Indicator specification:

Groundswell collection of geographical and population health indicators

Unique Property Reference Number (UPRN) indicator: 3-30-300 measures (UPRN_6_1)

Version: 1.00
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Overview

Indicator title

Unique Property Reference Number (UPRN) indicator: 3-30-300 Measures (UPRN_6_1)

Indicator family name

Unique Property Reference Number

Descriptor Plain English description

This indicator evaluates access to urban nature at the UPRN level using the "3-30-300" rule. It assesses whether a property meets three criteria: visibility of at least 3 trees, location within a neighbourhood with 30% tree canopy cover, and proximity (within 300 metres) to the nearest local green space.

Technical description

This indicator provides a composite score and individual metrics for the 3-30-300 urban forestry rule at the UPRN level. The following indices were estimated:

- 3 Trees: Represented by the number of trees within a 25m buffer of the UPRN (n_trees_25m). A score of 1 is assigned if the count is ≥ 3.
- 30% Canopy: Represented by the percentage of tree canopy cover within a 300m buffer of the UPRN (tree_canopy_cover_300m). A score of 1 is assigned if coverage is ≥ 0.30 (30%).
- 300 Metres: Represented by the distance to the nearest local green space (distance_local_greenspace). A score of 1 is assigned if the distance is $\geq$ 300m.

The final composite_3_30_300 metric indicates which combination of these rules the property meets (e.g., "3-30-300" if all are met).

Unique Identifier

UPRN_6_1

Construction

Data sources

The indicator is constructed by combining data from the following GroundsWell developed datasets:

- **Tree canopy coverage:** Used to derive number of trees and tree canopy. (Reference: Unique Property Reference Number (UPRN) indicator: Tree canopy coverage).

- **Greenspace Distances**: Used to calculate the distance to the nearest lcoal green space. (Reference: Unique Property Reference Number (UPRN) indicator: Greenspace distances).

The metrics were calculated at the UPRN level for the Cheshire and Merseyside region.

- Tree Count (3): Calculated by counting discrete tree features within a 25m radius of the UPRN centroid, serving as a proxy for visual access to trees.
- Tree canopy (30): Calculated as the proportion of land area covered by tree canopy within a 300m buffer (representing the neighbourhood).
- Distance to local green space(300): Network distance from the UPRN to the nearest qualifying green space.

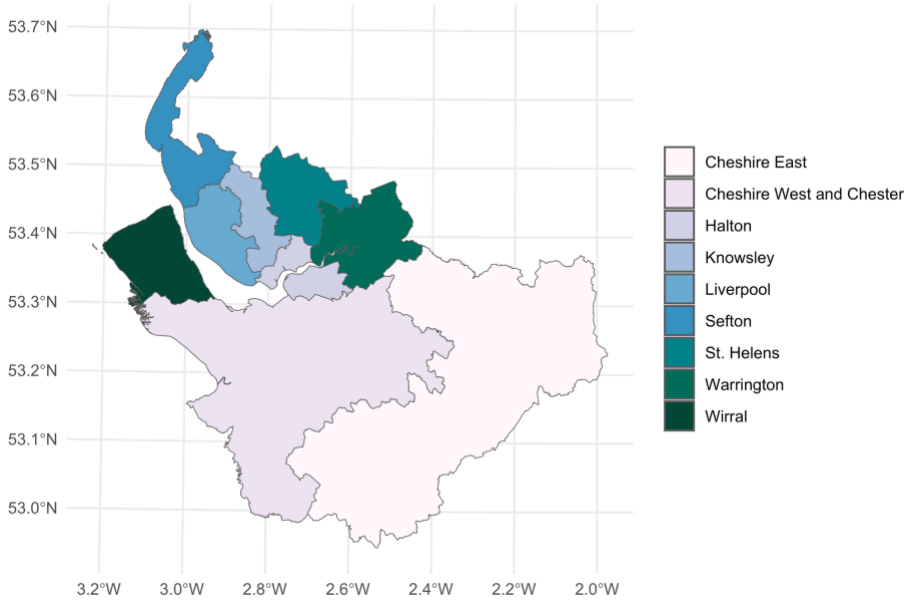

Figure 1. NHS Cheshire and Merseyside ICB region

Presentation

Breakdowns

Time period

Cross sectional based on the Ordnance Survey Open UPRN product v2024.04.

Demographic

Not applicable

Geographic

Unique Property Reference Number (UPRN) level

Disclosure control

Not applicable. Whilst UPRNs can be used to identify unique properties, on their own they cannot be used to identify a particular individual.

Outputs:

UPRN_6_1_3_30_300_measures_cm.csv AND UPRN_6_1_3_30_300_measures_cm_with_coords.csv

Column name	Description
UPRN	Unique Property Reference Number as per the Ordnance Survey Open UPRN product v2025.11.
n_trees_25m	Count of individual trees within a 25m radius of the UPRN.
tree_canopy_cover_300m	Proportion of tree canopy cover within a 300m radius (0 to 1).
distance_local_greenspace	Binary score: 1 if n_trees_25m ≥ 3, otherwise 0.
tree_canopy_cover_300m_score	Binary score: 1 if tree_canopy_cover_300m ≥ 0.30, otherwise 0.
distance_local_greenspace_score	Binary score: 1 if distance_local_greenspace ≥ 300, otherwise 0.
composite_3_30_300	Categorical identifier indicating which criteria are met (e.g., "3-300" or "3-30-300").
latitude (ONLY version with coords)	latitude of the UPRN, given in decimal degrees, where N is positive and S is negative.
longitude (ONLY version with coords)	longitude of the UPRN, given in decimal degrees, where E is positive and W is negative.

Revision history

Version	Date	Summary of changes
1.00	2026-01-26	First release