



ICT FOR TRANSPORT

# CHARM - PCP

## *Common Traffic Management Model Highways Agency, Rijkswaterstaat and Mobiliteit en Openbare Werken*

“To create a flexible, open, modular high level ICT architecture for traffic management centres (TMCs) based on the standardisation of TMC requirement by the UK, the Netherlands and Belgium and create new modules for this architecture that offer significant improvement of traffic management services.”

### At a Glance

#### Project acronym:

CHARM - A collaboration programme between Highways Agency (HA), Rijkswaterstaat (RWS), Mobiliteit en Openbare Werken (MOW), Technology Strategy Board and Agentschap NL. Initiated in March 2011, it aims to define a new generation of traffic management systems that may be jointly purchased.

#### Project type:

Integrated Project

#### Programme:

7<sup>th</sup> EU Framework Programme

#### Project coordinator:

Ian Chalmers  
Highways Agency (English Strategic Road Network Operator)  
[ian.chalmers@highways.gsi.gov.uk](mailto:ian.chalmers@highways.gsi.gov.uk)

#### Project partners:

RWS (Dutch SRN Operator)  
MOW (Flemish Department of Mobility and Public Works)  
Agentschap NL (Dutch Innovation Agency)  
Technology Strategy Board (UK Innovation Agency)

**Start date:** Sept 2012

**End date:** Sept 2016

**Total cost:** €4.1 million

**EU funding:** €2.8 million

#### Project website:

<http://www.rws.nl/charm>

## History

This project builds on an existing collaboration between traffic network operators. As a first step, partners have compared their traffic management processes to determine whether they require the same functionality. The conclusion of this comparison is that these are similar for more than 90%.

Within CHARM, a PCP approach has been chosen, challenging the market place to innovate in competition. PCP comprises 3 phases: solution design, prototyping and pre-production testing.

## Objective

This Pre-Commercial Procurement (PCP) project will challenge the market to develop innovative traffic management modules that fit within a new, flexible, common architecture for TMCs. The modules will significantly improve traffic management performance.

Three challenges for the market have been proposed in the areas of Advanced Distributed Network Management, Advanced Traffic Predictions and Support of Co-operative ITS Functions.

## Description of Work

This project consists of 7 work packages.

### WP0: Management

To provide overall management of the project.

### WP1: High Level Architecture

The development of a TMC architecture which will then be evaluated based on the innovative modules developed in this project.

### WP2: Draft PCP challenge

The preparation of a PCP challenge for traffic management technology that is in line with the latest developments in traffic management objectives and technology.

### WP3, 4 and 5: Solution Design, Prototype and Pre Production Testing

The execution of 3 phases of PCP.

### WP6: Dissemination.

To disseminate results, experience and knowledge in all project phases and reach out to stakeholders: European road administrations and operators as well as Industry and R&D-partners.

## Expected results

An open, modular, high level ICT architecture for TMCs; new modules for this architecture that offer significant improvement of traffic management services; and a PCP process available for other network operators and road authorities.

## For further information:

Information Desk  
European Commission –  
Information Society and Media DG  
Office: BU31 01/18 B-1049 Brussels  
Email: [info-desk@ec.europa.eu](mailto:info-desk@ec.europa.eu)  
Tel: +32 2 299 93 99  
Fax: +32 2 299 94 99  
[http://europa.eu/information\\_society](http://europa.eu/information_society)

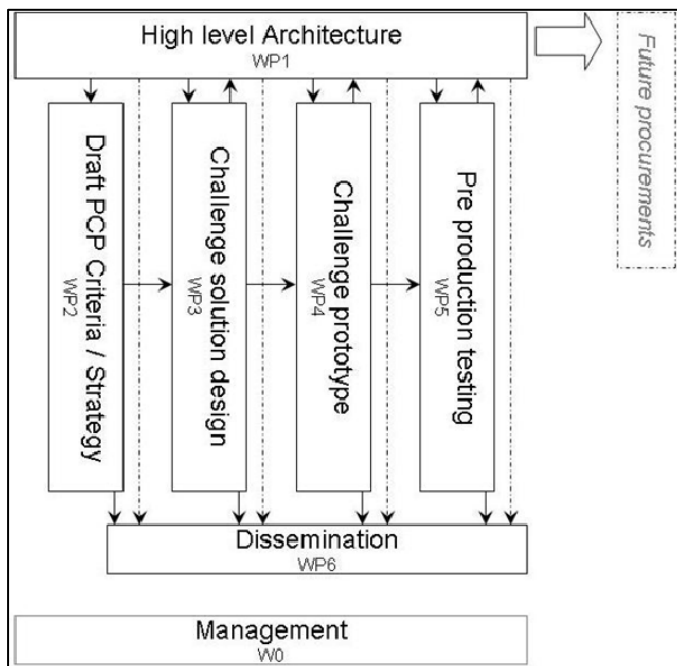


Figure 1 Work package breakdown