

1: Performance by approach

Approach	NB	SB	SE	NW	All
Denied Del/Veh (s)	0.0	0.0	2.7	2.0	1.5
Total Del/Veh (s)	2.7	2.8	5.0	3.8	3.9
Stop Del/Veh (s)	1.2	0.8	0.2	0.5	0.6
Stop/Veh	0.34	0.59	0.63	0.57	0.54
Avg Speed (kph)	17	20	30	36	29
HC Emissions (g)	1	0	2	2	5
CO Emissions (g)	15	6	89	47	157
NOx Emissions (g)	2	1	8	5	17

2: Performance by approach

Approach	EB	WB	SB	All
Denied Del/Veh (s)	0.2	0.0	0.0	0.1
Total Del/Veh (s)	1.4	1.1	9.9	2.7
Stop Del/Veh (s)	0.0	0.0	9.7	1.6
Stop/Veh	0.00	0.00	0.61	0.10
Avg Speed (kph)	43	47	7	39
HC Emissions (g)	12	4	0	16
CO Emissions (g)	287	77	8	372
NOx Emissions (g)	32	12	1	44

### 3: Performance by approach

Approach	NB	SB	NW	All
Denied Del/Veh (s)	0.0	0.2	0.0	0.1
Total Del/Veh (s)	1.2	1.0	6.8	1.6
Stop Del/Veh (s)	0.0	0.0	6.0	0.5
Stop/Veh	0.00	0.00	0.50	0.05
Avg Speed (kph)	46	45	12	43
HC Emissions (g)	7	5	0	12
CO Emissions (g)	132	166	7	304
NOx Emissions (g)	21	15	1	37

### Total Network Performance

Denied Del/Veh (s)	0.9
Total Del/Veh (s)	6.8
Stop Del/Veh (s)	1.9
Stop/Veh	0.34
Avg Speed (kph)	41
HC Emissions (g)	114
CO Emissions (g)	3210
NOx Emissions (g)	350

## Queuing and Blocking Report

### Baseline

Centura metropolitana Cluj - Napoca

Anexa 1 - Nod 15 - an 2025

#### Intersection: 1:

Movement	NB	SB	SB	SE	SE	NW	NW
Directions Served	L	L	>	LT	>	LT	>
Maximum Queue (m)	16.3	11.1	8.7	8.8	22.2	16.2	12.7
Average Queue (m)	12.6	8.3	8.3	1.8	13.3	5.0	7.9
95th Queue (m)	18.8	15.2	8.8	7.6	22.2	15.8	11.8
Link Distance (m)	14.9	22.8		129.0		174.3	
Upstream Blk Time (%)	2						
Queuing Penalty (veh)	8						
Storage Bay Dist (m)			1.0		1.0		1.0
Storage Blk Time (%)	4	1	1	0	1	1	
Queuing Penalty (veh)	0	2	0	1	1	1	

#### Intersection: 2:

Movement	SB	B16
Directions Served	R	T
Maximum Queue (m)	31.4	23.2
Average Queue (m)	28.0	7.7
95th Queue (m)	35.4	22.1
Link Distance (m)	7.0	213.8
Upstream Blk Time (%)	40	
Queuing Penalty (veh)	154	
Storage Bay Dist (m)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

## Queuing and Blocking Report Baseline

Centura metropolitana Cluj - Napoca

Anexa 1 - Nod 15 - an 2025

### Intersection: 3:

Movement	NW
Directions Served	R
Maximum Queue (m)	34.5
Average Queue (m)	16.7
95th Queue (m)	32.1
Link Distance (m)	22.8
Upstream Blk Time (%)	3
Queuing Penalty (veh)	6
Storage Bay Dist (m)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

### Network Summary

Network wide Queuing Penalty: 172