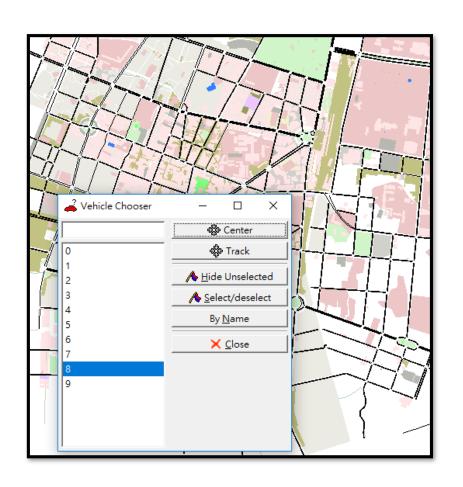
Progress report

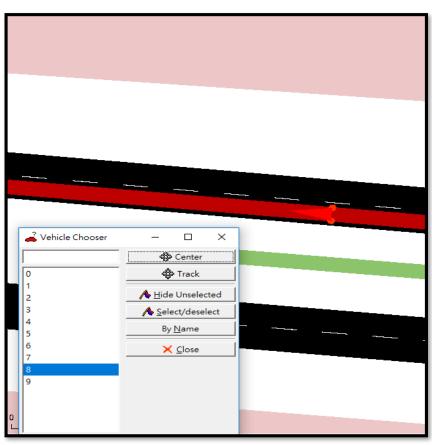
Date:2019-05-05

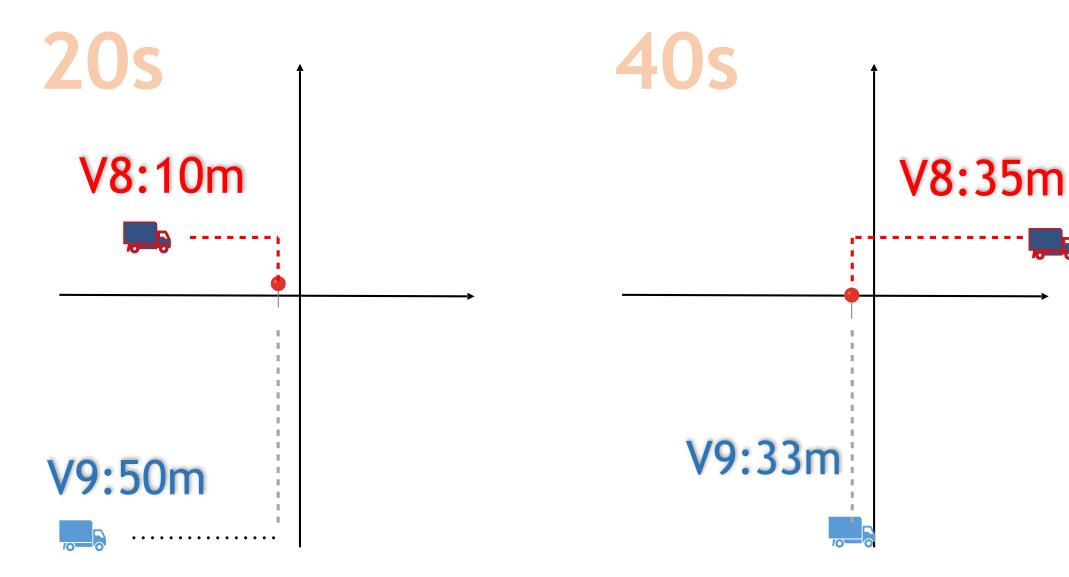
- Filter suitable cars
- Simulator environment
- Division of the task

- 1.arrange 10 random cars in the more concise map
- 2.compute the minimum distance between the sender and the ten cars
- 3. Dispatch the selected car to the sender
- 4.Add travel-time estimation function and notification to the user connecting the Android
- 5. Try to receive the geo-position from user's request and save it in a appropriate datatype (ex. arrayList)
- 6. Report the related data to the webserver (eg. the geo-position of the car)

1.arrange 10 random cars in the more concise map







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- current v8_edgeID is: 313194185#3
- current v8_position x:
 4522.27833916253 y:
 1920.8552667432366
- current distance between v8 to sender is:5075.269336728843
- current distance between v9 to sender is:4736.283500394948

2s

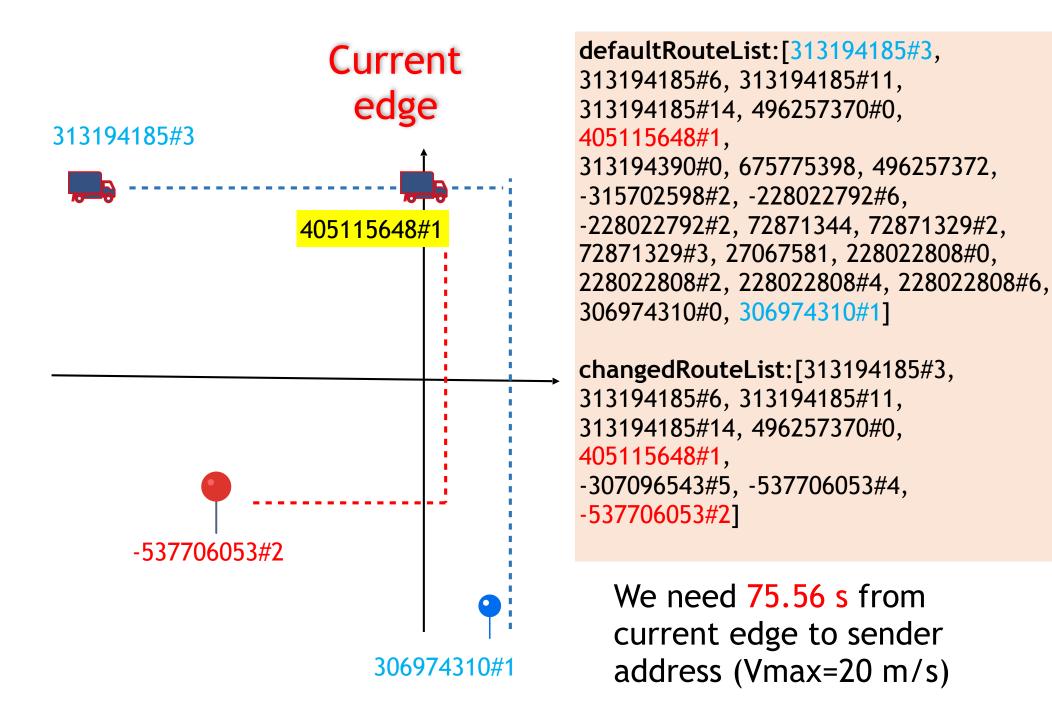
- current v8_edgeID is: 313194185#3
- current v8_position x: 4519.158030583849 y: 1921.896613339231
- current distance between v8 to sender is:5073.342501706793
- current distance between v9 to sender is:4739.520232601273

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- current v8_edgeID is: 313194185#3
- current v8_position x: 4514.207321846696 y: 1923.548822907995
- current distance between v8 to sender is: 5070.288245151509
- current distance
 between v9 to sender is: 4744.725440100539

Received the request of the sender at 60.0s

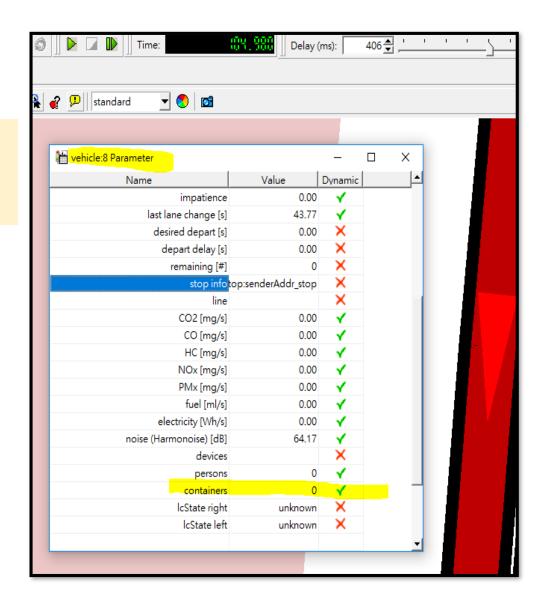
- if((v9toSenderDistance< v8toSenderDistance) && timeSeconds==60.0) {
- System.out.println("we dispath v9 to the sender address!");}
- else if(v9toSenderDistance > v8toSenderDistance && (timeSeconds==60.0))
- {System.out.println("we dispath v8 to the sender address!");}



The condition to filter the suitable cars

- 1.shortest distance
- 2.containers number (Transporting?Lower than container capacity?)3.the selection of time Interval





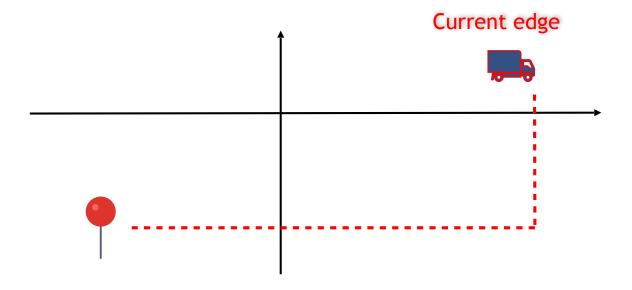
The selection of time Interval



12:00~14:59

- (vmax=20)
- •lower bound:1hr58mins (1*60+58)*60*Vmax=141600 [m]
- •upper bound:4hr57min (4*60+57)*60*Vmax=356400 [m]

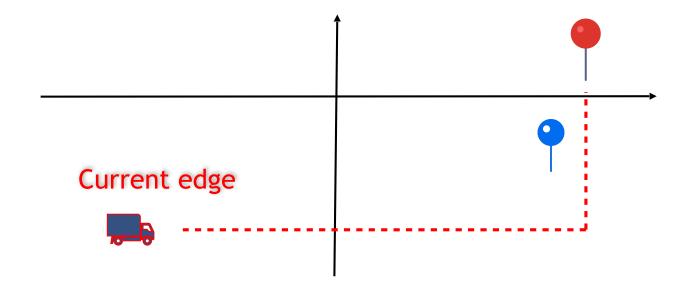
141600 < The distance < 356400



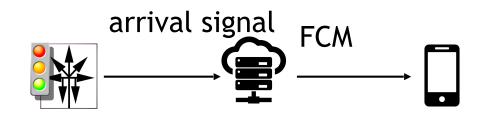
Waiting time

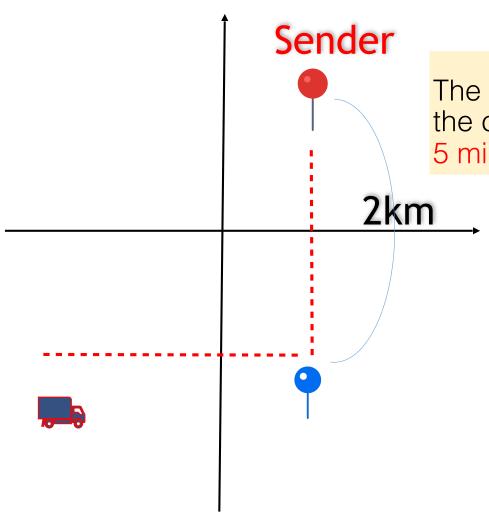


- Current time: 10:02
- The sender selected 18:00~20:59
- If we assume the car would arrive to the sender's address at 15:00,
- we would make the car waiting at the place nearby the destination from 15:00~18:00



Notification to the sender with 2km



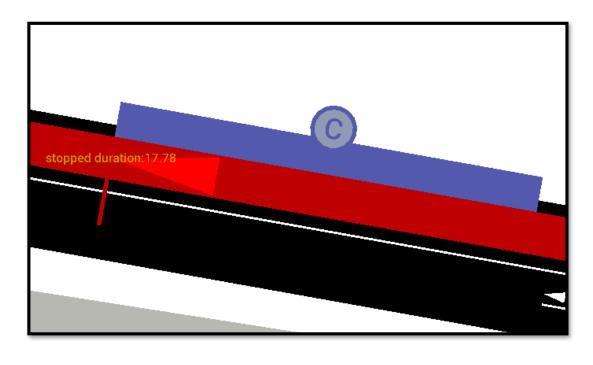


The sender would receive the message that the car would arrive to the destination within 5 minutes (or position)



Arrive to the sender

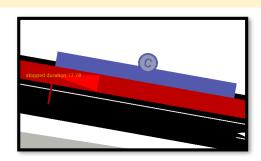
1.到點通知,以廣告推播型式





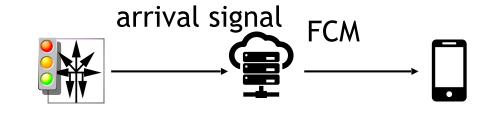
Arrive to the sender (2)

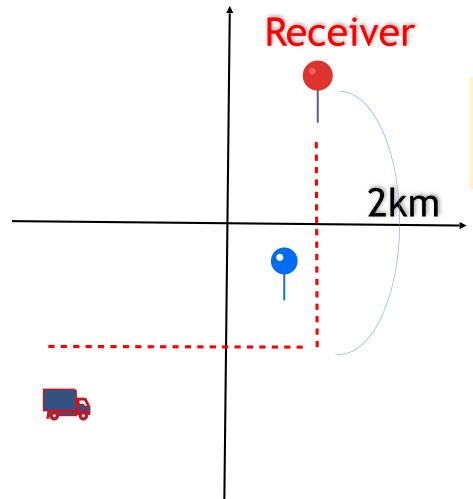
- 2.SUMO-server發訊息給receiver確認收貨時間 (讓sender有預設時間or最短時間)
- 3.SUMO安排路徑與設置在receiver地點停下
- 3.等待sender按下trigger鍵,以確認上貨完畢
- 4.結束目前stop stage
- 5. 車子從sender出發,前往receiver





Notification to the receiver within 2km





The receiver would receive the message that the car would arrive to the destination within **5 minutes**



Arrive to the receiver's address

- 1.到點通知,以廣告推播型式
- 2.等待receiver按下trigger鍵,確認

收貨

- 3.結束目前stop Stage
- 4. 車子從receiver離開,前往火車站



分工部分

布

- 推播通知
- 手機訂單查詢
- Android UI
- webserver
- 連線功能

慷

- 車輛派遣
- 路線規劃
- •上下卸貨
- SUMO-API撰寫
- 地圖資料處理