Public transport accessiblitiy (A.1.2.1c)

Definition:

Accessibility of the river space by pedestrians from public transport stops (bus, tram, metro) per corridor and river segment. This indicator shows the percentage of the total river length accessible by public transport in a 500m distance. Values: **[1] below 50%**; **[2] medium 50%-75%**; **[3] above 75%**.

Input data:

- Corridor segment boundary
- River polygon (OSM: nature=water + waterway=riverbank)[88]
- Road network within the corridor segment (OSM: highway=*)
- Metro, bus and tram stops (OSM: railway=station + highway=bus_stop + railway=tram_stop)
- Radii for bus/tram stops and metro stations
- Buffer distance[89]

Implementation:

1. Metro stops in a search distance of 500m and bus/tram stops in a search distance of 250m around the corridor segment boundary are selected as potential access points from the public transport network to the river.[90]
2. Riverside paths are clipped from the road network with a buffer of 25m from the water polygon.
3. Service areas are calculated from the bus and tram stops (250m) and from the metro stops (500m). The two service areas are merged. The percentage of the riverside paths which are included in the merged service area provides the value of this indicator, as follows: **[1] < 50%**; **[2] 50-75%**; **[3] > 75%**.

Results for CS03:

- Length of riverside paths inside the compond service area: **4066,7m**
- Length of riverside paths inside the compond service area: **4066,7m**
- Public transport accessibility: **100%**

88 If the river polygon is interrupted by bridges, the polygon needs to be completed before it can be used as an input.

89 In case of River Dâmbovița, a buffer distance of 25m was considered to be sufficient for the selection of riverside bike paths. A larger buffer might be needed in other cases, therefore it needs to be determined according to the specific configuration of the riverfront that is being assessed.

90 These values represent distances that people are willing to walk to/from public transport stops. Search distances outside the boundaries of the corridor segment were selected accordingly.

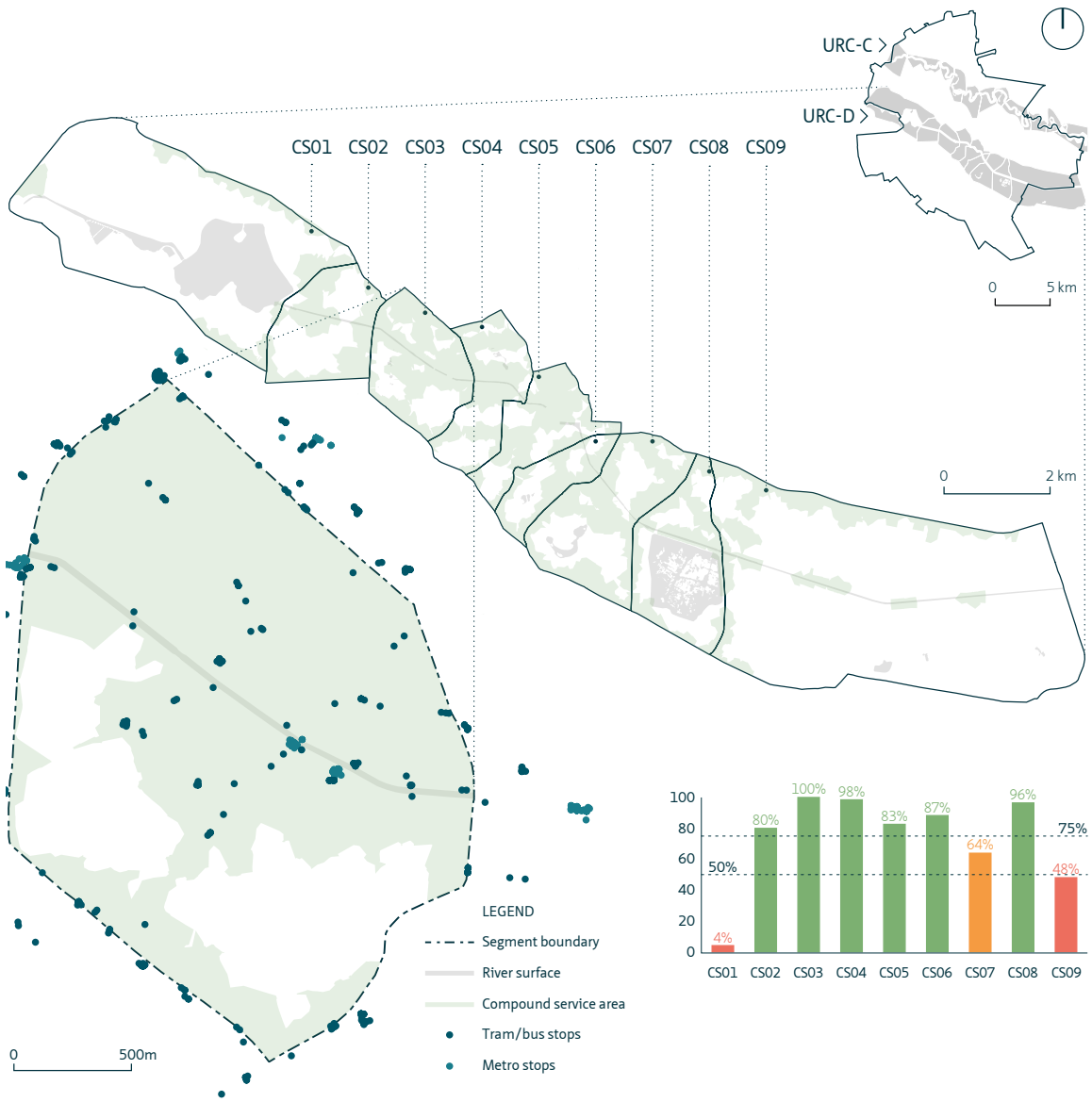

FIGURE APP.E.4 Public transport accessibility along URC Dâmbovița, with detail of CS03.

SEGMENT	VALUE	INDEX
CS01	3.674%	1
CS02	79.94%	3
CS03	100.00%	3
CS04	98.49%	3
CS05	82.57%	3
CS06	86.96%	3
CS07	63.89%	2
CS08	96.45%	3
CS09	48.36%	1

TABLE APP.E.5 Results of indicator A.1.2.1c.

TOC