Meeting report
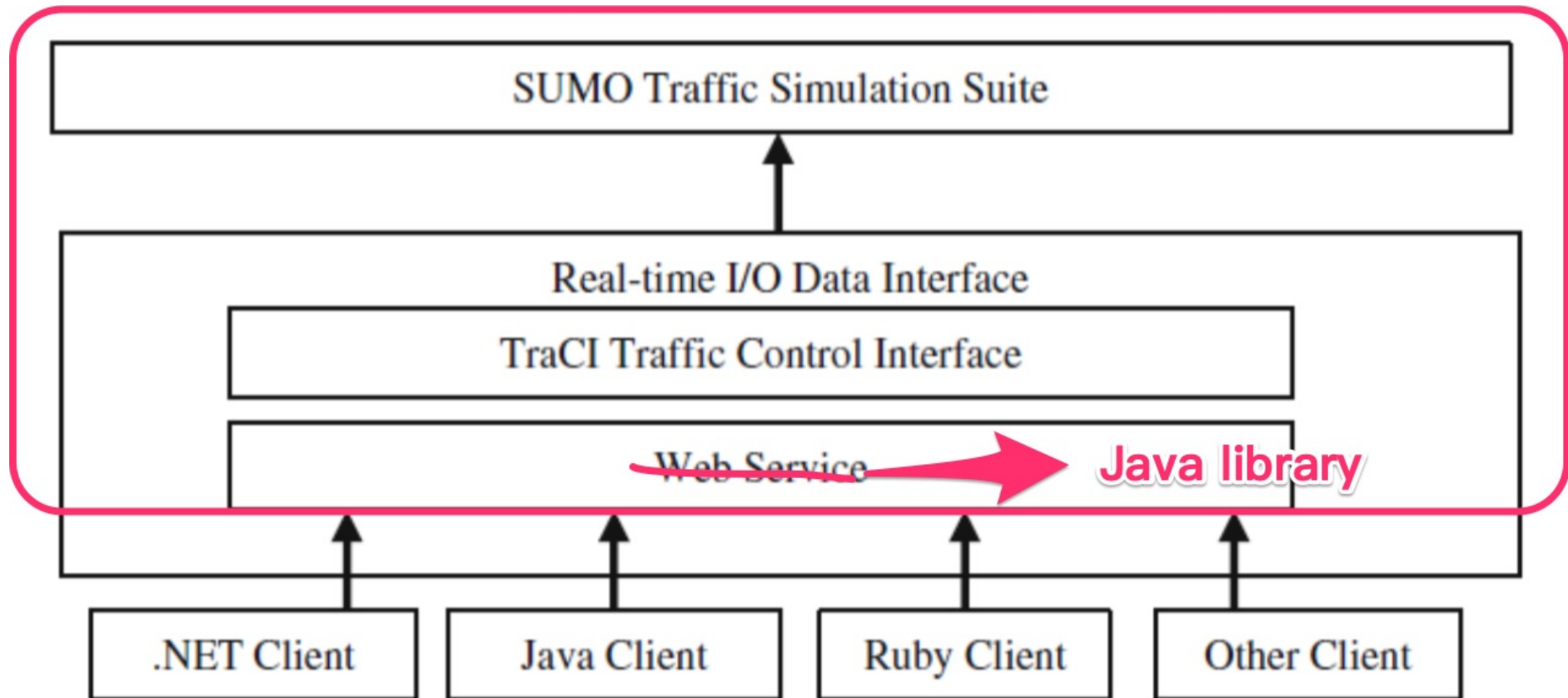
2019-04-11(四)

Local Connection

```java
 2⊕ // Eclipse SUMO, Simulation of Urban MObility; see https://eclipse.org/sumo□
19⊕ import it.polito.appeal.traci.SumoTraciConnection;□
25
26  public class Main {
27
28      static String sumo_bin = "sumo-gui";
29      static String config_file = "simulation/config.sumo.cfg";
30      static double step_length = 0.1;
31
32⊖     public static void main(String[] args) {
33
34          try{
35              SumoTraciConnection conn = new SumoTraciConnection(sumo_bin, config_file);
36              conn.addOption("step-length", step_length+"");
37              conn.addOption("start", "true"); //start sumo immediately
38
39              //start Traci Server
40              conn.runServer(8080);
41              conn.setOrder(1);
42
43              for(int i=0; i<360000; i++){
44
45                  conn.do_timestep();
46                  conn.do_job_set(Vehicle.addFull("v"+i, "r1", "car", "now", "0", "0", "max", "current", "max", "current", "", "", "", 0, 0));
47                  /*
48                  double timeSeconds = (double)conn.do_job_get(Simulation.getTime());
49                  int tlsPhase = (int)conn.do_job_get(Trafficlight.getPhase("gneJ1"));
50                  String tlsPhaseName = (String)conn.do_job_get(Trafficlight.getPhaseName("gneJ1"));
51                  System.out.println(String.format("Step %s, tlsPhase %s (%s)", timeSeconds, tlsPhase, tlsPhaseName));
52                  */
53                  SumoVehicleData vehData = (SumoVehicleData)conn.do_job_get(Inductionloop.getVehicleData("loop1"));
54                  for (SumoVehicleData.VehicleData d : vehData.ll) {
55                      System.out.println(String.format("  veh=%s len=%s entry=%s leave=%s type=%s", d.vehID, d.length, d.entry_time, d.leave_t
56                  }
57              }
58              conn.close();
59
60          }catch(Exception ex){ex.printStackTrace();}
```
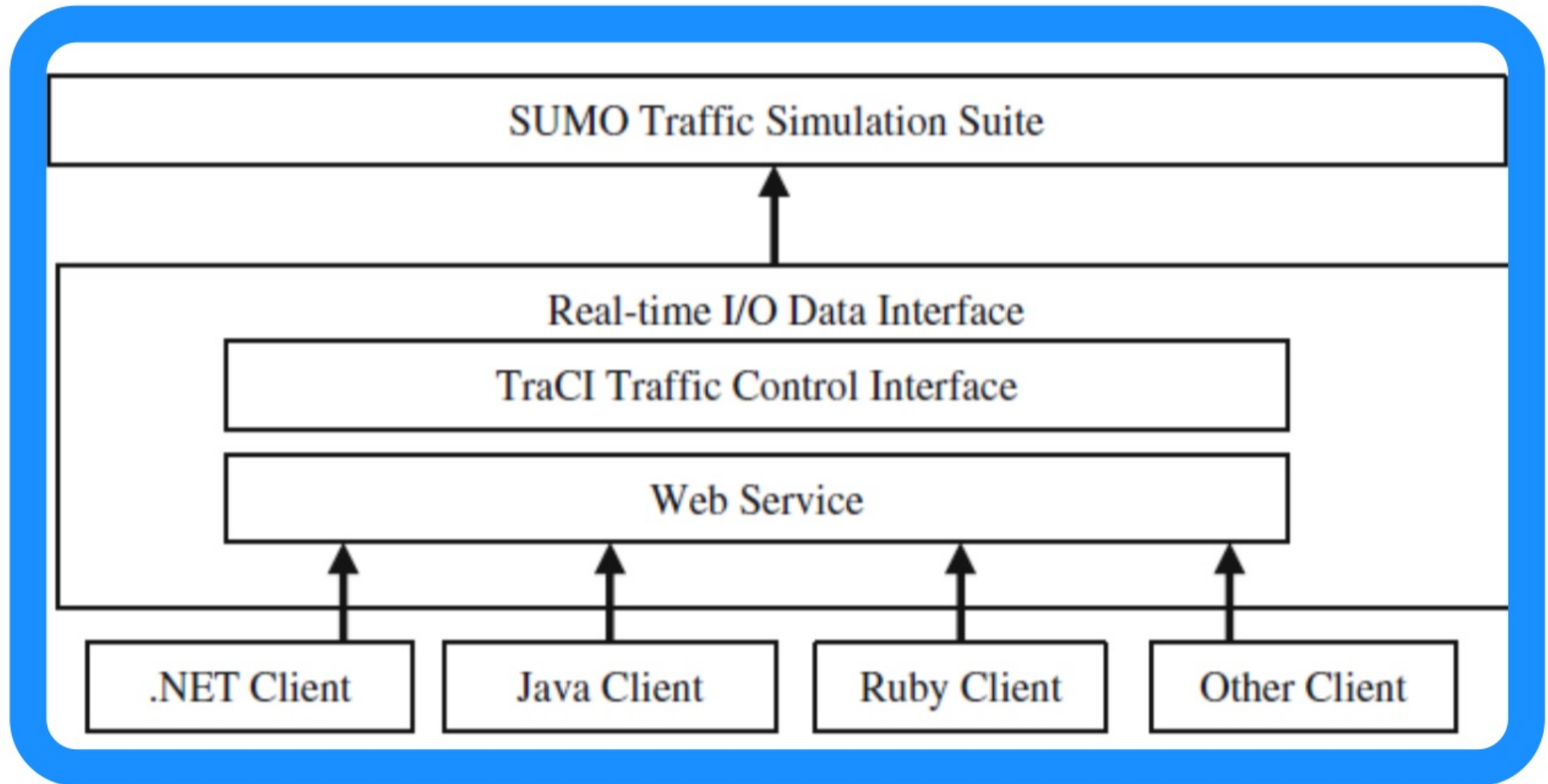
port=8080

Add cars

Get Car Information

3

Demo of Local Connection

Web Service

SUMO Traffic Simulation Suite

Real-time I/O Data Interface

TraCI Traffic Control Interface

Web Service

.NET Client | Java Client | Ruby Client | Other Client

JDBC

Server Side of Web Service

Server

Client

```java
public static void main(String[] args) {
    System.out.println("ready to getServiceImplPort");
    //Start your webservice with the bash or the cmd!
    ServiceImpl ws = new TraasWS().getServiceImplPort();
    System.out.println("hi");
    //optional

    ws.setSumoBinary(sumo_bin);
    ws.setConfig(config_file);

    ws.addOption("start", "");
    ws.addOption("step-length", step_length+"");

    ws.start("user");

    for(int i=0; i<36000; i++){
        System.out.println("in the loop");
        ws.doTimestep();
        if(i%10==0) {
            ws.vehicleAdd("v"+i, "car", "r1", i, 0, 13.8, (byte) 1);
        }
    }

    ws.stop("user");
```

execute Start

Add cars

Demo of Web Service

Question

- 1.若是車子的地點資訊傳入client，再傳給SUMO-gui顯示，會不會有失真

- 2.若是從SUMO-gui 傳出car-info給外界，會不會失真？