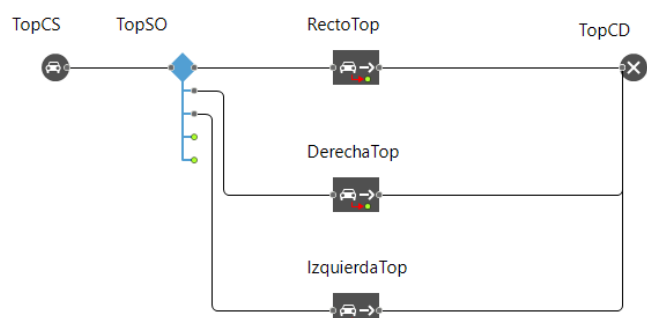
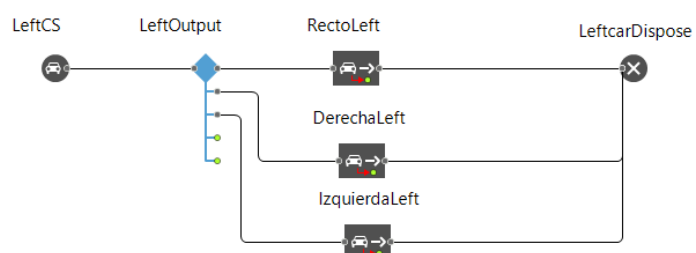
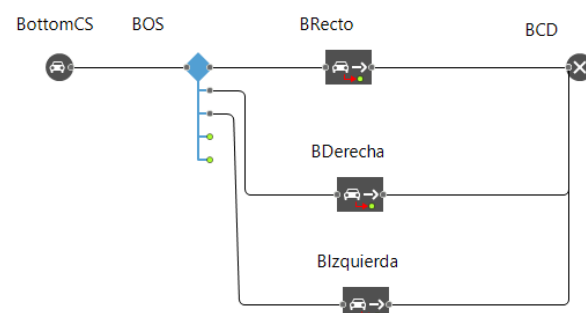
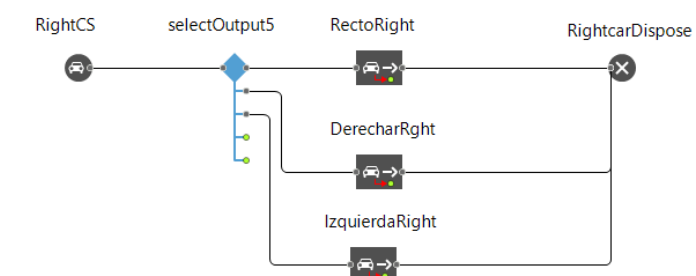
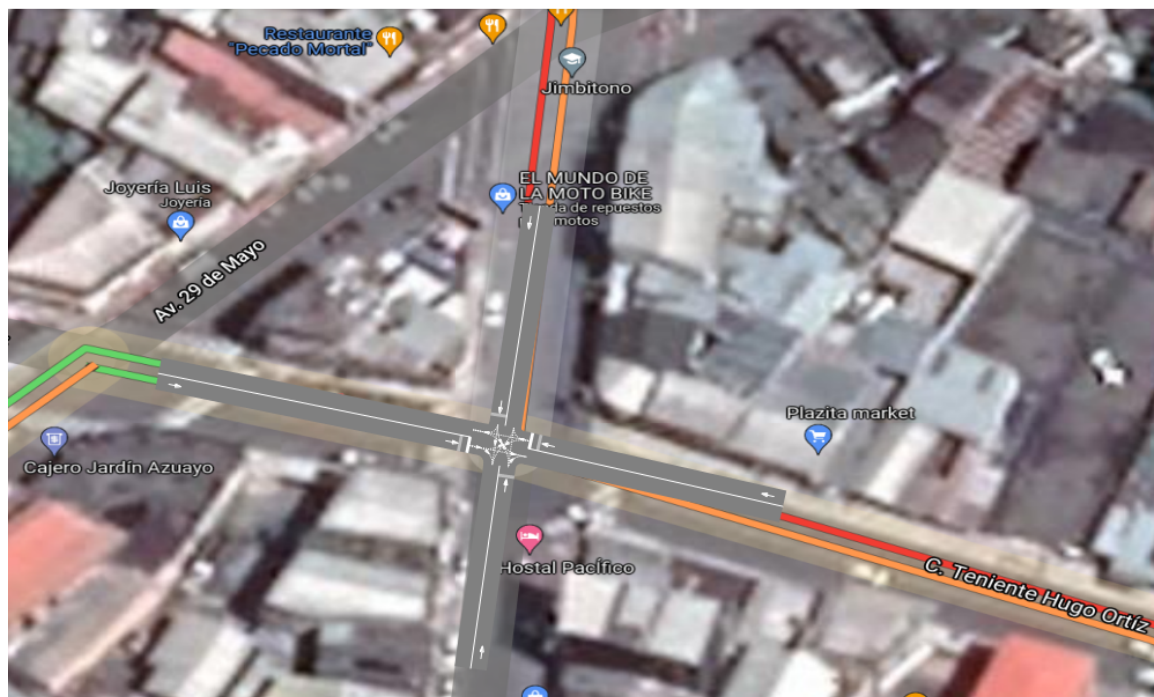


Model: MacasModel

Name	Value
General	
Model time units	hours
System Dynamics solver	
Differentiation Equations Method	Euler
Algebraic Equations Method	Modified Newton
Mixed Equations Method	RK45+Newton
Absolute accuracy	1.0E-5
Time accuracy	1.0E-5
Relative accuracy	1.0E-5
Fixed time step	0.001
Advanced	
Java package name	macasmodel
File Name	C:\Users\Alex Reinoso\Models\MacasModel\MacasModel.alp

Agent Type: Main

Name	Value
Agent in flowcharts	
Use in flowcharts as	Agent
Dimensions and movement	
Speed	(10 : MPS)
Rotate animation towards movement	true
Rotate vertically as well (along Z-axis)	false
Space and network	
Space Type	Continuous
Advanced Java	
Generic	false
Advanced	
Logging	true
Auto-create datasets	true
AOC_DATASETS_UPDATE_TIME_PROPERTIES	- Recurring Event Properties
Limit the number of data samples	false



Scale: scale

Name	Value
General	
Unit	meters
Scale	25.0
Type	Defined graphically
Length, pixels	100.0
Show at runtime	false
Lock	false
Public	false
Position and size	
x	0.0
y	-150.0
Rotation	0.0

CarSource: RightCS

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Arrivals defined by	self.RATE
Arrival rate	23
Set agent parameters from DB	false
Limited number of arrivals	false
Appears	self.ON_ROAD
Road	CHUGO2
Enters	self.FORWARD_LANE
Random lane	true
New car	new Agent()
Length	5
Initial speed	60
Preferred speed	60
Max acceleration	1.8
Max deceleration	4.2
Add cars to:	false

CarDispose: RightcarDispose

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

CarMoveTo: RectoRight

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	Chugo1
Destination	self.END_OF_BACKWARD_LANE

CarMoveTo: DerecharRight

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	

Name	Value
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	Amazonas1
Destination	self.END_OF_BACKWARD_LANE

CarMoveTo: IzquierdaRight

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	Amazonas2
Destination	self.END_OF_BACKWARD_LANE

SelectOutput5: selectOutput5

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
------	-------

Agent Parameters:

Name	Value
Use:	self.TYPE_PROBABILITIES
Probability 1	0.50
Probability 2	0.25
Probability 3	0.25
Probability 4	0
Probability 5	0

CarSource: LeftCS

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Arrivals defined by	self.RATE
Arrival rate	1000
Set agent parameters from DB	false
Limited number of arrivals	false
Appears	self.ON_ROAD
Road	Chugo1
Enters	self.FORWARD_LANE
Random lane	true
New car	new Agent()
Length	5
Initial speed	60
Preferred speed	60
Max acceleration	1.8
Max deceleration	4.2
Add cars to:	false

CarDispose: LeftcarDispose

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false

Name	Value
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

CarMoveTo: RectoLeft

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	CHUGO2
Destination	self.END_OF_BACKWARD_LANE

CarMoveTo: DerechaLeft

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
------	-------

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	Amazonas2
Destination	self.END_OF_BACKWARD_LANE

CarMoveTo: IzquierdaLeft

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	Amazonas1
Destination	self.END_OF_BACKWARD_LANE

SelectOutput5: LeftOutput

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Use:	self.TYPE_PROBABILITIES
Probability 1	0.5
Probability 2	0.25
Probability 3	0.25

Agent Parameters:

Name	Value
Probability 4	0
Probability 5	0

CarSource: TopCS

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Arrivals defined by	self.RATE
Arrival rate	1000
Set agent parameters from DB	false
Limited number of arrivals	false
Appears	self.ON_ROAD
Road	Amazonas1
Enters	self.FORWARD_LANE
Random lane	true
New car	new Agent()
Length	5
Initial speed	60
Preferred speed	60
Max acceleration	1.8
Max deceleration	4.2
Add cars to:	false

CarMoveTo: RectoTop

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location

Name	Value
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	Amazonas2
Destination	self.END_OF_BACKWARD_LANE

CarMoveTo: DerechaTop

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	Chugo1
Destination	self.END_OF_BACKWARD_LANE

CarMoveTo: IzquierdaTop

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	CHUGO2
Destination	self.END_OF_BACKWARD_LANE

CarDispose: TopCD

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

SelectOutput5: TopSO

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Use:	self.TYPE_PROBABILITIES
Probability 1	0.25
Probability 2	0.50
Probability 3	0.25
Probability 4	0
Probability 5	0

CarSource: BottomCS

Name	Value
------	-------

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Arrivals defined by	self.RATE
Arrival rate	1000
Set agent parameters from DB	false
Limited number of arrivals	false
Appears	self.ON_ROAD
Road	Amazonas2
Enters	self.FORWARD_LANE
Random lane	true
New car	new Agent()
Length	5
Initial speed	60
Preferred speed	60
Max acceleration	1.8
Max deceleration	4.2
Add cars to:	false

CarMoveTo: BRecto

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
------	-------

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	Amazonas1
Destination	self.END_OF_BACKWARD_LANE

CarMoveTo: BDerecha

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	CHUGO2
Destination	self.END_OF_BACKWARD_LANE

CarMoveTo: Blzquierda

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Moves to	self.ROAD
Road	Chugo1
Destination	self.END_OF_BACKWARD_LANE

CarDispose: BCD

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

SelectOutput5: BOS

Name	Value
General	
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Population of agents	false
Generic Parameters Substitutes	[Generic Parameter Substitute:]
Show name	true
Initial location	
Place agent(s)	at the agent animation location
Advanced	
Show at runtime	true
Public	false
Logging	true

Agent Parameters:

Name	Value
Use:	self.TYPE_PROBABILITIES
Probability 1	0.50
Probability 2	0.25
Probability 3	0.25
Probability 4	0
Probability 5	0

Image: image

Name	Value
General	
Show at runtime	true
Lock	true
Embedded icon	false
Public	true

Name	Value
Position and size	
x	0.0
Width	1000.0
y	0.0
Height	600.0
z	0.0
Rotation	0.0
Advanced	
Show in	2D and 3D
Show name	false

Simulation Experiment: Simulation

Name	Value
General	
Bypass Initial Simulation Screen	true
Maximum available memory	512
Agent type	Main
Model time	
Execution mode	Real time with scale
Real time scale	1.0
Stop option	Never
Initial time	0.0
Initial date	Wed Oct 27 00:00:00 GMT 2021
Randomness	
Random Number Generation Type	Fixed seed (reproducible simulation runs)
Seed value	1
Window	
Title	MacasModel : Simulation
Enable zoom and panning	true
Enable developer panel	true
Show developer panel on start	false
Advanced	
Load root from snapshot	false

MacasModel

Text: text

Name	Value
General	
Show at runtime	true
Lock	false
Text	
Text	MacasModel
Appearance	
Color	royalBlue

Name	Value
Alignment	LEFT
Position and size	
x	50.0
y	30.0
z	0.0
Rotation	0.0
Advanced	
Show name	false