

The FLOW Congestion Assessment Microscopic modelling

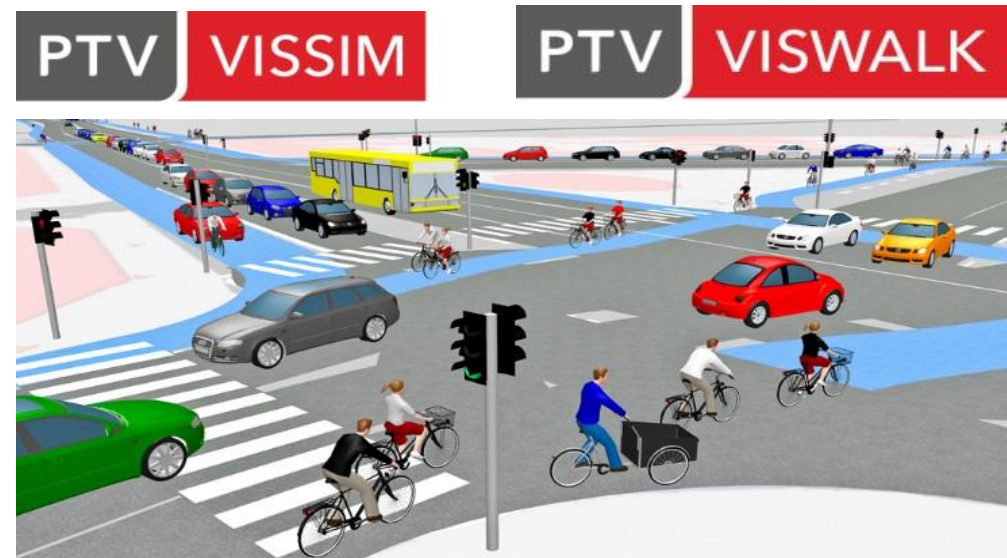


FLOW Webinar 17th
May 2017

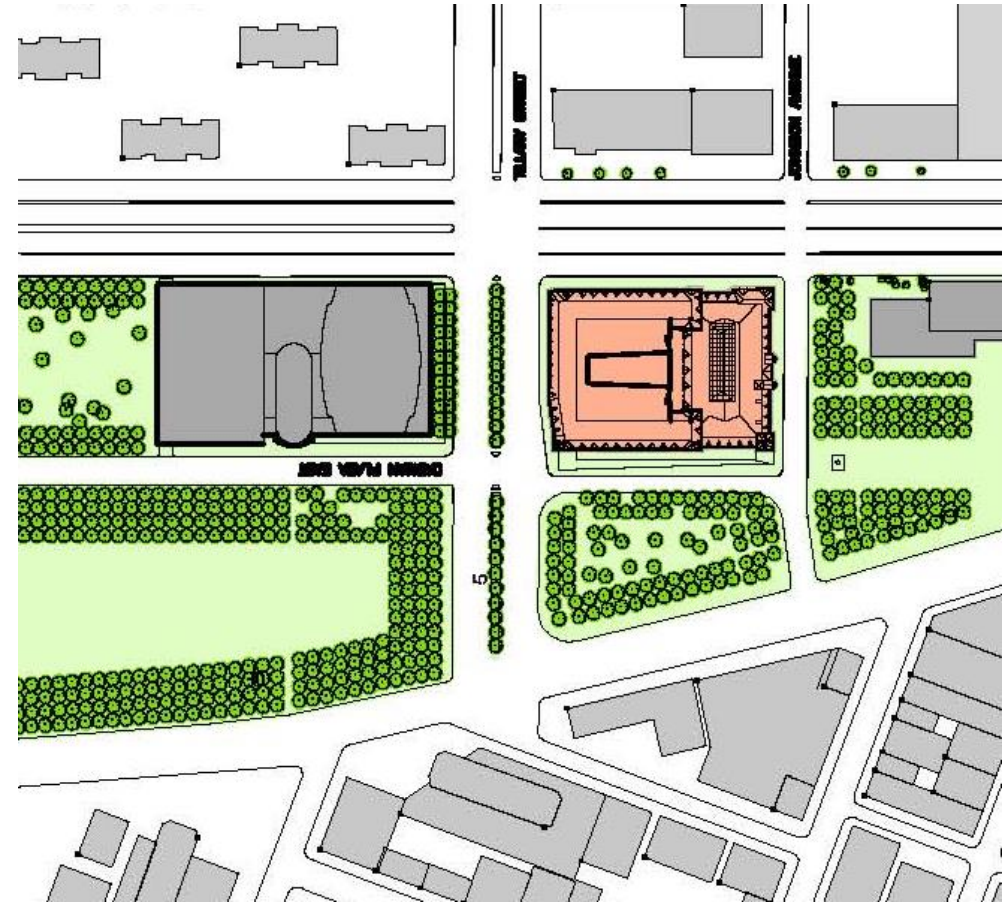
Dipl.-Ing (FH) Eugen Hilbertz

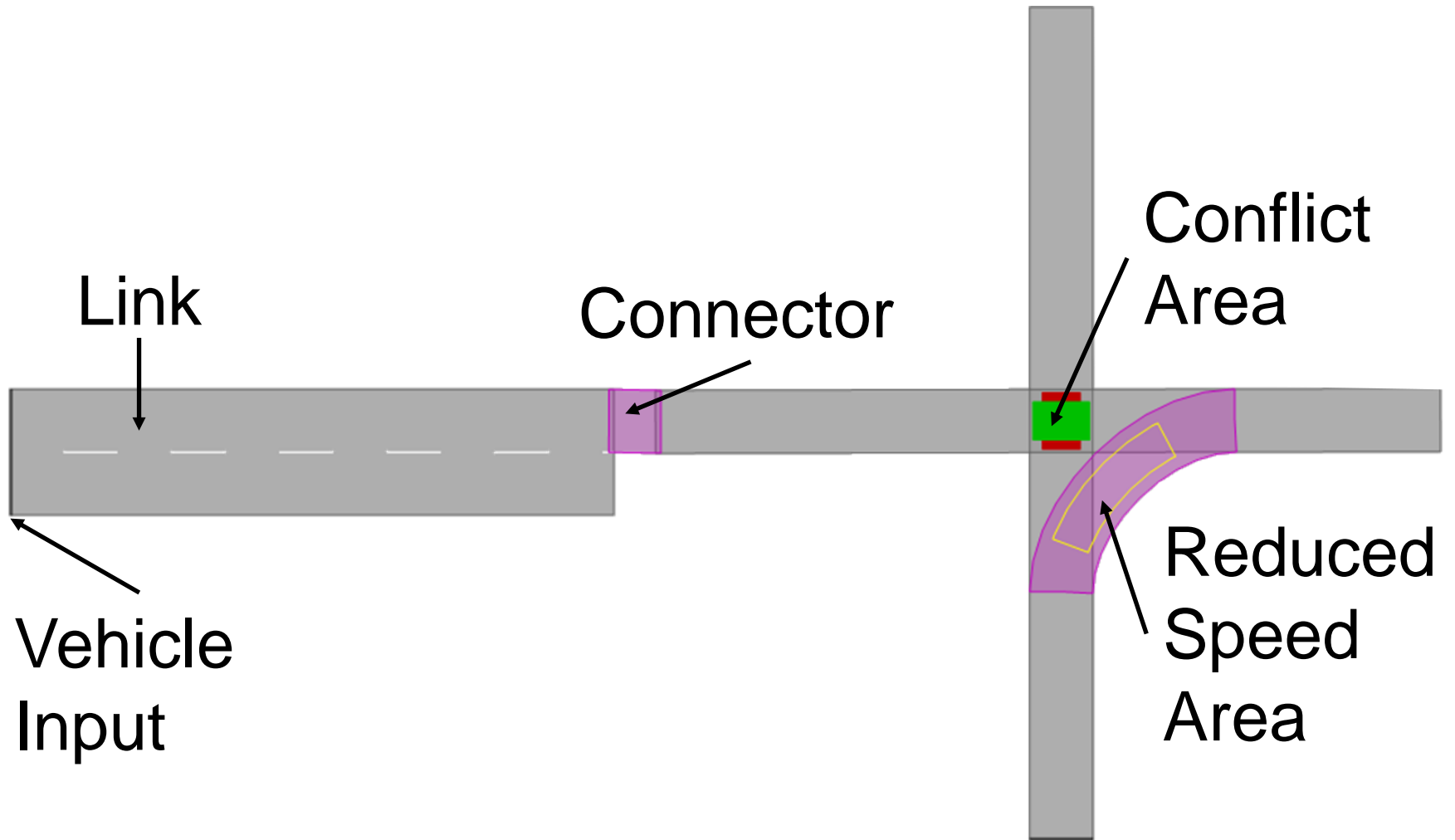
Active modes in microscopic modelling

1. Enhanced modelling of conflict zones between cars and pedestrians
2. Behaviour parameters, new mobility patterns
3. Interaction of bikes and pedestrians
4. Shared space



- Orthophotos or Site plans
- Vehicle observations for
- Videos for analysing
 - Driving behaviour
 - Walking behaviour
- National / international databases
- Scientific studies and research projects





Microscopic Modelling – Basics

PTV Vissim (x64) 9.00-06 - Network: G:\Flow_Workshop_2017-04-27\Vissim_9\Shared Space.inpx

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

Static Vehicle Routing Decisions

Network Objects

- Signal Heads
- Detectors
- Vehicle Inputs
- Vehicle Routes
- Parking Lots
- Public Transport Sto
- Public Transport Lin
- Nodes
- Data Collection Poin
- Vehicle Travel Times
- Queue Counters
- Sections
- Background Images
- Pavement Markings
- 3D Traffic Signals
- Static 3D Models
- Vehicles In Network
- Pedestrians In Netw
- Areas
- Obstacles
- Ramps & Stairs
- Elevators
- Pedestrian Inputs
- Pedestrian Routes (
- Pedestrian Travel Ti

Network Editor

Select layout...

Pedestrian Input

Pedestrian link

Connector

Vehicle Route

LINK

20 m

Static Vehicle Routing Decisions / Static Vehicle Routes

Select layout...

Count	No	Name	Link	Pos	AllVehTypes	Name	VehClasses
1	1	Vehicle 3	6,159		<input checked="" type="checkbox"/>	Vehicle Route	
2	2	Vehicle 2	4,322		<input checked="" type="checkbox"/>	Vehicle Route	

Count	VehRoutDec	No	Name	DestLink	DestPos	Name	RelFlow(0)
1	2	Vehicle Ro	1	Vehicle 2	339,884	Vehicle Route	1,000

Quick View (Static Vehicle Routes) Smart Map

-17.6:20.7

Achievements in FLOW

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Network Objects Network Editor

Select layout... Select Camera Position 100%

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Links

- Desired Speed Decis
- Reduced Speed Are
- Conflict Areas
- Priority Rules
- Stop Signs
- Signal Heads
- Detectors
- Vehicle Inputs
- Vehicle Routes
- Parking Lots
- Public Transport Sto
- Public Transport Lin
- Nodes
- Data Collection Poin
- Vehicle Travel Times
- Queue Counters
- Sections
- Background Images
- Pavement Markings
- 3D Traffic Signals
- Static 3D Models
- Vehicles In Network
- Pedestrians In Netw
- Areas

Network O... Levels Backgrounds

Quick View Smart Map

Conflict Areas

Select layout... <Single List>

Coun	Link	VisibLink1	Link2	VisibLink2	Status	FrontGapDef	RearGapDef	MesoCritGap	SafDistFactDef	AddStopDist	ObsAdjLns	AnticipRout	AvoidBlockMajor	AvoidBlockMinor
1	1	100,0	5	100,0	1 waits for 2	0,5	2,0	3,5	1,5	0,0	<input type="checkbox"/>	0,0 %	<input checked="" type="checkbox"/>	100,0 %
2	1	100,0	6	100,0	1 waits for 2	0,5	2,0	3,5	1,5	0,0	<input type="checkbox"/>	0,0 %	<input checked="" type="checkbox"/>	100,0 %
3	5	100,0	2	100,0	2 waits for 1	0,5	2,0	3,5	1,5	0,0	<input type="checkbox"/>	0,0 %	<input checked="" type="checkbox"/>	100,0 %
4	6	100,0	2	100,0	2 waits for 1	0,5	2,0	3,5	1,5	0,0	<input type="checkbox"/>	0,0 %	<input checked="" type="checkbox"/>	100,0 %

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Achievements in FLOW

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Network Objects Network Editor

Select layout... Select Camera Position 100%

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Network O... Levels Backgrounds

Quick View (Conflict Areas) Smart Map

Coun	Link1	VisibLink1	Link2	VisibLink2	Status	FrontGapDef	RearGapDef	MesoCritGap	SafDistFactDef	AddStopDist	ObsAdjLns	AnticipRout	AvoidBlockMajor	AvoidBlockMinor
1	100,0	5	100,0	100,0	1 waits for 2	0,5	2,0	3,5	1,5	0,0	<input type="checkbox"/>	0,0 %	<input type="checkbox"/>	100,0 %
2	100,0	6	100,0	100,0	1 waits for 2	0,5	2,0	3,5	1,5	0,0	<input type="checkbox"/>	0,0 %	<input type="checkbox"/>	100,0 %
3	100,0	2	100,0	100,0	2 waits for 1	0,5	2,0	3,5	1,5	0,0	<input type="checkbox"/>	0,0 %	<input type="checkbox"/>	100,0 %
4	100,0	2	100,0	100,0	2 waits for 1	0,5	2,0	3,5	1,5	0,0	<input type="checkbox"/>	0,0 %	<input type="checkbox"/>	100,0 %

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Thank you! Danke! Köszönöm! Obrigado!
Dziękuję! благодаря! Go raibh maith agat!

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