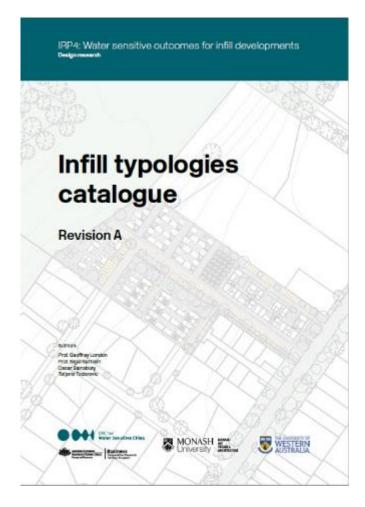


## 01 - Infill typologies catalogue

LIVEABLE WATER SENSITIVE COMMUNITIES.

www.watersensitivesa.com

### Minor infill – Built form typologies



Category 1: Dual Occupancy, Duplex

Category 2: Terrace, Courtyard, Townhouse

Category 3: Stacked, Cluster

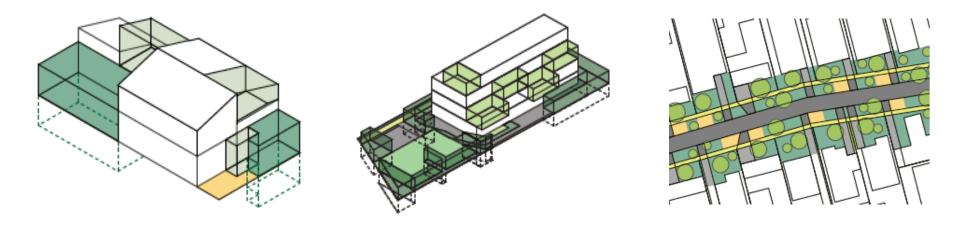
Category 4: Six Pack, Lift Core, Walk Up

Category 5: Apartment Buildings

Category 6: Urban Spaces

Category 7: Precincts

# Infill typologies Catalogue and performance analysis



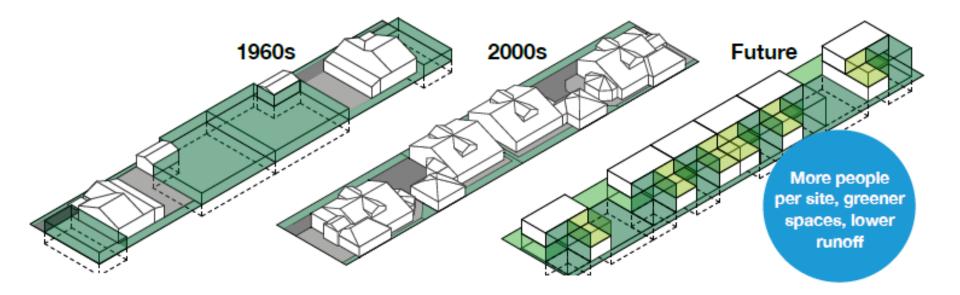
**Dwellings** 

**Apartments** 

**Streets / public spaces** 

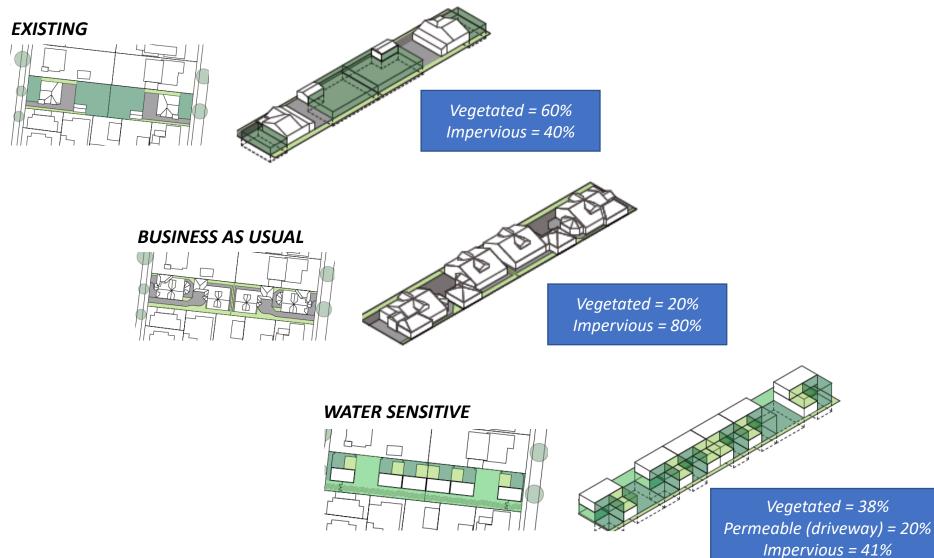
Source: Cooperative Research Centre (CRC) for Water Sensitive Cities

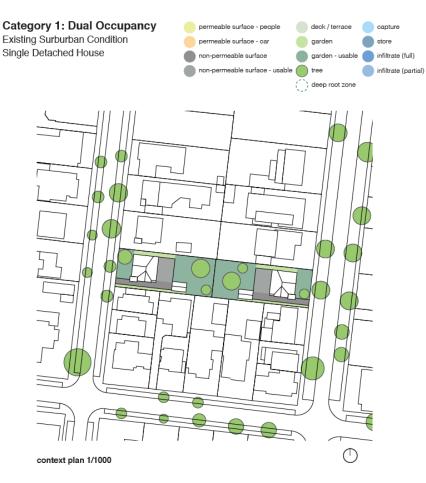
### **Minor Infill - reimagined**



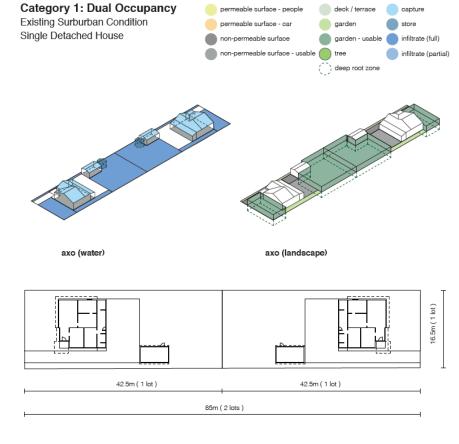
Source: Cooperative Research Centre (CRC) for Water Sensitive Cities

#### **Small site typologies example:** 1 lot into 3, 2 lots into 6





Site Data:			
Site Area:	1420 m2 (2 lots)	Permeable Hard Surface:	0 m2
Number of Lots:	2	Non Permeable Hard	276 m2
Number of Dwellings:	2	Vegetated Surface:	844 m2
Density:	14 dwellings per hectare	Deep Root Zones:	4 (703 m2)
Open Space:	1160 m2	Canopy Trees	6+
Site Coverage:	18%	Additional On-Site Water	None



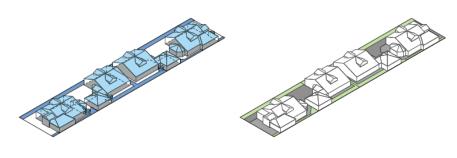
#### plan 1 / 500

Dwelling Data:			
Bedrooms:	3 (per dwelling)	Floor Area (deck):	0 m2
Occupants:	4 to 6 (per dwelling)	Garden Area:	422 m2 (per dwelling)
Cars:	2+ (per dwelling)	Roof Surface Area:	150 m2 (per dwelling)
Building Storeys:	1	% of roof area connected to	16%
Building Footprint:	120 m2 (per dwelling &	Rainwater Storage Capacity:	2500L (per dwelling)
Floor Area (building):	120 m2 (per dwelling &	Household water appliances:	1x shower, basin, wc, bath,



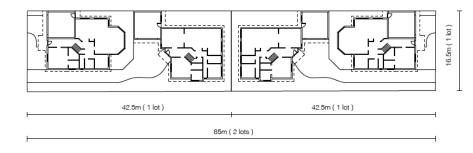






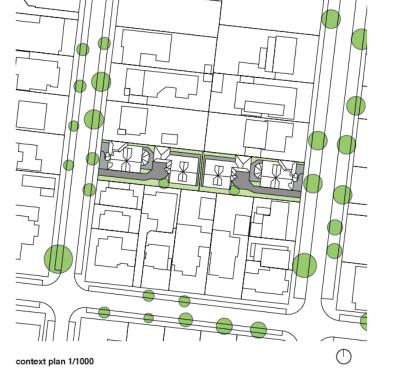
axo (water)

axo (landscape)



plan 1 / 500

Dwelling Data:				
Bedrooms:	3 (per dwelling)	Floor Area (deck):	0 m2	
Occupants:	4 to 5 (per dwelling)	Garden Area:	76 m2 (per dwelling)	
Cars:	2 (per dwelling)	Roof Surface Area:	188 m2 (per dwelling &	
Building Storeys:	2	% of roof area connected to	40%	
Building Footprint:	162m2 (per dwelling &	Rainwater Storage Capacity:	1000L (per dwelling)	
Floor Area (building):	200m2 (per dwelling &	Household water appliances:	2x shower, basin, wc, 1x	



Site Data			
Site Area:	1420 m2 (2 lots)	Permeable Hard Surface:	0 m2
Number of Lots:	2	Non Permeable Hard	379 m2
Number of Dwellings:	4	Vegetated Surface:	304 m2
Density:	28 dwellings per hectare	Deep Root Zones:	2
Open Space:	770 m2	Canopy Trees	2
Site Coverage:	46%	Additional On-Site Water	None



permeable surface - people		deck / terrace	capture
permeable surface - car		garden	store
non-permeable surface		garden - usable	infiltrate (full)
non-permeable surface - usable	$\bigcirc$	tree	infiltrate (partial)
	$\bigcirc$	deep root zone	

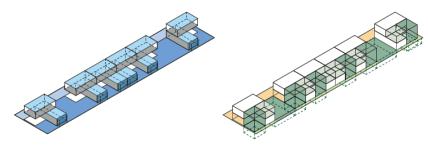


Site Data			
Site Area:	1420 m2	Permeable Hard Surface:	539 m2
Number of Lots:	2	Non Permeable Hard	0 m2
Number of Dwellings:	6	Vegetated Surface:	532 m2
Density:	42 dwellings per hectare	Deep Root Zones:	8 (430 m2)
Open Space:	1090 m2	Canopy Trees	10+
Site Coverage:	23%	Additional On-Site Water	Communal water tanks

#### Category 1: Dual Occupancy

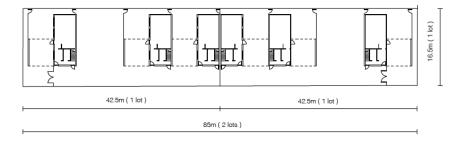






axo (water)

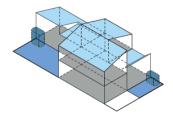
axo (landscape)

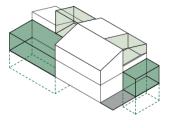


plan 1 / 500

Dwelling Data:			
Bedrooms:	2 and 3 (per dwelling)	Floor Area (deck):	30 m2 (per dwelling)
Occupants:	2 to 5 (per dwelling)	Garden Area:	42 m2 (private) + 46 m2
Cars:	2 (per dwelling)	Roof Surface Area:	55 m2 (per dwelling)
Building Storeys:	2 (3)	% of roof area connected to	100%
Building Footprint:	55 m2 (per dwelling)	Rainwater Storage Capacity:	5000L (per dwelling)
Floor Area (building):	110 m2 (per dwelling)	Household water appliances:	12x shower, basin, 6 x wc, kitch



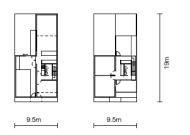




axo (water)

plan 1 / 500

axo (landscape)





section 1 / 500

Dwelling Data:			
Bedrooms:	3 (per dwelling)	Floor Area (deck):	34 m2 (per dwelling)
Occupants:	4 to 5 (per dwelling)	Garden Area:	52 m2 (per dwelling)
Cars:	1 (per dwelling)	Roof Surface Area:	94 m2 (per dwelling)
Building Storeys:	1	% of roof area connected to	100%
Building Footprint:	124 m2 (per dwelling)	Rainwater Storage Capacity:	2500L (per dwelling)
Floor Area (building):	180 m2 (per dwelling)	Household water appliances:	2 x basin, wc, shower, kitch

