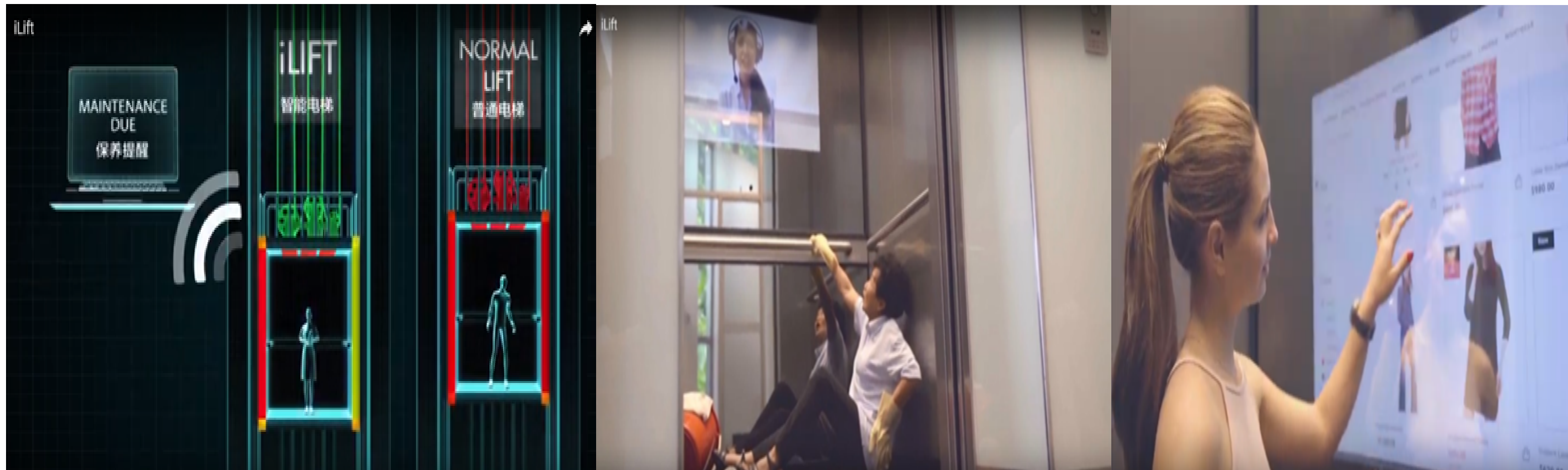


iLift

SMART LIFT SYSTEM WITH ENHANCED SAFETY AND INTERACTIVE FEATURES



CHALLENGES

Lifts may break down or become faulty after prolonged use. This may cause inconvenience for passengers as lifts are needed to access offices, houses and shopping malls etc.

Water spillage in lifts may be left unreported, thereby, causing people to slip and fall. Injured passengers may not be able to get help on their own.

OUR SOLUTION

As we move towards an era of smart living, A*STAR has collaborated with Housing Development Board (HDB) and Joylive Elevator (lift engineering company) to come up with a smart lift. This smart lift system comprises of enhanced safety features through real-time monitoring. Equipped with sensors, the smart lift is also capable of predictive maintenance. It sends alerts when maintenance is due and can localize fault areas in need of repair.

When in need of assistance, passengers are also able to communicate with the maintenance staff via video communication and an in-built microphone.

The lift system also includes Automatic Water Ponding Sensor that detects water spillage of more than a litre in lifts. When this happens, cleaning crew will be automatically alerted and potential accidents are prevented.

The Fall Response System is another in-built feature which ensures passengers' safety. When the fallen passenger does not pick himself/herself up within 30 seconds, an assistant will render help via the communication system.

The smart lift system also captures passengers' gender and age group through facial recognition. Relevant information and advertisements will be made available on the lift's interactive screen for browsing based on passengers' demographics .

BENEFITS

- Lifts will be adequately maintained
- Fall Response System renders assistance to passengers if they fall
- Interactive and novel experience when taking lifts

APPLICATIONS

- Potential use in future housings and buildings

(From left)

- 1) Preventive Maintenance alerts
- 2) Passenger Fall Response System
- 3) Demographic-specific content browsing

