchment, low flow
Groundwater Factor	Groundwater	High hydraulic conductivity	Low hydraulic conductivity
	Water Quality	Low pH < 4 (history of acid)	Near neutral pH > 6 (no acid history)
	Acidic Soils	Shallow acidic layer (above drain invert and MSL)	Deeper acid layer (below drain invert and low tide elevation)
Indirect Factors Influencing Onsite Remediation	Sensitive Receivers	Nearby ASS drainage area	Far from ASS drainage area
	Asset Condition	Good condition	Poor condition/modified
	Climate Change	Elevation above future SLR projections	Elevation below future SLR projections

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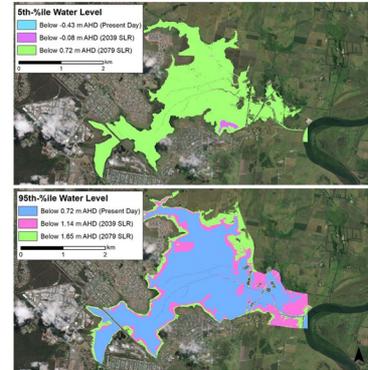


Floodgate functionality



Drainage Impacted Areas

- Spatial indications of compromised drainage due to SLR
- Selected locations only



Study Goals

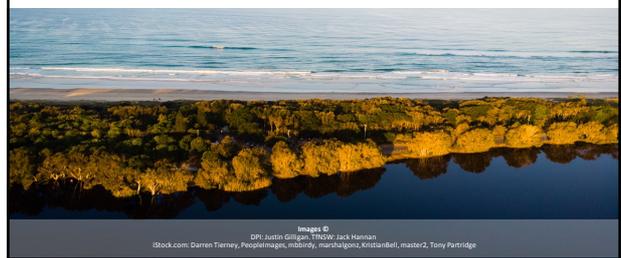
- Evidence base to prioritise.
- Social and economic implications / benefits.
- Floodplain constraints and opportunities – current and future.
- Provide info for government and landholders
 - infrastructure management
 - future landuse
- Provide Remediation Plans



Questions?

Special thanks to the WRL team

- Will Glamore
- Duncan Rayner
- Jamie Ruprecht



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