

# VIAL SIMULATOR



Design and development of a road simulator for driver diagnosis using a virtual reality application.

**Objective:** To develop, model and implement a custom immersive and interactive virtual reality tool.

# BENEFITS

**PORTABILITY**, the simulator can be transported and installed with ease.



## COMPONENTS OF THE SIMULATORS

Steering wheel T500RS  
/ G29 /  
G27 / CLS FANATC



Facatec Elite V3 / G29  
/ G27 Pedals



Shift Lever G 20 /  
TH8A

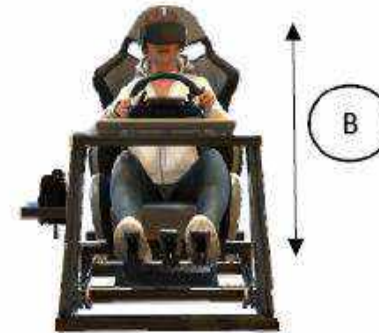


## COMPONENT OF THE SIMULATORS

Square tube support structure.  
Measurements vary according to need.



A: 110 cms  
B: 110 cms  
C: 80 cms  
Weight: approximate 60 kg



## COMPONENT OF THE SIMULATORS

WMR virtual reality viewer +  
controls / acer / Lenovo /  
asus / Dell / Hp Sound



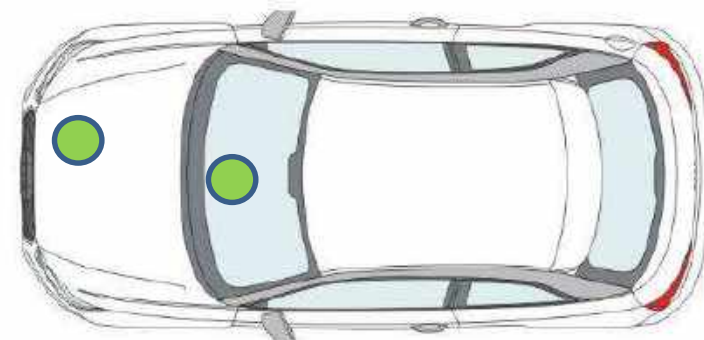
# ROAD SIMULATORS OVERVIEW



## VEHICLE READINESS

### ENGINE INSPECTION

- Brake fluid test
- Engine oil test
- Coolant test
- Test power steering oils
- Windshield washer fluid test



### TIRE INSPECTION

- Tilling depth
- Air inspection test
- Ring seal verification test



### LIGHT INSPECTION

- Light Operation Test

## VEHICLE READINESS

## PREVENTION AND SAFETY EQUIPMENT INSPECTION



## PERIPHERIC VISION

- Chair and rudder fit test
- Mirror adjustment test

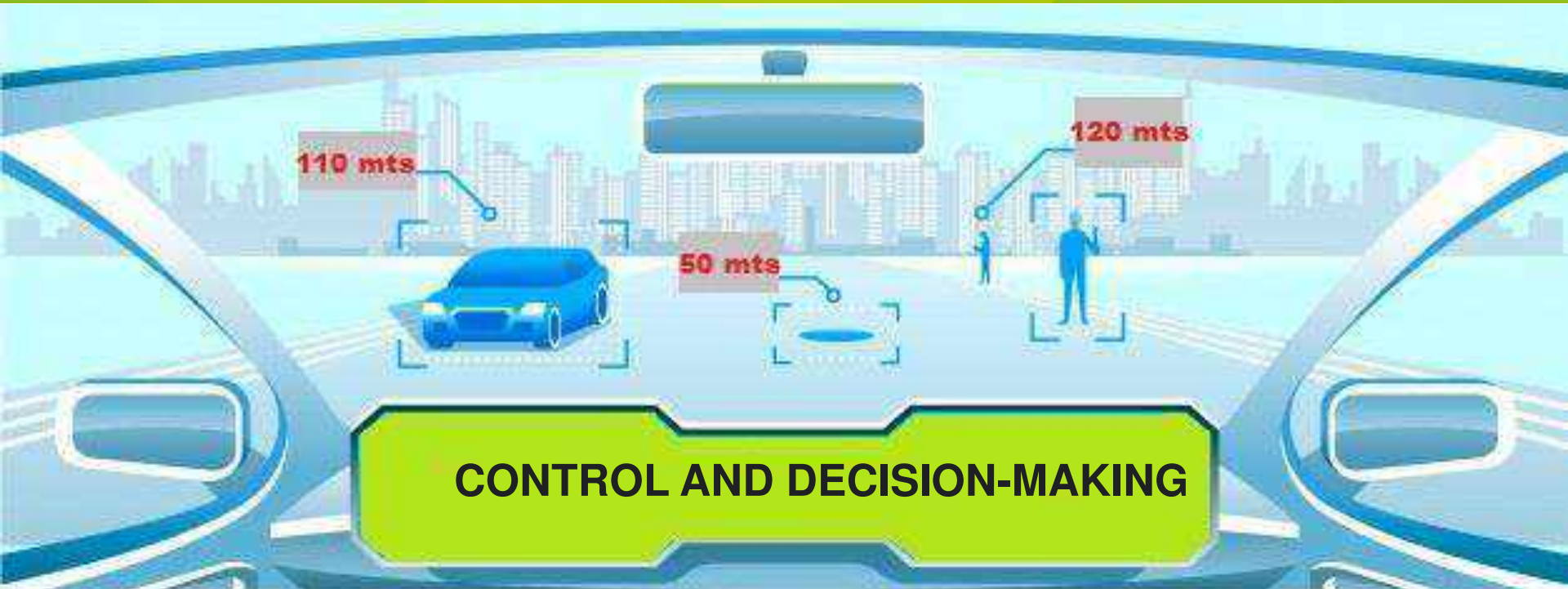


## CAB SECURING

- SOAT
  - Transit License
  - Driving license
- ## WITNESSES







## STAGE

Daylight and road paved



## STAGE

Night and uncovered road



## STAGE

Rain, smooth floor



DISTRACTORS  
- THIRD  
PARTY  
ACTION





## KNOWLEDGE OF SIGNALS

