Association of Public Service Superannuants

Brenton Grear, Director Green Adelaide

Acknowledgement of Country

We acknowledge and respect the native title holders and traditional owners of the Green Adelaide region – the Kaurna Miyurna (Kaurna people) – and pay homage to their ancestors who maintained the natural processes of the land we are on and whose spirits still dwell on Yarta (Country).

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Opportunities to influence our urban environment

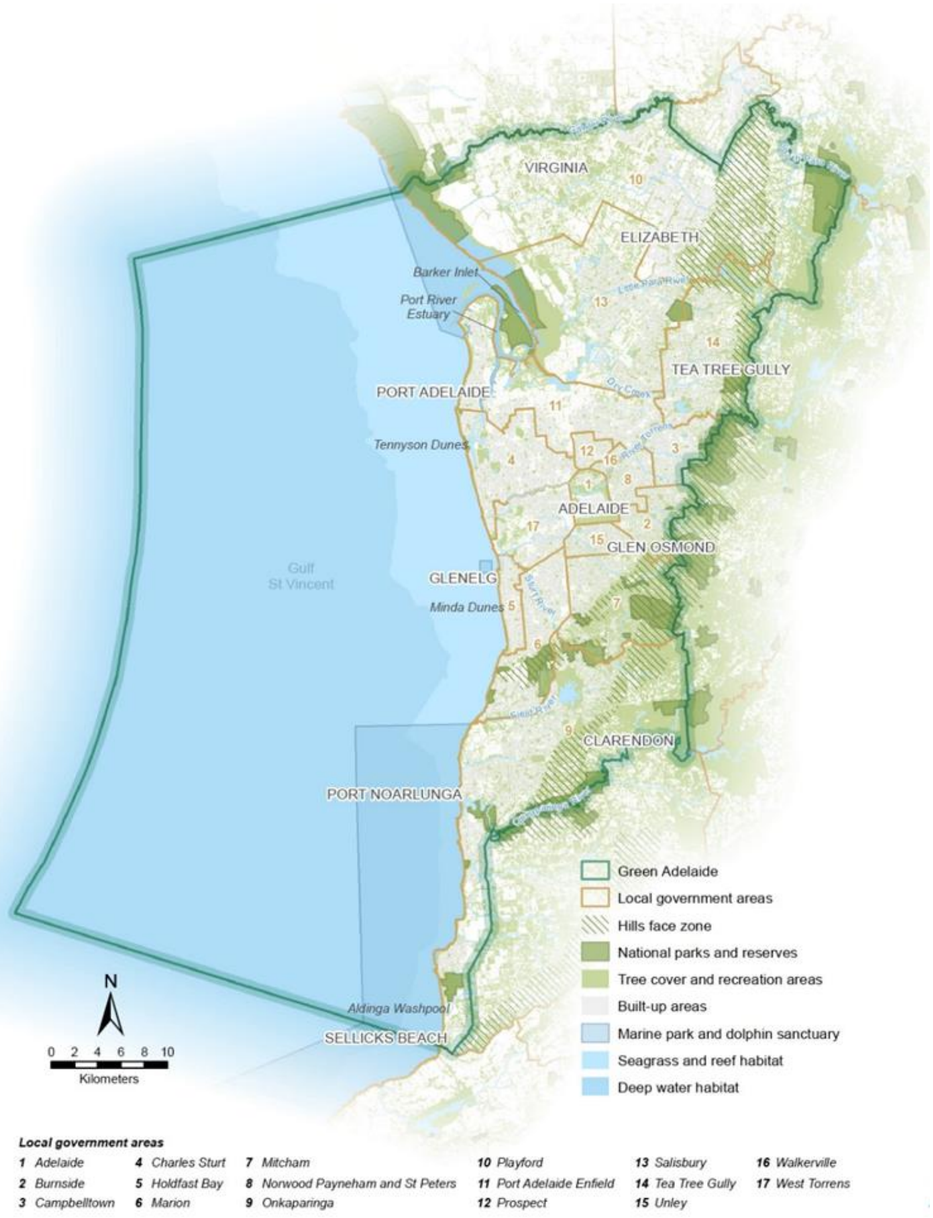
Brenton Grear

- Geographer
- Career – locations, roles
- Drivers – conservation, people, collaboration
- More?

GREEN ADELAIDE

Green Adelaide

- Focused on **metropolitan Adelaide**.
- 10 community-based board members, chosen based on **individual expertise**.
- Staffed by Green Adelaide Branch, Department for Environment and Water who have responsibility to support Board
- Landscape Levy – everyone is a beneficiary and contributor to our unique environment.



GREEN ADELAIDE

Vision

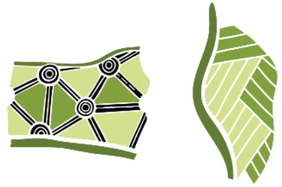
A cooler, greener, wilder and climate resilient Adelaide that celebrates our unique culture.

Illustration by Allan Sumner

Priorities

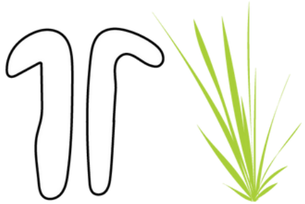
Coastal management

Water resources and wetlands



Green streets and flourishing parklands

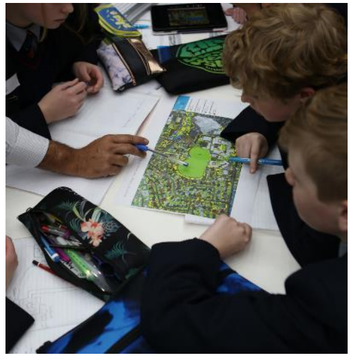
Biodiversity sensitive and water sensitive urban design



Controlling pest plants and animals

Nature education

Fauna, flora and ecosystem health



Green Adelaide board

Professor Chris Daniels

Claire Boan

Adrian Skull

Trixie Smith

Dena Vassallo

Tobias Turner

Melanie Ford

Sarah Sutter

Natasha Davis

Tiahni Adamson


GREEN ADELAIDE
Vision & priorities
Board
SUPPORTING
ADELAIDE NATIONAL PARK CITY*
ANPC

GREEN ADELAIDE
Vision & priorities

Board

SUPPORTING ADELAIDE NATIONAL PARK CITY*
ANPC

Adelaide National Park City

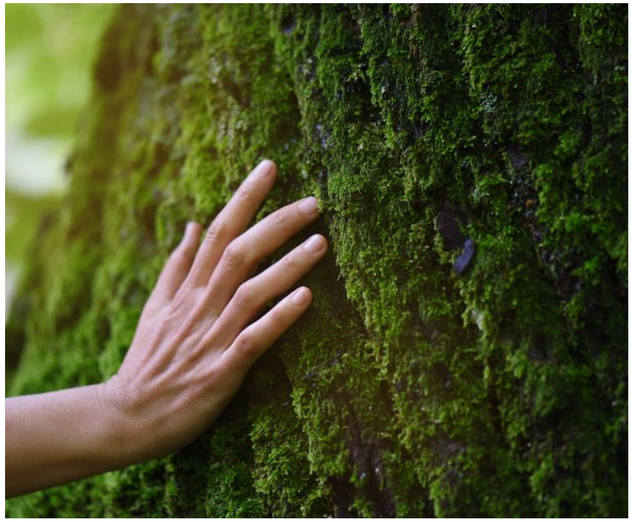
GREEN ADELAIDE

Nature connection

Biodiverse cities

Wild and metro

Nature connection



GREEN ADELAIDE

Nature connection

Biodiverse cities

Wild and metro

Biodiverse cities

Diverse range of natural environments

GREEN ADELAIDE

Nature connection

Biodiverse cities

Wild and metro

Protecting our threatened species

GREEN ADELAIDE

Nature connection

Biodiversity cities

Wild and metro

Are our urban environments wild?

Nature connection

Biodiversity cities

Wild and metro

Wild and metro

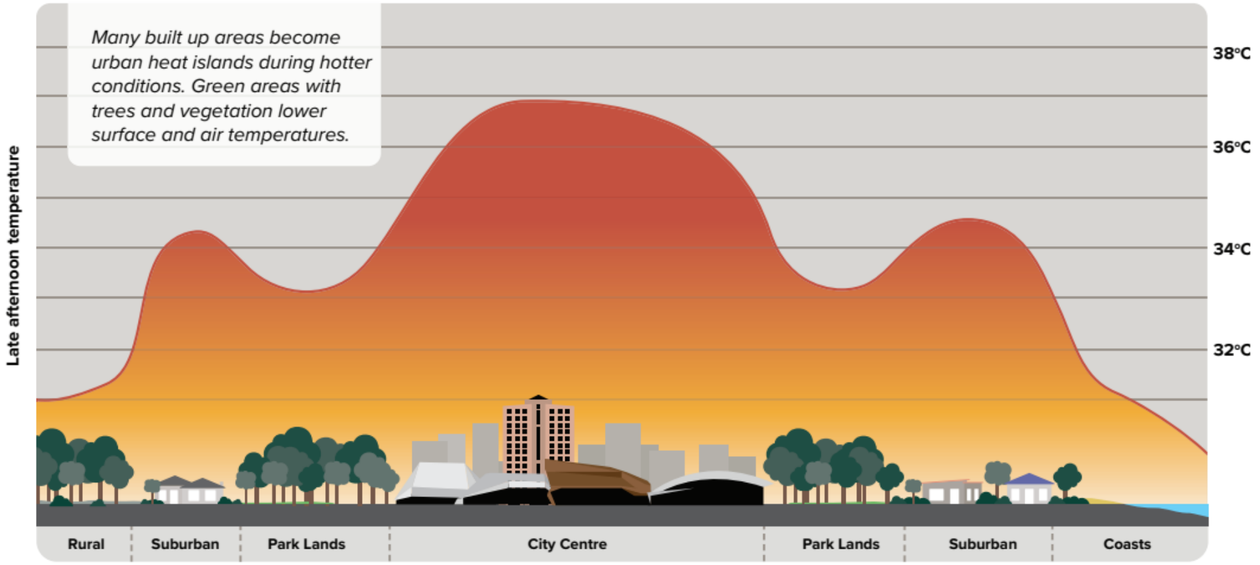
GREEN ADELAIDE

Changing landscapes

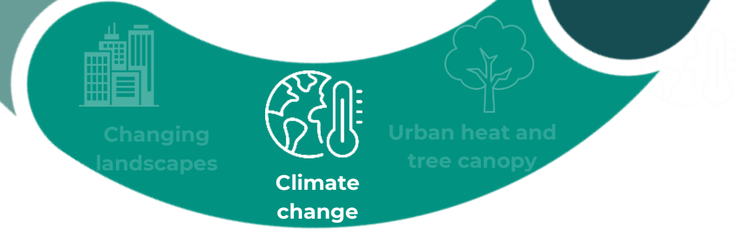
Housing - the loss of the backyard.
Development & urban infill.

Urban heat island effect

Urban populations in denser areas are **disproportionately impacted** by climate impacts.
Trees and other vegetation have been shown to **reduce land surface** temperatures by between 5 and 6 degrees **during heatwaves**.



SA Government Climate Change Action Plan 2021-25



Metro Adelaide has a changing climate

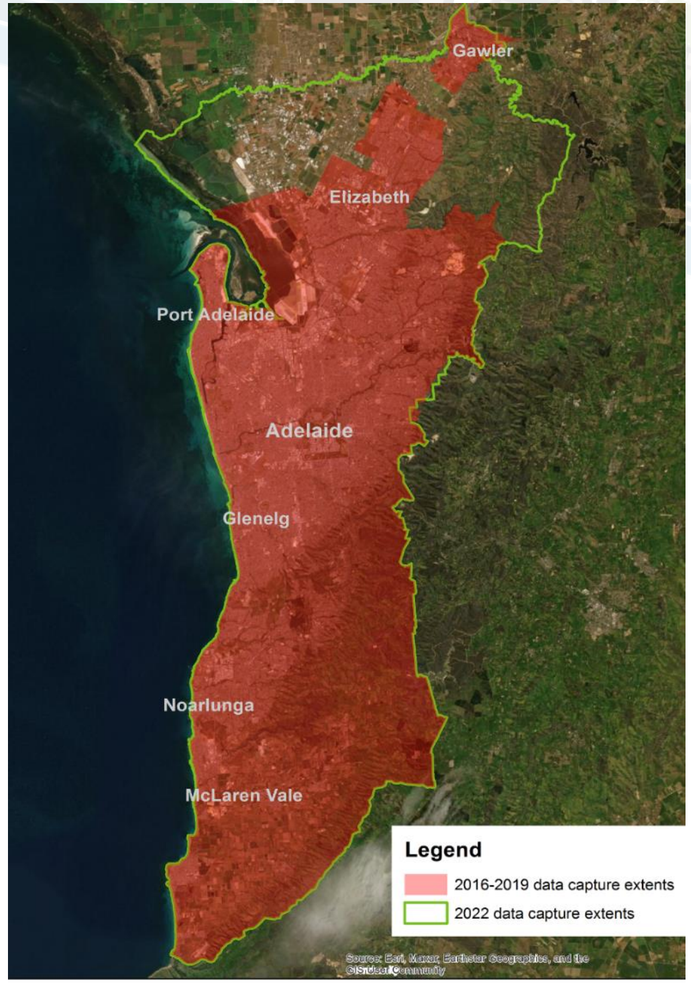
Projections:

- Mean daily maximum temperature **+1.1°C by 2030**, +1.6°C by 2050.
- Mean annual rainfall -6% by 2030, **-10% by 2050**.
- Days over 40 (baseline 1.1/year) increase to 1.6/year by 2030, **3.0/year by 2050.**

(Baseline: 1986-2005)

Urban heat & tree canopy mapping purpose

- Form a **monitoring baseline**
- Establish a **shared point of truth** on which to detect trends
- Undertake further analysis to:
  - Maximise the impact of greening investments.
  - Better understand the relationship between urban greening and urban heat, and how these factors impact health and behavior.
  - Allow us to make informed operational decisions.



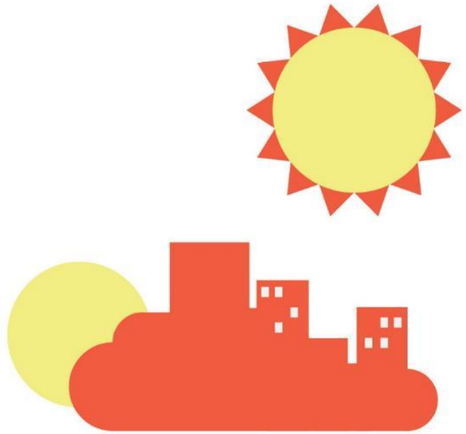
Changing landscapes

Climate change

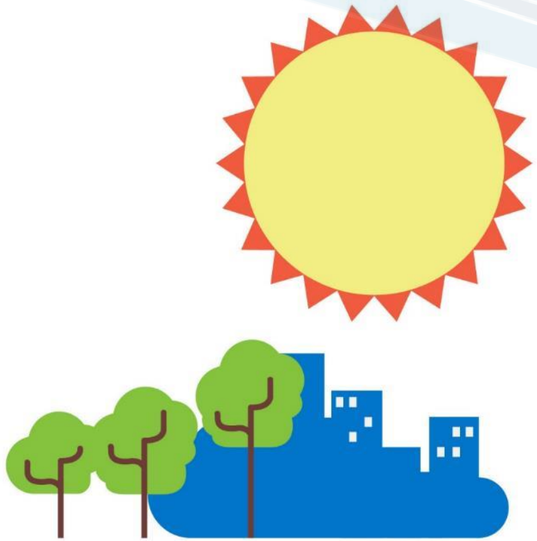
Urban heat and tree canopy

Trees and greenery help mitigate urban heat

Every **10% increase** in **tree cover** can reduce ground temperature by between **0.5°C and 1°C**.



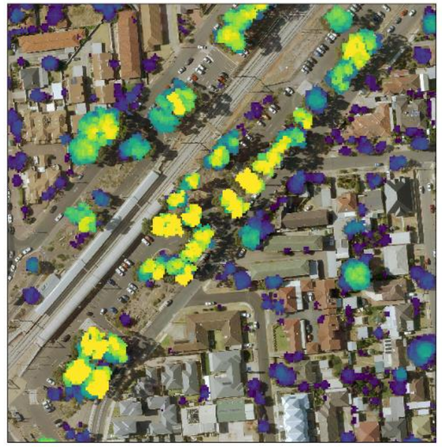
By 2050 the number of days per year above 35°C is projected to increase by more than 40%[1].



Despite our hot, dry climate, we can mitigate the urban heat island effect by growning our urban tree canopy and retaining water in urban landscapes.

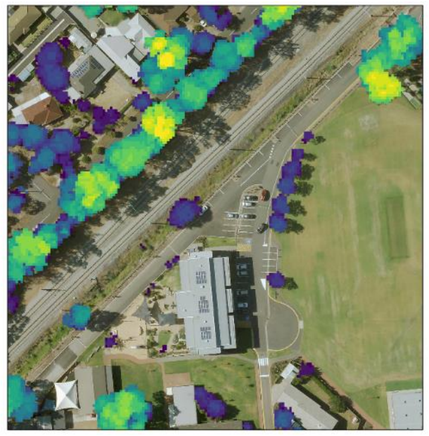
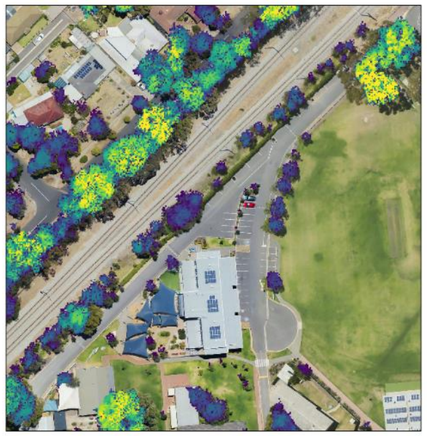
Detection of tree loss/gain

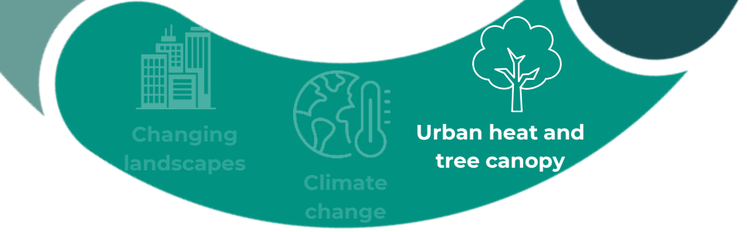
Tree loss



2018 2022 Change Detection

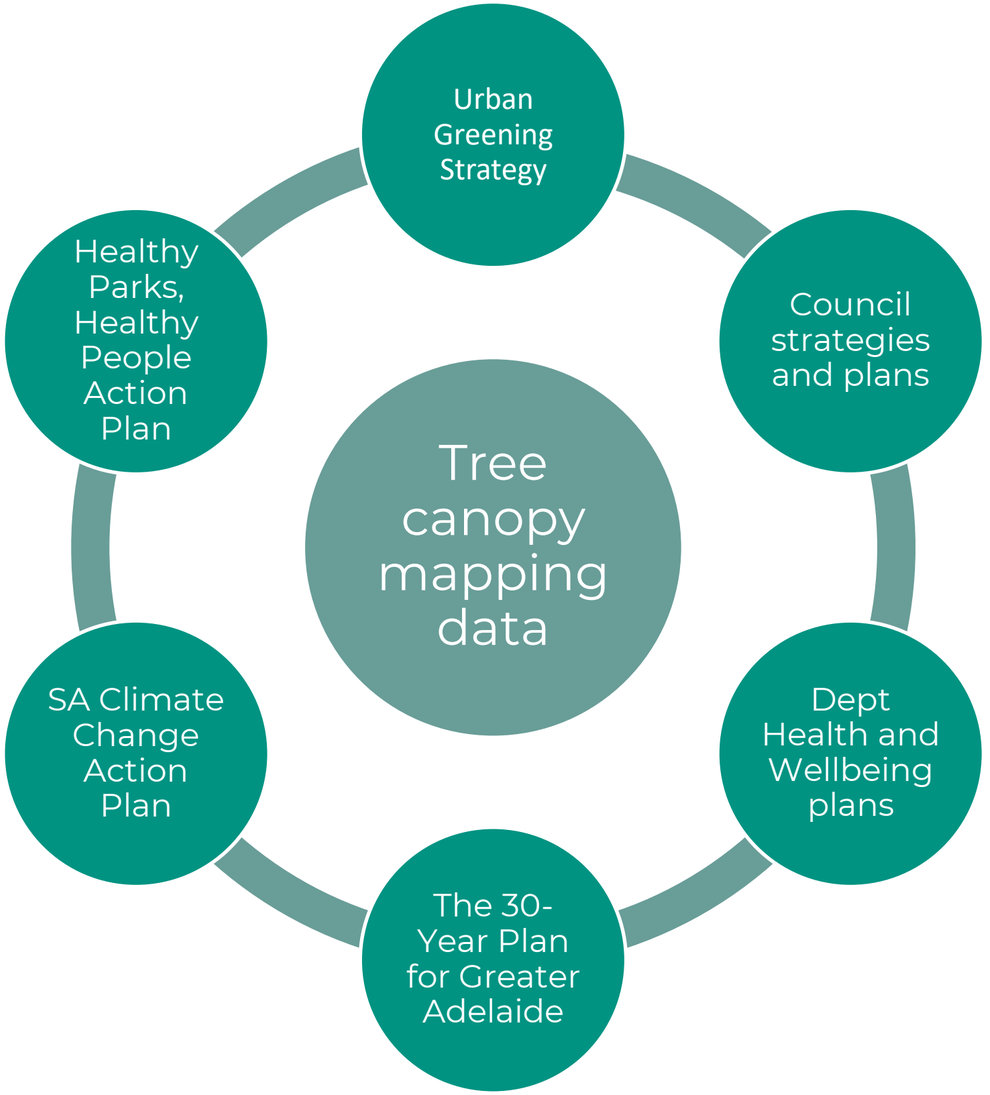
Tree gain

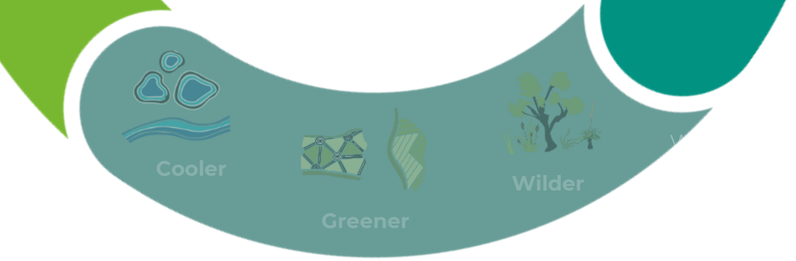



How will the data be used?

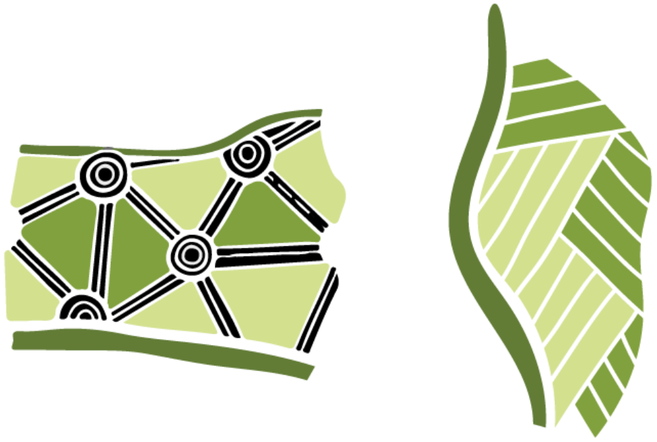
Paired with **urban heat** hotspots, and **social vulnerability** variables, the **tree mapping** data can assist in **greening prioritisation**.





Adaption and influence

Cooler



Greener

Wilder

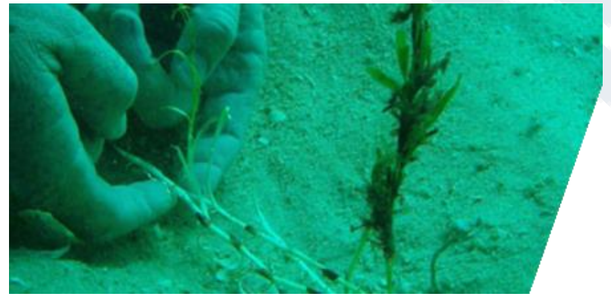
Cooler

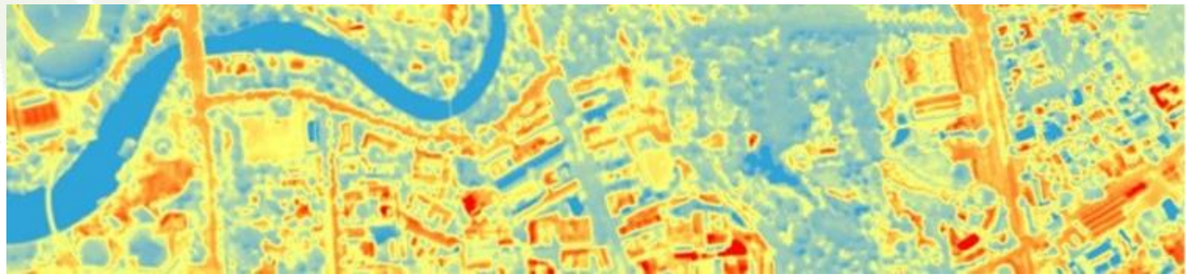
Greener

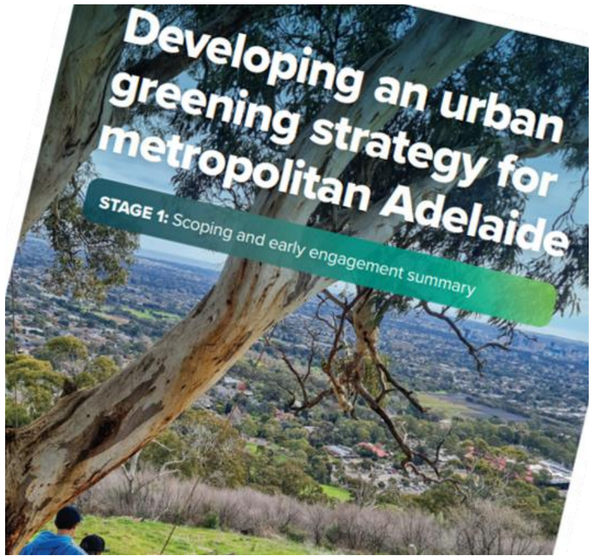
Wilder

Cooler

Water-sensitive urban design and managing water resources and coasts

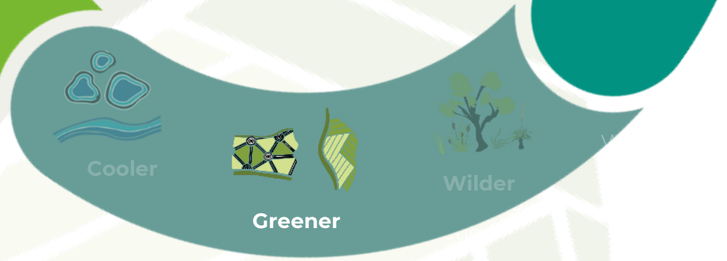






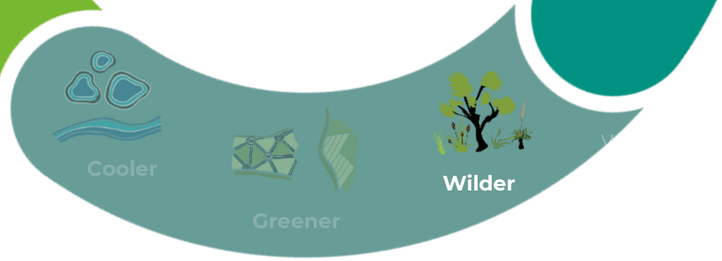
Greener

Evidence and planning, on-ground planting.


Cooler
Greener
Wilder
Greener

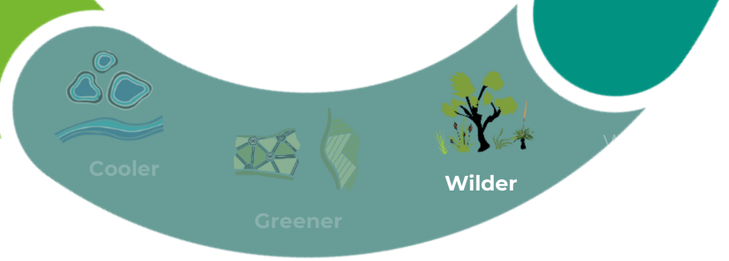
Greener


Grassroots Grants
success stories

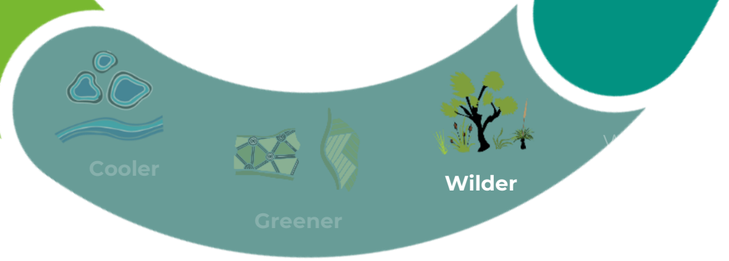


Wilder

Bringing back species, enhancing habitats and connecting people with nature.



Wilder



Bold rewilding – Our plan for platypus

Scoping study identified a number of positive signs about river's suitability, including:

- reasonable abundance of **food**
- **low levels** of plastic or litter-based pollution
- **improved water quality** in several sections
- **suitable submerged habitat** in several sections.

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