# DRIVER TRAINING SIMULATION SYSTEM

Redefine Driving Proficiency







# LEADING-EDGE SIMULATION TRAINING

ST Engineering offers state-of-the art driving simulators to the public security, logistics, transport, and defence sectors.

Developed to meet industry operational and training needs, our suite of driving simulators provides high-fidelity and realistic virtual training experience across various vehicle types, for driving skill refinement, reflex enhancement, and adherence to safety protocols crucial for passengers, road users and business operations.

The driving simulators can be deployed for individual and fleet training.

# WIDE RANGE OF TRAINING PLATFORMS

Our range of simulation training platforms caters to different training objectives and budgets. Being highly configurable, multiple vehicle cabins can be interchanged on a single trainer unit to optimise utility. Multiple simulators can also be linked, so that fleet training can take place in the same virtual environment.



Motor Vehicles (Cars/Motorcycles)



Passenger Vehicles (Buses/Coaches)



Military Vehicles



Heavy Goods Vehicles



Articulated Vehicles



Police, Fire & Emergency Response Vehicles





# Mixed Reality (MR) Driving Trainer

The MR driving simulator immerses the learner in the driving environment, with full 360 degree views from the driving cabin. Highly portable, this system helps organisations accomplish their training objectives with a minimal space footprint.





### **Compact Driving Simulator**

The compact driving simulator provides learners with a realistic training experience. It integrates a modified cabin, real driving controls coupled with a 120/180 degree field of view. The mobile trainer offers a cost-efficient option without compromising the driving performance and experience.

### Full-Scale Motion Driving Simulator

The full-scale driving simulator delivers a highly realistic virtual training experience. Learners get to familiarise themselves with the actual controls and vehicle's blind-spots from the driving cabin.

#### It comprises:

- Full-size vehicle cabin
- 180/270 / 360 degree field of view
- Real vehicle controls (steering wheel, accelerator & brake, gear shifter, instrument panel, in-cabin switches)
- Full surround sound system

#### **Optional:**

3 to 6 Degree Of Freedom Motion Platform
 Integration with vehicle on-board equipment

# KEY FEATURES

## 1) Al-powered Scenario Generator

- Design and deploy scenarios in a virtual terrain with real-world locations modeling
- Create unique scenarios with a large variety of interactions between scenario objects
- Powered by AI tools to assist with rapid scenario brainstorming and generation





**AI-powered Scenario Generator** 



Roads, landmarks and signages



Simulated vehicular and pedestrian traffic

## 2) Realistic Training Experience

- Terrain, traffic rules, lights and signages that's customised to your locality
- Immersive and relevant traffic conditions





#### 3) Realistic Vehicle Controls and Dynamics

- Driving cabins equipped with functional controls including switches, gear controls, steering wheel and dashboard display panels
- Enhanced realism through high-fidelity vehicle physic modelling for true-to-life performance

## 4) Comprehensive Assessment and Training

- Objective assessment platform for instructors to monitor and assess driving performance
- Records and captures driver's adherence to rules, response to emergency situations, failures and driving techniques



Automated Driving Evaluation Assessment System, an intelligent assessment system that tracks both the driver's simulator driving performance for targeted training.



