Measurement procedure and tool	GIS/Survey			
Scale of measurement	ha of potential habitat			
Data source				
Required data				
Data input type	Quantitative			
Data collection frequency				
Level of expertise required	High			
Synergies with other indicators				
Connection with SDGs	3; 15			
Opportunities for participatory data collection				
Additional information				
References	Bruckmann S.V., Krauss J., Steffan-Dewenter I. (2010). Butterfly and plant specialists suffer from reduced connectivity in fragmented landscapes. Journal of Applied Ecology, 47, 799-809. DOI: 10.1111/j.1365-2664.2010.01828 Hanski I. (1999). Habitat connectivity, habitat continuity, and metapopulations in dynamic landscapes, Biology, 87,2, 209-219. DOI: 10.2307/3546736			

9.2 Number of native species

Project Name: CONNECTING Nature (Grant Agreement no. 730222)

Author/s and affiliations: Stuart Connop

Sustainability Research Institute, University of East London, UK

Number of native animal species		Biodiversity	
Description	The total number of native species within a defined area		
and	(site/neighbourhood/region/city). This can compromise one or		
justification	more of the following taxonomic groups (it should be specified		
	which groups are covered):		
	a. Plants		

	b. Birdsc. Butterfliesd. Invertebratese. Mammals	
Definition	Provides an overview of the species diversity, with distinctions able to be made across taxonomic groups if multiple groups can be covered. Defined species can also serve as an indirect "indicator" for the habitat quality.	
Strengths and weaknesses	Results can support the evaluation of the original aims of a nature-based solution scheme and can monitor performance against these aims over time. Classification of native can be complicated by naturalised species and there is much debate over the role of non-native species in conservation biology, particularly in urban areas.	
Measurement procedure and tool	The sum for each taxonomic group is calculated using field survey. It should be clarified whether this is the exact number or an estimation.	
Scale of measurement	Number of species in a defined area	
Data source		
Required data	Survey data	
Data input type	Quantitative	
Data collection frequency	Typically annual, but can be less frequent if resources are stretched.	
Level of expertise required	High expertise is typically required for species identification. This requirement can be reduced if an index of easily identifiable species is created as a proxy	
Synergies with other indicators	Synergies with non-native and invasive species indicators	
Connection with SDGs	SDGs 14, 15.	
Opportunities for participatory data collection	Surveying represents an excellent opportunity for widening participation.	
Additional information		

References	Ruf, K., Gregor, M., Davis, M., Naumann, S. and McFarland, K., 2018.		
	The European Urban Biodiversity Index (EUBI): a composite		
	indicator for biodiversity in cities. ETC/BD report to the EEA.		
	Also: CBI Indicator 3:		
	https://www.nparks.gov.sg/biodiversity/urban-biodiversity/the-		
	singapore-index-on-cities-biodiversity		
	European Capital of Biodiversity Indicators 4-9:		
	https://www.capital-		
	biodiversity.eu/uploads/media/Indicators_on_urban_biodiversity		
	_LISTEuropean_Capitals_of_Biodiversity.pdf		
	Federal Capital of Biodiversity Indicators 2-7		

9.3 Number of non-native species introduced

Project Name: CONNECTING Nature (Grant Agreement no. 730222)

Author/s and affiliations: Stuart Connop

Sustainability Research Institute, University of East London, UK

Number of non-native animal species Biodiversity		
Description and justification	Proportion of non-native animal and/or plant species introduced within an area as part of a nature-based solution scheme	
Definition	Non-native species are those that have been transported to regions beyond their natural range. In terms of biodiversity objectives, these species can: • create a risk of harm if they become invasive; • provide biodiversity benefits (e.g., complementing native species provision to extend flowering seasons for nectar and pollen collecting insects) • reduce the number of native species within a scheme	
Strengths and weaknesses	Results can support the evaluation of nature-based solution scheme and of against these aims over time. Classinative can be complicated by natural	an monitor performance fication of native and non-
Measurement procedure and tool	Proportion is calculated on the basis native species divided by the total number of non-native species plus t species).	umber of species (i.e., the
Scale of measurement	% of species in a defined area	
Data source		