











## 1.2 Value of Ocean Pools

- 1. Revitalizing and future proofing likely to require significant investment
- 2. Framing investment in a **cost benefit framework**
- Understanding the impact on individual pools and the whole group as a state-wide coastal asset
- 4. Systematic direction of conservation and upgrades to maximize benefits



## 2.1 'Non-traded' values Most ocean pools are free -ie. no 'traded value' to measure their worth 1. Recreational pleasure enjoyed by individuals at the pool 2. Environmental engineered **habitats** and propagated **ecosystems** 3. Wellbeing/health swimming and exercise, healthier people 4. Tourism expenditure by visitors (to NSW) 5. Cultural and heritage symbolic and **cultural value** of pools 6. 'Non-use' pleasure / value experienced by non-users • existence value wants the rest of the community to have leave for future generations so they can enjoy it bequest value • option value might use in future SGS NICOLE LARKIN DESIGN ARCHITECTURE



2.3 Quantifying	net benefits
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Benefits	Monetisation techniques		Source
Recreational (User benefit)	Visitors: 150,000 (e.g. Dee Why Pool) Opportunity cost of leisure: \$18.40 Duration including travel time: 1 hour	Recreational benefit: 150,000 × 1 × 18.40 = \$2.76 million	https://www.atap.gov.au/parameter- values/road-transport/3-travel-time 'Oceans Pools- Contemporary Coastal Engineering Meets the Steam age' – James Carley UNSW WRL
Environmental	Not measured		
Wellbeing / health	Health benefit per visit to aquatic activity area: \$26.39 Visitors: 150,000	Health benefit: 150,000 × 26.39 = \$3.96 million	<u>rlss-economic-benefits-report-2017.pdf</u> [swimaustralia.org.au]
Tourism	Interstate and international visitation – expenditure for the state – accommodation and spending - difficult to isolate - marginal		
Cultural and heritage	Heritage value WTP per person: \$51.25 Catchment population: 31,043	Heritage benefit: 31043 × 51.25 = \$1.6 million	https://profile.id.com.au/northern- beaches/about?WebID=250#;-:text=The%2 02021%20Estimated%20Resident%20Populat ion.7%2C024%20persons%20per%20square% 20km.
Non use value	Non-use value represents individual 'willingness to pay' for the assets retention, regardless of personal use. Due to the nature of calculating the heritage value this is incorporated within that benefit. An additional non-use value may lead to double counting of benefits and therefore has been excluded.		
Total Benefits	Resear	ch results: 2.76 + 3.96 + 1.6 = \$8.32 million	

	Assumptions	Frequency	\$/per Pool
	Ongoing Maintenance Costs	Yearly	\$80,000
A	Allow 25% increase to current maintenance	Yearly	\$20,000
	Major refurbishment costs (Ave.)	Every 20 Years	\$850,000
В	Sink fund for major refurbishments le. 3 pools refurbed every year over 20 years	Annual contribution	\$42,500
С	Additional maintenance and refurb costs	Annual	Ş62,500



Total Ocean Pools In NSW59Average Visitation (Dee Why)150,000					
	Ave./Year	Value + 50%	Value		
Benefits	\$8,320,000	\$12,480,000	\$4,16		
Net additional costs (C)	\$62,500	\$93,750	\$3		
Weighted distribution		Benefits			
50% perform at ave.		\$245,440,000	\$1,84		
25% perform above ave.		\$184,080,000	\$1,38		
25% perform below ave.		\$61,360,000	\$46		
Annual benefits and cos across 59 Ocean Pools	sts	\$490.8M	ę		







## 3.0 Systematic direction of resources

- 1. Realisation of expanded benefits through systematic direction of policy and resources (Maximising net value)
- 2. Strategic/systematic management (Nominating which pool is appropriate for what and when) Nuanced upgrades for specific uses

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## 3.1 Application

- 1. Coastal Management Programs Manage and protect ocean pools. Inform systematic management of multiple ocean pools in an LGA.
- 2. Business Cases/Capital Works Funding Demonstrate cost benefit analysis to underpin a business case or qualify for funding
- 3. Strategic Coastal Policy and Planning Management and leverage of ocean pools as a state-wide asset-pool. Facilitate staged upgrades and equitable distribution of pool types/facilities



