Step 4: Display the link volume Total Link Volume

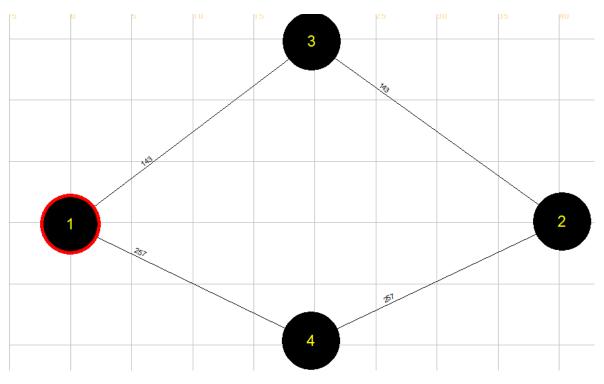


Figure 1: Total link volume

Step5) Prepare statistics for the base case scenario.

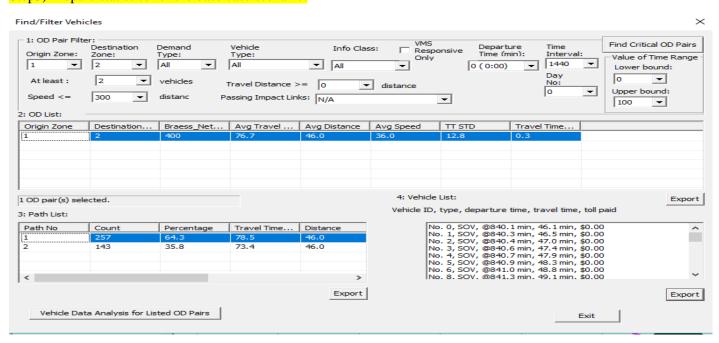


Figure 2: Path selection information and vehicle list

Step 6: Use the "summary" button to verify the overall network performance.

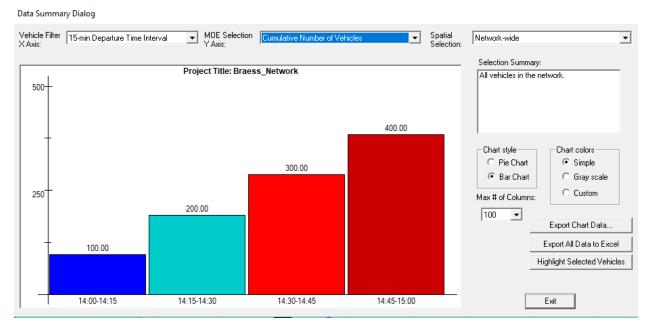


Figure 3: Cumulative number of vehicles for 15-min departure time interval

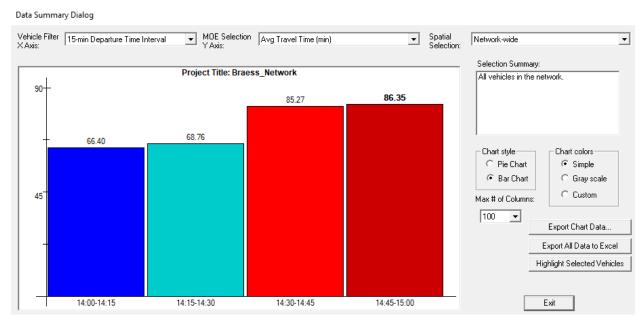


Figure 4: The average travel time using bar chart

Data Summary Dialog

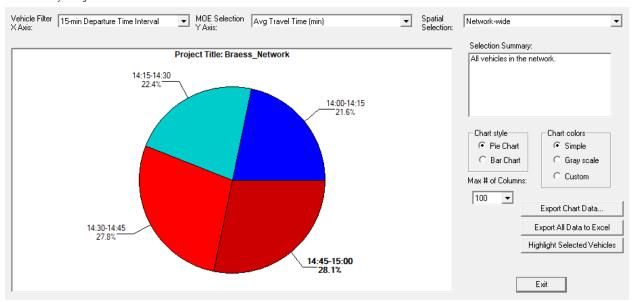


Figure 5: Average travel time using pie chart

Task 4: Using NEXTA to display the shortest path in Braess network.

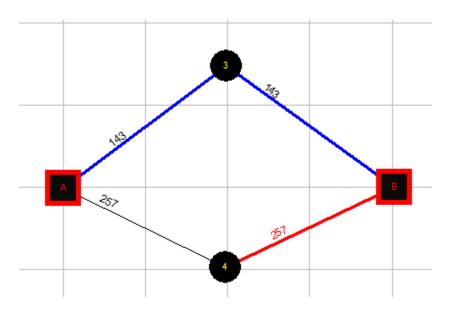


Figure 6: The shortest path (blue links) from A (1) to 3 to B (2)

For example, I avoided node number 3

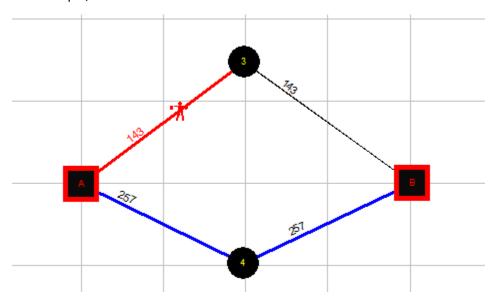


Figure 7: The shortest path has changed after avoiding node number 3



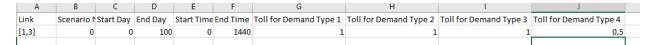
Free-flow Travel Time (min)			# of lanes		Lane Satur	
1.00			1		1800.00	
45.00			3		1800.00	
Lane Capacity	Link Type	Sensor Type		(Count	
100.00	Freeway					
1900.00	Freeway					

Figure 8: Travel time and flow and other links data

Task 5: Compare System-wide Performance Differences between Two Networks.

Task 6: Add Toll:

Link from node A (1) to node 3 was selected to be a toll link



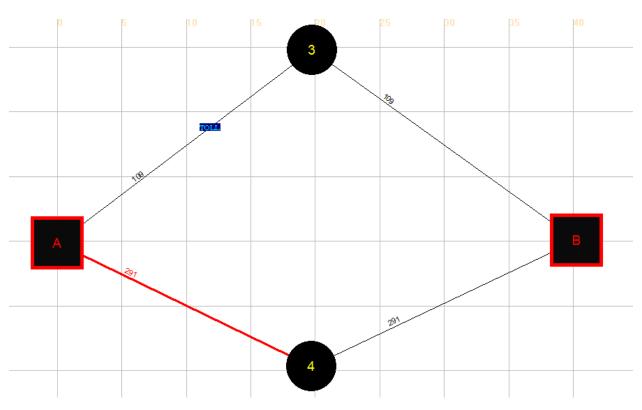


Figure 9: The toll was assigned for the link from 1 to 3

Due to the toll, some users shift their routes which impact the traffic volume to decrease from 149 to 109 as shown on the above figure.