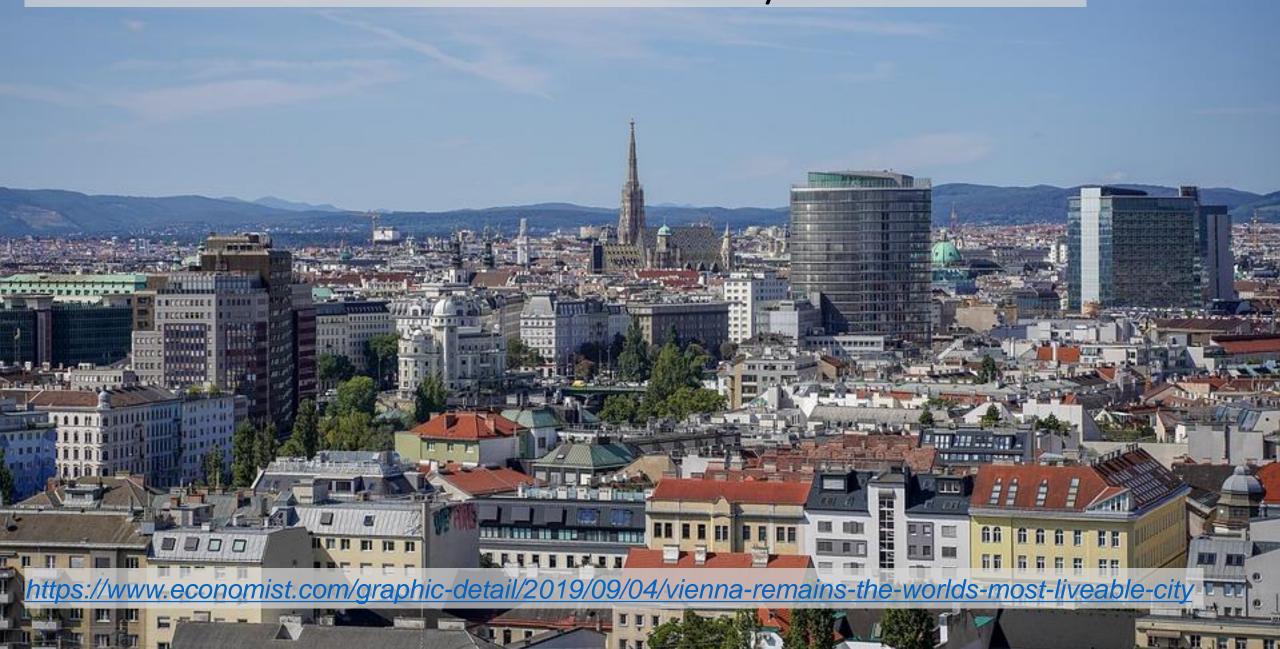


Daylight Amenity Impacts in the Growing City

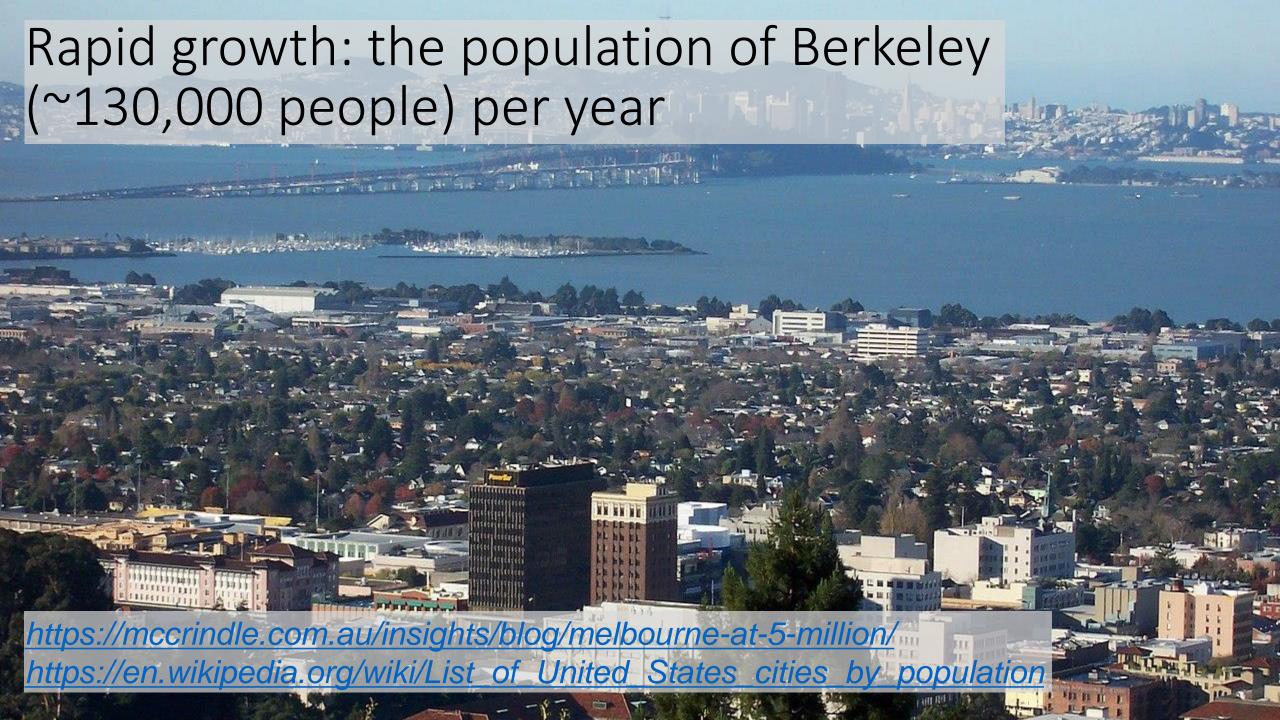
Dr Phillip Greenup Senior Lighting Designer, Arup Daylight Symposium 9 October 2019

Vienna – no. 1 most liveable city in the world



Melbourne - no. 2 most liveable city in the world





How do we maintain daylight amenity and health benefits of daylight as the city densifies?



Planning policies and implementation:

State and local government authorities

State Government Local Councils

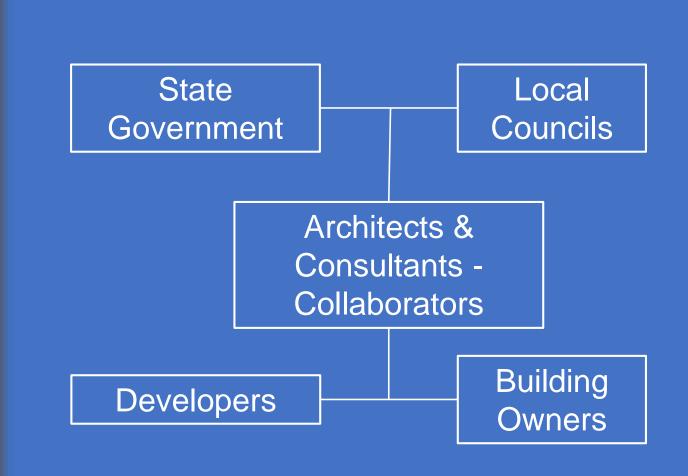
Development, design and commercial responses, risk management:

Owners and developers

Local State Government Councils Building Developers Owners

Advisers and collaborators:

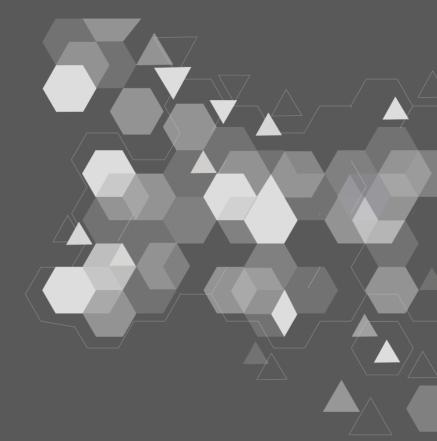
Architects, designers and consultants



Daylight amenity in dwellings



Policies and tools



Better Apartment Design Standards, April 2017

Victorian Planning Policy Framework clauses 55, 58:

- Daylight and sunlight access
- Building setbacks
- Building entries
- Room depth
- Windows

Better Apartments Design Standards

New apartment design standards for Victoria











Green Star

Credit 12.1 Daylight:

Daylight access performance benchmarks

https://new.gbca.org.au/green-star/

Green Star Design & As Built v1.2

Submission Guidelines

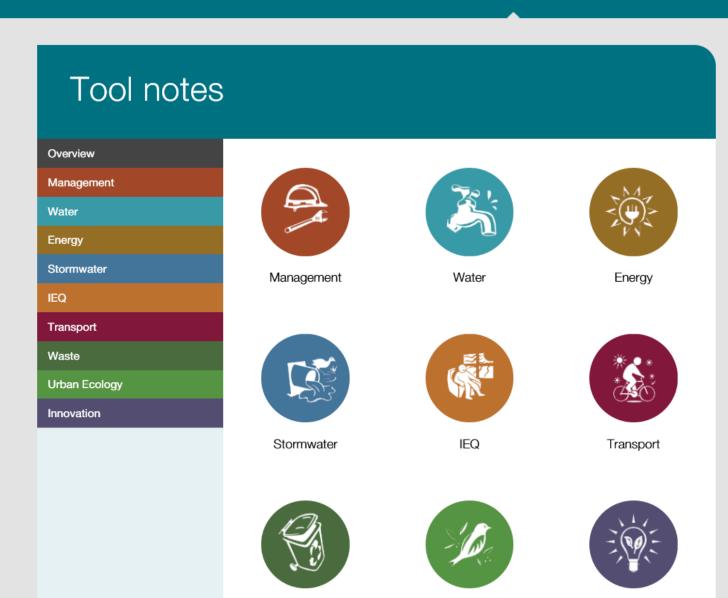




Support & Training Tool notes Contact

Register Sign in

Built Environment Sustainability Scorecard (BESS)



https://bess.net.au/

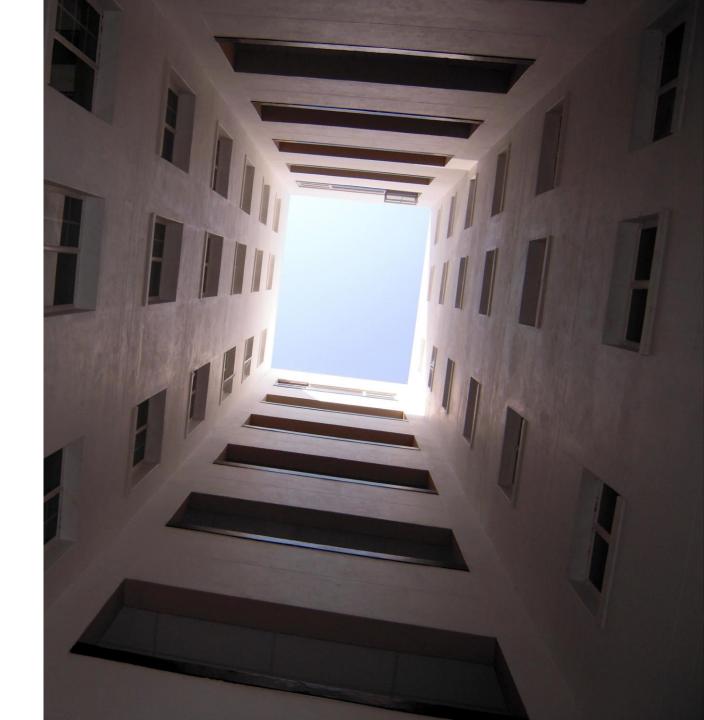
Impacts of new policies



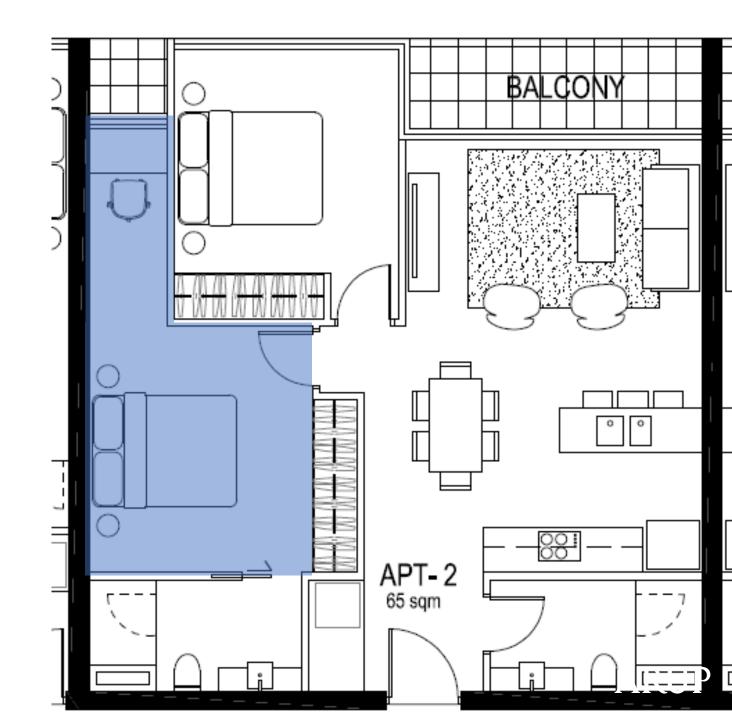
No more 'borrowed light' bedrooms



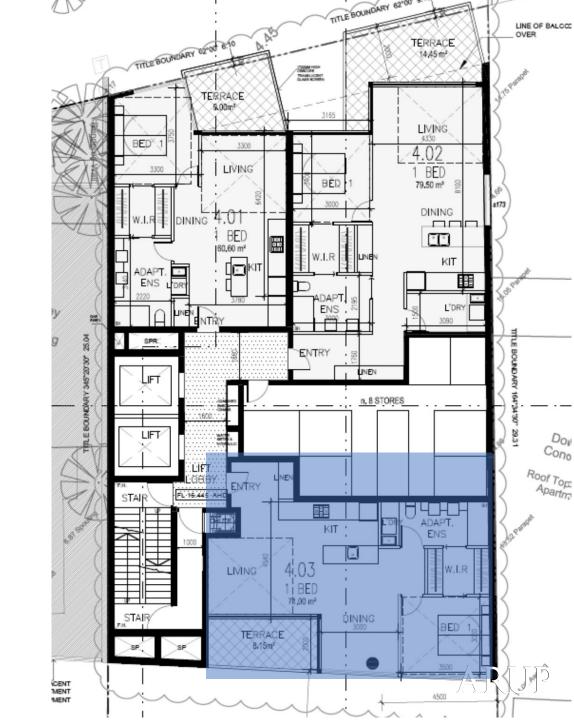
Light well dimensions improved



Better control over set-back bedrooms



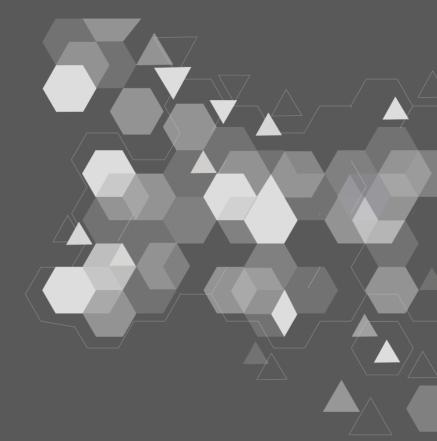
Wider, shallower singleaspect south-facing spaces



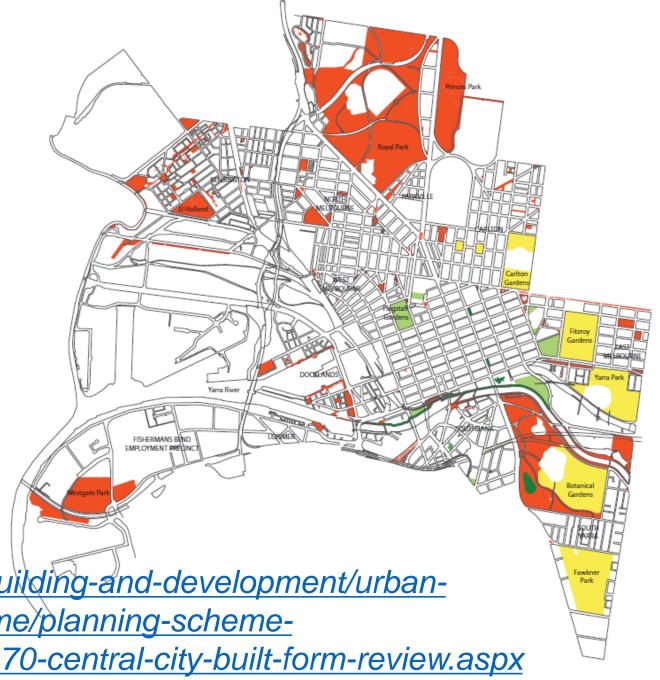
Daylight amenity in urban spaces



Policies and tools



Sunlight protection, August 2017



https://www.melbourne.vic.gov.au/building-and-development/urbanplanning/melbourne-planning-scheme/planning-schemeamendments/Pages/amendment-c270-central-city-built-form-review.aspx Expanded sunlight protection, currently proposed

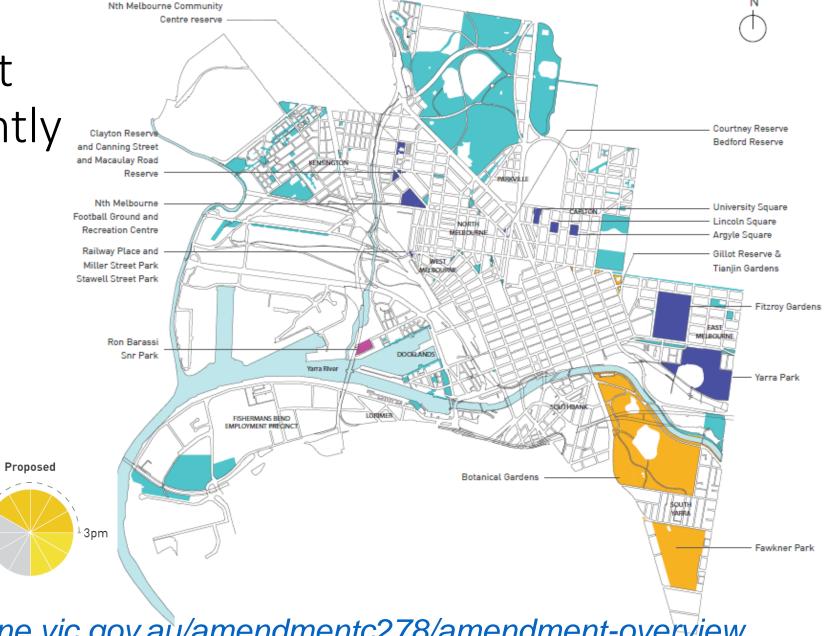
Optimal

10am

Existing

Winter

10am

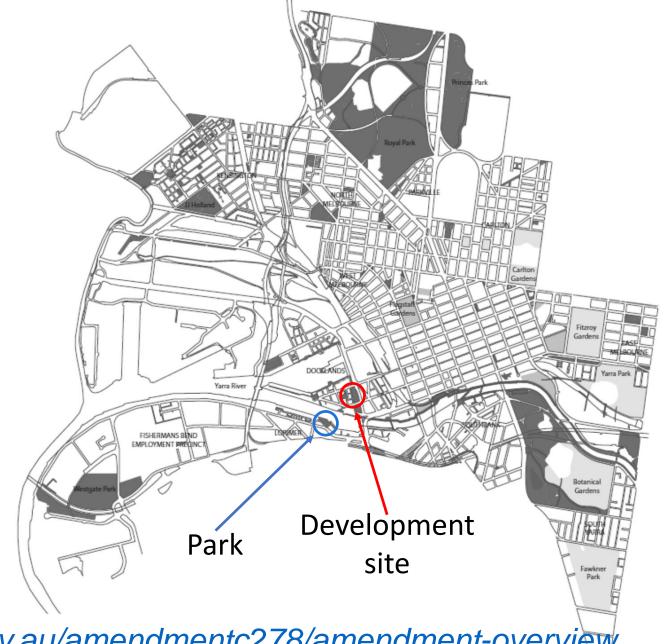


https://participate.melbourne.vic.gov.au/amendmentc278/amendment-overview

Impacts of new policies



Melbourne Quarter Tower



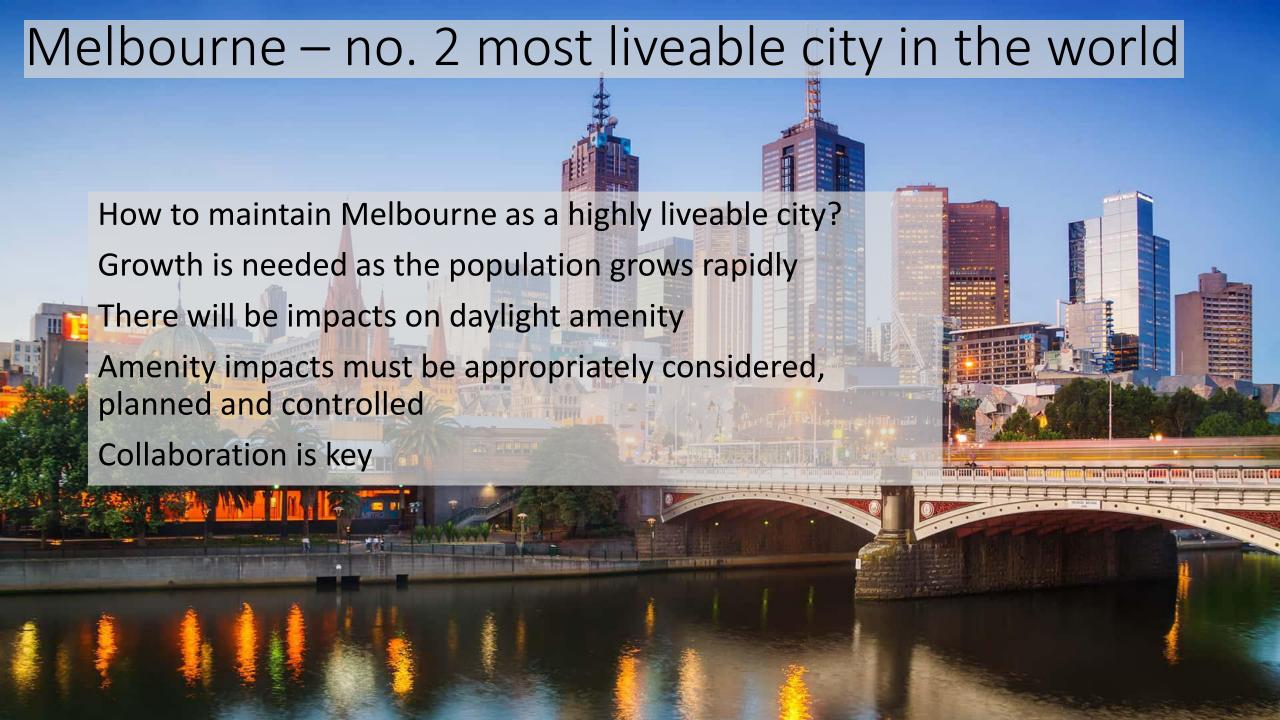
https://participate.melbourne.vic.gov.au/amendmentc278/amendment-overview

Melbourne Quarter Tower

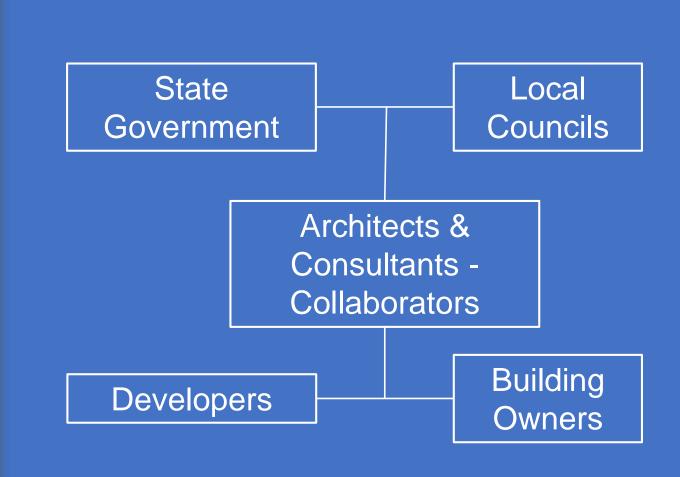


Summary





Consultants working with policy makers, local and state government agencies, developers and architects



Thank you!

Dr Phillip Greenup arup.com

