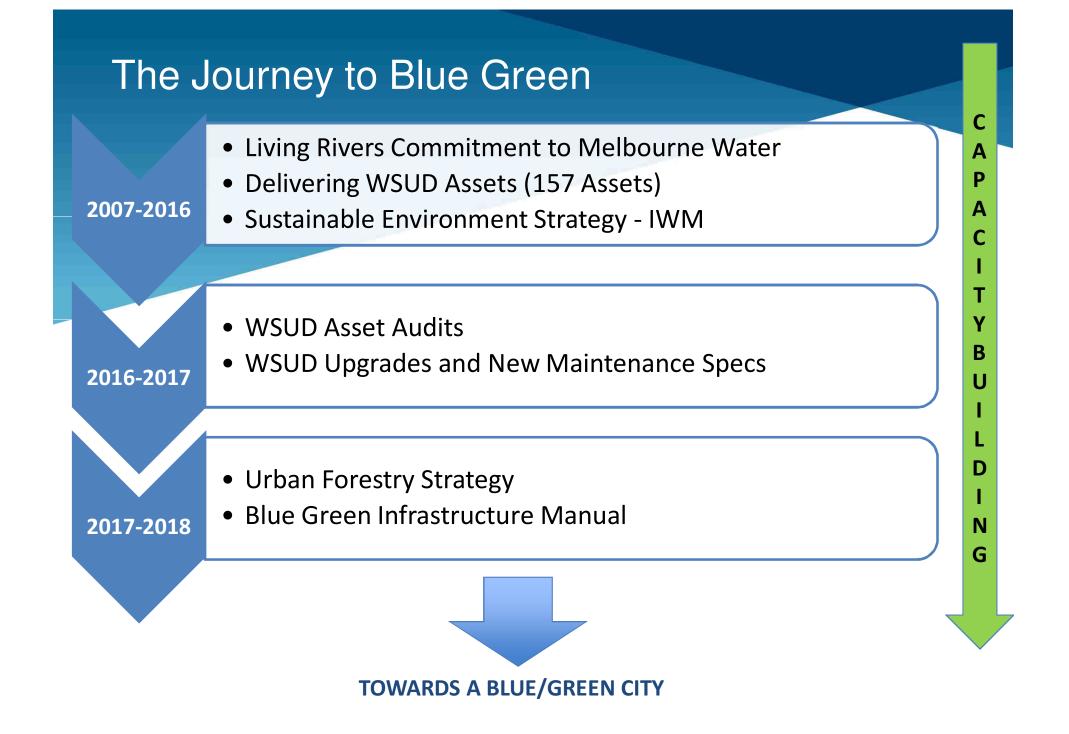
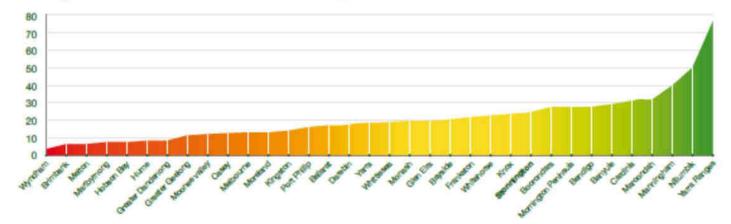
## Shifting the Focus a blue/green city



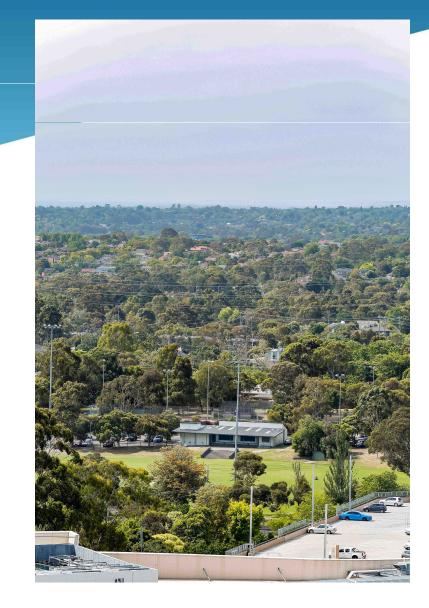


### How Are We Going?

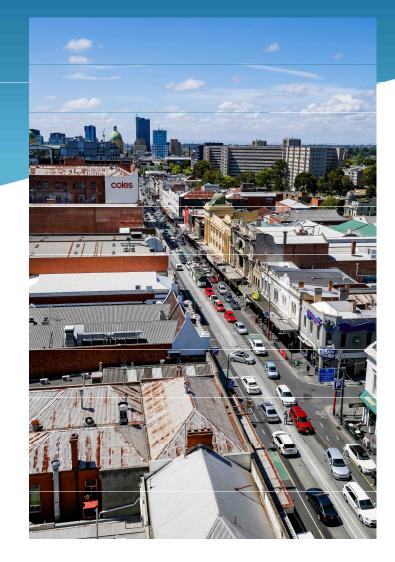
### Canopy cover for Victoria Local Government Areas 💌



## Commitment to Greening



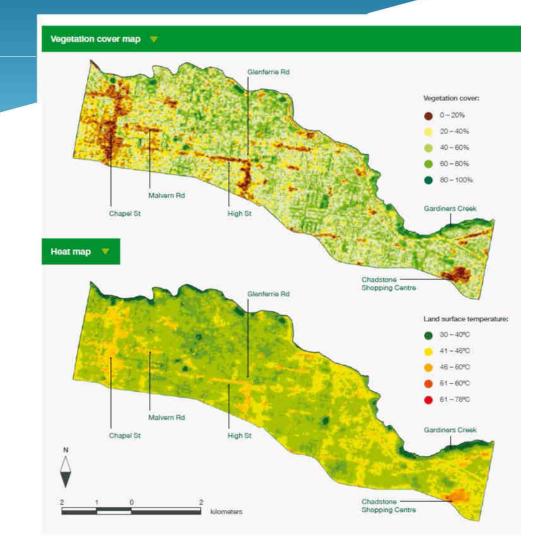
### Commitment to Greening



## Commitment to Greening



### City of Stonnington Cover and Heat Mapping

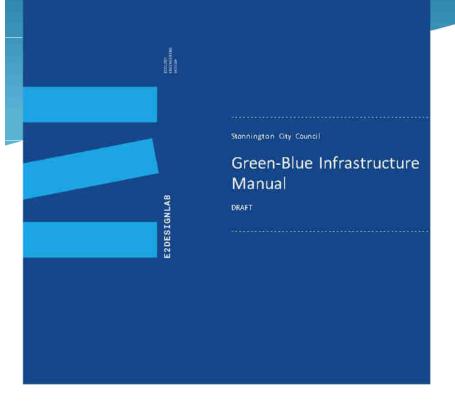


### Urban Forest Strategy

### Vision V

The City of Stonnington will have a healthy, resilient, diverse and valued urban forest that will continue to be a core element of the character and liveability of the City. The urban forest will underpin the health and wellbeing of the community, increase biodiversity and environmental outcomes and help strengthen economic activity.





- The <u>purpose</u> of the manual is to support the successful integration of green-blue infrastructure into Council's streetscape project.
- It <u>aims</u> to simultaneously deliver on Council's water sensitive urban design (WSUD) and urban forestry objectives and achieve broader economic and social outcomes for the city.



The following steps form the recommended structure to plan and implement Green-Blue infrastructure:

### 1. Identify site-appropriate Green-Blue responses

Most sites have several options for Green-Blue infrastructure, the first step is to identify site type and what responses are best suited.

### 2. Determine Preferred Design Configuration

To determine the optimal response from those available, the site's unique characteristics must be analysed.

#### 3. Concept Design

Once a response has been decided, a concept design should be developed that addresses critical design elements.

#### 4. Functional Design

Functional design involves detailed MUSIC modelling, service proving and initial budgeting.

#### 5. Detailed Design

Detailed engineering drawings, specifications and tender documents must be prepared to transition the project to construction.

4.

### STEP 1: Identify Site-Appropriate Blue-Green Responses

The context of a site can influence the type of green-blue infrastructure that can be successfully implemented. A site's available space is the most critical constraint when deciding on a Blue-Green response. Table 1 can be used to identify appropriate responses for eight common site types across Stonnington. Information on the selection of project type and specific design configurations can be found in Appendix XX

Table 1: Contextual green-blue infrastructure responses

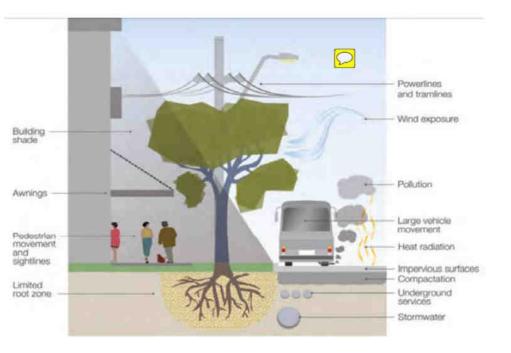
Common Site types	Raingardens		Tree pits		Soil volume systems	
	Tree Raingardens	Non-Tree Raingarden	Open tree pits	Grated tree pits	Permeable pavement & structural soil.	Proprietary soil systems (e.g. Strata-flow)
Residential street with bump- outs	۲		•	•	•	•
Residential street with wide nature strips	۲	۲	۲	•	۲	۲
Residential street with narrow nature strips		•	٠	٠	۲	۲
Residential street with no nature strips	•	•	•	٠		۲
Commercial shopping strip	•	•	٠	۲	۲	۲
Laneway	•		۲	۲	۲	۲
Carpark	۲	۲	۲	•	•	۲
Park and open space	۲	•	•	•	0	

Proceed Consider Avoid

There are a range of site considerations that influence the implementation of green-blue infrastructure in the streetscape. Choosing the correct green-blue response for each site is vital to ensure the long-term success of the system.

Consideration		Potential issues			
1.	Sunlight and shade	Stunted tree growth			
2.	Overhead conditions	<ul> <li>Tree canopy conflicts with buildings, awnings, powerlines, tram lines etc.</li> </ul>			
3.	Underground conditions	Stunted tree growth from restricted soil volumes and waterlogging     Tree root conflicts with underground services			
4.	Maintenance access	<ul> <li>Safety issues in maintaining asset performance (i.e. tree canopy, asset drainage, debris collection)</li> </ul>			
5.	Ground slope	<ul> <li>Poor stormwater treatment performance with an uneven infiltration zone</li> <li>Potential soil erosion from fast entering flows</li> </ul>			
6.	Catchment area	<ul> <li>Stunted tree growth from excessive drying out periods or frequent inundation events</li> </ul>			
7.	Local debris	Poor stormwater treatment performance from sediment and leaf litter clogging     Increased maintenance requirements from unsight litter accumulation			
8.	Safety requirements	<ul> <li>Poor interface with other site activities and users (i.e. pedestrians, traffic) can create a potential hazard.</li> <li>Asset damage from conflicting site activities (i.e. heavy foot traffic, parking)</li> </ul>			
9.	Community engagement	<ul> <li>Community resistance to asset implementation and upkeep from a limited understanding of green-blue water management systems</li> </ul>			

D.





- Processes, processes, processes.
- You need champions.
- Habit and practice makes perfect.