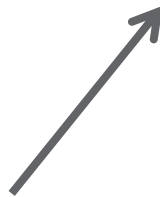


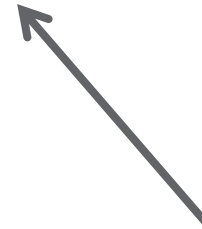
Vision Traffic Suite

INTRODUCTION OF PTV Vissim

PTV Vis sim



Traffic In Cities



Simulation
Model

PTV Vissim

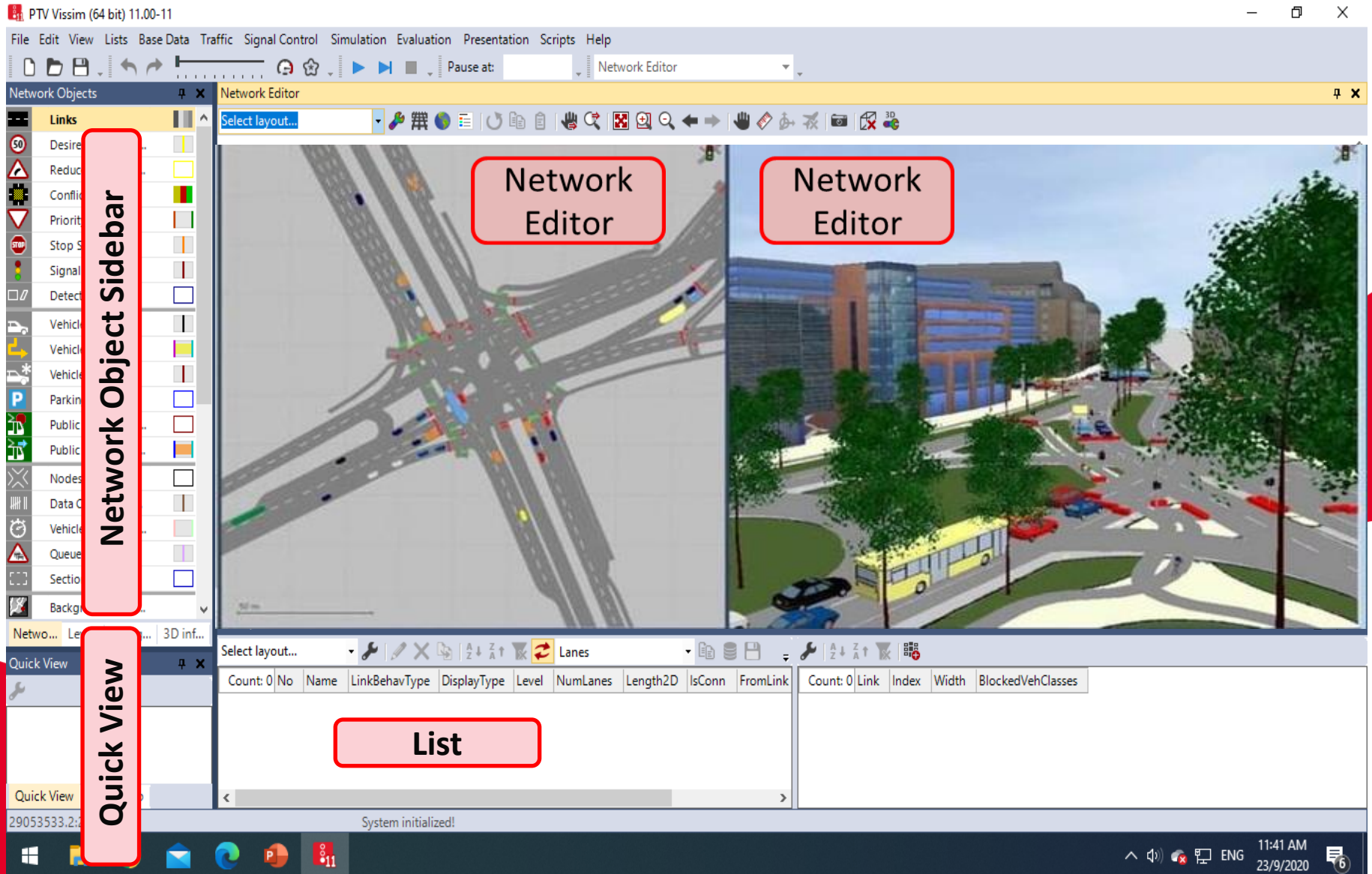
Traffic engineering tools

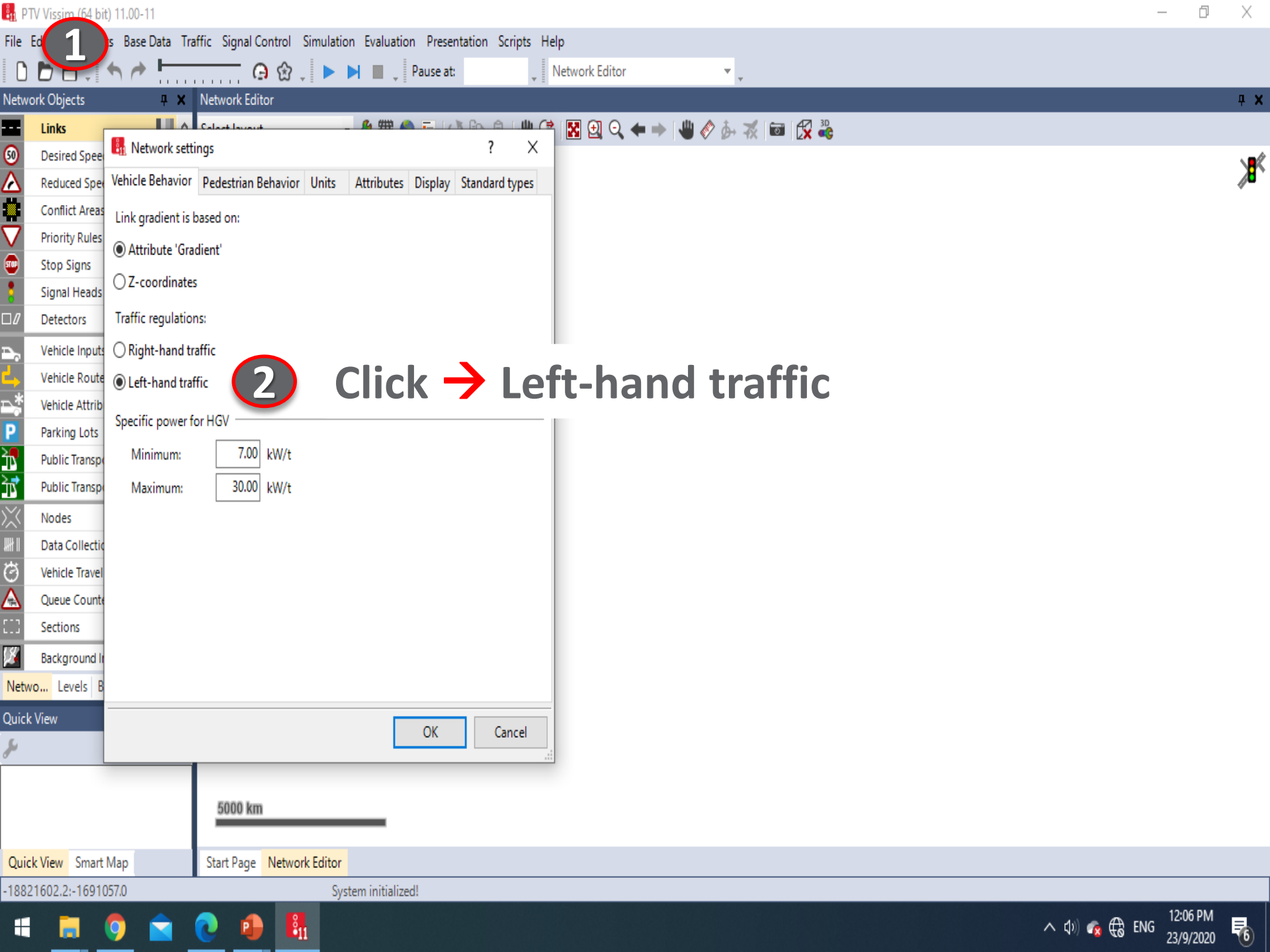
- Microscopic multi-modal traffic flow simulation
- Detailed representation of geometry and individual vehicle behaviour models
- Private vehicle, pedestrians and public transport interactions

OVERVIEW:

- > Graphical User Interface – GUI
- > Background files
- > Developing the model network
- > Traffic base data
- > Traffic volumes
- > Traffic speeds and routes

GRAPHICAL USER INTERFACE – GUI



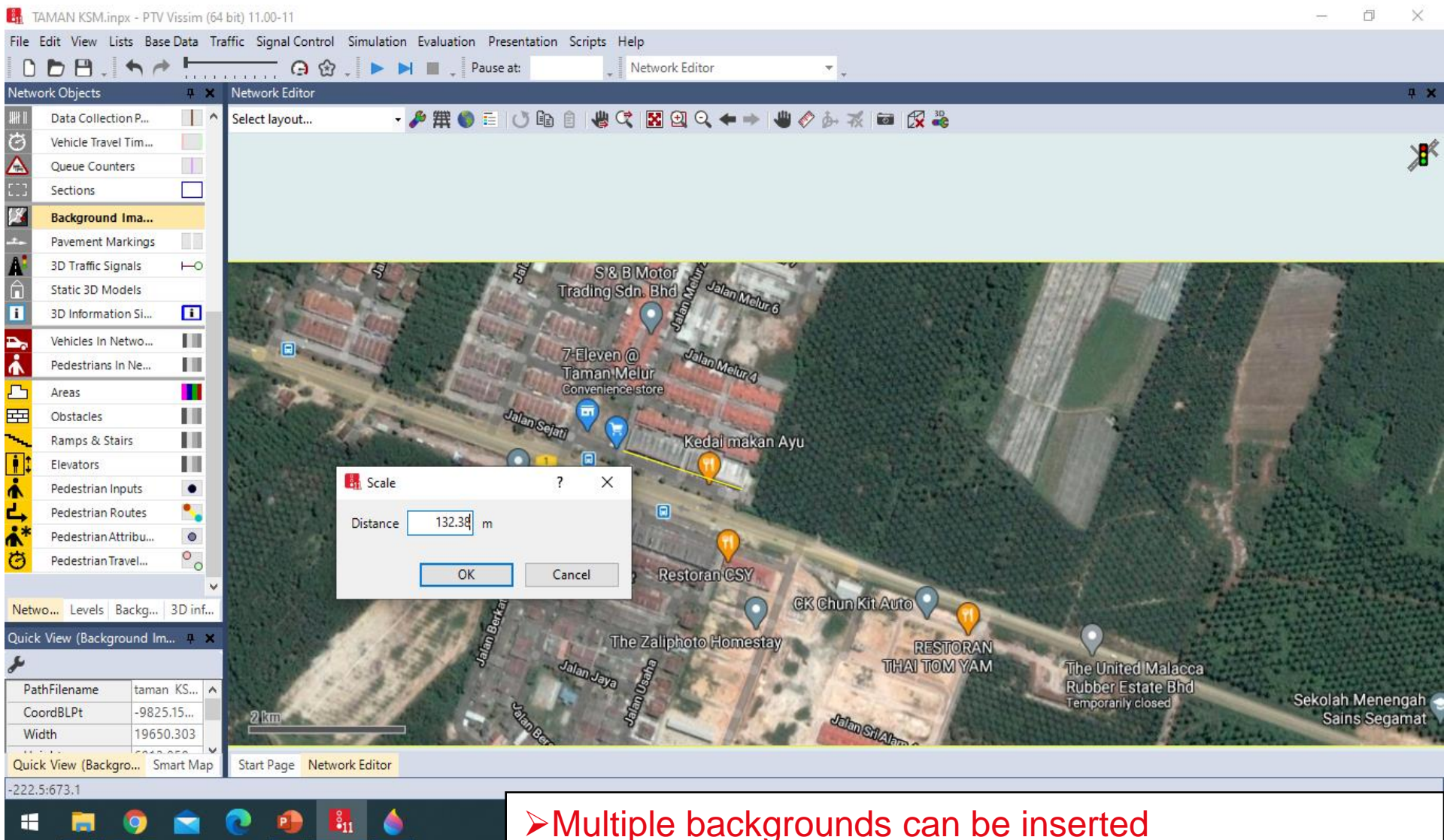


1

2

Click → Left-hand traffic

Begin Model Development – background file



- Multiple backgrounds can be inserted
- BMP, JPG, TIF, SHP & DXF formats are accepted

Add Links and Connectors

TAMAN KSM.inpx - PTV Vissim (64 bit) 11.00-11

File Edit View Lists Base Data Traffic Signal Control Simulation Evaluation Presentation Scripts Help

Network Objects Network Editor

Select layout...

Links

- Desired Speed De...
- Reduced Speed A...
- Conflict Areas
- Priority Rules
- Stop Signs
- Signal Heads
- Detectors
- Vehicle Inputs
- Vehicle Routes
- Vehicle Attribute...
- Parking Lots
- Public Transport S...
- Public Transport L...

Nodes

Link: 1

Link

No.: 1 Name:

Num. of lanes: 2 Link behavior type: 1: Urban (motorized)

Link length: 129.308 m Display type: 1: Road gray

Level: 1: Base

Lanes	Pedestrian Area	Display	Others
Count: 2	Index	Width	BlockedVe...
1	1	3.50	
2	2	3.50	

Count: 2 Index Width BlockedVe... DisplayType NoLnChL... NoLnChR... NoLnChLV... NoLnChR...

1 1 3.50

2 2 3.50

Convenience store

Jalan Sejati

Bhd

dai Kopi Suan

2:19 PM 23/9/2020

Add Links and Connectors

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File Edit View Lists Base Data Traffic Signal Control Simulation Evaluation Presentation Scripts Help

Pause at: Links / Lanes

Network Objects Network Editor

Select layout...

Links

- Desired Speed De...
- Reduced Speed A...
- Conflict Areas
- Priority Rules
- Stop Signs
- Signal Heads
- Detectors
- Vehicle Inputs
- Vehicle Routes
- Vehicle Attribute...
- Parking Lots
- Public Transport S...
- Public Transport L...
- Nodes
- Data Collection P...
- Vehicle Travel Tim...
- Queue Counters
- Sections
- Background Imag...

50 m

Start Page Network Editor

Links / Lanes

Select layout...

Lanes

Count	No	Name	LinkBehavType	DisplayType	Level	NumLanes	Length2D	IsConn	FromLi
1	1		1: Urban (mot...	1: Road gray	1: Ba...	2	129.308		
2	2		1: Urban (mot...	1: Road gray	1: B...	2	130.894		
3	3		1: Urban (mot...	1: Road gray	1: Ba...	1	37.345		
4	4		1: Urban (mot...	1: Road gray	1: Ba...	1	38.185		
5	5		1: Urban (mot...	1: Road gray	1: Ba...	1	41.601		

Count	Link	Index	Width	BlockedVehClasses
1	2	1	3.50	
2	2	2	3.50	

Quick View (Lanes)

Link	Index	Width
2	2	3.50

Quick View (Lanes) Smart Map

-9132.1;-23592

Width 3.50

Quick View (Lanes) Smart Map

-9132.1;-23592

2:29 PM 23/9/2020

Desired Speed

TAMAN KSM.inpx - PTV Vissim (64 bit) 11.00-11

File Edit View Lists Base Data Traffic Signal Control Simulation Evaluation Presentation Scripts Help

Network Objects Network Editor

Select layout...

Links

- Desired Speed D...
- Reduced Speed A...
- Conflict Areas
- Priority Rules
- Stop Signs
- Signal Heads
- Detectors
- Vehicle Inputs
- Vehicle Routes
- Vehicle Attribute...
- Parking Lots
- Public Transport S...
- Public Transport L...
- Nodes
- Data Collection P...
- Vehicle Travel Tim...
- Queue Counters
- Sections
- Background Imag...

Netwo... Levels Backg... 3D inf...

Quick View (Desired Speed... Smart Map

-9072.0:-23044

Jalan Sejati

Bhd

Kedai Kopi Suan

Desired Speed Decision: 6

Desired Speed Decision

No.: Name:

Link - lane: 3 - 1

At: 3,274 m Time: From: 0 s until 99999 s

☒ Show label

Count	1	VehClass	DesSpeedDistr
1	10: Car	100: 100 km/h	

OK Cancel

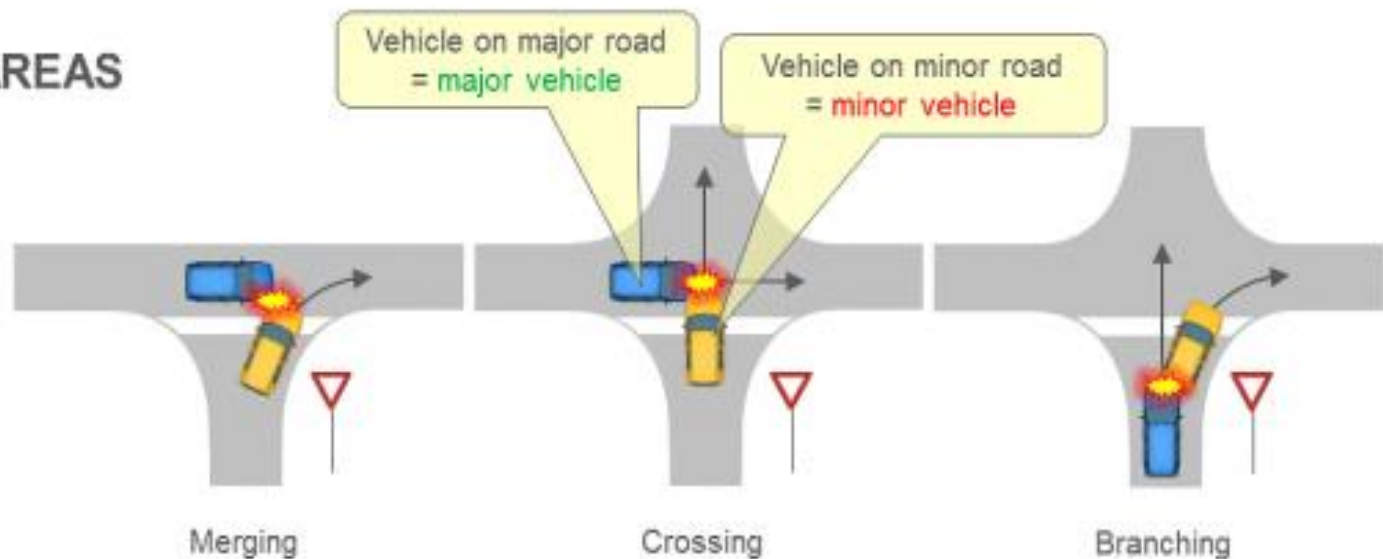
2:36 PM 23/9/2020

Conflict Area

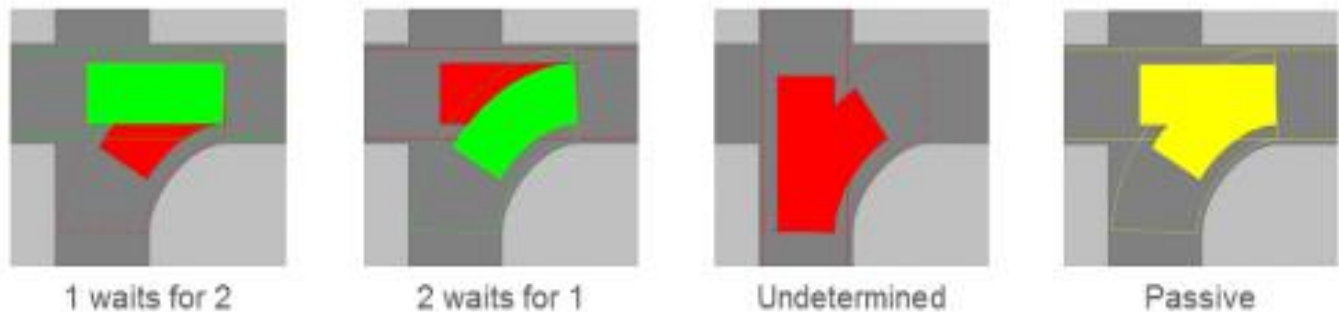
- Conflict areas are the preferred method to model unsignalized right of way.

CONFLICT AREAS

Conflict situations



4 states



Conflict Area

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File Edit View Lists Base Data Traffic Signal Control Simulation Evaluation Presentation Scripts Help

Network Objects Network Editor

Select layout...

Links

- Desired Speed De...
- Reduced Speed A...
- Conflict Areas**
- Priority Rules
- Stop Signs
- Signal Heads
- Detectors
- Vehicle Inputs
- Vehicle Routes
- Vehicle Attribute...
- Parking Lots
- Public Transport S...
- Public Transport L...
- Nodes
- Data Collection P...
- Vehicle Travel Tim...
- Queue Counters
- Sections
- Background Imag...

Netwo... Levels Backg... 3D inf...

Quick View Smart Map

Conflict Areas

Select layout... <Single List>

Count	Link1	VisibLink1	Link2	VisibLink2	Status	FrontGapDef	RearGapDef	MinGapBlockDef	SafDistFactDef	AddStopDist	ObsAdjLns	AnticipRout	AvoidBlockMinor
8	10001	100.0	10005	100.0	2 wait...	0.5	0.5	3.0	1.5	0.0	<input type="checkbox"/>	0.0 %	100.0 %
9	10002	100.0	10005	100.0	1 wait...	0.5	0.5	3.0	1.5	0.0	<input type="checkbox"/>	0.0 %	100.0 %
10	10003	100.0	10005	100.0	2 wait...	0.5	0.5	3.0	1.5	0.0	<input type="checkbox"/>	0.0 %	100.0 %

-9202.0:-22842

Start Page Network Editor

20 m

Jalan Sejati

Leat Sdn Bhd

ENG 3:00 PM 23/9/2020

Vehicle input

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File Edit View Lists Base Data Traffic Signal Control Simulation Evaluation Presentation Scripts Help

Network Objects

- Links
- Desired Speed De...
- Reduced Speed A...
- Conflict Areas
- Priority Rules
- Stop Signs
- Signal Heads
- Detectors
- Vehicle Inputs**
- Vehicle Routes
- Vehicle Attribute...
- Parking Lots
- Public Transport S...
- Public Transport L...
- Nodes
- Data Collection P...
- Vehicle Travel Tim...
- Queue Counters
- Sections
- Background Imag...

Network Editor

Select layout...

Convenience store

Jalan Sejati

Kedai makan Ayu

Bina Mekar Sdn. Bhd

Kedai Kopi Suan

50 m

Start Page Network Editor

Vehicle Inputs / Vehicle Volumes By Time Interval

Select layout...

Vehicle volumes by tir

Count: 4	No	Name	Link	Volume(0)	VehComp(0)
1	1		9	500.0	1: Default
2	2		3	20.0	1: Default
3	3		8	500.0	1: Default
4	4		5	20.0	1: Default

Count: 0	Cont	TimeInt	Volume	VehComp	VolType
----------	------	---------	--------	---------	---------

Vehicle Volumes and Composition

Quick View Smart Map

-9073.6:-22648

3:26 PM 23/9/2020

Vehicle Route

TAMAN KSM.inpx - PTV Vissim (64 bit) 11.00-11

File Edit View Lists Base Data Traffic Signal Control Simulation Evaluation Presentation Scripts Help

Network Objects Network Editor

Select layout...

Convenience store
Jalan Sejati
Kedai makan Ayu
Bina Mekar Sdn. Bhd
Kedai Kopi Suan

100 m

Start Page Network Editor

Static Vehicle Routing Decisions / Static Vehicle Routes

Select layout...

Static vehicle route

Count	No	Name	Link	Pos	AllVehTypes	VehClasses	RouteChoiceMeth
1	1		1	11.806	<input checked="" type="checkbox"/>		Static
2	2		3	6.481	<input checked="" type="checkbox"/>		Static
3	3		5	5.419	<input checked="" type="checkbox"/>		Static
4	4		8	14.530	<input checked="" type="checkbox"/>		Static

Count	VehRouteDec	No	Name	Formula	DestLink	DestPos	RelFlow(0)
1	4	1			6	21.618	1.000
2	4	2			2	122.174	1.000

Route Decisions and Choice

Vehicle Inputs / Vehicle Volumes By Time Interval Static Vehicle Routing Decisions / Static Vehicle Routes

Quick View (Static Vehicle Routes) Smart Map

9035.1:-2387.9

3:40 PM 23/9/2020



PTV GROUP

the mind of movement