

Fujitsu's Digital Police Car of the Future

FUJITSU



A co-creation initiative by Fujitsu Australia and Kia Motors
Australia

Integrated – AI Enhanced - Digital Police Car

October 2019

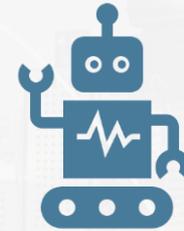
Co-creation



We use a **consultative approach** with clients to start with their business challenge and co-create or co-design a solution together.



We work together **co-operatively** with clients to design and implement innovative IT solutions, personalised to improve and transform their business.



We are technology agnostic, but have experience with implementing **AI, IoT, blockchain and more**, to deliver transformational outcomes.

Industry issues seen by Police

- Move away from Multi-supplier – Multi tech vehicle creates inefficiency
- Push for higher level of integration into the vehicle
- Enhance officer security (Airbag, Compliance, Crash, simplified interaction with systems)
- Simplify installation and removal of vehicle equipment
- Minimise damage to vehicle during installation / removal
- See smarter solutions coming from industry
- Mobility and Communication is a key focus
- Reduce Power draw on vehicle systems
- NO point solutions moving forward - FORCE MULTIPLIER

NSWPF – Vehicle Fit-Out Today



Source abc.net.au



Source abc.net.au



Source abc.net.au

Integrated vehicle experience

- Fujitsu's Digital Police Car of the Future
 - Advanced vehicle ecosystem of partner technologies
 - Software based Integrating platform to link disparate technologies
 - Removing surplus, software, hardware and cabling from vehicle
 - Reduced cost of install and de-install and providing a cleaner safer cabin for officers



Mounting the Solution



The Development Vehicle

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Embedding Biometrics

- Removal of up to 7 logins
- Natural Position for Palm
- Locking mechanisms for Police Sensitive items:
 - Weapons locker
 - Evidence locker
- Add fingertip action buttons for device control



Lightbar Integration



- Remove Excess Bracketry cost
- Modular Configuration
- 1 umbilical instead of 9 separate cables
- Less invasive install
- Cameras at more appropriate height for ICV evidence



HUD Integration and Voice Trigger



Radar: Irritating Doppler Tone



Emergency Lights: Complex control pad



Running radar on a busy highway.

100 km/h 128 km/h

Remove irritating doppler audio and integrate radar into HUD

Artificial Intelligence to the Edge



A.I Development examples



Integrated Vehicle Experience



BodyWorn Video Integration



Infotainment Control



Number Plate + vehicle Type



Head-up Display



A.I



Programmable Dash



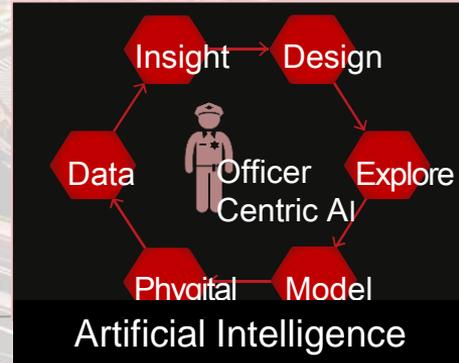
Streamlined Edge Compute



Biometric enabled



Video Analytics



Artificial Intelligence

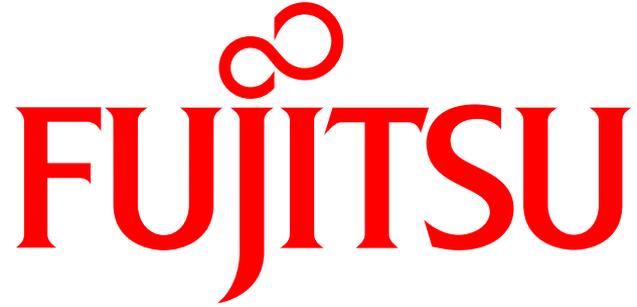
The Market as we see it

Police is just the beginning of the solution



Benefits to Police / Corporate

- Turn Key Solution
- Integration of Individual Components into cohesive ecosystem
- Reduction of install cost
- Reduction of de-install cost
- Officer Safety
 - Elimination of Airbag and ADR issues in from of Vehicle
 - No PC/Screen blocking Aircon and critical vehicle controls
 - Utilise Infotainment, HUD and Dash to display appropriate information
- Reduction in power draw on vehicle
- Security of Police Equipment and Data



shaping tomorrow with you