

### 1: Performance by approach

Approach	NB	SB	SE	NW	All
Denied Del/Veh (s)	0.0	0.0	1.1	0.0	0.5
Total Del/Veh (s)	6.7	6.2	9.8	10.3	9.5
Stop Del/Veh (s)	5.4	3.8	3.2	5.9	4.6
Stop/Veh	0.81	0.60	0.56	0.56	0.58
Avg Speed (kph)	13	19	29	18	23
HC Emissions (g)	0	0	5	3	8
CO Emissions (g)	5	6	223	85	319
NOx Emissions (g)	1	1	19	10	31

### 2: Performance by approach

Approach	EB	WB	SB	All
Denied Del/Veh (s)	0.4	0.0	0.0	0.2
Total Del/Veh (s)	2.7	1.0	3.2	2.5
Stop Del/Veh (s)	0.0	0.0	2.4	0.7
Stop/Veh	0.01	0.01	0.34	0.11
Avg Speed (kph)	36	46	15	35
HC Emissions (g)	4	4	1	8
CO Emissions (g)	139	67	14	220
NOx Emissions (g)	12	10	2	23

### 3: Performance by approach

Approach	NB	NE	SW	All
Denied Del/Veh (s)	0.0	0.0	0.1	0.1
Total Del/Veh (s)	0.5	0.2	0.5	0.4
Stop Del/Veh (s)	0.0	0.0	0.0	0.0
Stop/Veh	0.00	0.00	0.00	0.00
Avg Speed (kph)	22	49	46	45
HC Emissions (g)	0	2	6	8
CO Emissions (g)	2	35	154	192
NOx Emissions (g)	0	5	18	23

### 4: Performance by approach

Approach	EB	All
Denied Del/Veh (s)	0.0	0.0
Total Del/Veh (s)	0.3	0.3
Stop Del/Veh (s)	0.0	0.0
Stop/Veh	0.00	0.00
Avg Speed (kph)	46	46
HC Emissions (g)	4	4
CO Emissions (g)	224	224
NOx Emissions (g)	13	13

### 5: Performance by approach

Approach	EB	SE	NW	All
Denied Del/Veh (s)	0.0	0.0	0.0	0.0
Total Del/Veh (s)	1.5	1.1	1.6	1.4
Stop Del/Veh (s)	0.0	0.3	0.0	0.1
Stop/Veh	0.00	0.01	0.02	0.01
Avg Speed (kph)	32	32	37	33
HC Emissions (g)	0	4	2	6
CO Emissions (g)	7	273	37	317
NOx Emissions (g)	1	20	5	26

### Total Network Performance

Denied Del/Veh (s)	1.0
Total Del/Veh (s)	10.5
Stop Del/Veh (s)	3.5
Stop/Veh	0.43
Avg Speed (kph)	37
HC Emissions (g)	110
CO Emissions (g)	3908
NOx Emissions (g)	376

## Queuing and Blocking Report Baseline

Centura metropolitana Cluj - Napoca

Anexa 1 - nod 16 - an 2025

### Intersection: 1:

Movement	NB	NB	SB	SB	SE	SE	SE	NW	NW	NW
Directions Served	L	L	L	>	ULT	T	>	L	T	>
Maximum Queue (m)	15.5	16.2	9.0	15.1	22.9	38.8	15.0	58.1	51.6	9.2
Average Queue (m)	8.6	12.5	3.6	11.8	12.7	30.7	10.1	26.5	34.0	8.4
95th Queue (m)	16.8	17.5	10.9	16.8	22.1	46.5	14.1	56.5	62.8	9.7
Link Distance (m)	25.5	25.5	50.4	50.4	194.5	194.5		63.1	63.1	
Upstream Blk Time (%)								0		
Queuing Penalty (veh)								0		
Storage Bay Dist (m)							1.0			1.0
Storage Blk Time (%)						8	6		8	2
Queuing Penalty (veh)						13	18		6	11

### Intersection: 2:

Movement	WB	SB
Directions Served	T	R
Maximum Queue (m)	7.5	32.0
Average Queue (m)	1.5	22.0
95th Queue (m)	6.4	41.6
Link Distance (m)	199.8	21.9
Upstream Blk Time (%)		8
Queuing Penalty (veh)		49
Storage Bay Dist (m)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 3:

Movement
Directions Served
Maximum Queue (m)
Average Queue (m)
95th Queue (m)
Link Distance (m)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (m)
Storage Blk Time (%)
Queuing Penalty (veh)

Intersection: 4:

Movement
Directions Served
Maximum Queue (m)
Average Queue (m)
95th Queue (m)
Link Distance (m)
Upstream Blk Time (%)
Queuing Penalty (veh)
Storage Bay Dist (m)
Storage Blk Time (%)
Queuing Penalty (veh)

## Queuing and Blocking Report Baseline

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### Intersection: 5:

Movement	NW
Directions Served	T
Maximum Queue (m)	14.2
Average Queue (m)	2.8
95th Queue (m)	12.2
Link Distance (m)	50.7
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (m)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

### Network Summary

Network wide Queuing Penalty: 98