Vic, Spain

Healthy and Sustainable City Indicators Report: Comparisons with 25 cities internationally

Global Healthy & Sustainable City-Indicators Collaboration



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Global Observatory of Healthy and Sustainable Cities Full report including data, methods and study limitations has been published as:

The Lancet Global Health Series on urban design, transport, and health. 2022. https://www.thelancet.com/series/urban-design-2022

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Population data: Schiavina, M. et al. (2019): GHS population grid multitemporal (1975, 1990, 2000, 2015) R2019A. European Commission, Joint Research Centre (JRC). https://doi.org/10.2905/42E8BE89-54FF-464E-BE7B-BF9E64DA5218 Urban boundaries: Florczyk, A. et al. (2019): GHS Urban Centre Database 2015, multitemporal and multidimensional attributes, R2019A. European Commission, Joint Research Centre (JRC).

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Study executive

Deepti Adlakha, Jonathan Arundel, Geoff Boeing, Ester Cerin, Billie Giles-Corti, Carl Higgs, Erica Hinckson, Shiqin Liu, Melanie Lowe, Anne Vernez Moudon, Jim Sallis & Deborah Salvo

Editors

Carl Higgs, Melanie Lowe & Billie Giles-Corti

Local collaborators (Vic)

Xavier Delclòs Alió, Susana Aznar-Lain, Guillem Vich, Joan Carles Martori, Carme Miralles, Anna Puig-Ribera & Marta Rofin

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Healthy and Sustainable City Indicators Report

This brief report outlines how Vic performs on a selection of spatial and policy indicators of healthy and sustainable cities. Our collaborative study examined the spatial distribution of urban design and transport features and the presence and quality of city planning policies that promote health and sustainability for 25 cities across 19 countries.

Comparisons with the median values for all cities included in this international study could inform changes needed for local city policies. The maps show the distribution of urban design and transport features across Vic, and identify areas that could benefit the most from interventions to create healthy and sustainable environments.

Policy presence in Vic

Urban design and transport policies supporting health and sustainability

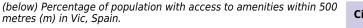


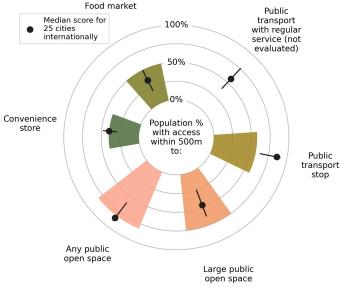
Policy quality in Vic

Policy quality rating for specific, measurable policies aligned with consensus evidence on healthy cities

35/57

Median score for 25 cities internationally (25.5)

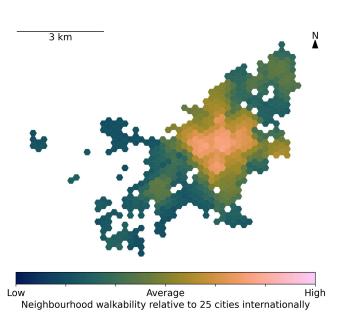




| City planning requirements | requirement met, by country income group | | |
|---|---|-------------|--|
| Vic | Middle /6 | High /19 | |
| Specific health-focused actions in metropolitan urban \checkmark policy | 0% | 84% | |
| Specific health-focused actions in metropolitan transport policy | 50% | 63% | |
| Health Impact Assessment requirements in urban/transport policy/legislation | 33% | 11% | |
| Information on government expenditure on infrastructure for different transport modes | 33% | 47% | |
| Air pollution policies related to transport planning \checkmark | 50% | 89% | |
| Air pollution policies related to land use planning \checkmark | 67% | 84% | |

Walkability in Vic

Walkable neighbourhoods provide opportunities for active, healthy, and sustainable lifestyles through having sufficient but not excessive population density to support adequate provision of local amenities, including public transport services. They also have mixed land uses and well-connected streets, to ensure proximate and convenient access to destinations. High-quality pedestrian infrastructure and reducing traffic through managing demand for car use can also encourage walking for transport.

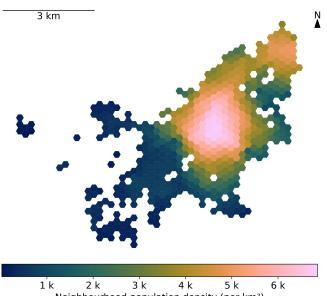


(above) 62.0% of population live in neighbourhoods with walkability scores greater than the 25 international city median

Walkability policy for Vic

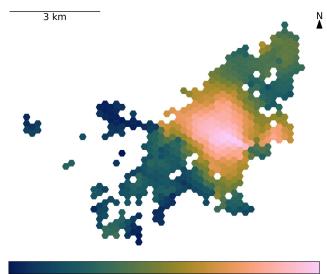
| Po ider | olicy ntified | Specific standard or aim | Measurable target | Consistent with health evidence |
|--|------------------|--------------------------------|----------------------|---------------------------------------|
| Housing density requirements | 1 | 1 | 1 | 1 |
| Street connectivity requirements | 1 | 1 | X | ? |
| Parking restrictions to discourage car use | 1 | 1 | 1 | 1 |
| Pedestrian infrastructure provision | 1 | 1 | 1 | 1 |
| Cycling infrastructure provision | 1 | 1 | 1 | 1 |
| Walking participation targets | 1 | 1 | 1 | 1 |
| Cycling participation targets | 1 | 1 | 1 | X |

Population density



1 k 2 k 3 k 4 k 5 k 6 k Neighbourhood population density (per km²) (above) 24.3% of population meet minimum threshold* for neighbourhood population density (5,677 people per km²)

Street connectivity

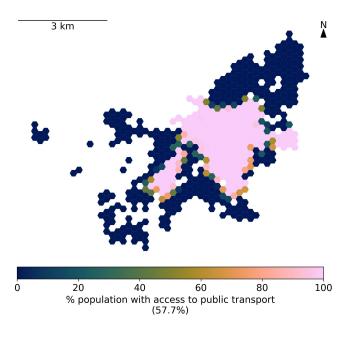


20 40 60 80 100 120 140 160 Neighbourhood street intersection density (per km²) (above) 56.4% of population meet minimum threshold* for neighbourhood street intersection density (106 intersections per km²)

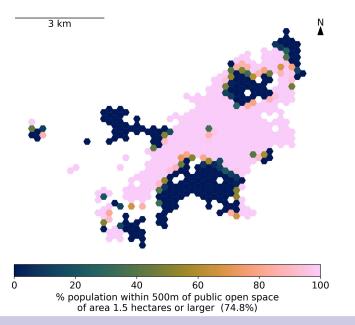
* Thresholds are based on our modelling of built environment features required to reach the World Health Organization's Global Action Plan for Physical Activity target of a 15% relative reduction in insufficient physical activity through walking. We found preliminary evidence that street intersection density above 250 per km² and ultra-dense neighbourhoods (> 15,000 persons per km²) may have decreasing benefits for physical activity. This is an important topic for future research.



Public transport access



Public open space access



Easy access to frequent public transport is a key determinant of healthy and sustainable transport systems. Public transport near housing and employment increases the mode share of public transport trips, thus encouraging transport-related walking; offering access to regional jobs and services; improving health, economic development, and social inclusiveness; and reducing pollution and carbon emissions. The frequency of services also encourages public transport use, in addition to the proximity of stations or stops.

Public transport policy for Vic

| | Policy identified | Specific standard or aim | Measurable target | Consistent with health evidence |
|---|----------------------|--------------------------------|----------------------|---------------------------------------|
| Requirements for public transport access to employment and services | 1 | 1 | 1 | 1 |
| Employment distribution requirements | X | - | - | - |
| Minimum requirements for public transport access | 1 | 1 | 1 | 1 |
| Targets for public transport use | × | - | - | - |

Local access to high-quality public open space promotes recreational physical activity and mental health. Nearby public open space creates convivial, attractive environments, helps cool the city and protects biodiversity. As cities densify and private open space declines, providing more public open space is critical for population health. Having public open space within 400 m of homes can encourage walking. Access to larger parks may also be important.

Public open space policy for Vic Policy Specific Measurable Consistent with health identified standard or target evidence aim Minimum requirements for 1 1 / ./ public open space access

Summary

The availability and quality of urban and transport policies supporting health and sustainability in Vic are above average compared with other cities. However, Vic does not appear to have specific health-focussed actions in its metropolitan transport policies or requirements for health impact assessment. Relative to the 25 cities in this international study, around one half of neighbourhoods in Vic were highly walkable, but this tended to be spatially patterned favouring the inner-city. In terms of thresholds to achieve WHO targets to increase physical activity, only 24% of Vic's residents live in neighbourhoods meeting minimum population density thresholds and 56% meet street connectivity thresholds. Almost 60% of residents have access to public transport stops within 500m, although data on the frequency of services were not available. Similarly, the vast majority of residents have public open space within 500m, and three quarters of residents have access to larger public open space. Access to larger public open space appeared to be spatially patterned, with those in the southern neighbourhoods of Vic less well served. The proportion of the population with access to public transport within 500m in Vic was lower than the average for cities studied; and the proportion with access to any public open space and a convenience store was average.

Citation

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