

Manuel Node, Edge and Route assignment

1) node file | my_nod.nod.xml

```
<nodes>
<node id="n1" x = "-500" y="0" type="priority"/>
<node id="n2" x = "-250" y="0" type="traffic_light"/>
<node id="n3" x = "-150" y="200" type="traffic_light"/>
<node id="n4" x = "0" y="0"/>
<node id="n5" x = "150" y="200" />
</nodes>
```

2) Edge file | my_edge.edg.xml

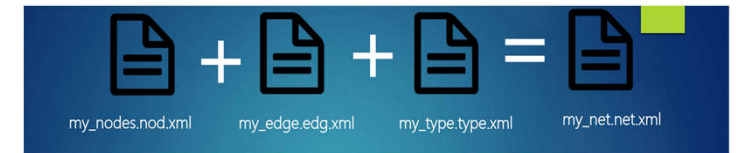
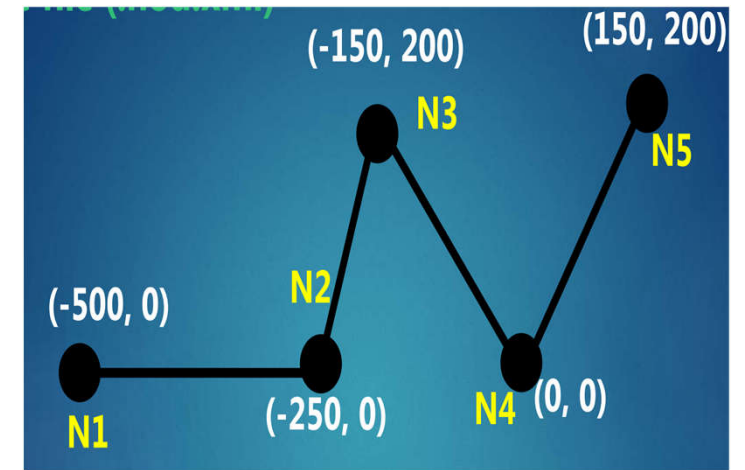
```
<edges>
<edge from="n1" to="n2" id="1to2" type="3L45"/>
<edge from="n2" to="n3" id="2to3" type="2L15"/>
<edge from="n3" to="n4" id="3to4" type="3L30"/>
<edge from="n4" to="n5" id="out" type="3L30"/>
</edges>
```

3) Type file | my_type.type.xml

```
<types>
<type id="3L45" priority="3" numLanes="3" speed="45"/>
<type id="2L15" priority="3" numLanes="2" speed="15"/>
<type id="3L30" priority="2" numLanes="3" speed="30"/>
</types>
```

4) netconvert

```
netconvert --node-files my_nodes.nod.xml --edge-
files my_edge.edg.xml -t my_type.type.xml -o
my_net.net.xml
```



5) Route file | my_route.rou.xml

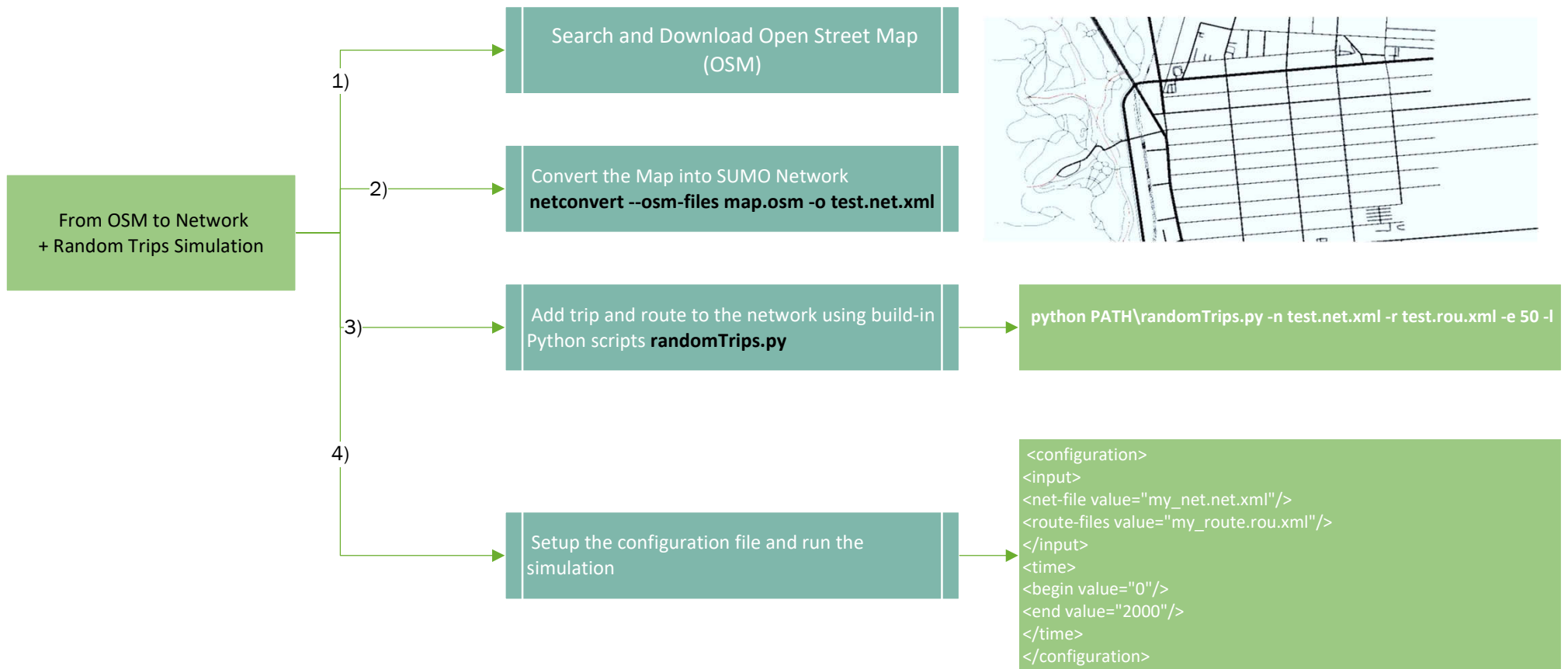
```
<routes>
<vType accel="1.0" decel="5.0" id="Car" length="2.0"
maxSpeed="100.0" sigma="0.0" />
<vType accel="1.0" decel="5.0" id="Bus" length="12.0"
maxSpeed="1.0" sigma="0.0" />
<route id="route0" edges="1to2 2to3"/>
<vehicle depart="10" id="veh0" route="route0" type="Bus" />
<route id="route1" edges="2to3 3to4"/>
<vehicle depart="10" id="veh1" route="route1" type="Car" />
<route id="route2" edges="3to4 out"/>
<vehicle depart="30" id="veh2" route="route2" type="Car" />
</routes>
```

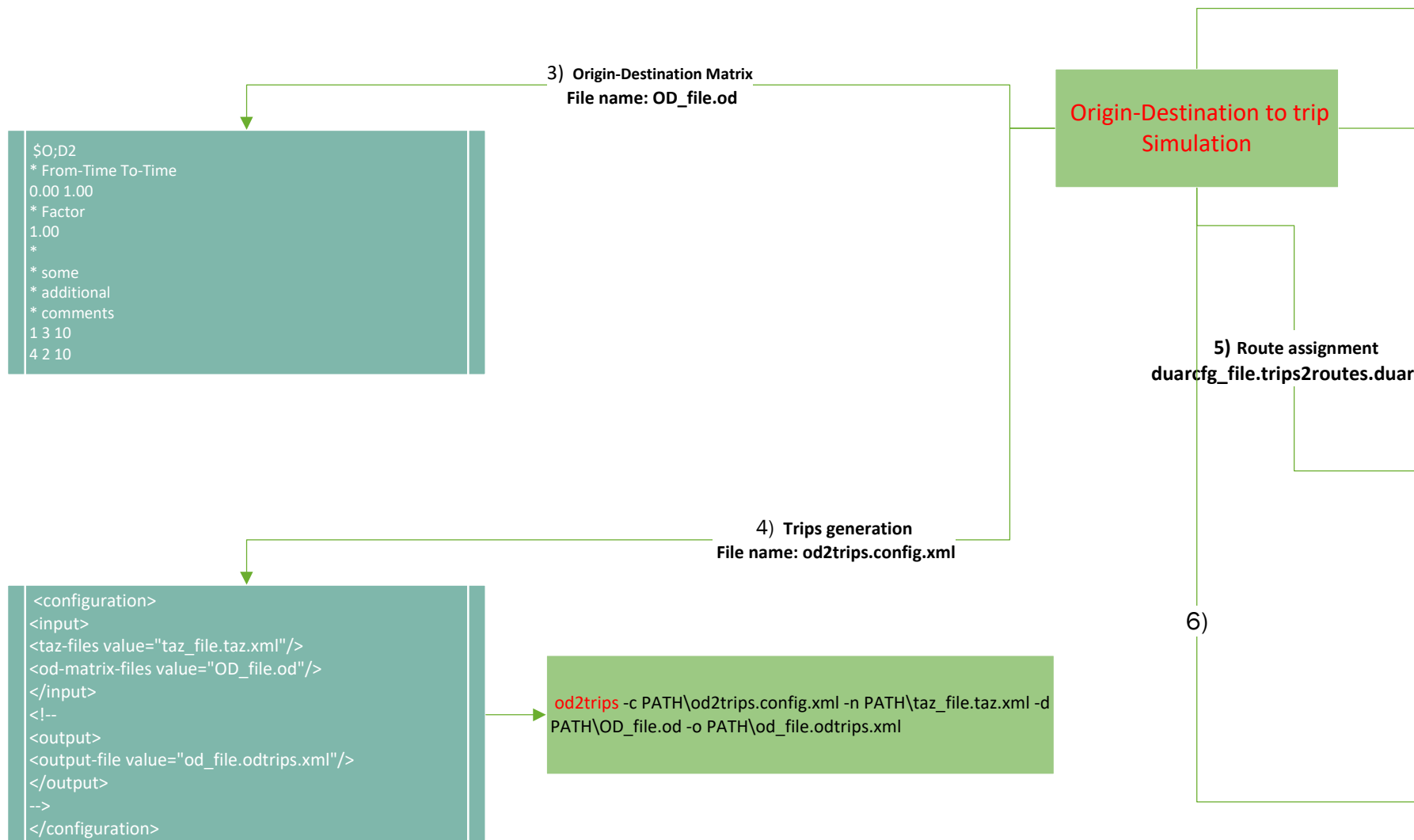
6) Sumo Configuration file | my_config_file.sumocfg

```
<configuration>
<input>
<net-file value="my_net.net.xml"/>
<route-files value="my_route.rou.xml"/>
</input>
<time>
<begin value="0"/>
<end value="2000"/>
</time>
</configuration>
```

sumo -c my_config_file.sumocfg
Or
sumo-gui -c my_config_file.sumocfg







1)

Make/have the **network file** ready (.net.xml)

trip

2) Traffic Assignment Zone (TAZ) definition
File name: TAZ_file.taz.xml

```
<tazs>
<taz id="1" edges="put_your_taz_edge_id_here">
</taz>
<taz id="2" edges="put_your_taz_edge_id_here">
</taz>
<taz id="3" edges="put_your_taz_edge_id_here">
</taz>
<taz id="4" edges="put_your_taz_edge_id_here">
</taz>
<taz id="5" edges="put_your_taz_edge_id_here">
</taz>
</tazs>
```

assignment
s2routes.duarcfg

```
<configuration>
<!-- The duarouter configuration file takes as input your network and
the OD Trips File and output
the route file -->
<input>
<net-file value="my_net.net.xml"/> <!-- Your SUMO Network File -->
<route-files value="od_file.odtrips.xml"/> <!-- Your SUMO OD Trips
File -->
</input>
<output>
<output-file value="od_route_file.odtrips.rou.xml"/>
</output>
<report>
<xml-validation value="never"/>
<no-step-log value="true"/>
</report>
</configuration>
```

duarouter -c PATH\duarcfg_file.trips2routes.duarcfg

The Sumo
Configuration file
File name:
config_file.sumocfg

```
<configuration>
<input>
<net-file value="my_net.net.xml"/>
<route-files value="od_route_file.odtrips.rou.xml"/>
</input>
<time>
<begin value="0"/>
<end value="2000"/>
</time>
</configuration>
```

Setup the configuration file and run the simulation

sumo -c my_config_file.sumocfg
Or
sumo-gui -c my_config_file.sumocfg