

Figure S1



Figure S1. Parameters on the vehicle acceleration, deceleration, and average speeds

Figure S2

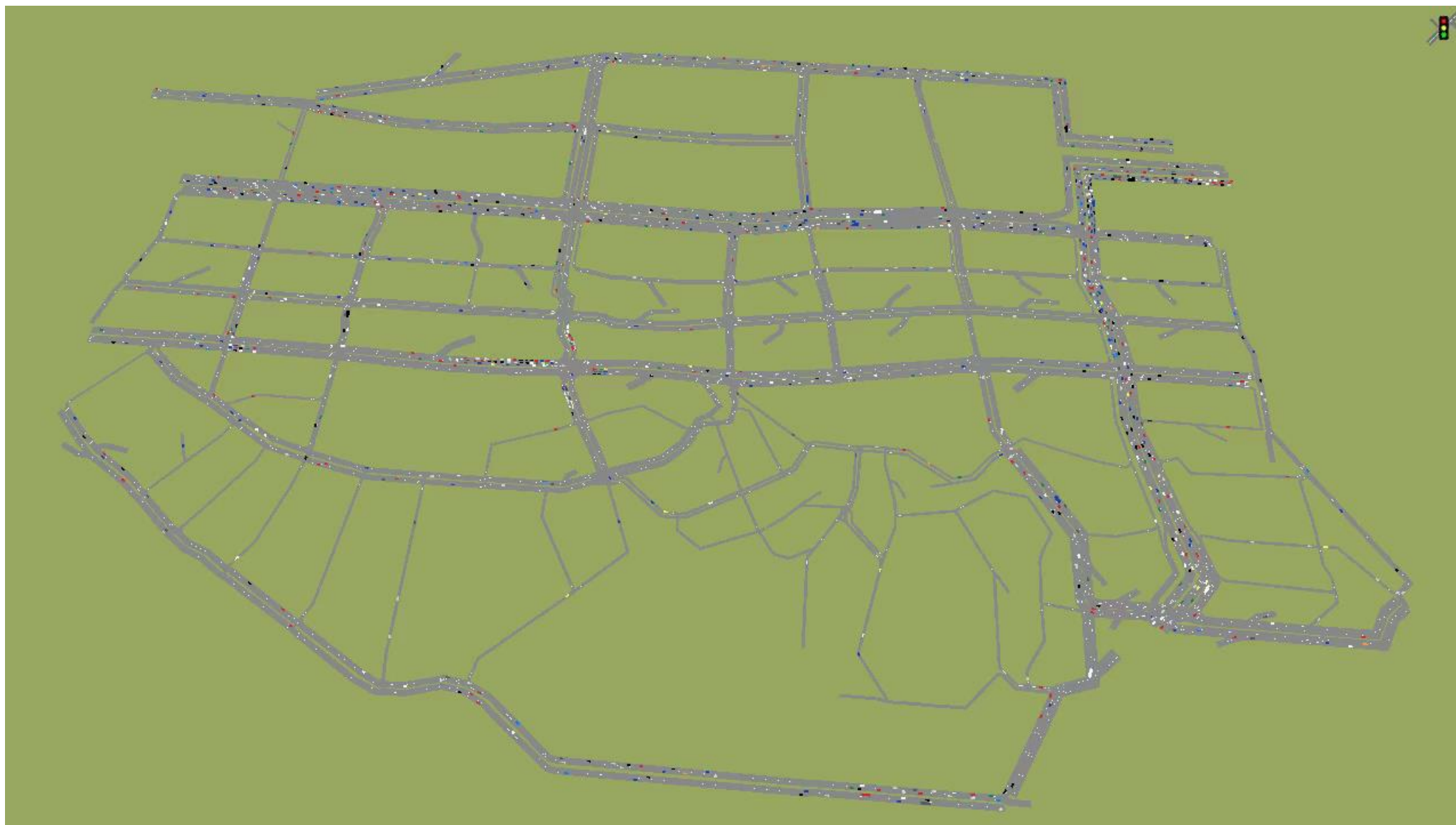
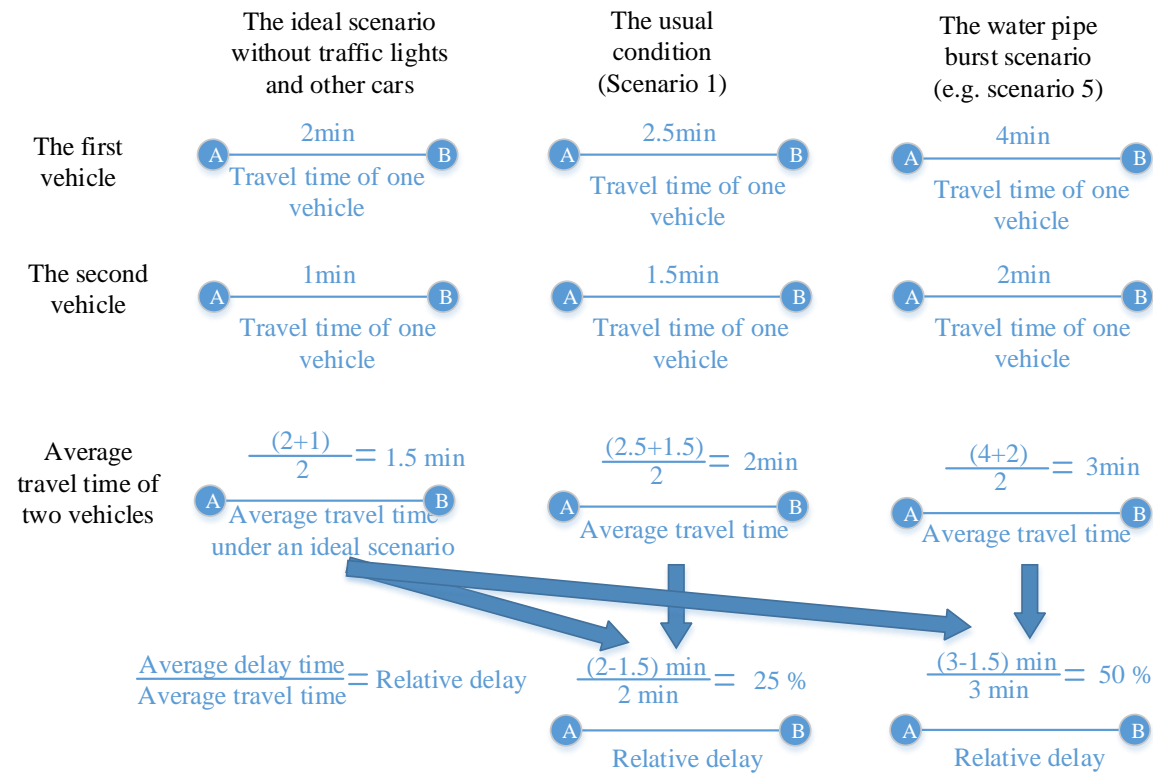


Figure S2. Simulation in VISSIM PTV software

**Figure S3**

- Average travel time = Total of travel times / number of vehicles
- Average delay time = Average travel time - Average travel times under an ideal scenario
- Average vehicle delay (Relative) = Average delay time / Average travel time



- The variation of **average delay time** in this road segment is 1 min (1.5-0.5) between scenarios 1 and 5
- The variation of **relative delay** in this road segment is 67% (100%-33%) between scenarios 1 and 5

Figure S3. A simple example (two vehicles running on one road segment from A to B) for illustrating the principle of calculating “average vehicle delay (relative)”

**Figure S4**



Figure S4. Variations of average vehicle delays in eight scenarios