# Visual permeability—% visible river space (B.1.2.1a)

### Definition:

Visual permeability is an indicator of spatial quality that shows the percentage of visible open space within the river space. Values: [1] low visibility, when lower than 25%, [2] medium visibility between 25% and 75%, and [3] high visibility above 75%.

## Input data:

- Corridor segment boundaries
- Digital elevation model<sup>105</sup>
- Buffer from river edges: 150m
- Buildings (OSM)

# Implementation:

- A digital elevation model (DEM) and buildings within the corridor are used as input to a viewshed analysis. The viewshed analysis is performed from the river edges.
- 2 A 150m buffer is created along the river edges.
- The percentage of visible open space is given by dividing the total visibility area ( $A_{vis}$ ) by the total area of the buffer ( $A_{tot}$ ) within the corridor segment. Values are classified as [1] low visibility, when lower than 25%, [2] medium visibility between 25% and 75%, and [3] high visibility above 75%.

## Results for CS03:

- $-A_{vis} = 331.866 \text{ m}^2$
- $-A_{tot} = 666.947 \text{ m}^2$
- Visible river space: 49,8%

332

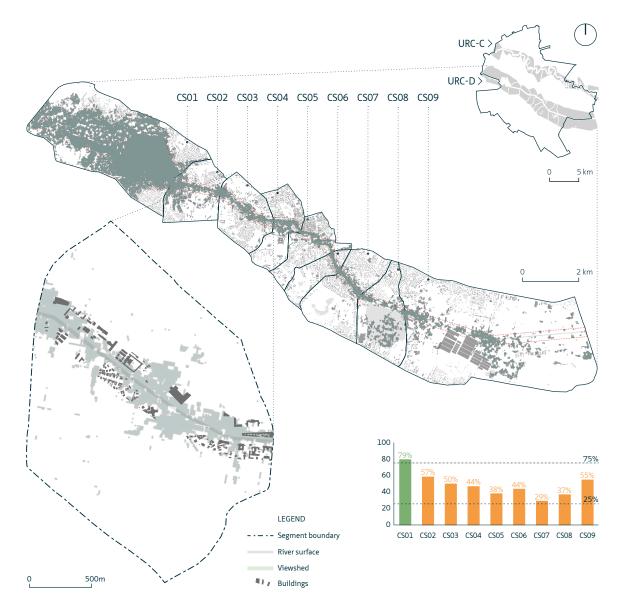


FIGURE APP.E.13 Visual permeability—% visible river space along URC Dâmboviţa, with detail of CSO3.

SEGMENT	VALUE	INDEX
CS01	79.198%	3
CS02	57.286%	2
CS03	49.759%	2
CS04	44.412%	2
CS05	37.922%	2
CS06	43.536%	2
CS07	28.944%	2
CS08	36.684%	2
CS09	54.605%	2

TABLE APP.E.15 Results of indicator B.1.2.1a.