

KALIBRASI DAN VALIDASI

- Merubah parameter tertentu pada perilaku pengemudi (Driving Behaviour).
- Parameter tersebut adalah:
 1. Desired Position at Free Flow : posisi kendaraan kendaraan yang dikehendaki saat arus bebas.
 2. Overtake on Same Lane : pengaturan perilaku pengemudi pada saat menyiap kendaraan di depannya. Dengan mengatur jarak minimum terhadap kendaraan yang akan disiap
 3. Distance Standing : nilai minimum dari jarak pengemudi saat memberhentikan kendaraan terhadap kendaraan lain.
 4. Distance Driving : pengaturan jarak aman kendaraan saat melaju dengan kecepatan 50 km/jam
 5. Average Standstill Distance : pengaturan jarak rata-rata kendaraan terhadap kendaraan lain
 6. Additive Part of Safety Distance : jarak aman tambahan saat kondisi normal, seperti pengemudi melakukan rem secara mendadak
 7. Multiplicative Part of Safety Distance : jarak aman tambahan untuk kondisi tidak normal saat mengemudi

Kondisi Default pada Software Vissim

No.	Parameter	Nilai
1	Desired position at free flow	Middle of lane
2	Overtake on same line	off
3	Distance standing	1
4	Distance driving	1
5	Average standstill distance	2
6	Additive part of safety distance	2
7	Multiplicative part of safety distance	3

HASIL SIMULASI (VOLUME KENDARAAN)

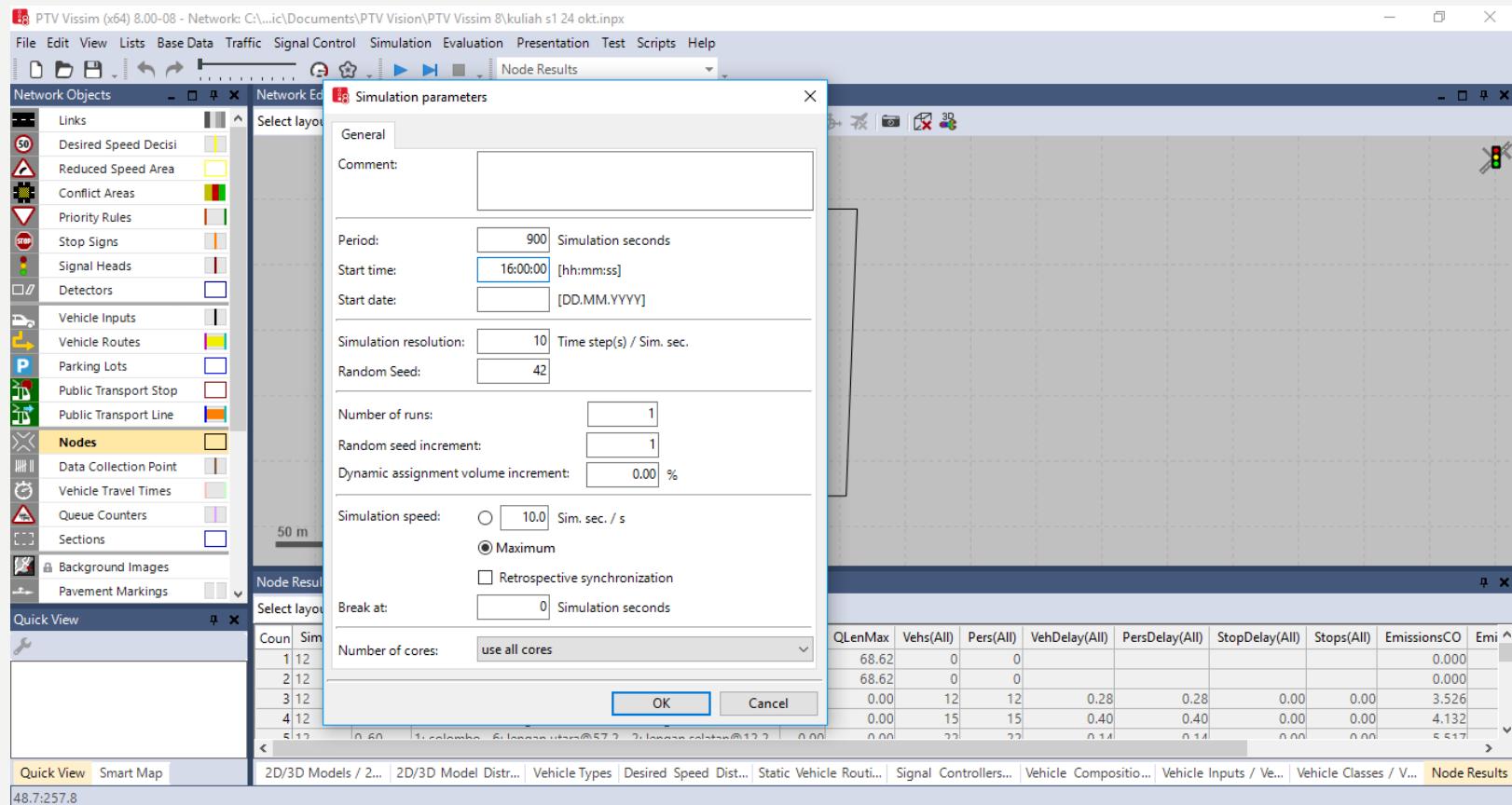
I. Node Result (kotak dibuat diluar connector)



Count	SimRun	Timelnt	Movement	QLen	QLenMax	Vehs(All)	Pers(All)	VehDelay(All)	PersDelay(All)	StopDelay(All)	Stops(All)	E
1	1	0-3600	1: Simpang Tugu Jogja - 1: jl. diponegoro@120.4 - 3: Jl. AM Sangaji@15.	0.00	0.00	122	122	0.69	0.69	0.00	0.00	
2	1	0-3600	1: Simpang Tugu Jogja - 1: jl. diponegoro@120.4 - 5: Jl. sudirman@11.3	0.00	0.00	75	75	0.73	0.73	0.00	0.00	
3	1	0-3600	1: Simpang Tugu Jogja - 1: jl. diponegoro@120.4 - 7: Jl. Margo Utomo@	0.00	0.00	23	23	0.35	0.35	0.00	0.00	
4	1	0-3600	1: Simpang Tugu Jogja - 1: jl. diponegoro@120.4 - 8: Jl. Margo Utomo@	0.00	0.00	23	23	0.23	0.23	0.00	0.00	
5	1	0-3600	1: Simpang Tugu Jogja - 4: Jl. AM Sangaji@93.1 - 2: jl. diponegoro@11.3	0.00	0.00	68	68	0.36	0.36	0.00	0.00	
6	1	0-3600	1: Simpang Tugu Jogja - 4: Jl. AM Sangaji@93.1 - 5: Jl. sudirman@11.3	0.00	0.00	74	74	0.37	0.37	0.00	0.00	
7	1	0-3600	1: Simpang Tugu Jogja - 4: Jl. AM Sangaji@93.1 - 7: Jl. Margo Utomo@4.	0.00	0.00	29	29	0.17	0.17	0.00	0.00	
8	1	0-3600	1: Simpang Tugu Jogja - 4: Jl. AM Sangaji@93.1 - 8: Jl. Margo Utomo@4.	0.00	0.00	21	21	0.10	0.10	0.00	0.00	
9	1	0-3600	1: Simpang Tugu Jogja - 6: Jl. sudirman@80.1 - 2: jl. diponegoro@11.3	0.00	0.00	115	115	0.97	0.97	0.00	0.00	
10	1	0-3600	1: Simpang Tugu Jogja - 6: Jl. sudirman@80.1 - 3: Jl. AM Sannai@15.2	0.00	0.00	71	71	0.79	0.79	0.00	0.00	

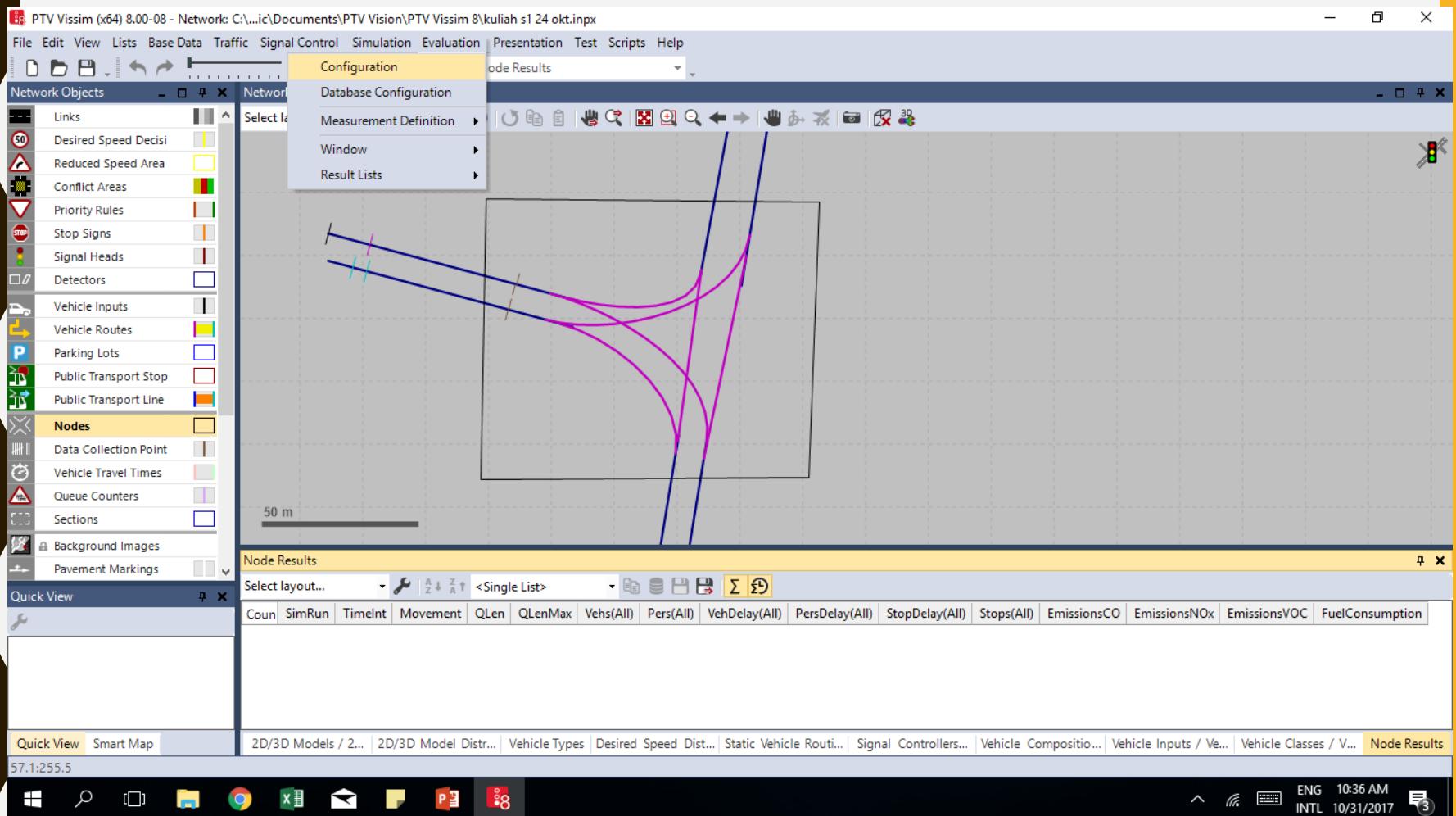
Simulation Parameter

- Digunakan untuk menentukan periode waktu survei



Evaluation Configuration

- Digunakan untuk menunjukkan hasil apa yang diinginkan
- Juga untuk menunjukkan interval waktu yang mau ditunjukkan setiap berapa detik sekali?



File Edit View Lists Base Data Traffic Signal Control Simulation

Network Objects Network Editor

Links Desired Speed Decisi Reduced Speed Area Conflict Areas Priority Rules Stop Signs Signal Heads Detectors Vehicle Inputs Vehicle Routes Parking Lots Public Transport Stop Public Transport Line Nodes Data Collection Point Vehicle Travel Times Queue Counters Sections Background Images Pavement Markings Quick View

Evaluation Configuration

Evaluation output directory: C:\Users\Public\Documents\PTV Vision\PTV Vissim 8\

Result Management Result Attributes Direct Output

Additionally collect data for these classes:

Vehicle Classes Pedestrian Classes

10: Car	10: Man, Woman
20: HGV	30: Wheelchair User
30: Bus	
40: Tram	
50: Pedestrian	
60: Bike	
70: sepeda motor	

	Collect data	From time	To time	Interval
Area measurements	<input type="checkbox"/>	0	99999	99999
Areas & ramps	<input type="checkbox"/>	0	99999	99999
Data collections	<input type="checkbox"/>	0	99999	99999
Delays	<input type="checkbox"/>	0	99999	99999
Links	<input type="checkbox"/>	0	99999	99999
Nodes	<input checked="" type="checkbox"/>	0	99999	60
OD pairs	<input type="checkbox"/>	0	99999	99999
Pedestrian network performance	<input type="checkbox"/>	0	99999	99999
Pedestrian travel times	<input type="checkbox"/>	0	99999	99999
Queue counters	<input type="checkbox"/>	0	99999	99999
Vehicle network performance	<input type="checkbox"/>	0	99999	99999
Vehicle travel times	<input type="checkbox"/>	0	99999	99999

OK Cancel

missionsCO EmissionsNOx EmissionsVOC FuelConsumption

Quick View Smart Map 2D/3D Models / 2... 2D/3D Model Distr... Vehicle types Desired Speed Dist... Static Vehicle Routi... Signal Controllers... Vehicle Compositio... Vehicle Inputs / Ve... Vehicle Classes / V... Node Results

37.9:247.7

Windows Taskbar: File Explorer, Microsoft Edge, Microsoft Word, Microsoft Excel, Microsoft Powerpoint, File Manager, Task View, Taskbar icons.

System tray: ENG 10:36 AM, INTL 10/31/2017, Battery icon, Network icon, Volume icon, Taskbar icons.

I. Data Collection (bedanya dengan node adalah kinerja bisa dilihat per lajur)

The screenshot illustrates the process of setting up and managing traffic data collection points in a traffic simulation software interface.

Network Objects Panel: On the left, the "Data Collection P" item is highlighted in yellow. A red circle highlights a specific location on the road network labeled "Jalan Diponegoro".

Data Collection Points Table: Below the Network Objects panel, the "Data Collection Points" table shows four entries:

Count:	No	Name	Lane	Pos
1	1	Barat in	1: jl. diponegoro - 1	96.489
2	2	Barat in	1: jl. diponegoro - 2	96.493
3	3	Barat out	2: jl. diponegoro - 1	35.089
4	4	Barat out	2: jl. diponegoro - 2	35.078

Contextual Menu: A context menu is open over the "Data Collection Measurements" table, showing options like "Data Collection Points" and "Data Collection Measurements".

Data Collection Measurements Table: This table lists two measurement points:

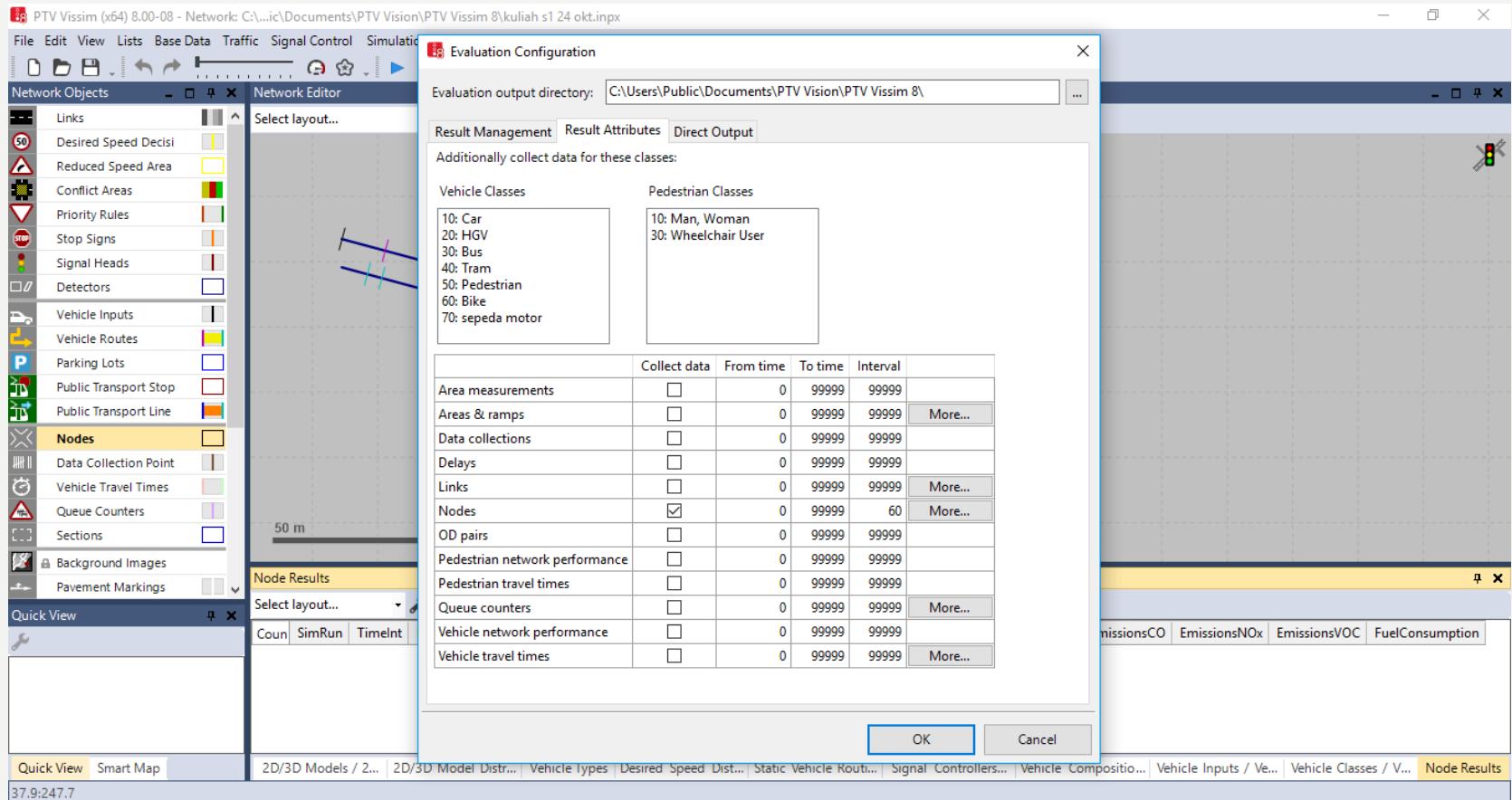
Count:	No	Name	DataCollectionPoints
1	1	Barat	1,2
2	2	Barat o	3,4

Data Collection Results Table: This table provides detailed results for the two measurement points:

Count:	SimRun	TimelInt	DataCollectionMeasurement	Acceleration(All)	Dist(All)	Length(All)	Vehs(All)	Pers(All)	QueueDelay(All)	Speed(All)
1	3	0-3600	1: Barat	0.02	97.66	2.37	244	244	0.00	44.88
2	3	0-3600	2: Barat out	0.01	175.80	2.70	184	184	0.00	43.67

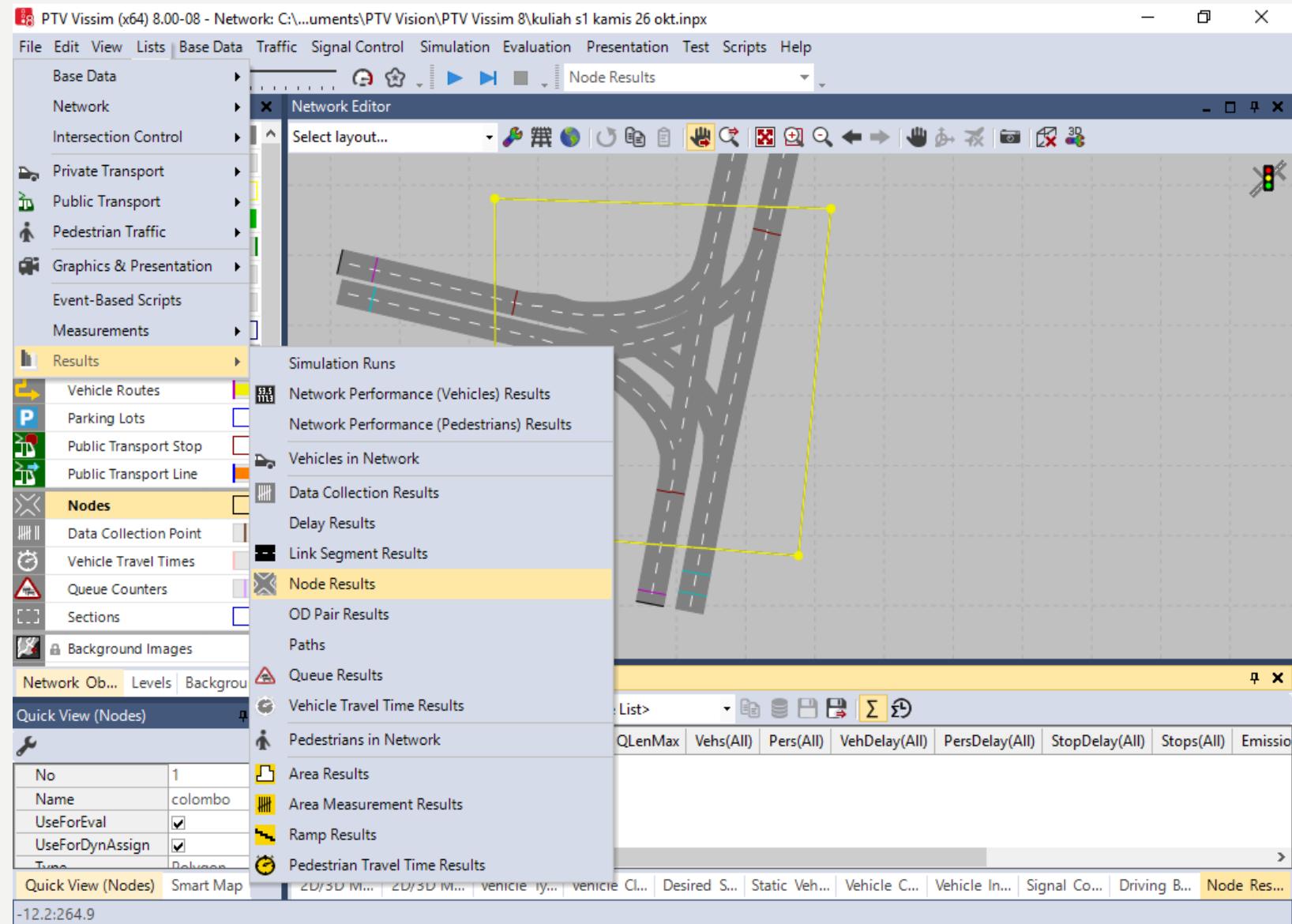
Evaluation Configuration

- Juga harus disetting dahulu.



Result

- List - Node result



Contoh dalam melakukan trial and error kalibrasi dan validasi

No.	Parameter	default	Trial							
			1	2	3	4	5	6	7	8
1	Desired position at free flow	Middle of lane	Any							
2	Overtake on same line	off	on							
3	Distance standing	I	I	0,I	0,I	0,2	0,2	0,2	0,2	0,2
4	Distance driving	I	I	0,I	0,3	0,3	0,4	0,4	0,4	0,4
5	Average standstill distance	2	2	2	I	0,8	0,7	0,4	0,6	0,55
6	Additive part of safety distance	2	2	2	I	0,8	0,8	0,5	0,6	0,55
7	Multiplicative part of safety distance	3	3	3	3	3	2	I	I	I
Nilai R ²		0,13	0,298	0,304	0,428	0,530	0,672	0,726	0,814	0,876

DRIVING BEHAVIOR

