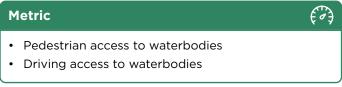
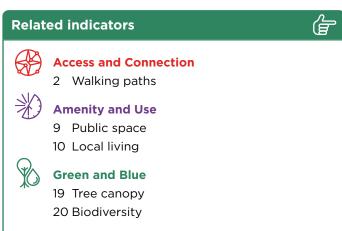
Green and Blue



link to nature

Overview	©				
Indicator name	Waterways				
Indicator number	22 Indicator type Supplementary				
Objective	To measure the local and district accessibility of inland waterbodies for both pedestrian and vehicular modes of transport				
Application guidance	Natural systems can complement both movement and place. Waterways and waterbodies are critical for habitat and ecological health and contribute to the recreational and residential amenity in an area.				
	This indicator will support practitioners to understand how far people must travel using different modes to access public inland waterbodies for leisure use. Based on the outcome of the assessment, practitioners can determine how well integrated blue infrastructure is within the local and broader community.				
	Practitioners can use the <i>pedestrian access to waterbodies</i> metric to measure the local accessibility of inland waterbodies when accessed by foot.				
	Practitioners can use the <i>driving access to waterbodies</i> metric to measure the local accessibility of inland waterbodies when accessed by motor vehicle.				









Metric - Pedestrian access to waterbodies

Metric unit	Metres (m)					
Description	To measure the local accessibility of inland waterbodies when accessed by foot					
Spatial coverage	Applicable to all NSW					
Spatial application	This metric is most suitable for link-based analysis based on the road network					
Calculation	Obtain waterbodies data					
methodology	1. Using hyrdroarea data from the NSW Hydrography dataset, clip the waterbody based on the land zone, including E1, E2, E3, E4, SP2, SP3, RE1, W1, W2 and W3 and unzoned land					
	Perform network analysis					
	2. Extract vertices from waterbody outline					
	3. Run network analysis by using vertices as access point and setting 250m as searching threshold when snapping vertices to nearest road					
	Data representation					
	4. Assign colour based on the classification below Unit: Metres (m)					
	Offic. Metres (III)					
	< 800 801 - 1,600 1,601 - 1,800 1,801 - 2,400 > 2,400					
Assumption	 Vertices from geometry will be treated as access point and snapped to road edge within 250m for GIS network analysis 					
	 Waterbodies sitting in land zones including E1, E2, E3, E4, SP2, SP3, RE1, W1, W2, W3 and unzoned land, are all assumed to be publicly accessible 					
	 Waterbodies with areas less than 5000 square metres have been excluded, as there are some minor manmade farm water storage or dam which is not suitable to access from the public 					
Limitation	 Analysis is limited to inland waterbodies, including rivers, creeks, lakes, lagoons, dams and harbours 					
	 Coastal waterbodies such as beaches have been excluded from analysis (beaches are captured in indicator 9 Public space) 					
	Access points to the waterbodies should be confirmed by practitioner					
	 Other benefits of proximity to waterbodies such as microclimate, ecological health, amenity value is not considered 					
Data source	amenity value is not considered					
Data source	TfNSW Road Track Path Network					



Metric - Driving access to waterbodies

Metric unit	Kilometres (km)							
Description	To measure the district accessibility of inland waterbodies when accessed by motor vehicle							
Spatial coverage	Applicable to all NSW							
Spatial application	This metric is most suitable for link-based analysis based on the road network							
Calculation	Obtain waterbodies data							
methodology	 Using hyrdroarea data from the NSW Hydrography dataset, clip the waterbody based o the land zone, including E1, E2, E3, E4, SP2, SP3, RE1, W1, W2, W3 and unzoned land 							
	Perform network analysis							
	2. Extract vertices from waterbody outline to snap the vertices to nearest road edge							
	Run network analysis by using vertices as access point and setting 250m as searching threshold when snapping vertices to nearest road							
	Data representation							
	4. Assign colour based on the classification below							
	Unit: Kilometres (km)							
	< 5	5.1 – 10	10.1 - 15	15.1 – 20	> 20			
Assumption	 Vertices from geometry will be treated as access point and snapped to road edge within 250m for GIS network analysis 							
	 Waterbodies sitting in land zones including E1, E2, E3, E4, SP2, SP3, RE1, W1, W2, W3 an unzoned land, are all assumed to be publicly accessible 							
	 Waterbodies with areas less than 5000 square metres have been excluded, as there are some minor manmade farm water storage or dam which is not suitable to access from the public 							
Limitation	 Analysis is limited to inland waterbodies, including rivers, creeks, lakes, lagoons, dams and harbours 							
	 Coastal waterbodies such as beaches have been excluded from analysis (beaches are captured in indicator 9 Public space) 							
	captured in indica	tor or abile space)	 Access points to the waterbodies should be confirmed by practitioner 					
			ould be confirmed	by practitioner				
	 Access points to the second control of the second con	he waterbodies sho proximity to waterb		d by practitioner croclimate, ecologic	cal health,			
Data source	Access points to the other benefits of parts	he waterbodies sho proximity to waterb ot considered			cal health,			

Reference	Q
N/A	