



City of Perth

City of Perth - Urban Forest Plan

Using Urban Forest
Canopy data to Support
Implementation



Presentation Outline

- Brief introduction to the Urban Forest Plan
- Key canopy goals & initiatives
- Potential for canopy data to help achieve these
- Early stages

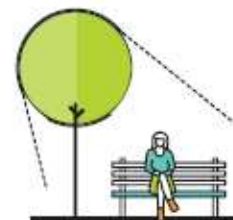


Introduction to the Plan

- Adopted 2016
- Key drivers

Designing for liveability :

Expanding the urban forest will help create a greener, more beautiful, cooler and inviting city.



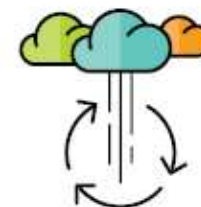
Promoting community health and activity:

The urban forest will create an accessible green network that facilitates a healthy and active urban lifestyle.



Managing climate change:

A healthy, resilient and sustainable urban forest will help achieve a climate responsive city.



Introduction to the Plan

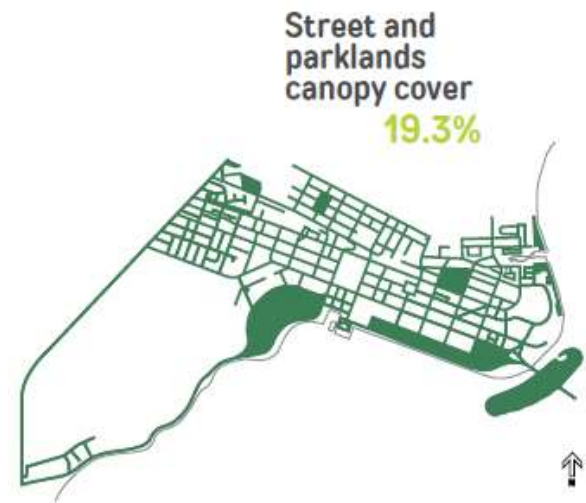
Staged approach



Introduction to the Plan

Canopy data

- Aerial – high resolution airborne multi spectral imagery
- On ground audit

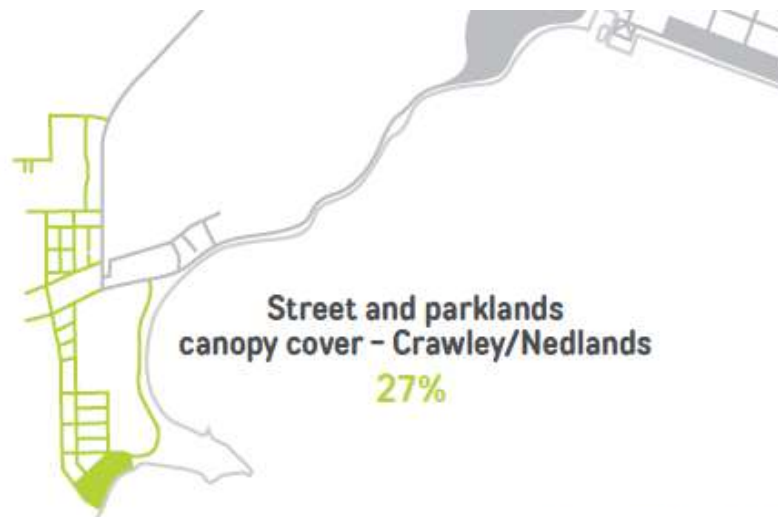


Introduction to the Plan

Addendum report - 2017



Figure 1. New City areas



Key canopy goals & initiatives

Establishing a target

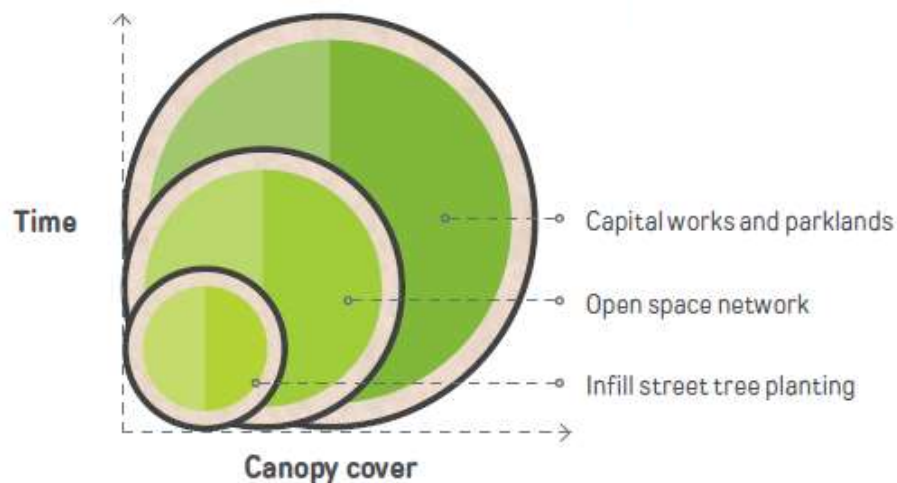
Stage One sets a target of increasing canopy cover within the **public realm to 30%** within a 30 year time frame



Key canopy goals & initiatives

How will we get there?

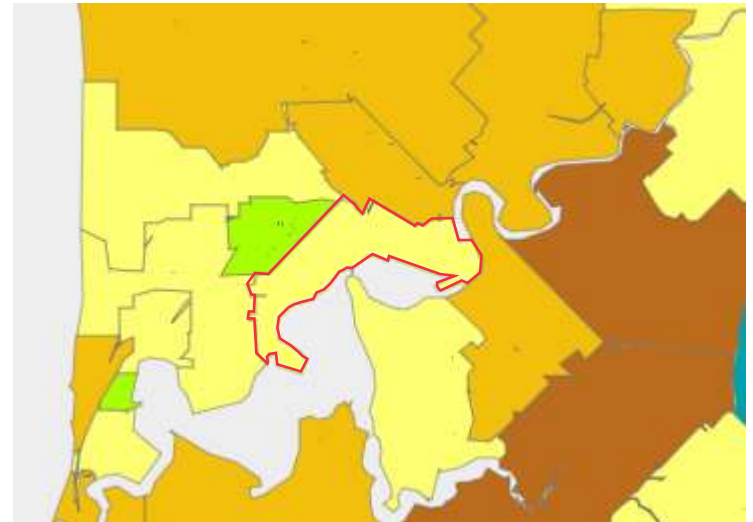
- Protection
- Replacement (ULE)
- New tree planting programs
- Tree selection
- Tree planting
- Tree health



Using Urban Forest Canopy Data

1. New City boundaries

- LGA Data
- One baseline figure for **overall canopy cover** in City of Perth post 2016
- Ability to exclude Kings Park (mesh block)



2016

Using Urban Forest Canopy Data

2. Are we meeting our target for the public realm?

- Roads & parks mesh block
- One baseline figure
- Track changes over time
- Assess impact of new tree planting programs
- Is canopy cover increasing
- Drill down – adaptive management
- Definitions



Roads -2016

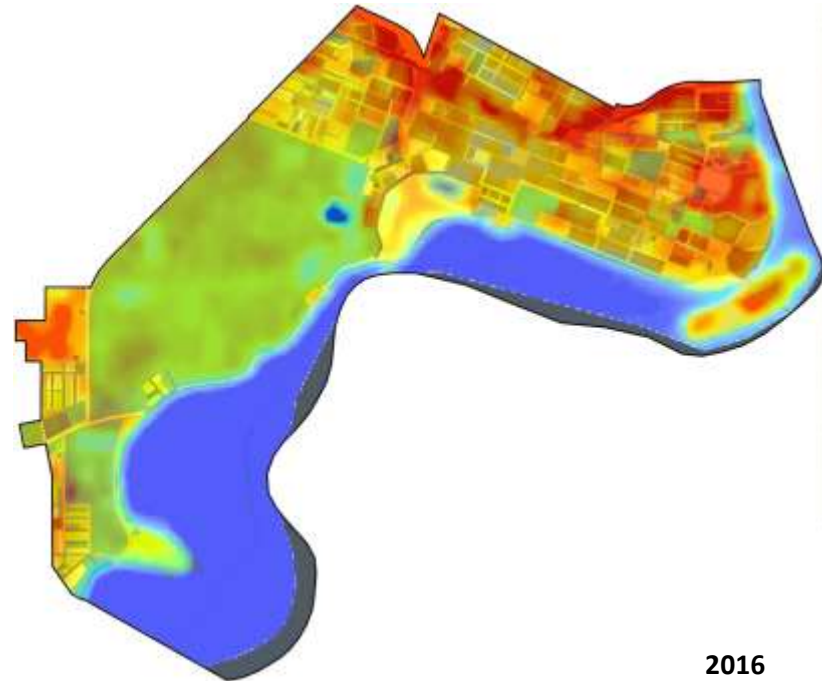


Parks -2016

Using Urban Forest Canopy Data

3. Are we having an impact on UHI?

- Overlay thermal imaging with canopy data
- Identify hot spots that correlate with areas of low canopy
- Impact of new planting
- Argument to retain existing canopy



Using Urban Forest Canopy Data

4. Informing our infill street tree planting program

Plan

Prioritise

Prepare

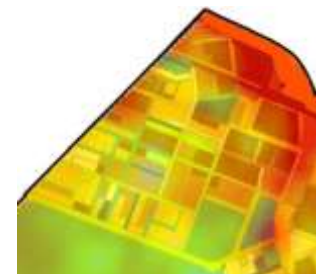
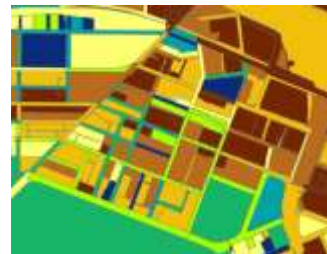
Procure

Plant

Care

Plan & prioritise

- Opportunities & quick hits
- Low canopy / 'hot spots'
- vulnerable populations (ABS data)
- Green links



Using Urban Forest Canopy Data

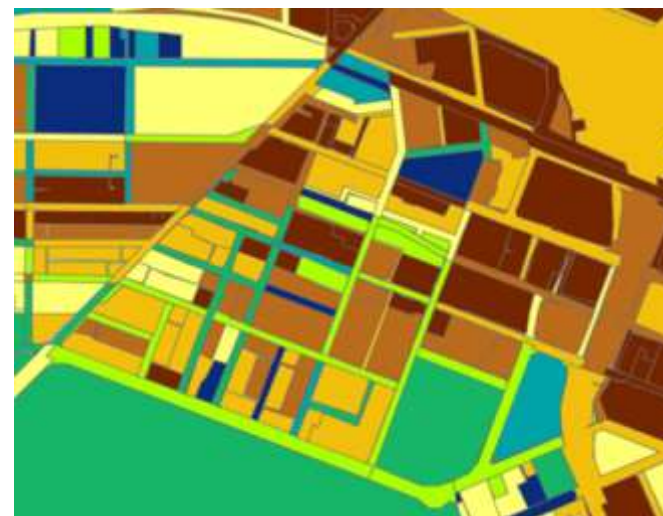
5. Supporting other sustainability initiatives

Climate change
and adaptation
Plan

Flood risk
management



Key flood risk locations

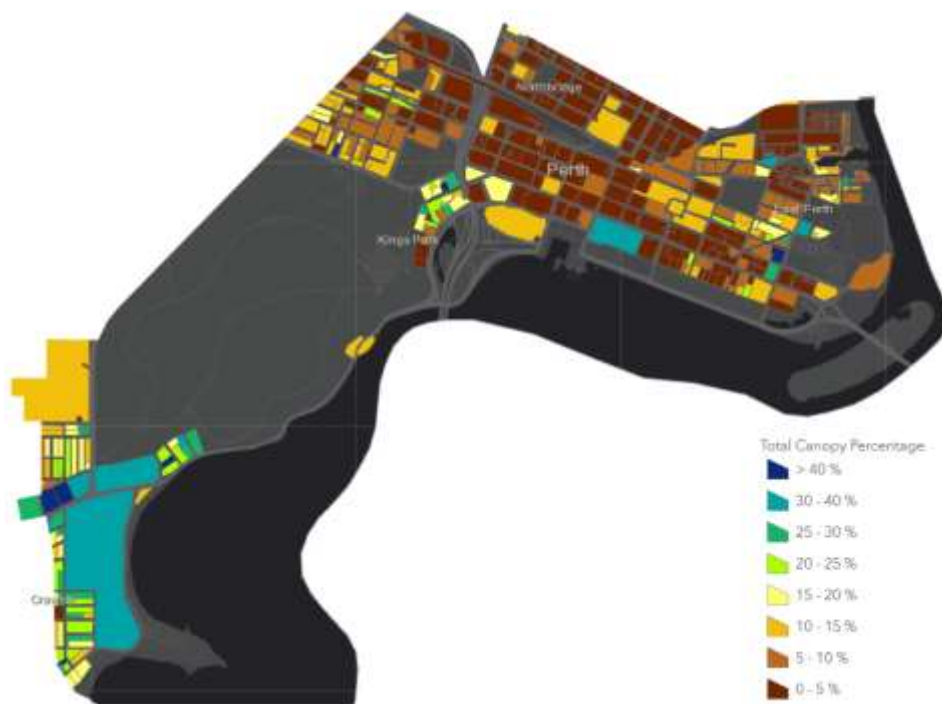


2016

Using Urban Forest Canopy Data

6. Informing Stage 2 of the Urban Forest Plan

- No data
- Baseline figures – street block data
- Importance of trees on private property
- Mesh block data – multiple ownerships



2016

Using Urban Forest Canopy Data

6. Informing Stage 2 of the Urban Forest Plan

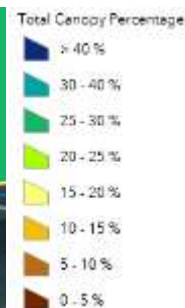
- Identify where trees on private land make a strong contribution to canopy
- Identify and illustrate key trends & challenges
- Targeted policies, guidance and support for specific areas and challenges



2014



2016



Final Comments

- Valuable data source
- Easy to access and use
- Consistency
- Measure progress
- Ability to access canopy data at various spatial scales
- Allows more comprehensive canopy analysis
- Requires on-going commitment



THANK YOU