

CONNECTED FIREFIGHTERS = SAFER COMMUNITIES ACROSS NSW



REMOTE PILOTED AIRCRAFT SYSTEMS (RPAS)

- RPAS (drones) provide images and data in 'real-time' to assist firefighters with improved situational awareness and decision making. New RPAS capabilities includes HAZMAT chemical and gas detection, ground-penetrating radar and aerial incendiary (ignition spheres) delivery system.
- The accurate delivery of the ignition spheres by drone provides enhanced bushfire preparedness and greater safety for firefighters and the community.

MOBILE COMMAND CENTRE (MCC) UPGRADE

- Upgrades to the MCCs include a full replacement of IT and communications to provide Incident Management Teams (IMT) with the facilities and technology needed to direct complex activities during major emergencies and events.
- Advanced technology in the MCCs provides valuable, real-time information for the critical decision-making and coordination needed for the response teams involved, often across multiple emergency services agencies.



CELL ON WHEELS (CoWs)

- CoWs are rapid response vehicles that provide power, radio and internet communications to support emergency response and recovery in areas with no coverage. Advancements include ground-breaking "Mesh" technology, capable of extending communication deeper into areas where coverage is often not achievable such as tunnels, underground and inside buildings.
- This technology ensures emergency services personnel have the power and communications equipment they need to remain operational in difficult circumstances.

VEHICLE AS A NODE (VaaN)

- VaaN provides critical communications, Advanced Vehicle Location (AVL) and telemetry technologies.
- The cutting-edge, highly resilient communications technology enables firefighters to continue using radios and hand-held devices anywhere and at any time through 4G and satellite.
- AVL technology allows the closest fire truck to respond to an emergency, and improves the safety of the crew through continual visibility of vehicle location.
- Telemetry technology remotely checks that fire trucks are mechanically sound and ready for emergency response.



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VEHICLE RADIO REPLACEMENT

- New radios provide the ability to communicate directly with other emergency services, including NSW SES and RFS. This is critical during large-scale or complex emergencies, especially in bushfires.
- Radios can also access the expanded Government Radio Network (GRN), are Wi-Fi enabled for remote servicing and upgrades, and able to access the 4G and satellite communications provided through Vaan.

PORTABLE RADIO REPLACEMENT

- New radios provide dual-band capability, and interoperability with partner emergency services agencies to facilitate information sharing and improved safety.
- Radios can access the expanded GRN, are Wi-Fi enabled for remote servicing and upgrades and have access to 4G and satellite communications.



TWO WAY PAGERS

- The new system provides coverage across both paging and 4G networks, ensuring on-call firefighters can be notified of incidents even if one network is down or congested.

MOBILE DATA TERMINALS (MDTs) + ADASHI LAPTOP UPGRADES

- MDTs are fitted in each fire truck to provide firefighters with live access to critical information about an emergency (e.g. Triple Zero call details and advanced mapping).
- Crews use the information provided through the MDTs to plan and prepare their response ahead of their arrival; helping to resolve emergencies as quickly and safely as possible.
- ADASHI is a specialist tool from the USA that supports commanders to plan and execute an incident response for any type of emergency from a house fire to a large scale disaster.

