

Living Waterways.



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Background

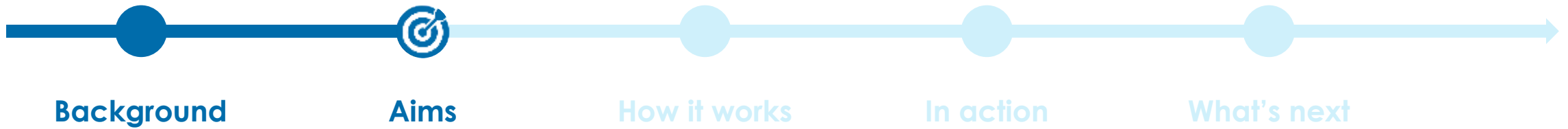
Aims

How it works

In action

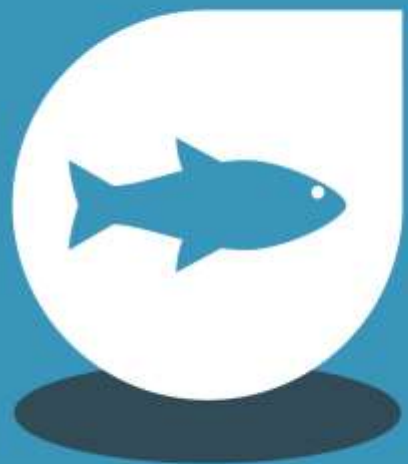
What's next

- **Created in 2013** as part of HWW Reef Rescue project
- Based on feedback from reef stakeholders
- Project team **led by Dr Andrew O'Neill** in partnership with Meter, Bligh Tanner and Landscapology
- Intent was to help **guide discussion and decision making** around urban water management
- **Enshrined in state policy** as a valid alternative to meeting the Stormwater Management Design Objectives (SMDOs)



- Increasing **pressures** on urban waterways
- Stormwater management design objectives (SMDOs) only address water quality **80/60/45**
- **Living Waterways** balances water quality objectives with environmental, social and economic outcomes
- Flexible, **site-driven**, encourages innovation and integration





living
WATER



living
ENVIRONMENT



living
COMMUNITIES



living local
ECONOMIES

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Living Waterways

Short form

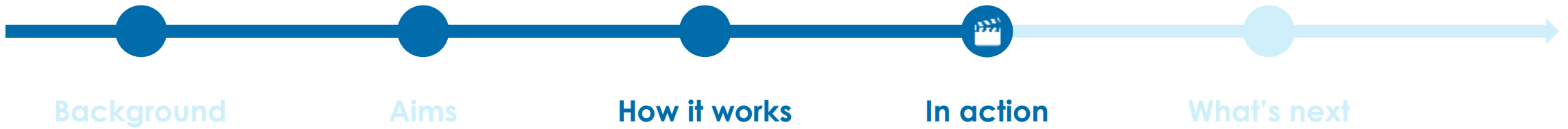
 LIVING WATER <small>Protect and enhance our water systems and their environments</small> <small>#small pollution is minimised</small>		
LW1	STORMWATER QUALITY	2 CREDITS
	<small>Special note: points are cumulative (tick all boxes for full points). A Min of 2 credits must be achieved.</small>	12 AVAIL
	<input checked="" type="checkbox"/> 2 Credits = 20% below Target Load Reduction (Minimum) <input type="checkbox"/> 4 Credits = 10% below Target Load Reduction <input type="checkbox"/> 6 Credits = 5% below Target Load Reduction <input type="checkbox"/> 8 Credits = meets load reduction targets (eg. 80 / 90 / 43) <input type="checkbox"/> 10 Credits = 5% above Target Load Reduction <input type="checkbox"/> 12 Credits = Neutral or beneficial impact	
LW2	MINIMUM EROSION AND SEDIMENT CONTROL	6 CREDITS
	<small>Special note: mandatory items must be achieved.</small>	12 AVAIL
	<input type="checkbox"/> Integrate ESC into the site planning, design, construction phase and post-construction phase process <input type="checkbox"/> Plan the staging and sequence of works to minimise risks (less than 2% of site at any one time) <input checked="" type="checkbox"/> ESC Plans to be completed and practices must reflect site characteristics (eg. soil types) - Mandatory <input checked="" type="checkbox"/> Minimise the extent and duration of soil disturbance - Mandatory <input checked="" type="checkbox"/> Control water movement through the site (ie. 'clean' and 'dirty' water) - Mandatory <input checked="" type="checkbox"/> Minimise soil erosion and promptly stabilise disturbed areas - Mandatory <input checked="" type="checkbox"/> Maintain sediment retention on the site - Mandatory <input checked="" type="checkbox"/> Maintain all ESC measures in proper working order at all times - Mandatory <input type="checkbox"/> Automatic systems (eg. continuously closed High Efficiency Sediment Basins) <input type="checkbox"/> Monitor and adjust ESC practices as required to protect water quality <input type="checkbox"/> Total site capture	

SCORE

0	2	4	6	8	10	12
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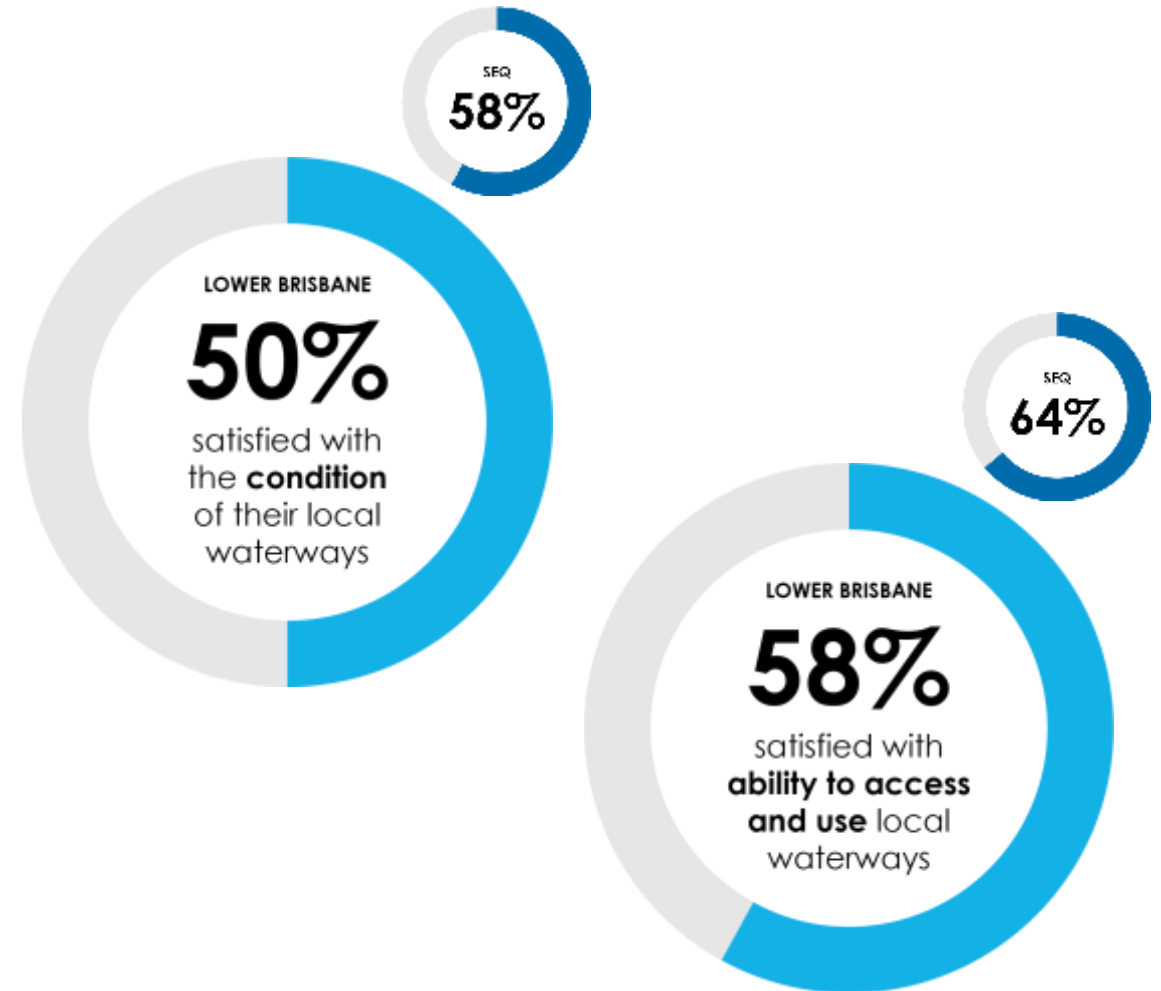
More detail provided in the 'detail' tab

Check each applicable



Applying the framework

- Urban design solutions were **missing the mark** for communities
- Brisbane residents are **concerned** with the health of local waterways
- Waterways are **valued** and provide high levels of personal benefits
- Aim was to **increase opportunities for citizens** to participate in nature related behaviours





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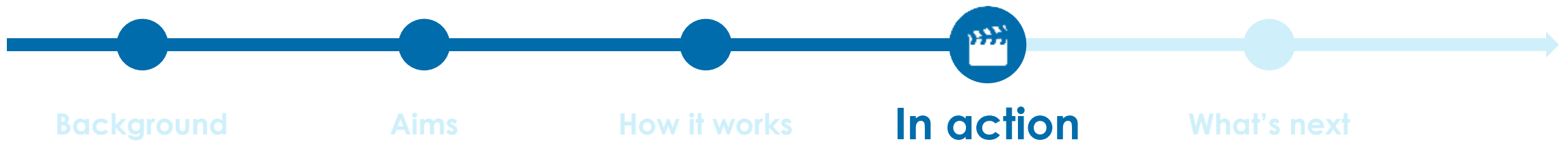
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CoDesign approach

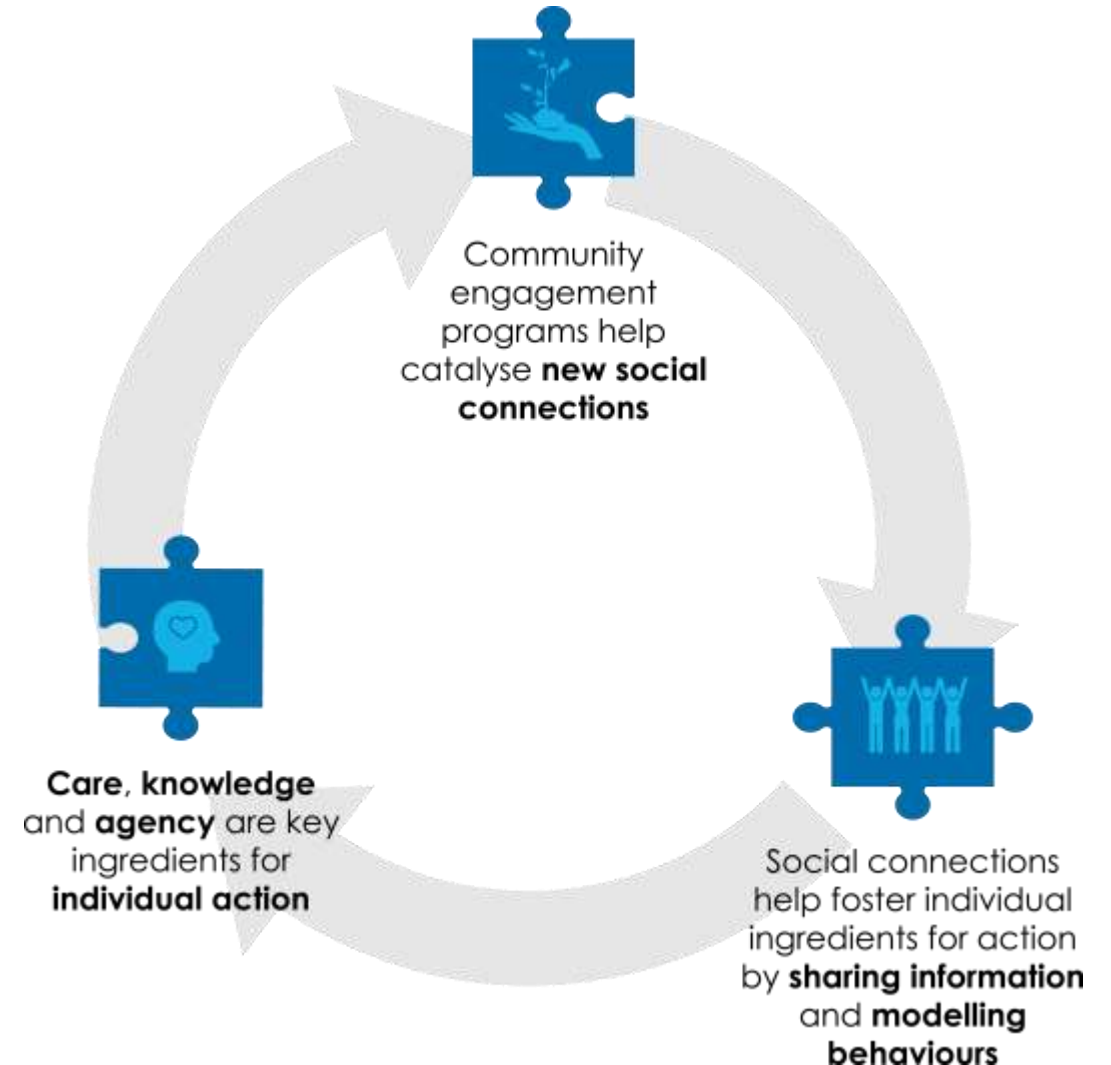
- Piloted in Davidson St
- CoDesign enables communities to become an **integral part of the design** process
- Involved extensive **collaboration** with diverse stakeholders
- Community **insight** and **ownership** was critical to project success
- Helped to forge values of **stewardship** and **social connection**





Lessons learned

- Fostering social connections can support **action for nature**
- **Social capital** is both an ingredient for and outcome of community engagement programs
- Environmental programs **create platforms** for social connection
- Face-to-face contact and **community champions** are crucial for strengthening social networks





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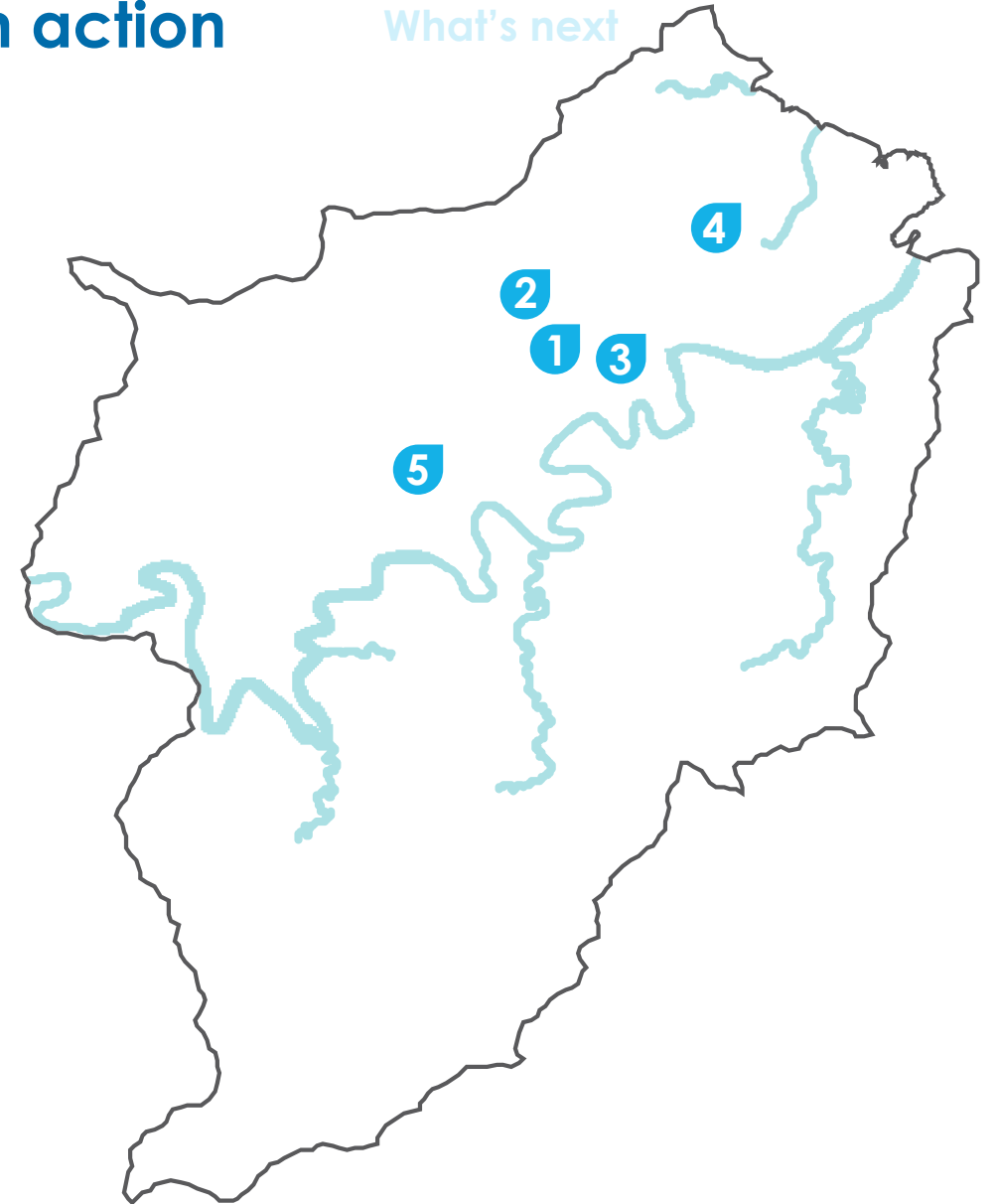
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Demonstration sites

- 1 **Davidson St** Newmarket (PILOT)
- 2 **Gizeh St** Enoggera
- 3 **Northey St** Windsor
- 4 **Hedley Ave** Nundah
- 5 **Cicada Park** Chapel Hill (1 / 2 / 3)
- ? **Mackay** (UPCOMING)
- ? **Yeppoon** (UPCOMING)





Driving uptake

- Potential barriers related to **useability** and **perception**
- Next step is to **engage with end users** from local government and development industry
- More demonstration sites to **increase awareness**
- Go to **www.waterbydesign.com** to download Living Waterways and access the **online learning portal** and **case studies**

