

ST Engineering showcase

The global technology, defence and engineering group is the largest exhibitor at the Singapore Airshow 2020. Here are five of its innovations on show:

AIR DISTRIBUTED MISSION TRAINER (ADMT)



- The ADMT is a flight simulation training system that lets pilots of different aircraft participate in the same training scenario at the same time, such as advanced fighter operations and mission rehearsals.
- Participants can even link up online from multiple locations, with no limit on the number of participants who can log on. The ADMT allows all-day, all-weather training to be conducted, and across a full spectrum of operational missions.

MAK ONE – SYNTHETIC TRAINING ENVIRONMENT (STE)



- The MAK One STE is being showcased for the first time, featuring VR-Engage, a multi-role virtual simulator which offers immersive simulation and enables the customisation of in-scenario configurations such as the landscape.
- It lets users set up and manage training scenarios, simulate various training roles, as well as record and present training results. For example, in a peacekeeping operation scenario, participants can take on roles such as a driver, commander or pilot.



NEXT-GENERATION LAVATORY



- ST Engineering has developed Access, the world's first expandable aircraft lavatory for passengers with reduced mobility.
- Through the use of a moving wall, it expands the space in the lavatory by 40 per cent, offering passengers with reduced mobility, such as those in wheelchairs, greater access and ease of use. The lavatory can be retrofitted to narrow-body aircraft.

NEXT GEN BIOMETRICS PLATFORM

- This innovation addresses the shortage of supply and high cost of immigration officers, as well as long queues and slow processing time faced at immigration counters.
- The platform streamlines the border clearance process to make it more efficient. For example, it uses security tools like reading fingerprints and irises to verify the identity of individuals quickly and accurately, and also compares data that is submitted, against databases to check its credibility.



ADDER REMOTE WEAPON STATIONS

- Lightweight and stabilised for better accuracy, it can be mounted on tracked or wheeled armoured fighting or logistics vehicles.
- Remotely operated below deck or from a control console up to 1km away, the Adder provides protection for the operator. The control console is touchscreen, and allows the automatic tracking of targets once detected.



Remote control

