



# gPBL for traffic safety research

| Date                     | Place | Partner Organization    | Students' Major and Grade  | Participants' Information  | SIT Instructor  |
|--------------------------|-------|-------------------------|--|--|---|
| March05<br>~March15,2021 | Japan | Loughborough University | <ul style="list-style-type: none"> <li>Department of Machinery and Control Systems</li> <li>Undergraduate 4th grade</li> <li>Master 1st grade</li> <li>Master 2nd grade</li> </ul> | (SIT)<br>Students 16, TA 3, Professor 1 (Loughborough University)<br>Students 3, Professor 1 | ITO Toshio<br>(Department of Machinery and Control Systems) |

## Team 1 : Cockpit designs for future automated Vehicle

### Objective

How to realize safe and comfort?

#### Safe



- Smooth take-over
- Clear viewing area
- Prevent looking aside

#### Comfort



- In-car entertainment
- Easy operation system
- Spacious car interior

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SHIBAURA INSTITUTE OF TECHNOLOGY



Loughborough University

Image1 DR material in Team1

For 11 days from March 5th to 15th, 2021, the participating students were divided into 3 teams for the 3 themes being conducted at the Traffic Safety Research Center in Loughborough University, and each team worked on each theme. The three themes are the cockpit design for automated driving vehicle, the impact of automated driving on urban traffic, and the examination of overtaking specifications for automated driving vehicle. Due to the online implementation, the exchange time with Loughborough University was after 6 pm Japan time and continued until late at night. The first DR of the theme of the initiative was performed on the 4th day, the intermediate DR was performed on the 7th day, and the final DR was performed on the 15th day, and all activities were completed online.

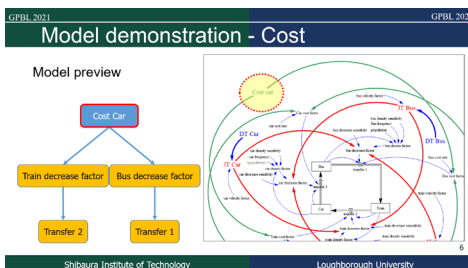


Image2 DR material in Team2

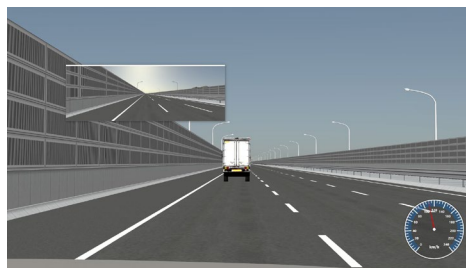


Image3 DR material in Team3

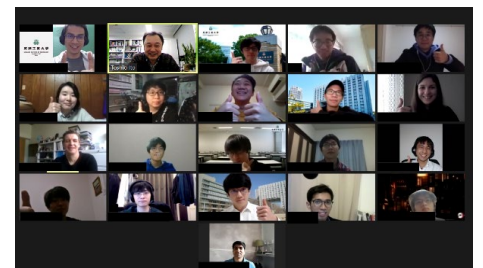


Image4 Groupe photo after DR