



November 2017

C-ITS Project Update

Dorset County Council



Department
for Transport

Funding for Innovation: Cooperative Intelligent Transport Systems



Project Title

A31 Smart Collaboration

Project Overview

Dorset County Council (DCC) is introducing a prior congestion warning for road users accessing the A31/Ferndown area. DCC will collaborate with Highways England (HE) to develop an integrated network management approach using: Linked DCC & HE UTM systems, Journey Time monitoring, VMS, CCTV & web/connected outputs.

This will enable a step change in network management through improved monitoring and the real-time dissemination of information to road users, including freight vehicles. A connected approach will provide users with knowledge from which to make informed decisions on preferred routes and help balance traffic flows and prevent further congestion.

Objectives

Develop a collaborative relationship between DCC and HE, to improve operational procedures through UTM.

Provide a proactive traffic management approach using detection infrastructure and big data.

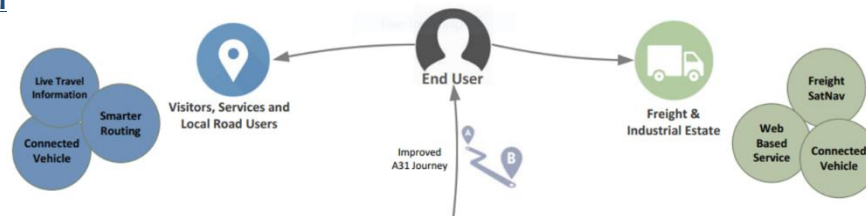
Expand and enhance use of real-time information to road users and connected vehicles.

Increase cooperative services to share the control of traffic signal junctions, easing congestion and providing re-prioritisation.

Utilise additional data sources to influence traffic signal junctions.

Create a platform for future UTM/CTM strategy developments.

A31 Smart Collaboration



Milestones

Initial journey time units on site: August 2017

Joint UTMCI strategies to be complete: November 2017

Online traffic portal construction: December 2017

MoU and Principles of Collaboration to be agreed: Early 2018

Current Progress

UTMCI testing complete.

Traffic signal integration – control of HE junction from DCC UTC/UTMCI.

Vehicle classification / turning counts compiled.

Journey time detectors installed (75% sites).

Established relationship with neighbouring Bournemouth & Poole Borough Councils and Ferndown Industrial Estate - asset installation & data sharing.

Design and functional requirements of online traffic solution.

VMS/CCTV locations finalised.

Project Deliverables

DCC and HE shared traffic management network strategies.

Online/Cloud-based traffic portal for user output – potential deployment to connected vehicles.

Journey time coverage of key routes and surrounding area.

On street VMS to inform non-connected vehicles.

Shared use of industrial estate legacy infrastructure/assets including CCTV and ANPR.

MOVA/Communication upgrade at signals adjacent to HE junction.

Partners



Project Contact

Dorset County Council Highways

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