Smart Transport

Smart Transport is an advanced service aimed at providing an innovative, continuous service relating to different modes of transport and traffic management. This enables users to be better informed and make safer, more coordinated, and 'smarter' use of transport networks.

Behind the scenes of a Smart Transport service is the control and back office function. These technologies include calling for emergency services when an accident occurs, using cameras to enforce traffic laws, variable messaging signs that mark speed limit changes, depending on conditions. To create this smarter way forward also requires a lot of additional products and services all working seamlessly, traffic sensors and Automatic Number Plate Recognition (ANPR) with the back office systems to control it all including automatic car parking and charging. EV chargers to promote cleaner vehicles.

All of this work will bring with it Big Data that will require management to process and give the correct information, while using AI to deep dive into the data. Communication between the IoT devices will have to be of the highest standard and will be a mixture of cable and wireless, traffic and movement control would fail if the communication is lost. Even as far as the ANPR activated car park would need to communicate with a database to confirm entry.

Road transport, including infrastructure, vehicles and users, and in traffic management and mobility management, as well as for interfaces with other modes of transport. Smart may improve the efficiency of transport in a number of situations but in the end it is about making the transport of citizens easier and more efficient that will carry with it the additional benefit of being environmentally friendly.

Benefits of Smart Transport

Whether designing new services or adapting existing ones, Smart Transport can bring benefits for individuals, communities and governments:

- Reduce congestion
- Improved environmental outcomes
- Reduced pollution levels across communities
- Reduced energy usage
- Improved mobility for citizens
- Data based decision making
- Enhanced citizen engagement
- Improved infrastructure
- Improved life quality
- Revenue generation
- Increased digital equity

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Information and Security Guidance

These solutions are not without risks which must be mitigated by a Smart customer. Smart information can be vulnerable and exploited for espionage, financial or political gain by malicious threat actors: nation states, cyber criminals, hacktivists, insiders or terrorists.

CCS is committed to helping ensure that you can safely invest in and procure Smart technologies in a safe way.

CCS advises you to you to use the guidance available at the **NCSC website** to support your decision-making, and manage the risks around the cyber security of the services you are purchasing. In addition, if you have any specific smart procurement queries, you can contact Andrea Fitzgerald (andrea.fitzgerald@crowncommercial.gov.uk) at CCS who can provide bespoke advice and guide you to cyber secure commercial solutions.

Examples of Smart Communities in Action

Cambridge is upgrading the transport information it provides to citizens using Smart Technology. This includes smart panels to display live public transport information, live traffic data, parking data, air quality sensors, and public access to data (read more here). Solutions similar to this are available across the Tech pillar.

London Gatwick has developed a smart parking system which will provide real time information to drivers on the availability of spaces using sensors (read more **here**). Cardiff is doing similar (read more **here**). This will help to reduce the time drivers spend looking for spaces, easing congestion. Similar solutions are available from the Smart DPS (RM6094).

The City of Edinburgh is using the Iot to help measure noise pollution. The aim is to develop a predictive tool for noise planning (read more **here**). Similar solutions are available from the Smart DPS (RM6094).

Belfast is looking at installing EV charging infrastructure to facilitate the use of EVs. (read more **here**). EV charging solutions can be procured from RM6213 Vehicle Charging Solutions and EVs can be leased for public organisation and transport use from RM6096 Vehicle Lease, Fleet Management & Flexible Rental Solutions.

Further Information

Further information on what Smart Solutions from CCS are available from the Smart website hub here. In this hub customers can find information relating to all types of Smart Solutions available, further links to the CPNI and NCSC websites for guidance on security, and a link to contact CCS for further information.

CCS Smart Transport Services

Smart Solutions with Transport focus are available on the following Frameworks and DPSs:

Technology:

RM1089 - Traffic Management Technology

RM3804 - Tech Services 2

RM6213 - Vehicle charging solutions

RM6096 - Vehicle Lease, Fleet Management & Flexible Rental Solutions

RM6094 - Spark DPS

RM3821 - Data Application Solutions

RM3808 - Network Services 2

Contact us

For more information get in touch and see how we can help:

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