

Percentage of riverside slow mobility routes (A.1.1.1b)

Definition:

This indicator measures the percentage of waterside slow mobility routes out of the total length of the riverside paths. The following three-point scale is used: [1] <50%; [2] ≥50 or <75%; [3] ≥75%.

Input data:

- Corridor segment boundary
- River polygon (OSM: nature=water + waterway=riverbank)⁸¹
- Road network within the corridor segment (OSM: highway=*)
- Bike path network within the corridor segment (OSM: highway=cycleway OR highway=pedestrian OR highway=path OR highway=footway OR highway=bridleway)
- Buffer distance⁸²

Implementation:

- 1 A buffer of 25m from the river polygon is used to clip the road segments.
- 2 In order to outline the riverbanks, the river polygon is transformed into lines and the end segments—that is, the lines intersecting the corridor segment boundary—are removed.
- 3 The bike paths are extracted from the clipped road segments. Both the clipped road segments and the extracted bike paths are buffered with 5 meters. The two buffers are then intersected with riverbanks.
- 4 The percentage of slow mobility routes is calculated from ratio between the lines resulted from the intersection of the clipped road buffer with the riverbanks (L_R) and from the clipped bike path buffers with the riverbanks (L_{BP}) respectively.

Results CS03:

- L_R = 4066,7m
- L_{BP} = 2222,8m
- Percentage of riverside slow mobility routes: 55%

⁸¹ If the river polygon is interrupted by bridges, the polygon needs to be completed before it can be used as an input.

⁸² 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.

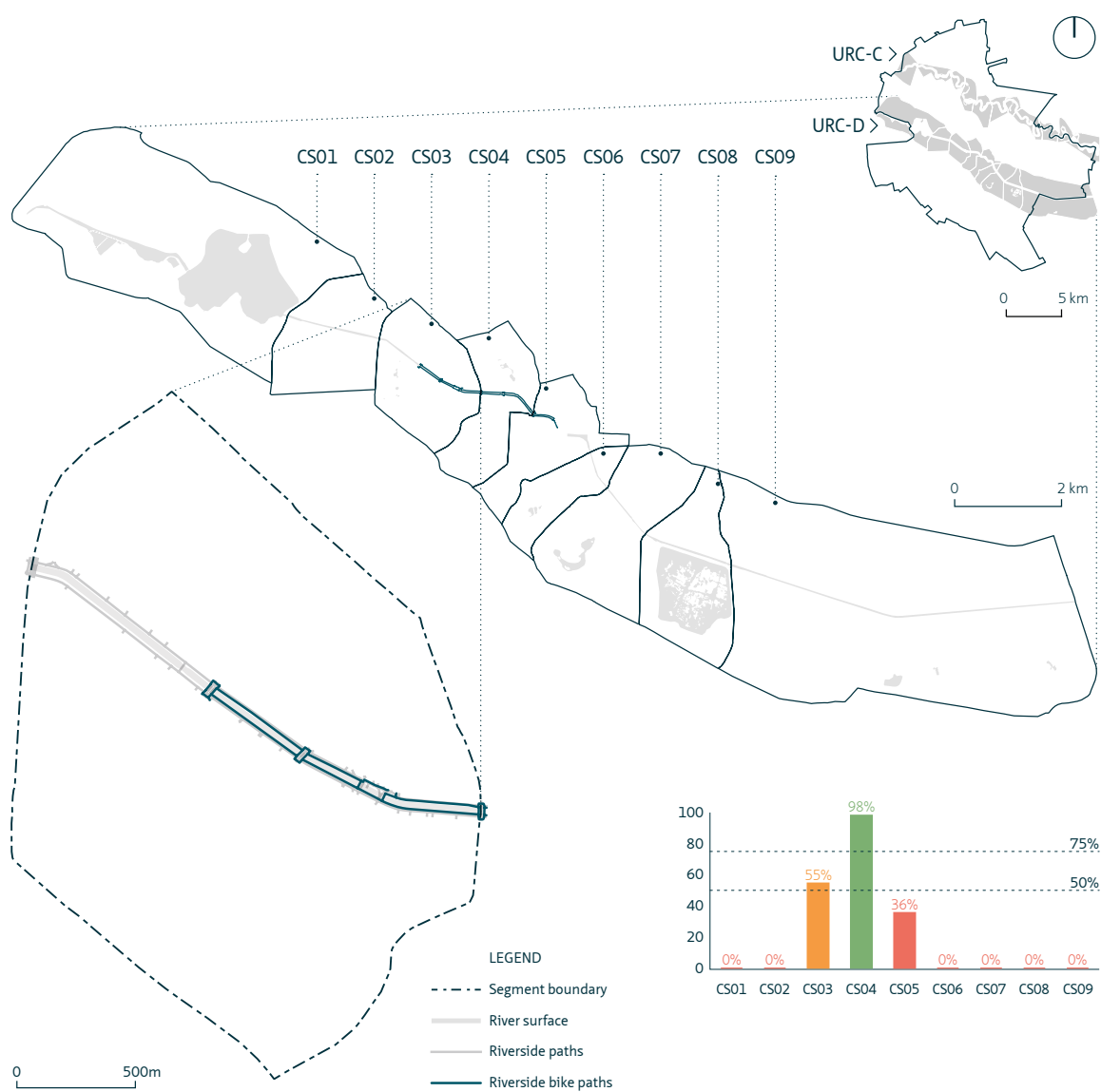


FIGURE APP.E.2 Percentage of slow mobility routes along URC Dâmbovița, with detail of CS03.

SEGMENT	VALUE	INDEX
CS01	0.00%	1
CS02	0.00%	1
CS03	54.66%	2
CS04	98.25%	3
CS05	35.72%	1
CS06	0.00%	1
CS07	0.00%	1
CS08	0.00%	1
CS09	0.00%	1

TABLE APP.E.3 Results of indicator A.1.1.1b.