

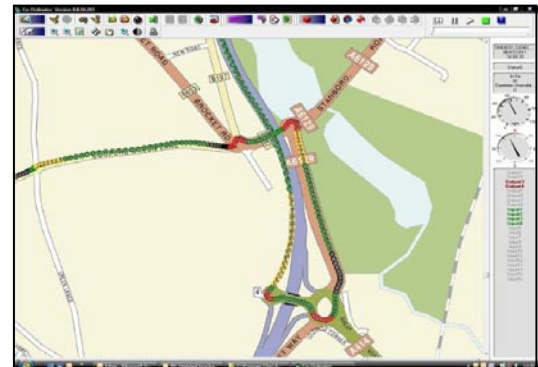


INCA DVMS provides a means for the fleet operator to help their drivers reduce costs and to promote safety on the roads.

The system is designed from the outset to be compliant with the **national UK police fleet management strategy** for promoting improvements in driver behaviour. DVMS monitors key parameters in the vehicle using accelerometers, OBD2 and CAN, delivering the right information to the right place at the right time. This allows the Fleet Manager to implement effective and measurable improvements without the need for significant business process change. All standard INCA functionality is available in the system.

Real time reports provide the driver, the team, the division and district, and importantly the workshop manager, with the information they need to identify potential problems quickly and take the appropriate corrective actions.

Real time map visualization highlights hot spots where driving could be improved. Locations known to be prone to harsh braking or cornering can be identified and drivers prepared in advance.



Improvements and Savings are made through reducing fuel consumption and vehicle maintenance costs.

Driver	mpg (est)	fuel	harsh braking	harsh cornering	harsh acceleration	excess speed	idle	rpm	tyres	brakes	engine
Driver 01	88	3	0	0	0	0	0	0	0	0	0
Driver 02	237	3	0	0	0	0	0	0	0	0	0
Driver 03	71	1	0	0	0	0	0	0	0	0	0
Driver 04	49	1	0	0	0	0	0	0	0	0	0
Driver 05	226	2	0	0	0	0	0	0	0	0	0
Driver 06	147	2	0	0	0	0	0	0	0	0	0
Driver 07	52	1	0	0	0	0	0	0	0	0	0
Driver 08	26	1	0	0	0	0	0	0	0	0	0
Driver 09	73	3	0	0	0	0	0	0	0	0	0
Driver 10	139	6	0	0	0	0	0	0	0	0	0
Driver 11	138	2	0	0	0	0	0	0	0	0	0
Driver 12	247	4	0	0	0	0	0	0	0	0	0
Driver 13	1	1	0	0	0	0	0	0	0	0	0
Driver 14	478	26	0	0	0	0	0	0	0	0	0
Driver 15	59	6	0	0	0	0	0	0	0	0	0
Driver 16	162	2	0	0	0	0	0	0	0	0	0

Metric	Fuel / CO2	Safety	Tyres	Brakes	Engine
Acceleration	✓	✓	✓		✓
Braking		✓	✓	✓	
Cornering		✓	✓		
RPM	✓	✓			✓
MPG	✓				
Excess speed	✓	✓	✓	✓	✓



Real time feedback to the driver is provided indicating where improvements could be made to driving style, factors that are often imperceptible to the driver themselves, but which could save on fuel consumption or vehicle wear.

Red/Amber/Green indicators make the information clear to the driver. Distraction is kept to the essential minimum.



Smart-phone driver display

Off the shelf devices with a browser such as iPhone, Android or BlackBerry smartphones can be used to display the driver information. Alternatively it can be integrated into the Mobile Data Terminal browser. This makes good use of existing vehicle displays and devices to simplify deployment and reduce cost. Secured Wi-Fi can be used for internal networking to reduce wiring and also allows passengers such as supervisors or tutors to connect and receive live information simultaneously.

Compatibility between vehicles is achieved by sensing information that is commonly available across all types of modern vehicle.

This enables meaningful benchmarking and comparison of drivers, vehicles and teams. The system is upgradable to accept additional feeds of data using emerging standards such as the police ES-CAN when available.

Specialist CAN channels from specific vehicle types can be incorporated on a bespoke basis to provide deeper insight into the vehicle's performance.

Driver Identity is established through a contactless smart card, identity tag, contact button or PIN keypad.

INCA 2 tracking and vehicle telematics is APD's end to end application platform for translating data into information, designed for the emergency services and demanding public and commercial sectors.

- INCA 2: Professional vehicle tracker, router and multi bearer communications device
- Co-Ordinator AVLS: Server infrastructure supporting long term warehousing of business critical tracking and telemetry data.
- Co-Ordinator Clients: Browser based and thick client mapping providing visualization of the fleet.
- Co-Ordinator Reports: Journey analysis, driver behaviour, fleet utilisation, and automatic distribution of actionable intelligence and alerts.

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