






Fact Sheet: NDP 2025 Mobile Column



1. To commemorate 60 years of Singapore’s independence (“SG60”), National Day Parade 2025 (NDP 2025) will bring the Mobile Column back to the Padang for the first time since 2019. To extend the experience to more Singaporeans, this year’s Mobile Column will also be integrated with an aerial flypast over the Padang and a maritime display at Marina Bay. The Mobile Column will feature 143 assets in a drive-past along St Andrew’s Road, 22 aircraft flying over the Padang, and 5 vessels in the maritime display at the Bay. Over 800 participants and supporting staff from the Singapore Army, Republic of Singapore Navy (RSN), Republic of Singapore Air Force (RSAF), Singapore Police Force (SPF), Singapore Civil Defence Force (SCDF) and Maritime and Port Authority of Singapore (MPA) will be involved. Together, the diverse group represents the full spectrum of Singapore’s defence and emergency response capabilities.

2. Some of the assets presented will be making their debut in Mobile Column for the very first time. These are:




S/N	<u>Name of Asset</u>	<u>Description</u>
1	Hunter Recovery Vehicle (HRV) <i>[Singapore Army]</i> 	<p>The HRV is a fully digitalised, next-generation recovery asset in the Singapore Army. It features an all-round camera system that provides the crew with a 360-degree field of vision while operating under full armour protection. Engineered also for mobility support operations, it is equipped with advanced earth-moving capabilities and a hydraulically operated gripper arm, enabling it to clear obstacles and breach routes in both urban and conventional terrains. Integrated digital Command, Control, Communications, and Computers (C4) systems allow the HRV to operate seamlessly with other Hunter-class platforms, enhancing networked combat effectiveness.</p>
2	Hunter Armoured Engineer Vehicle (HT-AEV) <i>[Singapore Army]</i>	<p>Commissioned on 9 January 2025, the HT-AEV is the Singapore Army’s next-generation earthmover. Built with greater mobility, survivability and network networked warfighting capabilities, it strengthens the Singapore Army’s obstacle-clearing capabilities while enhancing crew safety and efficiency.</p> <p>The HT-AEV’s front loader system and excavator arm enable it to displace obstacles, grip and lift heavy objects,</p>

S/N	Name of Asset	Description
		and overcome anti-tank ditches. These capabilities enhance operational flexibility for the Singapore Army's Combat Engineers, allowing them to adapt to different mission scenarios effectively.
3	Hunter Armoured Vehicle Launched Bridge (HT-AVLB) <i>[Singapore Army]</i> 	The HT-AVLB is the world's first fully digitalised closed-hatched assault bridging system, designed to enhance survivability and mobility by breaching gaps quickly while maintaining networked warfighting capabilities. It is equipped with an all-round camera system which enhances situational awareness and manoeuvring abilities. The vehicle can also be networked with other Hunter platforms, allowing for coordinated operations.
4	Mobility Support System (MSS) <i>[Singapore Army]</i> 	The MSS is a specialised engineering asset designed to enhance battlefield mobility by providing rapid and flexible solutions for overcoming obstacles such as craters, damaged roads, and other terrain challenges. It is mounted on the 5-tonner chassis and can be laid automatically with the support of a two-man crew.
5	VELOCE 15 (V15) <i>[Singapore Army]</i> 	The V15 is a hybrid Vertical Take-Off and Landing (VTOL) mini-Unmanned Aerial Vehicle (mUAV) developed by the SAF in collaboration with DSO National Laboratories, DSTA, and ST Engineering. It was introduced to replace the Skyblade III system, enhancing the SAF's tactical Intelligence, Surveillance, and Reconnaissance (ISR) capabilities.
6	TPQ-53 Weapon Locating Radar (WLR) <i>[Singapore Army]</i>	The Singapore Army's newest weapon location radar, the TPQ-53, improves force protection from indirect fire thanks to its expanded radar coverage. Through better acquisition and target identification of Rocket, Artillery, and Mortar threats, its cutting-edge technology improves the sense-strike loop. This makes it possible to eliminate hostile



S/N	Name of Asset	Description
		threats quickly, which eventually guarantees mission success on the battlefield.
7	Mobile Cellular Detachment (MCD) <i>[Singapore Army]</i> 	The MCD is a specialised communications vehicle of the Singapore Army's Signals formation, designed to strengthen cellular coverage wherever it is deployed. These detachments can be deployed rapidly as a means to bridge communications for the Singapore Army.
8	Agilis Light Utility Vehicle (LUV) <i>[Singapore Army]</i> 	<p>The Agilis LUV is a next-generation light utility vehicle tailored for command, reconnaissance, and support roles. Its compact footprint and advanced electronics make it ideal for urban operations and tight terrain.</p> <p>The LUV is equipped with a 360-degree camera system and Advanced Driver Assistive System for enhanced safety and situational awareness. It also has a configurable rear cabin to support a wide range of operations including signal relay, patrolling and general transport.</p> <p>The Agilis LUV supports agile force projection and decentralised command operations. Its adaptability allows commanders to tailor the vehicle to mission needs, improving responsiveness and operational tempo in both conventional and hybrid warfare environments.</p>
9	Combatant Craft Underwater (CCU) <i>[Republic of Singapore Navy]</i>	The CCU is a versatile maritime platform utilised by the RSN to deliver combat forces to its intended destination, via both surface and underwater modes. The CCU can travel in excess of 20 knots and is equipped with advanced navigation systems and sensors, allowing its operators to use the sea as a cover to conduct maritime counter-terrorism missions stealthily.




S/N	Name of Asset	Description
		
10	Tactical Strike Vehicle (TSV) <i>[Singapore Police Force]</i> 	<p>The TSV is part of the fleet of vehicles under the Special Operations Command to augment its tactical capabilities and protection. It is heavily fortified with protective wire mesh and an armoured body, ensuring it is well shielded to effectively counter and neutralise potential threats. It is also equipped with features such as a public announcement system, flood lights, and sensemaking cameras.</p>
11	2nd Generation Medical Support Vehicle (MSV) <i>[Singapore Civil Defence Force]</i> 	<p>The MSV is a versatile and technologically advanced asset within the SCDF's emergency response fleet. Equipped with specialised equipment for mass casualty incidents, the latest generation of the MSV reflects the ongoing advancement of emergency medical services, ensuring enhanced preparedness for future challenges in crisis management.</p> <p>The 2nd Generation MSV leverages advanced technology to maximise efficiency. For example, an electronic system automates the set-up of workstations, reducing the manpower required.</p> <p>The MSV can be quickly converted into a mobile operating theatre for critical interventions during mass casualty incidents. Equipped with portable ultrasound devices for rapid diagnostics and self-decontamination capabilities for offsite use, the MSV significantly boosts the SCDF's medical response capabilities.</p> <p>The MSV also incorporates a motorised stretcher and HoverTech System that work in tandem to reduce mechanical friction during patient transfers and minimise strain on personnel, ensuring safer and more efficient patient handling.</p>





3. Other assets participating in the drive-past along St Andrew's Road, arranged in order of appearance, include:





<u>S/N</u>	<u>Name of Asset</u>	<u>Description</u>
1	<p>Leopard 2SG Main Battle Tank (L2SG)</p> <p><i>[Singapore Army]</i></p> 	<p>The Leopard 2SG Main Battle Tank (L2SG) is an integral part of the Singapore Armed Forces' combined arms force, featuring the five key characteristics of Armour – (1) Firepower, (2) Flexibility, (3) Armour Protection, (4) Shock Effect, and (5) Mobility.</p> <p>Equipped with a 120mm main gun, and a 7.62mm Coaxial Machine Gun, the L2SG is capable of engaging armoured and soft-skin targets in rapid succession, with overwhelming firepower.</p> <p>Each L2SG is also equipped with a Battlefield Management System, which allows the L2SG to seamlessly integrate with other combat forces.</p>
2	<p>Leopard 2 Armoured Recovery Vehicle (L2-ARV)</p> <p><i>[Singapore Army]</i></p> 	<p>The L2-ARV is an integral asset of the Armoured Engineers Company, operating within the Armoured Brigade and the Armoured Battle Group of the Combined Arms Division. Designed to support armoured manoeuvre operations, the L2-ARV plays a vital role in enhancing the tactical mobility of armoured forces. It provides essential capabilities such as rapid route clearance and obstacle breaching, enabling armoured units to maintain momentum and seize initiative on the battlefield.</p>
3	<p>Hunter Armoured Fighting Vehicle (AFV)</p> <p><i>[Singapore Army]</i></p> 	<p>The Hunter AFV is the SAF's first fully digitalised platform, designed to provide increased survivability and lethality on urban terrain. Designed to fight with all hatches closed, the Hunter provides greater protection for its crew.</p> <p>A comprehensive suite of surveillance sensors and sighting systems are also integrated to enable faster engagement, enhancing the situational awareness of its crew.</p> <p>The Hunter is also armed with a 30mm Cannon, 7.62mm Coaxial Machine Gun, as well as Anti-Tank Guided Missiles for selected variants.</p> <p>Its sensors, sights and weapons are fully integrated into the Army Tactical Engagement and Information System (ARTEMIS), which enables quick and accurate real-time collaborative engagement of targets. Through the Hunter's Health and Utilisation Monitoring System, maintenance,</p>




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		troubleshooting, and repair are also simplified for the vehicle.
4	Bronco All Terrain Tracked Carrier (ATTC) <i>[Singapore Army]</i> 	<p>The Bronco (ATTC) is a twin chassis multi-purpose tracked articulated vehicle jointly developed by ST Kinetics and the Defence Science and Technology Agency (DSTA).</p> <p>There are three variants of broncos featured in this packet. First, the Bronco Armoured Recovery Vehicle is a specialised variant of the Bronco. This vehicle is designed to provide essential recovery and repair capabilities in challenging terrains, ensuring the operational readiness of armoured units.</p> <p>The Bronco also serves as the base platform for the Mortar Tracked Carrier variant – a self-propelled mortar system designed to deliver mobile and rapid-fire support, especially in challenging environments such as jungle terrain. Additionally, the Bronco is employed to transport rebro equipment and signallers, enabling the swift deployment of communication assets in the field.</p>
5	Terrex Infantry Carrier Vehicle (ICV) <i>[Singapore Army]</i> 	<p>The Terrex ICV provides infantry forces with enhanced protection, mobility, and firepower, while connecting them to an integrated network of air and land combat platforms.</p> <p>Fitted with a modular protection system, the Terrex ICV provides infantry forces with enhanced all-round protection on the battlefield.</p> <p>The Terrex ICV also comes with a fully stabilised Remote Controlled Weapon System capable of providing direct precision fires, and a Weapon Detection System (WDS) that detects and locates the source of enemy fire.</p> <p>Connecting its crew to an integrated network of combat platforms, the Terrex ICV's Battlefield Management System also allows the data collected by the WDS to be shared with other friendly forces, enhancing the Terrex ICV's interoperability with the SAF's arsenal of combat platforms.</p>




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6	Belrex Protected Combat Support Vehicle (PCSV) <i>[Singapore Army]</i> 	<p>The Belrex PCSV provides the SAF's motorised infantry combat support and combat service support forces with improved firepower, protection and situational awareness, thereby enhancing the SAF's precision manoeuvre capabilities. It is equipped with a C4 (command, control, communications and computer) suite of systems to facilitate efficient information exchange via the Army Battlefield Internet, and enables the SAF's motorised infantry forces to fight together in an integrated manner.</p>
7	Light Strike Vehicle MK. II (LSV) <i>[Singapore Army]</i> 	<p>The LSV is the SAF's fast and lightweight anti-tank vehicle that is a formidable force on the battlefield due to its: (1) rapid deployability, (2) night-fighting capabilities, (3) weapon systems, and (4) integrated network capabilities. This vehicle can be heli-lifted into the battlefield and is equipped with an automatic transmission gear that allows it to travel up to a maximum speed of 110 kilometres per hour, for a range of 500 kilometres. Combined with its superior suspension systems and all-terrain tyres, this vehicle is built to travel across undulating terrains with stability, ease and control.</p> <p>This LSV is also capable of operating stealthily at night as it is equipped with infra-red headlights which are located at the front of the vehicle. The infra-red beams emitted by the headlights are invisible to the naked eye, but serve to illuminate the path for the Light Strike crew members who are equipped with Night Vision goggles.</p> <p>The LSV also has a Multi-weapon Mast, which allows for a variety of weapons to be mounted on the vehicle. One such variant is the Vehicle Launch Spike System, which can fire missiles at targets up to 4000m away. Another variant of the vehicle is mounted with the Automatic Grenade Launcher, commonly used to engage soft-skinned vehicles. It fires up to 350 High Explosive grenade rounds per minute, at targets up to 1500m away.</p> <p>Lastly, the LSV is equipped with the Battlefield Management System (BMS), which connects the crew to the network of fighting systems, be it other LSVs, or other platforms such as the AH-64 Apache Helicopter and the</p>





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		High Mobility Artillery Rocket System. The BMS gives the crew greater situational awareness on the battlefield and allows them to tap into the greater firepower provided by the mentioned platforms.
8	Trailblazer (TBZR) <i>[Singapore Army]</i> 	The TBZR counter-mine vehicle pounds the ground to create safe passage. Anti-personnel and anti-tank mines up to 50mm underground are cleared with its automatic computerised flailing system. Its Kinetic Route Indicator System then deploys marker rods along both sides of the cleared path.
9	Mobility 3rd Generation (M3G) <i>[Singapore Army]</i> 	The M3G (Military Float Bridge/Raft) is a high mobility wheeled vehicle that functions as a mobile platform for crossing waterways. It can be configured as a raft or float bridge, carry up to three 5-tonner trucks and manoeuvre in shallow water, and be deployed within 20 minutes. With improved carrying capacity, greater mobility and faster deployment, the M3G enables overall improved mobility for the SAF.
10	Quick Response Vehicle (QRV) <i>[Singapore Army]</i> 	The QRV is a light mode of transport for Chemical, Biological and Radiological Defence responders in operations.
11	Complex Response Vehicle (CRV) <i>[Singapore Army]</i>	<p>The CRV is used by 36th Battalion, Singapore Combat Engineers to tackle a wide spectrum of operations, ranging from Peacetime Preventive Security Sweep to Improvised Explosive Device Disposal operations.</p> <p>It houses all mission essential equipment, including a large-size remote operating vehicle to enable the conduct of operations.</p>

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12	Reconnaissance Bike <i>[Singapore Army]</i> 	<p>The Reconnaissance Bike used by Scouts and RSTA (Reconnaissance, Surveillance, and Target Acquisition) troopers in the SAF are purpose-built for stealth, mobility, and endurance in demanding terrain. Its key role is to support deep infiltration reconnaissance missions where speed, agility and low visibility are essential.</p>
13	High Mobility Artillery Rocket System (HIMARS) <i>[Singapore Army]</i> 	<p>The High Mobility Artillery Rocket System (HIMARS) is a precision weapon system operated by the Singapore Artillery. Highly mobile, it provides the SAF with long-range capabilities with pin-point accuracy.</p> <p>Equipped with the Increased Crew Protection cabin, the HIMARS is designed to protect its three-man operating crew against plume gases, rocket launch debris and small arms fire.</p> <p>Carrying a single pod of six Multiple Launch Rocket Systems rockets, the HIMARS can engage targets as far as 70km away. A full launcher load of six rockets can also be fired within 45 seconds.</p>
14	Singapore Light Weight Howitzer (SLWH) Pegasus <i>[Singapore Army]</i> 	<p>The SLWH Pegasus is a 39 calibre 155mm heli-portable Howitzer designed for long range fire support with self-propelled capabilities. Weighing only 5.4 tons, the SLWH Pegasus is made of lightweight material able to withstand enemy firepower. With its heli-portable abilities, the SLWH Pegasus excels in mobility, firepower, and battlefield survivability. It serves as a key artillery asset of the SAF.</p>
15	Field Howitzer 2000 (FH2000) <i>[Singapore Army]</i>	<p>Enhanced from the FH88, the FH2000 is the world's first 52-calibre howitzer that can be self-propelled. Unlike the manual operation of the FH88, the breech opening</p>




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		operation of the FH2000 is hydro-pneumatic, enhancing the efficiency of the FH2000.
16	Tri Terminal Detachment (TTD) and Subscriber Switch Detachment (SSD) <i>[Singapore Army]</i> 	The TTD and SSD are specialised communications vehicles part of the Digitised Trunk Communications System (D-TCS). The detachments are able to provide high bandwidth data links to enable real-time transmission of voice and data over vast distances. This connects fighting forces in the battlefield to the command headquarters, facilitating the exchange of critical information and establishment of a common operating picture.
17	Wheeled Recovery Vehicle (WRV) <i>[Singapore Army]</i> 	The WRV is a recovery truck with a towing capacity of 35 tonnes, enabling it to secure and recover all wheeled vehicles used by the Singapore Army. It is equipped with a rotator crane that enables improved efficiency and flexibility, allowing a two-man crew to perform recovery operations in tight spaces and from different angles. It is also a dual-action vehicle that can lift and winch concurrently, while being equipped with enhanced safety features. These functions enable the WRV to perform a greater variety of challenging recovery missions more efficiently, even when vehicles are hindered by tough terrain.
18	High Mobility Cargo Transporter (HMCT) (FITC) <i>[Singapore Army]</i> 	The Fully Integrated Transport Container (FITC) variant of the HMCT is designed for modular logistics using containerised payloads. It is a key enabler of the SAF's containerised logistics strategy, supporting rapid deployment and sustainment of forces. Its unique features include (1) an FITC system for plug-and-play logistics; (2) high ground clearance and off-road suspension for terrain versatility; and (3) compatibility with the SAF's Load Handling System for automated container loading/unloading. The FITC enhances the SAF's ability to deploy self-contained logistics nodes, reducing reliance on fixed infrastructure. It supports distribution operations and



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		improves the resilience of supply chains in contested environments.
19	High Mobility Cargo Transporter (HMCT) (Fuel Tanker) <i>[Singapore Army]</i> 	<p>The Fuel Tanker variant of the HMCT is dedicated to fuel distribution in field operations, ensuring sustained mobility for the SAF's mechanised and motorised forces. Its unique features include (1) an integrated fuel management system for accurate dispensing and accountability; (2) a high-capacity tank with safety features such as anti-surge baffles and emergency shut-off valves; and (3) design compatibility with SAF Fuel Stations and commercial refuelling protocols. The Fuel Tanker variant is critical for maintaining operational reach and tempo. It enables forward refuelling of combat and support vehicles, reducing downtime and extending mission endurance in dispersed operations.</p>
20	Combat Ambulance <i>[Singapore Army]</i> 	<p>The F550 Combat Ambulance is a purpose-built medical evacuation platform designed to deliver Advanced Life Support (ALS) in forward areas. It is deployed both as a dedicated ambulance and as a safety vehicle during training exercises. Its unique features include an ALS-equipped patient cabin with stretcher mounts, oxygen systems, and defibrillators, and Dual-battery system to ensure uninterrupted power for medical equipment. The F550 Combat Ambulance enhances survivability by enabling rapid casualty evacuation from the point of injury to field medical stations. Its rugged build and cross-country capability ensure access to remote or contested areas, supporting the SAF's commitment to force protection and medical readiness.</p>
21	Aster 30 Missile System <i>[Republic of Singapore Air Force]</i> 	<p>The Aster 30 Missile System is an all-weather, next generation Ground-Based Air Defence Medium-range Surface-to-Air Missile system that is the latest and an important addition to Singapore's Air Defence Capability. The Aster 30, capable of engaging and intercepting a wide spectrum of air threats, will be integrated into the Republic of Singapore Air Force's indigenously developed Island Air Defence system to greatly enhance our ability to defend Singapore's skies.</p>
22	Surface-to-Air PYthon-5 and DERby (SPYDER)	<p>The SYPDER system was inducted in 2011 and is part of the enhanced Island Air Defence architecture. It is an all-weather air defence system which enhances the RSAF's</p>





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	<p><i>[Republic of Singapore Air Force]</i></p> 	<p>capability to effectively deal with a wide spectrum of aerial threats. The SPYDER is able to deploy both PYthon-5 and Derby missiles which are fitted with infrared imaging and radio frequency seekers to intercept multiple air threats simultaneously with greater precision.</p>
23	<p>Mounted Portable Search and Target Acquisition Radar (MPSTAR)</p> <p><i>[Republic of Singapore Air Force]</i></p> 	<p>The MPSTAR is a two-dimensional radar that provides the air picture to the RBS 70 short-range air defence missile system and Air-Land Tactical Control Centres. The radar is equipped with Identification Friend or Foe, Electronic Counter-Countermeasure features and can detect both fixed wing and rotary wing aircraft. The radar is mounted on a MB290 vehicle for higher mobility and can also be deployed in a dismounted configuration.</p>
24	<p>K-Ster Expendable Mine Disposal System</p> <p><i>[Republic of Singapore Navy]</i></p> 	<p>The K-Ster is a lightweight Expendable Mine Disposal System (EMDS) developed by the French company EXAIL Group. Consisting of two variants, the K-Ster I and K-Ster C, they are designed for underwater mine countermeasures, enabling the neutralisation of sea mines while keeping personnel at a safe distance.</p> <p>Launched from the RSN's <i>Bedok</i>-class Mine Countermeasure Vessel, the K-Ster I is used to identify underwater objects while the K-Ster C is used to neutralise an array of mines, ranging from sea bottom ground mines, floating moored mines, to historical ordnance mines and sophisticated smart mines.</p>
25	<p>Aster 15 Missile</p> <p><i>[Republic of Singapore Navy]</i></p>	<p>The Aster 15 missiles make the RSN's frigate a formidable force in the battlefield. Launched vertically, they provide exceptional air defence, effectively neutralising enemy aircraft and anti-ship missiles at range. With blistering acceleration and unmatched agility, the Aster 15 can engage threats at high speeds with deadly precision. The missile does not just redefine air defence, it brings a whole new meaning to "fast and furious".</p>




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26	<p>Harpoon Missile</p> <p><i>[Republic of Singapore Navy]</i></p> 	<p>With a range exceeding 100 kilometres and equipped with active radar homing, this "fire-and-forget" missile ensures hostile forces have nowhere to hide. Once launched, the Harpoon autonomously tracks and engages its target, providing precision and lethality without requiring further input from the operator.</p>
27	<p>Heavy Weight Torpedo (HWT)</p> <p><i>[Republic of Singapore Navy]</i></p> 	<p>The RSN employs advanced HWTs to enhance its undersea warfare capabilities. These torpedoes are integrated into the RSN's modern submarine fleet.</p>
28	<p>DART Utility Vehicle (DUV)</p> <p><i>[Singapore Civil Defence Force]</i></p> 	<p>The DUV is designed primarily as a troop and equipment carrier. It plays a critical role in supporting the Disaster Assistance Rescue Team (DART)'s specialised operations, which includes urban search and rescue, and high-angle rescues.</p> <p>The DUV also serves as a logistical backbone for DART's deployments, enabling the efficient transportation of rescue personnel and rescue equipment to incident sites.</p>
29	<p>Rescue Dog Tender (RDT)</p>	<p>The RDT is a specialised vehicle used by the SCDF's DART to safely and securely transport Urban Search and Rescue (USAR) dogs and Fire Investigation Dogs to incident sites.</p>


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	<p><i>[Singapore Civil Defence Force]</i></p> 	<p>Equipped with purpose-built compartments, the RDT ensures the canines' readiness for immediate deployment upon arrival. It enhances the rapid deployment of canines in a variety of emergency scenarios, including building collapses, natural disasters, and fire investigations.</p> <p>In overseas deployments under Operations Lionheart, the canines, trained in locating trapped victims under rubble, are essential in search and rescue missions in earthquake zones, collapsed structures, and other major incidents. As part of the SCDF's rescue efforts in the aftermath of the Myanmar earthquake in March 2025, SCDF deployed four search dogs under the Operations Lionheart contingent.</p>
30	<p>DART Rescue Vehicle (DRV)</p> <p><i>[Singapore Civil Defence Force]</i></p> 	<p>The DRV is a specialised asset of the SCDF's elite DART Unit. It enhances operational capability and enables DART to respond to high-angle rescues, collapsed structure interventions, and underwater operations.</p> <p>A purpose-built feature is a compartment which allows the SCDF's DART rescuers to gear up and discuss rescue strategies while in transit to the incident location.</p>
31	<p>6 Tonner</p> <p><i>[Singapore Army]</i></p> 	<p>The 6 Tonner is a core logistics platform in the SAF's Transport Formation, designated under the ETHAN 4x4 series. It is engineered for high mobility and durability across both urban and off-road terrains, supporting a wide range of operational scenarios from peacetime logistics to high-tempo combat support and serving as a backbone for the SAF's ground mobility and sustainment capabilities. Its unique features include an all-terrain 4x4 drivetrain, high ground clearance and robust suspension, which enables mobility across diverse terrain types, including off-road and cross-country routes. The 6 Tonner enhances the SAF's operational flexibility by enabling rapid deployment and resupply. Its reliability and ease of maintenance make it ideal for sustained operations, while its compatibility with the SAF's logistics systems ensures seamless integration into broader mission planning. Within the Transport</p>



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		Formation, it plays a pivotal role in ensuring that frontline units remain mobile, supplied, and mission-ready.
32	Water Purification Unit (WPU) <i>[Singapore Army]</i> 	<p>The Singapore Combat Engineers' WPU provides SAF troops with clean, drinkable water wherever they operate. Powered by a dedicated diesel engine that runs its pump and filtration systems, the self-sufficient WPU produces up to 500 litres of clean water per hour and has been deployed during several disaster relief operations.</p>
33	Military Police Bike <i>[Singapore Army]</i> 	<p>In recognition of their speed and agility, military police bikes are frequently utilised as traffic enforcers for military vehicles, ceremonial escorts at significant state events, and munitions escorts during military operations and training.</p>
34	Tactical Response Motorcycle (TRM) <i>[Singapore Police Force]</i> 	<p>The Rapid Deployment Troops under the Special Operations Command utilise TRMs to rapidly manoeuvre through traffic gridlock and challenging terrain to reach incident sites quickly. The bikes are equipped with blinker lights and sirens to enhance its visibility and alert other road users of its presence. The bikes are also fitted with customised racks to carry riot shields.</p>
35	4th Generation Fire Bike <i>[Singapore Civil Defence Force]</i>	<p>Since its introduction in 1998, the SCDF Fast Response Bike, also known as the Fire Bike, has provided a nimble alternative to conventional firefighting vehicles. Since its inception, the Fire Bike has been instrumental in enabling the SCDF to swiftly respond to fire and medical emergencies, particularly in our urban landscape where narrow roads and heavy traffic can lead to congestion.</p>


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		<p>In 2012, the three-wheeled Fire Bike was introduced to enhance the safety of our responders. It is equipped with a Compressed Air Foam (CAF) backpack, enabling rapid and effective mitigation of small fires such as unattended cooking and vehicle fires. Since its introduction, the SCDF's Fire Bikers have also been upskilled to become Emergency Medical Technicians. This dual response capability allows the SCDF to maximise its resources while remaining lean yet versatile.</p> <p>In 2022, the latest 4th Generation Fire Bike was introduced. It was designed in-house by the SCDF Fire Bike Committee, comprising fire bikers from the frontline units, engineers from the Home Team Science and Technology Agency (HTX) and project officers in the SCDF Operations Department. This new Fire Bike features several enhancements such as a side-mounted CAF backpack for better ergonomics, increased stowage space, an integrated two-tone siren with day and night modes, dual-coloured blinker lights to improve visibility and safety, tyre pressure monitoring system, and a reverse gear function.</p>
36	<p>Traffic Police Motorcycle</p> <p><i>[Singapore Police Force]</i></p> 	<p>The BMW R1250RT-P police motorcycles are used by the SPF's two-wheeler patrol officers for daily patrols and escort duties. The police motorcycle has a white colour scheme accentuated with white, blue and red reflective decals on the side and back. The large aerodynamic windshield shields the officer from the frontal wind pressure and keeps dust and rain away from the officer's eyes. It is enhanced with the use of a loud siren and bright red and blue LED lights mounted at the front, which enable it to manoeuvre through traffic easily. This makes the two-wheeler patrol officers highly adaptable to any traffic conditions, allowing them to attend to emergencies faster than a patrol car during heavy traffic.</p>
37	<p>Peacekeeper Protected Response Vehicle (PRV)</p> <p><i>[Singapore Army]</i></p>	<p>The PRV is the SAF's armoured personnel carrier designed to support servicemen carrying out island defence operations.</p> <p>The PRV's Remote Control Weapon System allows its operators to fire its single weapon – either the 40mm Automatic Grenade Launcher, the 12.7mm Heavy Machine</p>



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		<p>Gun, or the 7.62mm Coaxial Machine Gun – from inside the vehicle.</p>
38	<p>Next-generation Fast Response Car (NGFRC) <i>[Singapore Police Force]</i></p> 	<p>The NGFRC is purpose-built with various advanced systems to assist Police officers in their daily duties. The Integrated Vehicular Dashboard provides officers with seamless control of all the technological functions in the car. An In-Vehicle Video Recording System provides live streaming of high-resolution video footage to the Police Operations Command Centre that allows for better sense-making and incident management. The Automated Number Plate Recognition system detects vehicles-of-interest whether on the move or in stationary position, without officers having to divert their attention from other ongoing tasks. It also provides automatic screening of vehicles, removing the need for manual screening.</p>
39	<p>Emergency Response Team (ERT) Vehicle <i>[Singapore Police Force]</i></p> 	<p>The ERT officers operate a Sports Utility Vehicle (SUV) that is fitted with custom modifications such as concealed strobe lights, blinkers, siren, communication and public announcement systems. These modifications help the ERT to alert road users of its presence and to clear a path for officers to proceed to the scene safely and swiftly.</p>
40	<p>Traffic Police Expressway Patrol Car (TP EPC) <i>[Singapore Police Force]</i></p> 	<p>The TP EPC is used to attend to road traffic incidents and conduct enforcement operations. The EPC's chevron markings and highly reflective orange stickers enhance its visibility on the roads. It is equipped with low-profile LED lights mounted on the roof and front engine grille of the car so that it stands out from other motor vehicles, ensuring safe and effective conduct of traffic enforcement operations. Located beneath the rear windscreen is a retractable variable messaging board that displays warning or advisory messages to ensure the safety of other road users. Its new public announcement siren system incorporates a rumbler that emits a low-frequency sound wave that can penetrate solid materials to warn obstructing drivers with a vibration sensation.</p>



<u>S/N</u>	<u>Name of Asset</u>	<u>Description</u>
41	<p>Armoured Personnel Carrier (APC)</p> <p><i>[Singapore Police Force]</i></p> 	<p>The APC is primarily used by the Gurkha Contingent for special operations and to manage public order incidents. It is equipped with customised equipment such as armoured protection, run flat tyres, windscreen paint remover, overpressure system and gun port. This vehicle has been specially designed to allow the troops to tackle violent riots and restore order quickly, while keeping the troops safe.</p>
42	<p>Tactical Vehicle (TAV)</p> <p><i>[Singapore Police Force]</i></p> 	<p>The TAV is purpose-built to enhance the Police Tactical Unit's capabilities when responding to both Public Order and Public Security incidents. The TAV's windows and windscreen are covered by wire mesh for protection against projectiles and it is equipped with blinkers, strobe lights and sirens to enhance its presence.</p>
43	<p>Electric Pump Ladder (E-PL)</p> <p><i>[Singapore Civil Defence Force]</i></p> 	<p>The SCDF's Electric Pump Ladder (E-PL) is the world's first fully electric pump ladder.</p> <p>Being the first country in Southeast Asia to operate such a vehicle, the E-PL is a result of collaboration between the Singapore Civil Defence Force, HTX, and Rosenbauer. The electrification of vehicles exemplifies the SCDF's dedication to improving operational efficiency and effectiveness while prioritising sustainability.</p> <p>Equipped with an Energy Backup Unit, the E-PL can travel about 100 kilometres in full electric mode and an additional 500 kilometres in hybrid mode. The vehicle features a fully digitalised platform with robust connectivity that enhances response coordination, allowing responders manage all functions using a tablet. Its low centre of gravity and balanced axle load distribution also offer greater stability than vehicles of similar size when navigating corners.</p> <p>The E-PL also offers exceptional manoeuvrability, with a shorter length as compared to other generations of Pump Ladders. This enhances its agility in navigating tight spaces</p>




<u>S/N</u>	<u>Name of Asset</u>	<u>Description</u>
		<p>such as car parks, congested roads and narrow alleyways. Additionally, its all-wheel steering function enables the E-PL to have a much smaller turning radius and even be driven in “crab steering” mode, allowing diagonal movement.</p> <p>The E-PL is designed with a spacious cabin and height-adjustable chassis to facilitate faster ingress and egress of firefighters.</p> <p>The E-PL is equipped with the Modular Firefighting Machine (MFM), which allows for remote firefighting and minimises risk to our responders. The MFM can also be rapidly configured to function as a logistics support platform, casualty conveyance platform, or an offsite hazardous materials monitoring platform when sensors are installed.</p>
44	<p>6th Generation Pump Ladder (PL6G)</p> <p><i>[Singapore Civil Defence Force]</i></p> 	<p>The PL6G is one of the latest additions to the SCDF’s arsenal of firefighting vehicles. Together with the E-PL, the PL6G is engineered to meet the evolving demands of urban firefighting and rescue operations while integrating advanced technologies with enhanced safety features in delivering unparalleled operational effectiveness.</p> <p>The PL6G features an Ultra-High-Pressure System (UHPS) for enhanced cutting and extinguishment capabilities. This enables firefighters to rapidly breach locked doors and vehicle exteriors, facilitating quick access to trapped victims or hidden fire pockets.</p> <p>Furthermore, the PL6G utilises environmentally sustainable Fluorine-Free Foam, which allows foaming operations to be conducted without releasing harmful PFAS chemicals into the environment.</p> <p>The new PL6G is equipped with a suite of IoT sensors that provide real-time monitoring of key data points, such as water, foam and fuel usage. This data is analysed to optimise operational performance.</p>
45	<p>6th Generation Light Fire Attack Vehicle (LF6G)</p>	<p>First introduced in 2000, the Light Fire Attack Vehicle (LFAV), or more affectionately known as the Red Rhino, was conceptualised and designed in-house by the SCDF to</p>

S/N	Name of Asset	Description
	<p data-bbox="296 427 501 495"><i>[Singapore Civil Defence Force]</i></p> 	<p data-bbox="639 389 1401 573">address the challenges posed by highly urbanised Singapore with narrow streets and closely built buildings. It is also designed to draw water from Singapore’s comprehensive network of hydrants for firefighting purposes.</p> <p data-bbox="639 622 1401 965">The latest generation LFAV (LF6G) is equipped with the second generation of the Red Rhino Robot (3R 2.0). Weighing approximately 172 kilograms, the 3R 2.0 features a monitor with a throw capacity of 30 meters and an output of 945 litres per minute. The 3R 2.0 can be controlled remotely, allowing firefighters to operate from a safe distance. It is designed to be more compact and manoeuvrable, with modular attachments for casualty transportation and equipment transport.</p> <p data-bbox="639 1014 1401 1198">The LF6G is equipped with a fully integrated Compressed Air Foam (CAF) pump system. The CAF can extinguish fire four times faster while using 70% less water, thereby effectively minimising water damage to property during firefighting operations.</p> <p data-bbox="639 1247 1401 1431">In addition, the LF6G also carries a fire blanket that can be used to contain vehicle fires and prevent its spread to nearby cars or facility. Used in tandem with water jets, this helps to effectively “suffocate” the fire and aid in rapid extinguishment.</p>
46	<p data-bbox="296 1442 568 1509">Fire Medical Vehicle (FMV)</p> <p data-bbox="296 1559 501 1626"><i>[Singapore Civil Defence Force]</i></p> 	<p data-bbox="639 1442 1401 1547">The FMV is a versatile first-response vehicle, representing a hybrid of a fire engine and an ambulance, specifically designed for both fire-rescue and medical emergencies.</p> <p data-bbox="639 1597 1401 1939">By integrating firefighting equipment, including a pump system, with a fully equipped ambulance cabin, the FMV is able to respond to a range of emergencies such as industrial accidents and road traffic accidents. The FMV enables firefighters, who are also trained Emergency Medical Technicians, to stabilise patients on-site and can serve as a form of transport for conveyance to hospital when necessary. Its compact and agile design allows the FMV to navigate Singapore’s dense city landscape swiftly.</p>




<u>S/N</u>	<u>Name of Asset</u>	<u>Description</u>
		<p>The FMV carries a crew of four and can accommodate up to three casualties. The fire pump is located behind the driver's cabin, while the rear cabin contains a stretcher, four seats, and medical equipment.</p> <p>The design reflects its dual purpose, with red used for firefighting compartments and white for medical compartments. Its practical layout and specialised crew make it an effective first-response vehicle for smaller-scale emergencies.</p>
47	<p>7th Generation Ambulance</p> <p><i>[Singapore Civil Defence Force]</i></p> 	<p>As part of the SCDF's transformation efforts, the SCDF's 7th Generation Ambulance is designed to tackle both present and future pre-hospital emergency challenges. To serve a fast-aging population and manage more complex medical cases, the ambulance's capabilities are future-proofed to operate more efficiently and effectively.</p> <p>The ambulance is designed with various advanced features to tackle pre-hospital emergency challenges of the future, such as:</p> <ul style="list-style-type: none"> • An automatic decontamination system for rapid and effective sanitisation of the ambulance and equipment after conveying infectious patients, thus being more prepared for future pandemics. • The use of solar-power and intelligent charging to increase operational readiness and flexibility, especially for off-site dynamic deployments. • Modular systems which allow for flexibility in deployments and an electronically controlled loading and unloading system for stretchers for improved operator's ergonomics.
48	<p>Mass Decontamination Vehicle (MDV)</p> <p><i>[Singapore Civil Defence Force]</i></p>	<p>The MDV is a multi-functional platform strategically designed for hazardous material (HazMat) emergencies. Designed to be mobile, versatile and self-contained, the MDV enhances the SCDF's operational capabilities during chemical incidents by providing rapid decontamination and casualty conveyance capabilities. It performs three key roles: mass decontamination of personnel, casualty conveyance, and personnel and equipment transport.</p>





S/N	Name of Asset	Description
		<p>Mass Decontamination Mode:</p> <ul style="list-style-type: none"> • The MDV is equipped with eight interior shower cubicles for mobile casualties and four external lying-down showers for immobilised casualties. • Each shower cubicle features an intuitive, pictorial interface. • All contaminated water is efficiently collected and pumped into two berm bags, each with a capacity of up to 3,000 litres. <p>Casualty Transport Mode:</p> <ul style="list-style-type: none"> • The MDV can carry up to 12 casualties using a secure two-deck stretcher system. • The stretchers are equipped with locking mechanisms to ensure safe conveyance. <p>Personnel and Equipment Transport Mode:</p> <ul style="list-style-type: none"> • The MDV can be rapidly reconfigured to transport up to 27 responders to an incident site, along with the essential equipment.
49	<p>HazMat Mitigation Vehicle (HMV)</p> <p><i>[Singapore Civil Defence Force]</i></p> 	<p>The HMV is equipped with a comprehensive suite of HazMat detection and mitigation equipment, enabling effective response to a wide range of hazardous materials incidents. The SCDF's HazMat specialists, who are located in selected Fire Stations, will respond in the HMV as the HazMat Incident Team (HIT).</p> <p>Upon confirmed detection of hazardous agents in the incident area, the HazMat specialists utilise sophisticated equipment for containment and mitigation of the hazardous source, rendering the area safe through methods such as neutralising, containing, sealing or dispersing the HazMat.</p> <p>The HMV is equipped with a HazMat Utility Buggy, facilitating the swift evacuation of casualties and the efficient transportation of equipment and manpower to and fro an incident site.</p>
50	<p>Combined Platform Ladder 34 (CPL34)</p>	<p>The CPL34 represents a major advancement in the SCDF's aerial firefighting and rescue capabilities. Building upon the strengths of its predecessor, the CPL32, the current</p>

<u>S/N</u>	<u>Name of Asset</u>	<u>Description</u>
	<p data-bbox="295 385 502 459"><i>[Singapore Civil Defence Force]</i></p> 	<p data-bbox="638 385 1401 497">CPL34 offers greater reach, increased load capacity, and enhanced operational control, making it a highly effective asset for managing complex high-rise incidents.</p> <p data-bbox="638 542 1401 728">The CPL34 is equipped with a ladder that extends up to 34 metres, equivalent to an 11-storey building. Its rescue cage has been strengthened to support up to 500 kilograms, allowing for the safe transport of multiple casualties or rescuers during height rescue operations.</p> <p data-bbox="638 772 1401 1079">In addition, the vehicle now features a fully integrated electronic control system for the deployment of its outriggers, allowing for faster, more precise stabilisation and enhanced safety at the incident site. The CPL34 is also fitted with a modern display panel that provide operators with real-time vehicle positioning data during deployment, significantly improving situational awareness and overall operational safety.</p> <p data-bbox="638 1124 1401 1348">For firefighting operations, the CPL34 is equipped with a high-performance water monitor capable of discharging 3,800 litres per minute. This combination of high-volume water discharge capability, extended reach and advanced control systems allows the CPL34 to respond swiftly and effectively to high-rise and industrial fires.</p>
51	<p data-bbox="295 1361 566 1473">Fire and Rescue Operations Support Tender (FROST)</p> <p data-bbox="295 1518 502 1590"><i>[Singapore Civil Defence Force]</i></p> 	<p data-bbox="638 1361 1401 1505">Since its operationalisation in 2016, the FROST has strengthened the SCDF's operational readiness, providing enhanced support capabilities through a streamlined and modernised vehicle.</p> <p data-bbox="638 1550 1401 1818">The FROST carries a comprehensive suite of equipment, including breathing apparatus sets, ventilation systems, search equipment, and damage control tools to provide support for firefighters engaged in firefighting and rescue operations. This allows the SCDF to deploy its resources more flexibly and respond more swiftly to complex fire and rescue incidents.</p>
52	<p data-bbox="295 1843 558 1915">Forward Command Vehicle (FCV)</p> <p data-bbox="295 1960 502 2031"><i>[Singapore Civil Defence Force]</i></p>	<p data-bbox="638 1843 1401 1998">The FCV is a critical addition to the SCDF's fleet, designed to bring command and control capabilities directly to the frontline of major incidents. Deployed for major incidents, the FCV serves as a mobile headquarters for mission</p>

S/N	Name of Asset	Description
		<p>planning, decision-making, and real-time incident monitoring, led by the SCDF Division Commanders.</p> <p>A prominent video wall inside the FCV provides commanders with a consolidated overview of the incident, enhancing situational awareness and enabling faster, better-informed decisions. Multiple workstations can also be configured within the vehicle to support collaborative discussions and coordinated planning.</p> <p>With these enhancements, the FCV significantly boosts the SCDF's operational effectiveness, providing commanders with a mobile, flexible, and well-equipped platform to lead complex emergency operations on the ground.</p>
53	<p>Bionix</p> <p><i>[Singapore Army]</i></p> 	<p>Armed with a small-calibre cannon and machine guns, the Bionix has a speed of up to 70 kilometres per hour and utilises a hydro-pneumatic suspension system, giving it a smoother ride and better traversing capability, especially over obstacles such as trenches. It is equipped with a network-enabled digital Battlefield Management System (BMS) that enables the prompt sharing of information about locations and movements of friendly and enemy forces in a fully networked environment. The BMS onboard the Bionix will enable the command headquarters to coordinate the employment of various sensor and strike assets such as Unmanned Aerial Vehicles, the Primus Self-Propelled Howitzer, and the Bronco Mortar Tracked Carrier.</p>
54	<p>Dive Support Vehicle (DSV)</p> <p><i>[Republic of Singapore Navy]</i></p> 	<p>The DSV is custom-built to better support the RSN's clearance diving operations on-site. It includes essential features like built-in charging facilities for diving cylinders and a winch recovery system to recover heavy and bulky items from the sea. In addition, the vehicle also comes pre-loaded with equipment such as Side Scan Sonar, Remote Operated Vehicle and Electronic Mixed Gas Rebreather Diving Sets to deal with longer and more complex clearance diving operations.</p>


4. Assets participating in the aerial flypast, arranged in order of appearance, include:




S/N	Name of Asset	Description
1	A330 Multi-Role Tanker Transport (MRTT) <i>[Republic of Singapore Air Force]</i> 	<p>The A330 MRTT is a next-generation tanker aircraft capable of conducting Air-to-Air Refuelling (AAR) and airlift roles simultaneously. The A330 MRTT has better endurance, cargo and passenger capacity, and provides more fuel to other aircraft compared to the KC-135R aerial tankers. Its AAR capability allows the RSAF to extend the endurance of our fighter aircraft to safeguard our skies, and enables the RSAF to be more effective and capable in meeting our operational demands. In addition, the platform provides the RSAF with greater operational flexibility and enhances Singapore's ability to contribute to international Humanitarian Assistance and Disaster Relief missions and Peace Support Operations.</p>
2	F-16 <i>[Republic of Singapore Air Force]</i> 	<p>The F-16 is a multi-role tactical fighter aircraft with full air-to-air and air-to-surface capabilities. The aircraft features modern core avionics, Common Colour Multi-Function Display, sophisticated radar, smart weapon compatibility and state-of-the-art navigation and targeting systems.</p>
3	Gulfstream 550 – Airborne Early Warning (G550-AEW) <i>[Republic of Singapore Air Force]</i> 	<p>The G550-AEW replaced the E-2C to provide airborne early warning. It is equipped with Active Electronically Scanned Array radar, and is able to detect, track and identify aerial targets from a longer range than its predecessor. This allows the RSAF to identify potential aerial threats early and respond decisively, in peace and war.</p>
4	S-70B Seahawk <i>[Republic of Singapore Air Force]</i>	<p>With its state-of-the-art avionics, mission systems and cockpit, the Sikorsky S-70B Seahawk naval helicopter is one of the world's most advanced naval helicopters. The S-70B is integrated to the RSN's Formidable class Stealth Frigates and operates as an integral unit in the conduct of Anti-Surface Warfare and Anti-Submarine Warfare missions.</p>


S/N	Name of Asset	Description
		
5	AH-64D Apache Attack Helicopter <i>[Republic of Singapore Air Force]</i> 	<p>The AH-64D Apache Attack Helicopter is a multi-mission helicopter, designed to fight and survive in day, night and adverse weather conditions. It is the first tandem-seat helicopter in the RSAF, with the pilot located in the rear seat and co-pilot in the front seat. The AH-64D Apache is equipped with a highly sophisticated Fire Control Radar, which gives it the ability to detect, classify and prioritise stationary and moving targets both on the ground and in the air.</p>
6	H225M Medium Lift Helicopter <i>[Republic of Singapore Air Force]</i> 	<p>The H225M Medium Lift helicopter is a modern multi-role helicopter with a high load capacity, easy cabin access, combined with fast cruise speed, long range and in-flight agility. The H225M helicopter provides the flexibility needed for the RSAF to be more effective and capable in meeting operational demands, inclusive of operations such as Search and Rescue, aeromedical evacuation and Humanitarian Assistance and Disaster Relief operations.</p>
7	CH-47SD/F Chinook <i>[Republic of Singapore Air Force]</i> 	<p>The CH-47SD/F Chinook is a tandem rotor helicopter fitted with a triple hook system. It is employed for various roles such as Search and Rescue operations, casualty evacuation, troop lift, firefighting, para-jumping and internal/underslung cargo transport. Besides supporting the SAF's operational requirements, the Chinooks have also been deployed for numerous Humanitarian Aid and Disaster Relief missions.</p>
8	F-15SG <i>[Republic of Singapore Air Force]</i>	<p>The F-15SG is an all-weather multi-role fighter. Equipped with the latest technological upgrades, it is one of the most capable and lethal multi-role aircraft in the world. Featuring the state-of-the-art cockpit and advanced avionics, including the Joint Helmet Mounted Cueing System, the F-15SG provides the Pilot and Weapon Systems Officer</p>

S/N	Name of Asset	Description
		(Fighter) with increased situational awareness, as well as enhanced air-to-air and self-defence capabilities.
9	C-130 Hercules <i>[Republic of Singapore Air Force]</i> 	The C-130 Hercules is a four-engine turboprop military transport aircraft employed by the RSAF for a wide range of missions. It has been deployed to support the SAF's operational requirements, including numerous Humanitarian Aid and Disaster Relief as well as Search and Locate missions.
10	Fokker-50 UTA/MPA <i>[Republic of Singapore Air Force]</i> 	The Fokker-50 is a twin-engine propeller aircraft employed by the RSAF for a wide range of missions. Together with the RSN, the Fokker-50 provides maritime air surveillance and protects the seaward defence and sea lines of communication of Singapore. The Fokker-50 has also been deployed in numerous Humanitarian Assistance and Disaster Relief as well as Search and Locate missions.

5. Assets participating in the maritime display at the Bay, arranged in order of appearance, include:

S/N	Name of Asset	Description
1	Combatant Craft Medium (CCM) <i>[Republic of Singapore Navy]</i> 	<p>The CCM is a rigid hull inflatable boat operated by the Naval Diving Unit.</p> <p>The CCM is approximately 11 metres long and is powered by two inboard engines. It was designed to prosecute a wide spectrum of operations including Maritime Security Operations and Counter-Piracy Operations. It can carry up to 12 troops and achieve speeds of up to 40 knots.</p>

S/N	Name of Asset	Description
2	<p>Maritime Security Unmanned Surface Vessel (MarSec USV)</p> <p><i>[Republic of Singapore Navy]</i></p> 	<p>The MarSec USV enhances maritime security, particularly in the busy Singapore Strait. These autonomous vessels are equipped with advanced technologies such as Collision Detection and Collision Avoidance systems, electro-optics, radar, and a public announcement system, enabling them to conduct surveillance, maritime interdiction, and prolonged patrol missions without a crew. Built for endurance and agility, the MarSec USV can operate autonomously for extended periods and perform complex navigation in congested waters. With an endurance time greater than 36 hours, a top speed in excess of 25 knots and the ability to be operated remotely by a two-man crew, it represents a key step in integrating unmanned systems into Singapore's maritime defence strategy.</p>
3	<p>3-Series PC Class Patrol Craft</p> <p><i>[Singapore Police Force]</i></p> 	<p>The 3-series PC Class Patrol Craft is designed for interception operations, boarding and search of vessels and emergency rescue operations.</p> <p>The patrol craft operates in shallow waters and is capable of achieving speeds in excess of 50 knots. Its key features include an outboard propulsion system for high performance and ease of maintenance, and enhanced hull design for speed, agility and endurance in rough sea conditions.</p>
4	<p>Maritime and Port Authority of Singapore (MPA) Patrol Craft</p> <p><i>[Maritime Port and Authority of Singapore]</i></p> 	<p>The MPA's next-generation 15-metre patrol craft is built for maritime enforcement and emergency response.</p> <p>Its advanced onboard systems enable seamless communication with the MPA's shore-based command centres, improving situational awareness and operational control.</p> <p>The vessel is equipped with a rescue boat for a man-overboard recovery, towing capabilities for small craft, and a dispersant spraying system for rapid oil spill response – making it a versatile, high-performance asset for safeguarding Singapore's maritime domain.</p>
5	<p>Rapid Response Fire Vessel (RFV) – White Swordfish</p>	<p>The SCDF's RFV represents a crucial component of Singapore's Marine firefighting and emergency response capabilities. It is specifically designed to respond swiftly to maritime emergencies in Singapore's waters, including</p>

S/N	Name of Asset	Description
	<p data-bbox="296 387 501 456"><i>[Singapore Civil Defence Force]</i></p> 	<p data-bbox="638 387 1410 456">fires, chemical spills, and rescue operations. Currently, there are three RFVs in the SCDF Marine Division.</p> <p data-bbox="638 506 1410 689">The RFV is equipped with an innovative Launch and Recovery System, which allows the crew to quickly deploy an inflatable rescue boat for rescue missions in shallow waters, such as in beaches and reefs less than one metre in depth.</p> <p data-bbox="638 739 1410 884">The RFV can respond swiftly to ship fires, reaching speeds of over 40 knots with its water jet propulsion. It features powerful firefighting monitors with a throwing capacity of 83 metres at an output of 5,000 litres per minute each.</p>

6. To bring the Mobile Column closer to spectators at the Padang, selected assets will enter the Padang show centre during the drive-past. These assets include:

- Terrex ICV
- LSV
- SSD
- WRV
- SPYDER
- Aster 30
- PRV
- TP EPC
- TAV
- LF6G
- H MV
- FROST

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