



Valuing the benefits of water sensitive projects: an application to **Tarralla Creek Renaturalisation** Rita Chandra Yarra Valley Water

26-28 March 2019





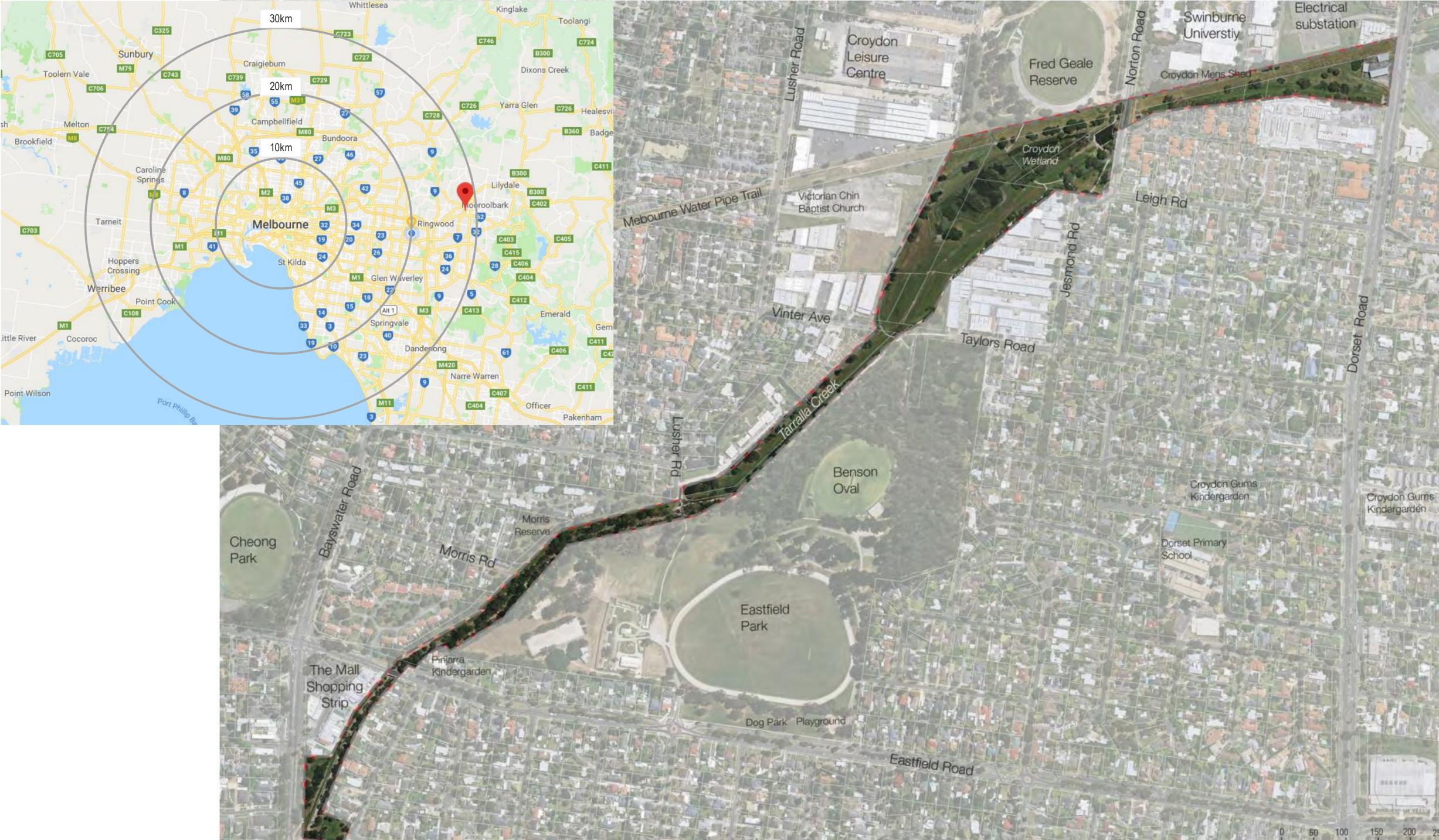
ustralian Government

artment of Industry and Science

Business











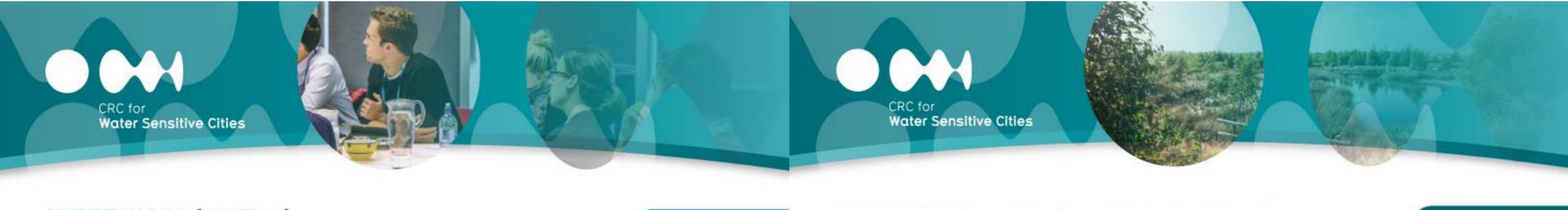


Project Drivers:

UNIDA UD

- Protect and enhance public green space
- Provide public health,
 environmental and economic
 benefits to the community





INFFEWS Value Tool

Industry Note Project IPR2





INFFEWS Benefit: Cost Analysis Tool

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Project basics Name of project Project name Project summary (up to 150 words on location, scale, activitie Project summary, up to 150 words.	Restore default values	Vid
Project name Project summary (up to 150 words on location, scale, activitie		
Project summary (up to 150 words on location, scale, activitie		
Project summary, up to 150 words.	s)	

- 1.3 Names of people responsible for completing this BCA Names
- 1.4 Date when this BCA was last updated 16-Mar-18
- 1.5 Goal or target for the project (25-50 words) Goal or target





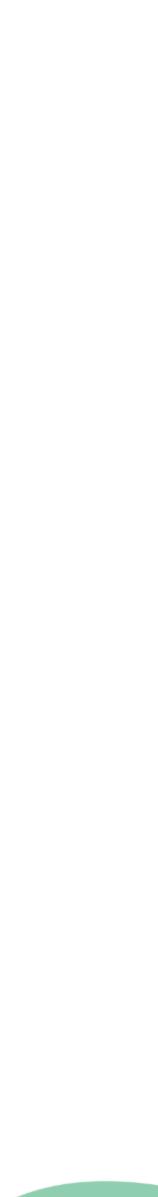


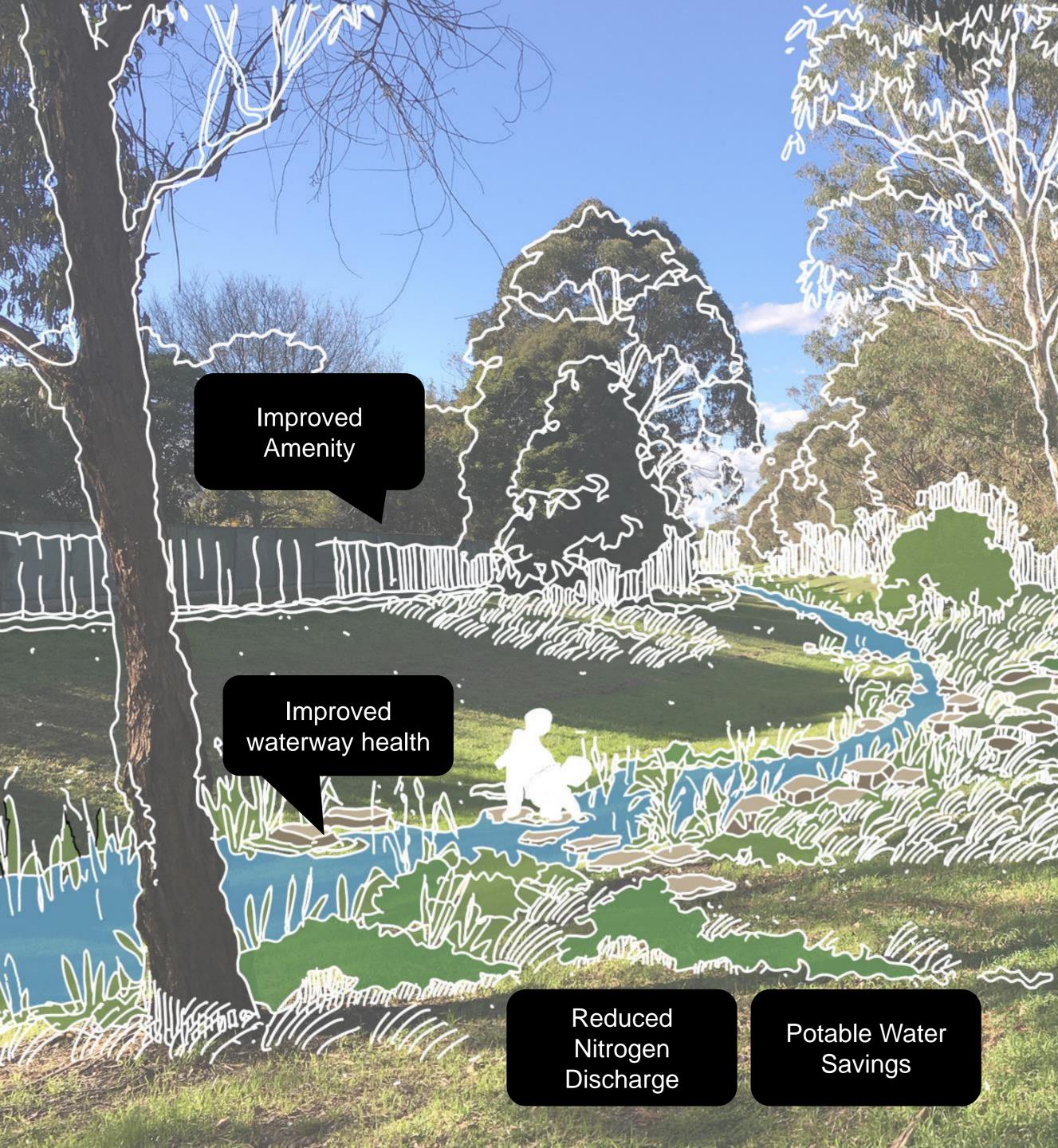


Getting everyone on the same page

- Clear project objectives
- Project activities
- Understand impacts on the community with and without the project







Improved health from active recreation

Increase in biodiversity

Improved health from access to greenspace

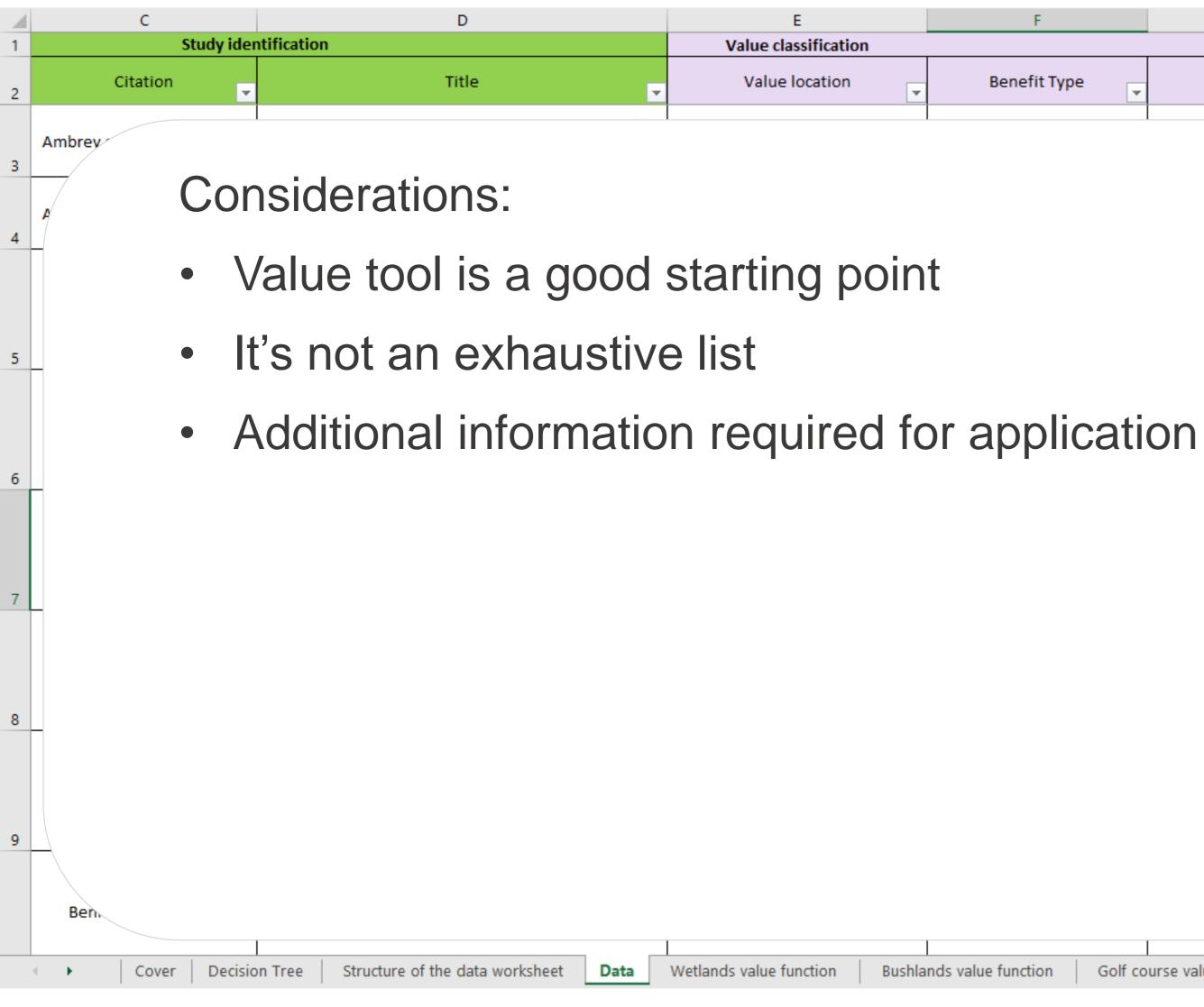
Increased Community Activation & Participation

Improved access to Sustainable Transport options

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				WTP measure	
e	Theme	Value Type	System / Service /	Definition of marginal change	Uni
	↓	· · · · · · · · · · · · · · · · · · ·	Context 💌		

Golf course value function	Salinity Be … 🔶	







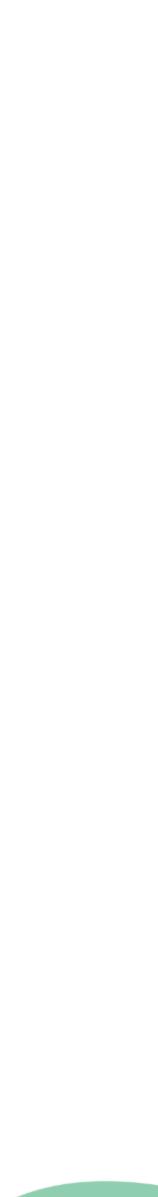
Benefit: Ecological Improvement – stream health

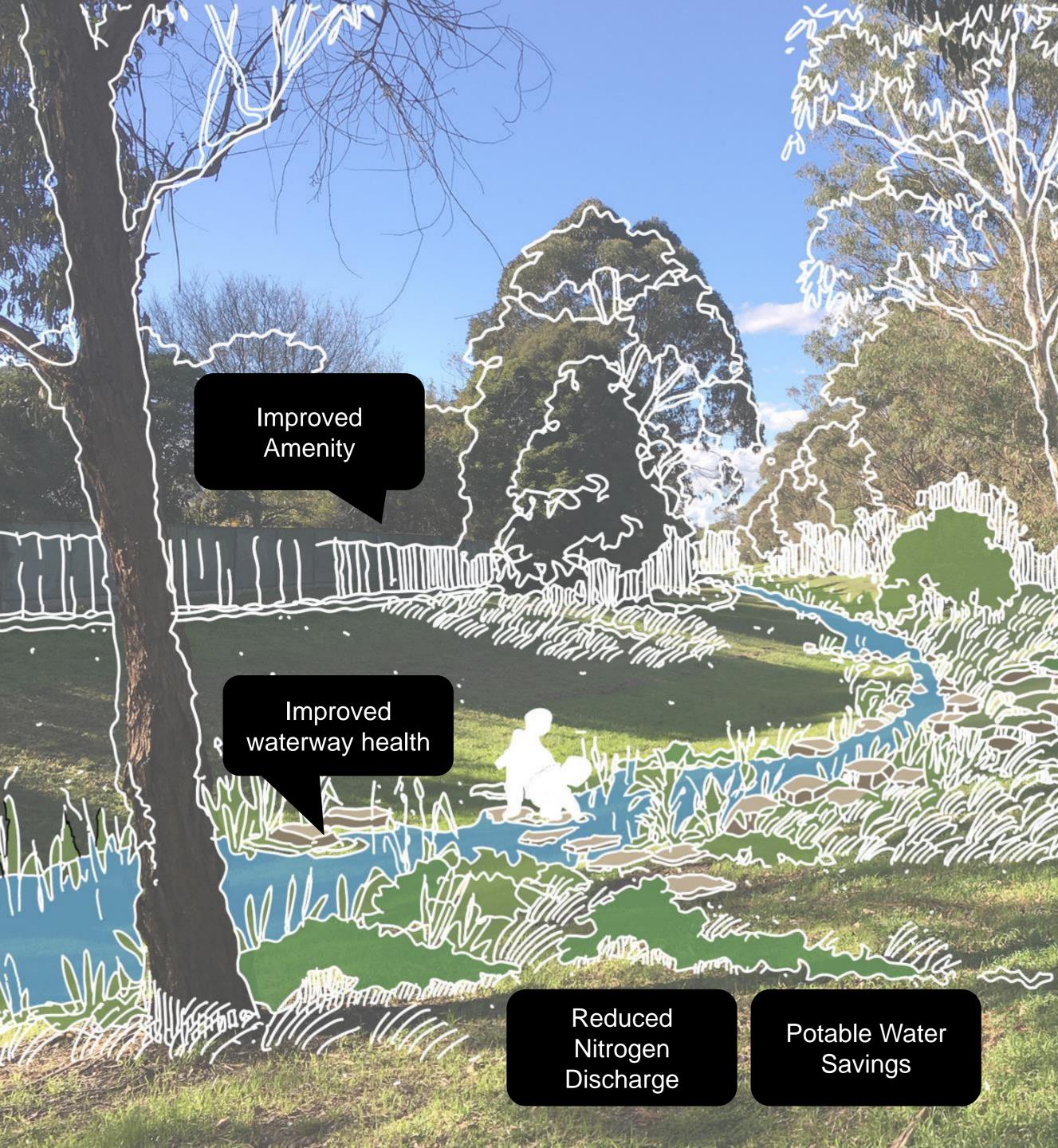
Measure	Value	Payment
Willingness-to-pay	\$88 per household	Annual
32,000 = Croydon Population		
2.4 = Average Household Size		
\$1.2M of benefit generated per year		











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Increase in biodiversity

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Overall BCA results

Benefits (present value)

Costs (present value)

Net Present Value (NPV)

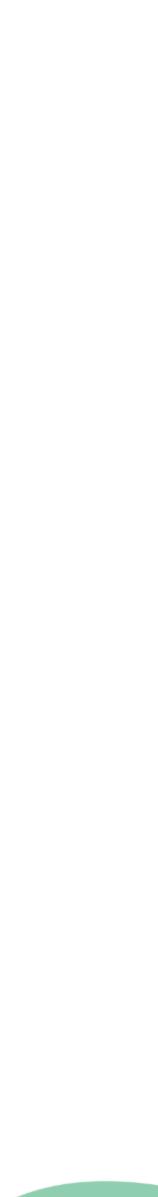
Benefit: Cost Ratio (BCR)





	\$19.4M	-
	\$15.5M	_
	\$3.9M	_
)	1.25	_

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What is the value to different stakeholders?

Benefit	Total PV	
Improved stream health	\$14.7M	
Improved human health	\$1.2M	
Improved amenity	\$1.6M	
Reduced Nitrogen to Port Phillip Bay	\$2.7M	
Drinking Water Savings	\$0.3M	







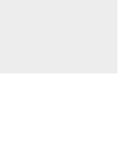






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- Confirmed our project is positive for the community
- BCAs can help facilitate conversations about benefits and how to fund such projects
- CRCWSC tools are user-friendly and robust

Thank you





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