Green Space in Wellington central city: is there enough for our future wellbeing? Wellington City Council presentation. 11 March 2020

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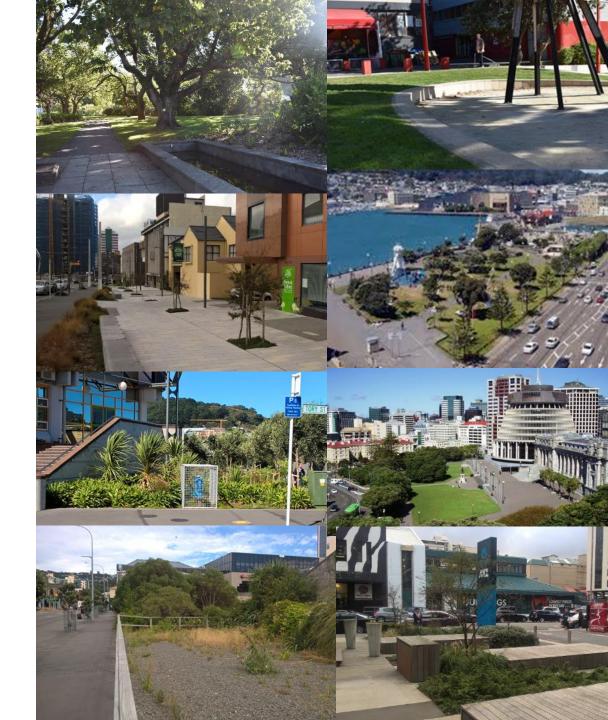




Absolutely Positively Wellington City Council

What is urban green space?

- "An area of trees, grass, or other vegetation providing for environmental, recreational or cultural values"
- Not just WCC Parks and Gardens also road reserves, other land tenures
- Different types of vegetation cover
 - Trees, horticulture, grass areas
- Green spaces and blue spaces
- Public spaces and private spaces

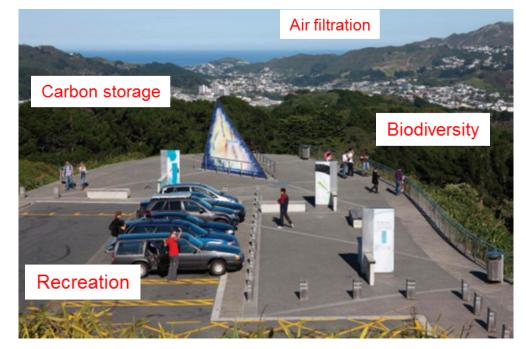


Why should the council worry about urban green spaces?

- Contact with nature is very important for people's health & wellbeing
- Mostly this contact is provided by urban green and blue spaces
- Urban green spaces provide many other values
- A critical part of the city's infrastructure
- In the central city, most green spaces need to be provided for by council, directly or through policy

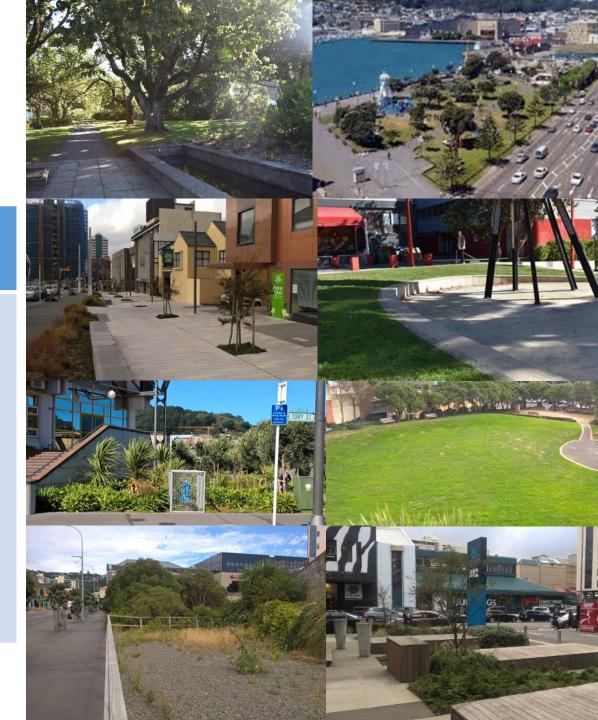
Council wanted us to:

- Assess the current provision (supply) of public green space within the Wellington central city area.
- Assess current and potential need (demand) for public green space



Categories and types of public green space

Parks and reserves	Road reserves	Other zoned areas
Continuous trees and forest	Treeland (discontinuous trees)	Waterfront Central Government grounds
Treeland	Treeland	Schools NZTA etc
Bushes, shrubs, horticulture areas	Individual trees	Classification
Grassed areas	Grassed areas	As for parks and reserves
Impervious surfaces	Impervious surfaces	



Central Wellington census area units and population



CAU	Popula tion (2013)	Pop'ln (2043) High- growth scenario	Popl' growth (%) High- growth scenario
Thorndon- Tinakori Road	4,100	6,400	50
Lambton	5,600	11,150	92
Willis St - Cambridge Tce	7,300	15,900	110
Total Central City	17,400	31,080	90

2018 population approx. 24,000

Plus 76,300 commuters coming into central Wellington (2013)

Amounts of green space

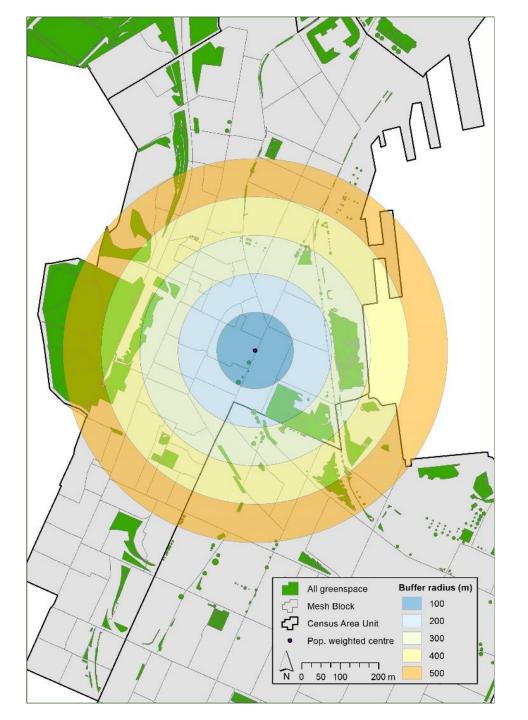
	Area (ha)			
Land cover	Thorndon- Tinakori	Lambton	Willis St- Cambridge Tce	Central City (total)
Discontinuous trees	9.2	1.8	1.3	12.3
Continuous trees	3.2	6.8	0.5	10.5
Hard surfaces	1.4	2.9	2.3	6.6
Grassed areas	4.2	4.5	1.9	10.6
Bushes & horticulture areas	0.5	0.3	1.1	1.9
Total (ha)	18.5	16.3	7.1	41.9

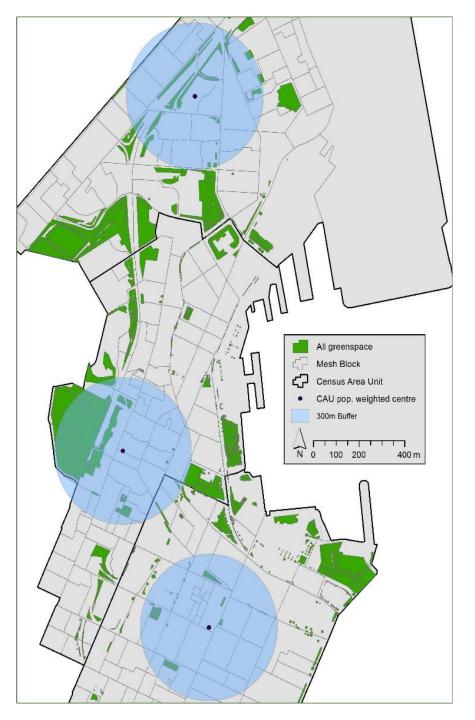


Per capita green space availability

CAU	Population (2013)	Total green space* (ha)	Green space per capita 2013 (m ² /person)	Green space per capita 2043 (m ² /person)
Thorndon-Tinakori Road	4,100	17.3	41	26
Lambton	5,600	12.5	22	11
Willis St-Cambridge Tce	7,300	6.1	8	3
Central City	17,400	34.6	20	10

* Excluding hard surfaces





Supply and demand conclusions

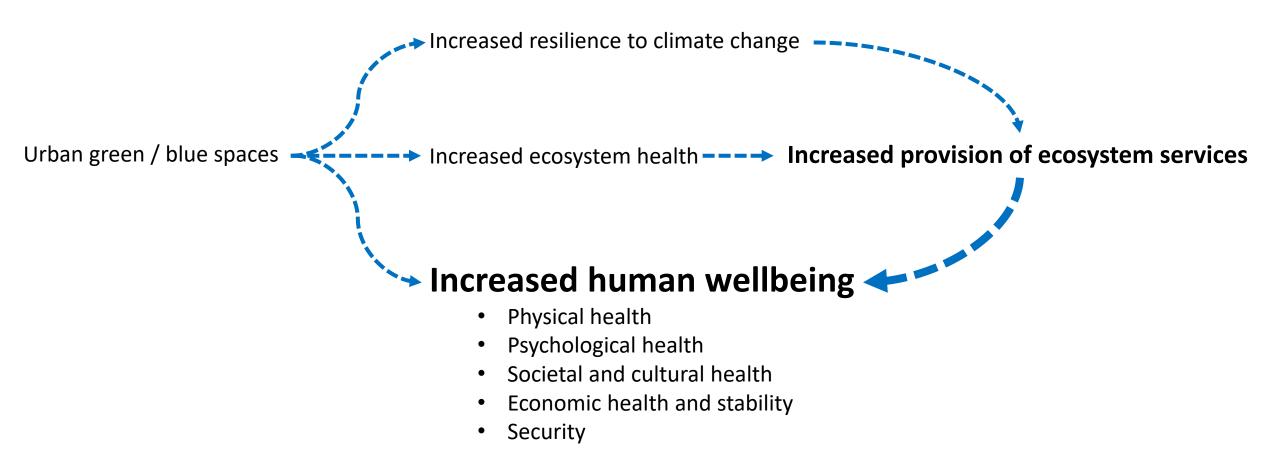
- The supply of accessible GS to the current population is unequally distributed between the three census area units (CAUs) comprising the central city
- These inequalities will increase as the CAU populations grow at different rates
- As population and housing density increases, the case for improving green space supply increases
- Accessibility issues for young, old & people with disabilities quality considerations

Recommendations: Improving quantity and quality

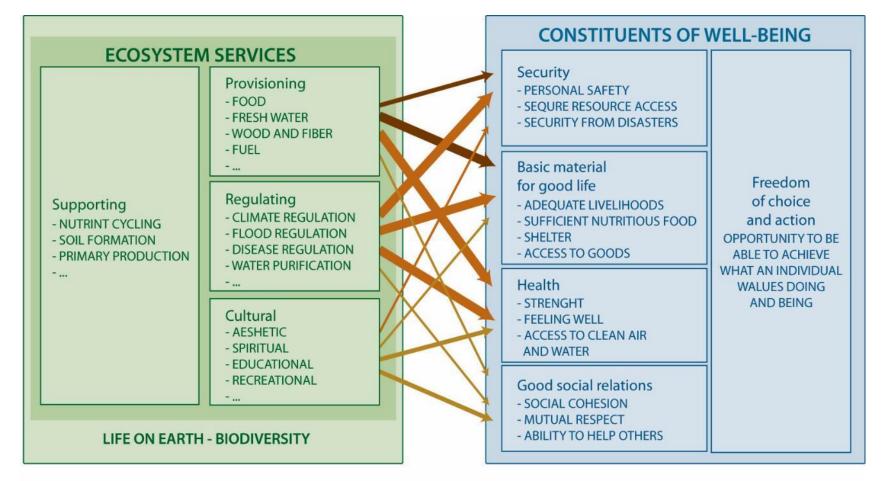
- Plan for increased availability, accessibility & quality of green space in the central city...
 - ...in order to provide for the health & wellbeing and amenity benefits of the significantly larger future population of the central city
- Green spaces should be seen as vital "green infrastructure" and an integral part of functioning urban (eco)systems
- Resources needed for maintenance and replacement
- "Central city green spaces that enhance ecosystem and community health"

11 more specific recommendations

Benefits of urban green / blue space



Ecosystem services and human wellbeing



Arrow's color

Arrow's width

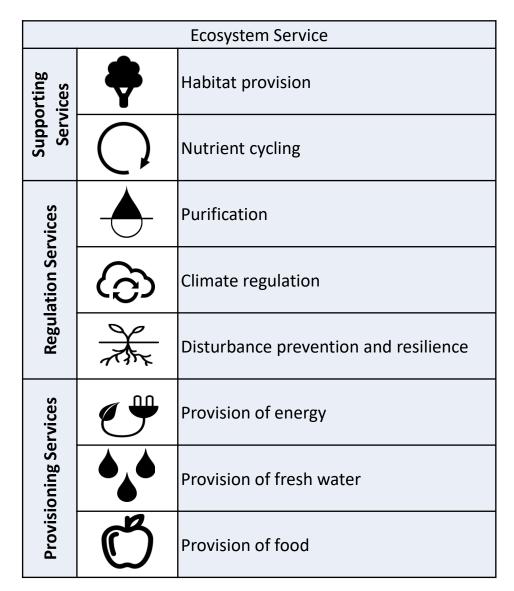
potential for mediation by socioeconomic factors intensity of lin

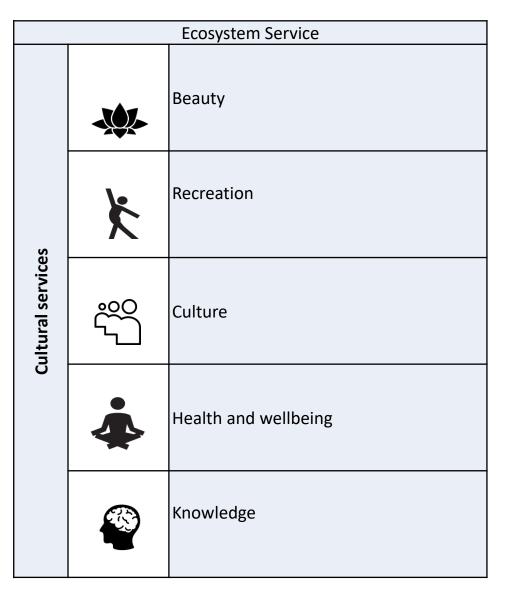
intensity of linkages between ecosystem services and human well-being





Ecosystem services in a Wellington City context



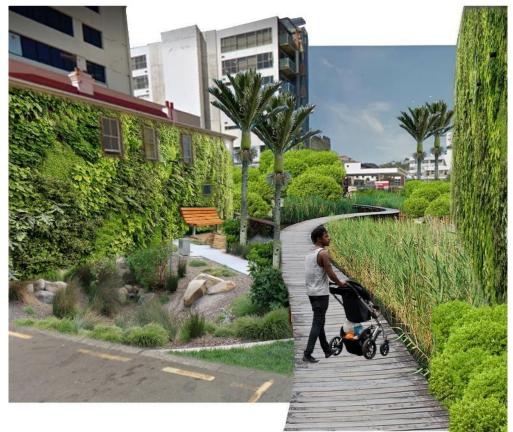


Cuba Quarter Green Nexus

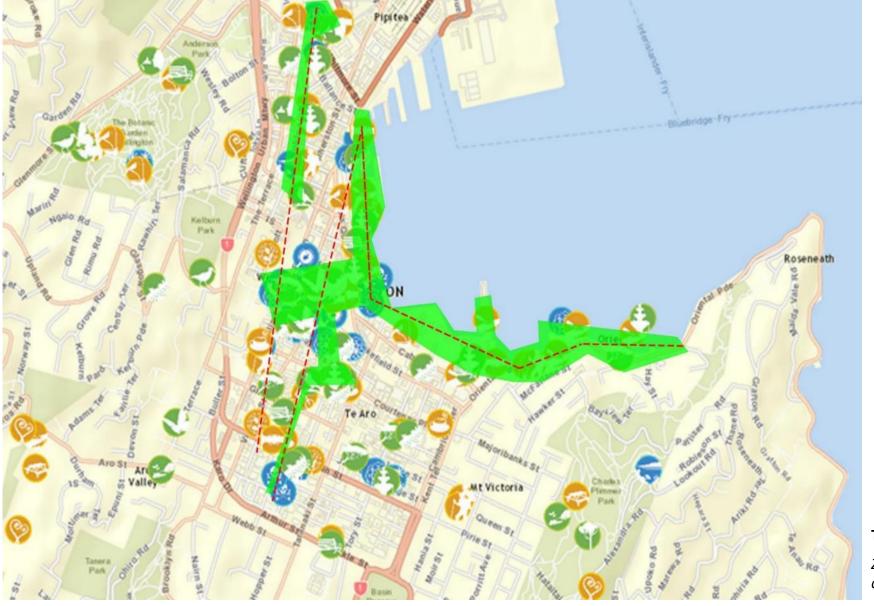




	Ecosystem Service		
Supporting Services		Habitat provision	
egulation Services		Purification	
Regulation Services	X	Disturbance prevention and resilience	
Cultural services		Beauty	
Cultural	رگی 00	Culture	



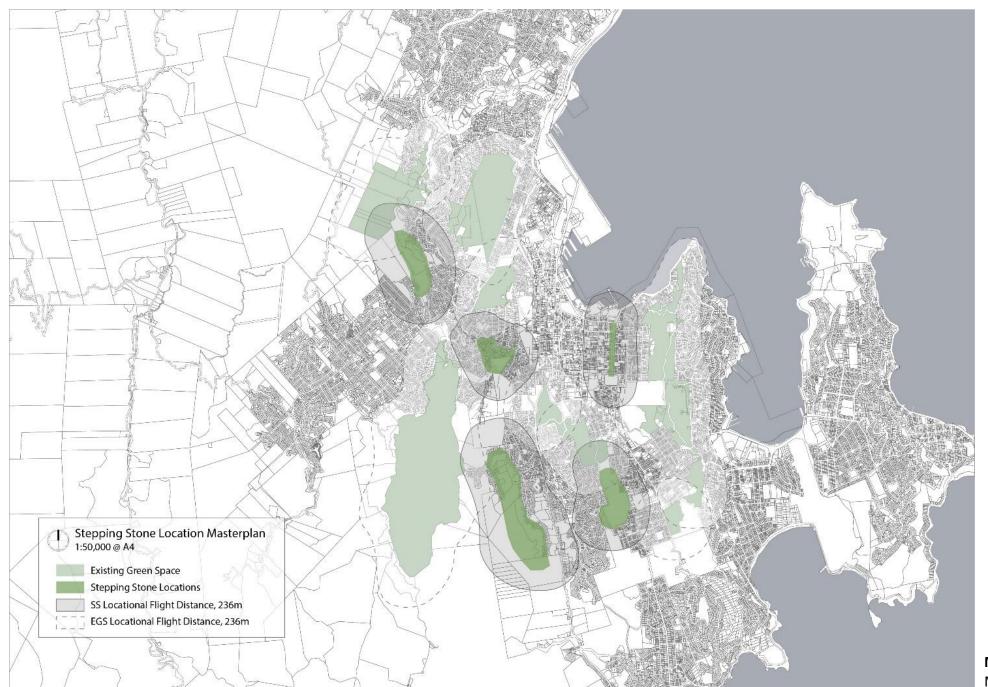
The importance of connected green spaces



http://wellington.govt.nz/recreation/enjoy-the-outdoors/wellington-nature-map

The Wellington Nature Map (Biophilic Wellington)

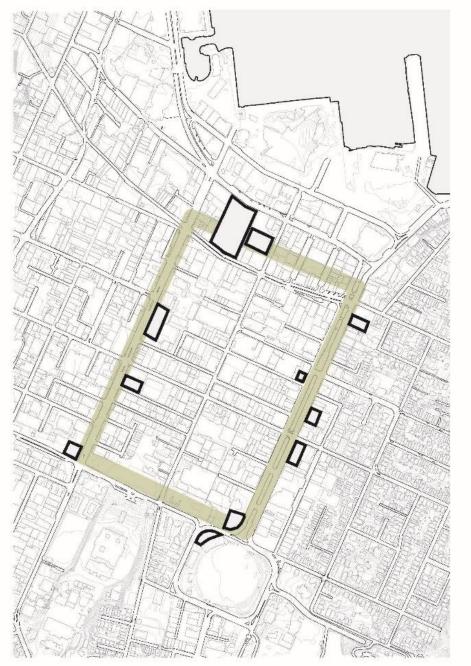
Zones (green) and corridors (red lines) of inner city biophilic intensity in Wellington



Michaela Thomson, VUW Master of Landscape Architecture 2019



Wellington Inner City Green Belt: Architecture as green space and stepping stone habitat 4th Year Architecture Biophilic Design Studio, VUW, 2019



Wellington Inner City Green Belt: Architecture as green space and stepping stone habitat

Taranaki Street,

Courtenay Place,

Kent / Cambridge Terraces, Pukeahu National War Memorial









Accessibility, quality, and universal design



Children and adult visitors at the Botanic Gardens, Wellington (photographer: 'Wanderer')

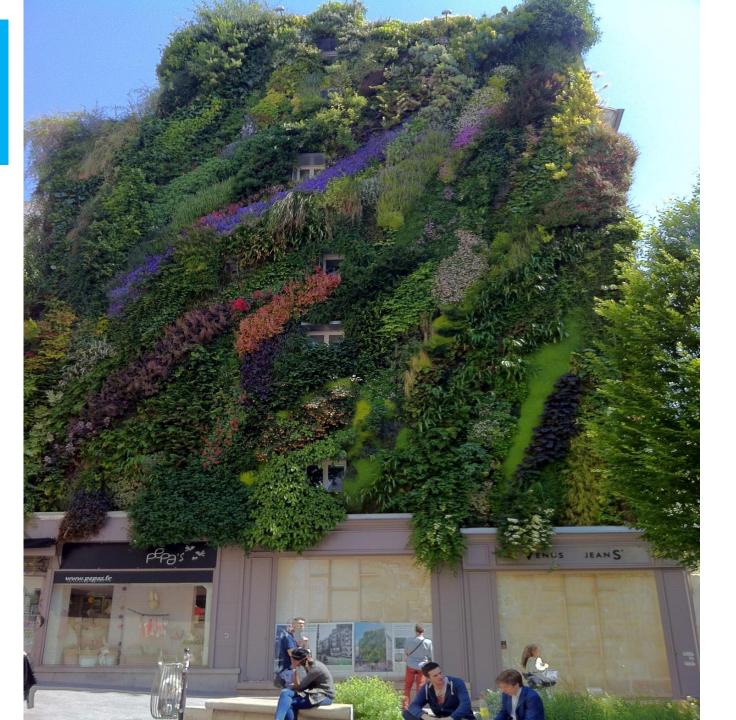
Green space provision as Wellington densifies

- GS "interacts" with other urban infrastructure
 - Other public or accessible private space (waterfront, central govt, churches, private residential) helps augment council GS
- \$ into GS justified as city intensifies: need to maintain QOL & other cobenefits (e.g. resilience; climate change); benefits to property owners & users
 - e.g. small "pocket parks"; street corner parks
 - Do we need so much car parking as city densifies?
- Council can lead way with policies to encourage & where necessary require GS provision
 - Take advantage of opportunities for (small) property acquisition



- More green space needed in inner city
- Green space has many uses
- People like it, want it, use it, when it's close to where they live
- The quality & amount of space varies by census area

Unexpected green in city creates delight



All children need access to green space to be active, healthy and well Green space becomes more important in a compact city

Council vision and leadership essential drivers

Academic partners Centre for Urban Research Excellence

