



Article 17(3) of Directive 2010/40/EU 1st Progress Report for Ireland

2014

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Section A – Contact details

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Section B – General Overview

Overview

The use of ITS in Ireland is growing and a number of authorities including the Department of Transport, Tourism and Sport (DTTAS) and the National Roads Authority (NRA) are developing medium-term ITS policies or strategies. The focus to date has been on urban areas and on the interface between them and the major inter-urban road network. The ITS community received a boost in 2013 with the hosting of the 9th ITS European Congress in Dublin.

Structure of the report

As per the Commission Implementing Decision of 13 July 2011 – C (2001) 4947 this report follows the structure of the initial report except for the glossary and standards sections which have not been duplicated. The Commission indicated that the projects described in the report under Article 17.2 (the “5 year plan”) could be updated also. Hence, all of the projects in the initial report are updated under the subheading “Initial Report” and those which appear for the first time in the “Five Year Plan” appear under that subheading. Some new projects not in either previous report are detailed also.

Sections C-F provide an overview of highlights of recent developments in ITS in the priority areas.

National Strategy

Specialists have been contracted by DTTAS to develop a nation strategy on ITS. The development of a Strategy will support public and private sector initiatives through identifying gaps in ITS development and deployment and putting in place a framework to address them; it will improve coordination in the delivery of ITS infrastructure in Ireland and it will also strengthen Ireland’s capacity in ITS and improve capacity for research and development. The strategy will seek to provide a framework in which Ireland can fulfil its commitments under European legislation and policy both now and in the future. An extensive consultation is envisaged during the autumn of 2014 with the strategy being published in early 2015.

Financial information

National ITS spending by year €million:

2010	2011	2012	2013
35.8	35.3	35.6	32.1

KPIs

In some cases KPIs have been built into service contracts however in general KPIs specific to the ITS area are not in extensive use in Ireland.

Maps

Annex 2 contains some examples of the kind of maps in use in Ireland. In a number of cases, for example electric vehicle charging points and the shared bicycle scheme in Dublin (dublinbikes), maps are available online and may provide real time information, such as the availability of bicycles and bicycle docking points in the case of dublinbikes.

Section C – National ITS Activities in Priority Area 1

Optimal use of road, traffic and travel data

Ireland anticipates fully participating in the upcoming work on the development of specifications under Priority Action A of the ITS Directive when work commences in Q3-4 2014.

DTTAS, the National Transport Authority (NTA) and the NRA collaborated closely and liaised with other ITS stakeholders in participating in the development of the specifications for Priority Action B of the ITS Directive, attending all expert group meetings.

Ireland will report fully on its progress in implementing the specifications resulting from Priority Action C in due course and is considering the implications of providing a national access point for road, traffic and travel data.

Urban traffic control systems

Around the country Urban Traffic Control Centres are being maintained or upgraded. In Dublin the regional control centre has been upgraded, completed Q3 2013 and currently specifications are being drawn up for systems' upgrades. In Cork firmware upgrades on newer equipment is underway with replacement of older controllers under consideration. Enhancements to the operations in Limerick include 20 RTPI signs and a parking guidance management system. To date 25 controllers have been connected to the new UTC system in Galway which provides for parking guidance, variable messaging, journey time monitoring, environmental monitoring, CCTV and fault management. It is envisaged that a parking guidance system will be operational by the end of 2014.

The NRA is currently developing the business case for the upgrade and expansion of the Motorway Traffic Control Centre in the context of its 2015-2025 ITS Policy.

Journey planners

The NTA's Intermodal Journey Planner covers both Ireland and Northern Ireland and is available online at www.transportforireland.ie. This extensive service includes information on arrivals and departures in real time, fares, taxis (including the new taxi driver check app) and also a cycle planner which includes information on elevation along the route. It also includes a dynamic map of all public transport services in Ireland.

Real time passenger information (RTPI)

The RTPI system continues to develop and a total of 569 RTPI signs are now operational in the GDA and in the regional cities of Cork, Galway, Limerick and Waterford. Flat screen real time displays have been installed at a number of transport hubs, third level educational institutions and hospitals.

Real time travel information (RTTI)

The National RTTI service based on Automatic Number Plate Recognition (ANPR) disseminates information via Variable Message Signs (VMS), Short Message Service (SMS) and the internet among other channels. It has been expanded to include the national routes' N4 and N7 approaches to Dublin. RTTI also formed part of the ITS services on the M1 Dublin to Belfast route as part of the INSTANT project.

The NRA is currently developing proposals for a single non-proprietary open system for journey time management on national roads which will be able to handle data from multiple sources (Bluetooth, ANPR etc). Specifications will be established during 2015 and the procurement process is expected to commence in 2016.

Section D – National ITS Activities in Priority Area 2

Continuity of traffic and freight management ITS services

Truck parking services

Ireland will report fully on its progress in implementing the specifications resulting from Priority Action E in due course and is considering the implications of providing a national access point for road, traffic and travel data.

Interoperable Electronic Tolling

A new Interoperability Service Management Provider has been chosen to continue to provide the information exchange system so that electronic tags can be used at all toll plazas on the Irish tolled roads network. An interoperability framework agreement has also been developed.

Integrated Smart Card Ticketing

Ireland's integrated ticket, the leap card (www.leapcard.ie) is expanding rapidly with over half a million sold of which nearly 100,000 are student tickets. The service is being expanded to Cork on a pilot basis and will be available in Galway in 2014. Further cities are on the horizon. The NTA is in the process of procuring a supplier for the required Near Field Communications interface to support the use of mobile phones to read Leap cards and to top them up.

Shared bicycle schemes

Dublin City: The Dublin Bikes scheme is currently among the best performing public bike schemes, in terms of numbers of members and daily users, for the size of the fleet. The current scheme is being expanded to three times the original fleet size, across a broader part of the city centre. Capital works (including rolling stock, docking stations etc.) for expanding the Dublin City Bikes bike rental scheme was funded by the NTA in 2013 and 2014, with Dublin City Council responsible for the operational management of the scheme.

Cork, Limerick, Galway: The NTA has separately procured an integrated regional bike scheme, covering three cities (Cork, Limerick and Galway). The station locations are almost complete (September 2014) and the tender for the provision and operation of the bicycles has been awarded to an international consortium (Rothar Nua). A sponsorship arrangement with a soft drinks manufacturer has also been secured by the NTA, to offset some of the operational cost of the scheme. The procurement by the NTA also allows for expansion to other locations in Ireland, should such a scheme be warranted.

Section E – National ITS Activities in Priority Area 3

ITS road safety and security applications

eCall

Ireland expects that it will be in a position to roll out eCall by the 2017 deadline (or earlier should this arise).

Emergency Road Side Telephones

The installation of 1400 Emergency Roadside Telephones on the motorway network is complete. The system is centrally operated and coordinated through the Motorway Traffic Control Centre operated by the NRA.

Section F – National ITS Activities in Priority Area 4

Linking the vehicle with the transport infrastructure

Ireland will participate fully in the upcoming C-ITS platform.

EETS

Ireland already has tolling interoperability in place for some time. Recent developments in electronic tolling have taken into account the requirements of EETS. The administrative elements for the roll out of EETS are in place.

Electronic Tolling

Electronic tolling is available on all Irish tolled roads. On the Dublin orbital motorway, the M50, a barrier free tolling system is in place for all vehicles.

Ghost Driver Signs

Pilot schemes deployed. Currently under evaluation for effectiveness.

Annex 1 – Major Projects under the scope of the Directive

National Transport Authority Projects

Initial Report

Project Title	Intermodal Journey Planner
Priority Area/Area s	1&2
Project Region	International (Ireland and Northern Ireland)
Objective	Door to door public transport journey planning service provided through the internet and mobile services. The Intermodal Journey Planner will have Ireland and Northern Ireland coverage and will feature information on journeys on buses, trams, trains, walking, taxis, ferries to the islands and regional airlines. This project will integrate with the existing Real-Time Passenger Information service for real-time journey planning where appropriate.
Lead Organisation(s)	National Transport Authority (National Agency) and Translink (Northern Ireland)
Project Status	Completed and Operational. Now includes fare information.

Project Title	Real Time Passenger Information
Priority Area/Areas	1
Project Region	National Project
Objective	On-Street Display Signs showing the bus arrival times are being installed at various bus stops across the Dublin, as the initial phase. Larger display units are envisaged for key interchange railway stations.
Lead Organisation(s)	National Transport Authority (National Agency) Dublin City Council (Local Authority) Bus Eireann (National Bus Service) Dublin Bus (Regional Bus Service)
Project Status	Completed and Operational. A total of 569 RTPI signs are now operational in the Greater Dublin Area (GDA) and in the regional cities of Cork, Galway, Limerick and Waterford. In the GDA flat screen real time displays have been installed at Pearse, Connolly & Tara Street Rail stations as well as at University College Dublin, the Mater Hospital and Dublin Airport Terminal 1. This service is being extended to other Dublin hospitals, Dublin City University and Dublin Airport, Terminal 2.

Project Title	Smartcard Integrated Ticketing Project – Leap card
Priority Area/Areas	1
Project Region	Dublin Region
Objective	A smart card based system that will provide a common payment method for users of the different providers of public transport (state owned and privately owned bus services, light rail, heavy rail) across the greater Dublin region. The scheme will interoperate with the National Public Services Card being issued by the Department of Social Protection to their clients with free travel entitlement to provide electronic recording of free travel journeys for revenue apportionment and service planning purposes.
Lead Organisation(s)	National Transport Authority (National Agency)
Project Status	Completed and operational. Further feature and functionality enhancements to the system are ongoing, fare capping, second journey discounting, integration with public bikes scheme; inclusion of special fares for specific groups; new card types. A new 3 day tourist card is in place costing €19.50. Simplification of children's cards is underway with free travel for children aged 4 and under. The NTA has launched a procurement to find a supplier for the required Near Field Communications interface to support the use of mobile phones to read Leap cards and to top them up. The scheme is being deployed to cities outside the Dublin region at present with availability in Cork on Bus Eireann services and introduction in Galway envisaged for 2014 with further cities later. Current Availability <ul style="list-style-type: none"> • Bus Éireann Cork • DART and Commuter Rail • Luas

	<ul style="list-style-type: none"> • Wexford Bus • Bus Éireann Dublin • Dublin Bus • Swords Express • Matthews Coaches
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Project title	OPEN DATA / SmartCities
Priority Area(s)	1
Project region	Greater Dublin Area
Objectives and description	Enable re-use of publicly available data
Sponsor	NTA
Lead organisation	4 GDA local authorities
Project status	<p>Commenced with www.Dublinked.ie datastore. Currently NTA provides the following Dublinked data:</p> <ul style="list-style-type: none"> <i>Bus Eireann Services in Ireland - National</i> <i>Bus Stops served by Dublin Bus - Greater Dublin Area</i> <i>Commercial Bus Services in Ireland - National</i> <i>Cycletrack & Buslane Survey 2007 - Greater Dublin Area</i> <i>Dublin Bus General Transit Feed Specification (GTFS) data - Greater Dublin Area</i> <i>Irish Rail GTFS data - Greater Dublin Area</i> <i>LUAS GTFS data - Greater Dublin Area</i> <i>National Public Transport Gazetteer - National</i> <i>National public transport nodes - National</i> <i>Operator GTFS and Route Data (updated daily) - National</i> <i>Public Transport Route Networks - National</i> <p>More datasets will be added to the datastore in due course. For the full range of transport related data on dublinked see: http://dublinked.com/datastore/by-category/transportation-infrastructure.php</p>

Five year Plan

Public Transport

Project title	Public Transport Route maps
Priority Area(s)	1 & 2
Project region	National
Objectives and description	<p>Online mapping service. This service will feature on the Transport For Ireland website. Displays maps of all public transport services in Ireland on a dynamic map. Artwork for printed maps will be displayed at bus shelters.</p>
Sponsor	NTA
Lead organisation	NTA
Project status	Completed Q2 2013

Sustainability

Project title	Shared Bicycle Schemes
Priority Area(s)	2
Project region	Dublin City expansion, Cork, Galway, and Limerick
Objectives and description	Building on the success of the Dublin City Bicycle Scheme, expanding the system to other regional cities.
Sponsor	NTA
Lead organisation	NTA
Project status	<p>The original Dublin Bike Scheme was funded by Dublin City Council. Dublin Bikes has been very successful and is currently expanding the number of stations and bikes.</p> <p>Regional bike schemes are expected to be established in Limerick, Cork and Galway later in 2014 under a sponsorship arrangement with a soft drinks manufacturer. The NTA will administer the schemes which will be delivered by the local authorities. A map of the Dublin bike stations can be found here: http://www.dublinbikes.ie/All-Stations/Station-map</p> <p>Dublinbikes statistics</p> <p>Over 42,000 long term subscribers Almost 5,000 short term subscriptions Q1&2 2014 Over 7 million rentals since launch Average journey time 13 minutes 95% of rentals incur no charge</p>

Project title	Intelligent Bicycle Traffic Priority Systems
Priority Area(s)	2
Project region	South Dublin County Council
Objectives and description	South Dublin County Council is researching the market of current vehicle/bicycle detection systems. It is envisaged to carry out a pilot scheme to investigate the feasibility of bicycle priority at traffic signals at a strategic bicycle active junction.
Sponsor	NTA
Lead organisation	South Dublin County Council
Project status	Conceptual Stage
Envisaged actions 2012 - 17	Research/Pilot Scheme due to start in 2015.

Project Title	Regional Cycle Journey Planner (Cycle Route Planner)
Priority Area(s)	1 & 2
Project Region	Regional Project (Dublin)
Objectives and description	Door to door cycle journey planning service provided through the internet and mobile services. The Cycle Journey Planner will have Greater Dublin Area coverage in the first instance and will feature user preferences around gradient, directness and traffic regime. This project will integrate with the existing Real-Time Passenger Information service for real-time journey planning where appropriate.
Lead Organisation(s)	National Transport Authority (National Agency)
Project Status	Completed and Operational. Expanded to include Cork, Waterford, Galway and Limerick. Expected launch of expanded scheme in September 2014.

Data

Project Title	Bicycle and pedestrian counting [Non-motorised traffic counting]
Priority Area/Areas	1
Project Region	GDA
Objectives and description	To collect data on the usage of other forms of transport for planning purposes.
Lead Organisation(s)	NTA
Project Status	The initiative is currently being reviewed. The provision of digital exports is being explored. Digital displays are located in a number of strategic points.

Traffic Control

Project title	Regional Traffic Management
Priority Area(s)	1 & 2
Project region	GDA
Objectives and description	To effectively integrate the existing surface transport and traffic systems and centres, to facilitate management of corridors at a regional level, with multi-modal objectives, contingency and maintenance arrangements
Sponsor	NA
Lead organisation	NTA
Project status	This follows the WSP review of the 11 surface transport control centres in the GDA, undertaken in 2011. The focus on the NTA since 2012 has been to generate the integrated plan for the city centre (in terms of transport networks, interchange points and traffic management routes). Once the required integration is set out (due 2014), the NTA will progress the Strategic Traffic Management Plan (STMP) for the Greater Dublin Area, and with it, the proposed ITS structures and systems to support the STMP. This STMP will be developed in 2015, perhaps into 2016, with delivery following that.

Project Title	Expansion of the functionality and the geographic coverage of existing urban traffic control systems and provide where needed regional level co-ordination
Priority Area(s)	1 & 2
Project Region	Local level multiple locations
Objectives and description	To expand or update or install urban traffic control systems
Sponsor	NTA
Lead organisation	Local Authorities
Project Status	NTA has funded Dublin City Council (DCC) to set up a project team for Bus Priority using the Dublin Bus centralised Automatic Vehicle Location System (AVLS) and the Dublin Urban Traffic Control System (SCATS). This team (DCC, NTA and Dublin Bus) has been working on (i) analysing problem locations where buses are unreliable and/or slow, and (ii) developing signalling techniques to improve the bus performance. The team has been active since Q1 2014 on specific locations, and will report on progress to the NTA and DCC in September 2014. This project is likely to continue for some time, as it incorporates both bus and tram priority (the tram network is being extended), and there are many locations across the region where signalling techniques and interventions can improve bus performance.

Project title	Dynamic Warning Signs
Priority Area(s)	1
Project region	Local level multiple locations
Objectives and description	To better control urban traffic in sensitive areas
Sponsor	NTA
Lead organisation	Local Authorities
Project status	Under development
Envisaged actions 2012 - 17	The scheme was rolled out with additional installations in Dublin City, Kildare County, Dun Laoghaire County and Wicklow County Councils. Two separate effectiveness reviews of specific locations are in place. The overall review has not yet been commissioned.

Miscellaneous

Project title	ITS Strategy for GDA
Priority Area(s)	1, 2, 3 & 4
Project region	GDA
Objectives and description	To provide framework for future investment in ITS in GDA
Sponsor	NTA
Lead organisation	NTA, NRA, DTTAS
Project status	Scoping stage only
Envisaged actions 2012 - 17	Draft strategy, building on ITS inventory report for GDA 2010
Context	The Strategy will address (i) legacy (ii) procurement (iii) resourcing and maintenance (iv) data management (v) investment priorities (vi) compliance with ITS Directive

National Roads Authority

Project Title	M1 INSTANT Cross-Border Project
Priority Area/Area(s)	1 & 2
Project Region	International (Ireland and Northern Ireland)
Objective	To implement a cross border traffic management and information system along the 160km road corridor between Dublin and Belfast. This incorporates a combination of integrated technologies including: variable message signs, CCTV, automatic number plate recognition cameras, fibre optic cables, data exchange protocols, web/email and SMS traffic information services, and real time travel data collection and dissemination.
Lead Organisation(s)	National Roads Authority (National Agency) (Northern Ireland Roads Service in another Member State)
Project Status	Completed and in operation.

Project Title	Deployment of a National Real Time Journey Time System using ANPR
Priority Area/Areas	1 & 2
Project Region	National Project
Objective	To deploy Automatic Number Plate Recognition (ANPR) cameras throughout the greater Dublin region for the calculation of journey times (in real-time) and its dissemination on VMS, SMS, Web etc.
Lead Organisation(s)	National Roads Authority
Project Status	Completed and in operation. The geographical extent of the deployment has been extended to include the N7 and N4 approaches to Dublin.

Project Title	Traffic Counting/Classification System [Motorised traffic counting]
Priority Area/Areas	1
Project Region	National Project
Objective	Data Collection (Count & Classification) from circa 120 fixed station Automatic Traffic Counting (ATC) Sites throughout the National Primary & Secondary road Network. Replacement of existing ATC electronics and installation of up to 120 extra fixed sites
Lead Organisation(s)	National Roads Authority
Project Status	Replacement of existing deployment and expansion to more than double existing was completed in Q1 2013. The upgrade included the installation of 6 Weigh-in-Motion sites.

Project Title	Deployment of Emergency Roadside Telephone Service
Priority Area/Areas	3
Project Region	National Motorway Network
Objective	Installation and operation of approximately 1400 Emergency Roadside Telephones on the motorway network, all centrally operated and coordinated through the answering service at the NRA's Motorway Traffic Control Centre in the Dublin Tunnel Control Building.
Lead Organisation(s)	National Roads Authority
Project Status	Completed and in operation, as of Q4 2012

Project Title	eFlow: Barrier-Free Tolling (also known as free-flow or open road tolling) on the M50 Motorway.
Priority Area/Areas	4
Project Region	Dublin Region
Objective	The implementation and operation of barrier free tolling at a single point on the M50 motorway using DSRC and video registration technologies.
Lead Organisation(s)	National Roads Authority (National Agency)
Project Status	Completed and in operation.

Project Title	Interoperable System for Electronic Tolling
Priority Area/Areas	2
Project Region	National Project
Objective	To provide an information exchange system so that electronic tags can be used at all the toll plazas on the Irish roads network
Lead Organisation(s)	National Roads Authority (National Agency)
Project Status	Completed and in operation. A new website giving information on tolling in Ireland has been developed and is available at: www.etoll.ie .

Project Title	M50 Upgrade & GDA ITS Deployment Programme
Priority Area/Areas	1 & 2
Project Region	Dublin Region
Objective	To deploy ITS systems and services on the M50 Dublin Orbital motorway and greater Dublin region in conjunction with a major upgrade/ widening of the M50 and its approaches. The installation of 60 VMS, 100 ANPR cameras, 60 CCTV, 200km of fibre cable and over 200 roadside cabinets over the 50 km mainline of the M50, its approaches (N2, N3, N4, N7, N8, M11 etc) and at strategic decision points along the major inter-urban motorways within the region.
Lead Organisation(s)	National Roads Authority (National Agency)
Project Status	Deployment completed and in operation as of 2013.

Project Title	Traffic Control System for Motorways and Tunnels
Priority Area/Areas	1, 2 & 3
Project Region	National
Objective	To implement a traffic control system for motorways and tunnels
Lead Organisation(s)	National Roads Authority (National Agency)
Project Status	Completed and in operation.

Five Year Plan

Data

Project title	National ITS Architecture
Priority Area(s)	1
Project region	National and International
Objectives and description	The development of an "across-the-board" set of ITS standards for Ireland drawing upon European and international best practice
Sponsor	NA
Lead organisation	National Roads Authority, National Transport Authority, Department of Transport, Tourism and Sport
Project status	Partial completion through NRA Design Manual for Roads and Bridgeworks (DMRB). Architecture to be addressed in 2015-2016

Project title	DATEX II roll out
Priority Area(s)	1
Project region	National
Objectives and description	To utilise the European traffic data exchange protocol (DATEX II) as a national standard for the provision and exchange of traffic data between third parties.
Sponsor	NA
Lead organisation	National Roads Authority, National Transport Authority, Department of Transport, Tourism and Sport
Project status	Completed and in operation for existing data transfer operations
Envisaged actions 2012 – 17	All future traffic data exchanges with third parties to use DATEX II

Project title	Web-based Traffic Information Services
Priority Area(s)	1
Project region	National
Objectives and description	The enhancement and development of web-based services for the provision of personalised travel and traffic information to the road user in real time.
Sponsor	NA
Lead organisation	National Roads Authority
Project status	<ul style="list-style-type: none"> - 2013 – the redevelopment of www.nrtraffic.ie - completed - 2013 – the development of a complimentary app and interfaces with other complimentary systems and devices - completed
Envisaged actions 2012 – 17	- 2015-2016 – possible integration with the national journey planner system subject to NTA.

Project title	Major Interurban Routes– Monitoring Deployment
Priority Area(s)	1
Project region	National
Objectives and description	To deploy roadside traffic monitoring devices along each Major Interurban route.
Sponsor	NA
Lead organisation	National Roads Authority
Project status	In Progress
Envisaged actions 2012 – 17	20 Bluetooth on the M7/N7 units to be deployed in 2014. Further (~100) units to be deployed through 2015-2017
Context	Monitoring devices (e.g., Bluetooth, ANPR, MVD) will be deployed at appropriate intervals along each MIU in order to ascertain real time journey time information for the entire route.

Project title	Weather Information Systems – Enhancements
Priority Area(s)	1
Project region	National
Objectives and description	The enhancement of the existing weather information system to provide more personalised information to the road user in real time.
Sponsor	NA

Lead organisation	National Roads Authority
Project status	Real time weather station data provided through redeveloped website and smartphone app. Pilot scheme for VMS weather alerts will be implemented in Q4 2014
Envisaged actions 2012 – 17	2015-17 – further roll out of weather information depending on success of pilot

Research

Project title	International Project Participation
Priority Area(s)	1, 2, 3 & 4
Project region	International
Objectives and description	To continue participation in European projects
Sponsor	NA
Lead organisation	National Roads Authority
Project status	EIP (2012) and EIP+ (2013) calls successful. Deployment programme Arc Atlantique (2013) call successful.
Envisaged actions 2012 – 17	- 2014-2015 – Participation in projects arising from ITS call in November Participation in CEDR ITS Task Group - Participation in Five Nations Network Operators forum

Traffic Control

Project title	Motorway Traffic Control Centre Development
Priority Area(s)	1
Project region	National
Objectives and description	The development of a programme to expand the current Motorway Traffic Control Centre
Sponsor	NA
Lead organisation	National Roads Authority
Project status	Proposal in Process
Envisaged actions 2012 – 17	2014 development of ITS policy 2015-2025 and business case for upgrade and expansion 2016-2017– upgrade and expansion of MTCC

Project Title	CCTV Cameras
Priority Area(s)	1
Project Region	Local level multiple locations
Objectives and description	Installation of CCTV camera at key locations and linkage to Traffic Management Control Centres
Sponsor	NA
Lead organisation	Local authorities
Project Status	Ongoing
Envisaged actions 2012 - 17	Expansion of CCTV monitoring and further co-ordination of same.

Project title	National Journey Time Management System
Priority Area(s)	1
Project region	National
Objectives and description	To develop or commission a single national journey time management system (JTMS) that can receive data from multiple sources and so process and

	disseminate sectional journey times in real-time
Sponsor	NA
Lead organisation	National Roads Authority
Project status	Proposal in Process
Envisaged actions 2012 – 17	2015 – development of a specification 2016-2017 – tender and procurement of a single generic JTMS
Context	Journey times can be calculated using a multiple of different sources (ANPR, Bluetooth, MVD etc). Each device tends to have its own (sometimes proprietary) instation/JTMS to calculate journey times. It is more practical and efficient to have a single non-proprietary open system

Project title	M50 Motorway - Demand Management Programme
Priority Area(s)	1 & 2
Project region	Dublin
Objectives and description	To deploy an integrated package of measures to facilitate better management of demand on the M50 corridor and to protect the traffic capacity provided by the recent M50 Motorway Upgrade Scheme.
Sponsor	NA
Lead organisation	National Roads Authority
Project status	Planning in Process
Envisaged actions 2012 – 17	<ul style="list-style-type: none"> - Depending on policy decision, possible deployment of additional ITS equipment to facilitate variable speed/flow control - 2017 - Depending on policy decision, possible deployment of additional ITS equipment to facilitate more responsive incident management procedures - 2017 - Depending on policy decision, possible introduction of supporting travel planning initiatives to enable motorists plan their journeys for less congested periods - 2015

Project title	Urban/ Interurban Interfaces and deployment
Priority Area(s)	2
Project region	Cork/ Limerick, Galway
Objectives and description	To develop deployment strategies outside and approaching the major urban centres in Ireland (excluding Dublin) whilst developing suitable interfaces with the urban traffic authorities and the Motorway Traffic Control Centre
Sponsor	NA
Lead organisation	National Roads Authority
Project status	Proposal in Process
Envisaged actions 2012 – 17	- 2016 -2017 – develop deployment plans and interfaces
Context	Deployment and interface arrangements will draw upon the experiences of those in Dublin.

Project title	Major Inter Urban Roads – Variable Message Signs Deployment
Priority Area(s)	1
Project region	National
Objectives and description	To deploy roadside Variable Message Signs approaching every interchange along the Major Interurban routes in order to provide relevant, accurate and timely information to road users.
Sponsor	NA
Lead organisation	National Roads Authority
Project status	Planning in Process
Envisaged actions 2012 – 17	Commencement of phased deployment between 2015 and 2017+
Context	The cost of installing fibre optic communications along the MIU network will be a significant constraint on the amount and type of ITS deployments that can be undertaken. The cost of provision of power supplies and dedicated VMS structures must also be considered (see pilot).

Project title	Ghost Driver Signs
Priority Area(s)	1 & 3
Project region	National
Objectives and description	Using ITS as a means to advise motorists of vehicles driving in the wrong direction on the motorway network.
Sponsor	National Roads Authority
Lead organisation	National Roads Authority
Project status	Pilot schemes deployed. Currently under evaluation for effectiveness.
Envisaged actions 2012 - 17	Results of evaluation may lead to increased deployment.

Road management

Project title	Intelligent Street Lighting
Priority Area(s)	3 & 4
Project region	National
Objectives and description	Deploy public lighting on a needs basis by using technology in an effective manner to reduce capital, operational and maintenance costs.
Sponsor	National Roads Authority
Lead organisation	National Roads Authority
Project status	Several pilot schemes are in operation and currently being evaluated.
Envisaged actions 2012 - 17	Continue to evaluate leading to a more expansive deployment. Develop strategic recommendations and guidance for deployment.

Tolling

Project title	Interoperability Management Services Provider
Priority Area(s)	2
Project region	National and International
Objectives and description	Upgrade of National Electronic Toll Collection (ETC) Interoperability Transaction Clearing hub to provide next-generation National interoperability services and to facilitate European Electronic Toll Service (EETS)
Sponsor	NA
Lead organisation	National Roads Authority
Project status	Procurement completed. Contract awarded and now in advanced

	implementation phase
Envisaged actions 2012 – 17	- Upgrade of existing National Interoperability Transaction Hub - Upgrade to facilitate data exchange with EETS Service Providers .

Project title	Toll System Renewals and Upgrades
Priority Area(s)	2
Project region	National
Objectives and description	Renewal and upgrade of tolling systems to avail of technology advances and to comply with requirements of EETS Directive.
Sponsor	National Roads Authority
Lead organisation	Toll chargers
Project status	Planning in Process
Envisaged actions 2012 – 17	- Upgrade of existing system to be EN 15509 compliant (EETS standard) - Upgrade systems to avail of technology advances / replace components that have reached end of life, 2013 – 2017.

New

Project title	2014 Pilot VMS Deployment Project
Priority Area(s)	1
Project region	National
Objectives and description	To deploy roadside Variable Message Signs at interchange approaches along the Major Interurban routes either utilising solar power energy or existing static sign gantries. Piloting at 8-10 locations.
Sponsor	NA
Lead organisation	National Roads Authority
Project status	Deployment in Process
Envisaged actions 2012 – 17	2014 – Deployment 2014-2015 – Evaluation
Context	The cost of provision of power supplies and dedicated VMS structures is a constraining factor for more wide-scale national deployment. This pilot will inform best approach.

Project title	NRA ITS Policy – 2015-25
Priority Area(s)	1
Project region	National and International
Objectives and description	The development of a high level 10-year policy for ITS Deployment on the TEN-T network in Ireland, incorporating relevant national and EU policies as well as international best practice
Sponsor	NA
Lead organisation	National Roads Authority
Project status	Due Q3 2014.

Dublin City Council

Initial Report

Project Title	PGMS (Parking Guidance Management System)
Priority Area/Areas	1 & 2
Project Region	Dublin Region
Objective	To implement a parking guidance system incorporating traffic and parking information messages.
Lead Organisation(s)	Dublin City Council (Local Authority)
Project Status	Completed and in operation. Update in operation and currently being assessed for additional signs to be added to system.

Project Title	SCATS – Sydney Coordinated Adaptive Traffic System.
Priority Area/Areas	1 & 2
Project Region	Dublin Area
Objective	To optimise traffic flow at up to 800 sets of traffic signals in the greater Dublin region. The SCATS System also provides priority for light rail and bus services approaching road junctions, in comparison to other traffic.
Lead Organisation(s)	National Transport Authority (National Agency) Dublin City Council (Local Authority) Dun Laoghaire Rathdown County Council (Local Authority) Fingal County Council (Local Authority)
Project Status	Completed and in operation. Continuously being expanded and upgraded with latest versions of Software.

Five Year Plan

Public Transport

Project title	Centralised Bus Priority System
Priority Area(s)	1
Project region	Greater Dublin Area
Objectives and description	To provide an interface between the AVL System from Dublin Bus and the SCATS Traffic Control System such that Bus priority at junctions and along key routes can be granted.
Sponsor	NTA
Lead organisation	Dublin City Council
Project status	Interface established between centralised AVL bus management system and SCATS-based UTC system, with bespoke GUI system for analysis of bus delay, and deployment of bus priority protocols to the junction traffic signal controller.
Envisaged actions 2012 – 17	Trial junctions completed. Dedicated team examining most critical bus delays, and proposing / deploying bus priority solutions at those points. Programme to continue for remainder of 2014 and into 2015.
Context	This is also used to support both the Public Transport system and also makes efficient use of the existing Traffic Signalling infrastructure.

Traffic Control

Project title	Upgrade of Regional Traffic Control Centre
Priority Area(s)	1 & 2
Project region	Greater Dublin Area
Objectives and description	To update systems and provide better traffic Management and provision for dealing with emergency operations i.e. weather related events. Ensure speedier and better response to any incidents or emergencies that arise.
Sponsor	NA
Lead organisation	Dublin City Council
Project status	Work to commence Q1 2013
Envisaged actions 2012 – 17	Control Centre has been upgraded completed in Q2 2013 and at present specifications are being drawn up for systems upgrades.

New

Project title	Transportation Asset Management
Priority Area(s)	1
Project region	National
Objectives and description	To provide a Transportation Asset Management System for recording of all Transportation assets initially for Dublin City Council and set up a framework where other authorities can draw from the same contract.
Sponsor	DTTAS
Lead organisation	Dublin City Council
Project status	System Procured and now being installed.
Envisaged actions 2012 – 17	The system will be rolled out in phases in Dublin to the different divisions of the Transportation Department and will be completely operational by 2016.

Cork City Council**Initial Report**

Project Title	Urban Traffic Control (UTC)
Priority Area/Area(s)	1 & 2
Project Region	Cork Region
Objective	To implement traffic signal control incorporating SCOOT & MOVA on main routes and city centre junctions. The replacement of obsolete controllers is under consideration and firmware upgrades on more recent installations is in progress. The UTC System incorporates a number of facilities including an application to operate the Parking Guidance Signs (PGS) system. It is proposed to migrate the application the for 8 multi-storey car parks in the city in addition to the Park and Ride facility to an integrated PGS & VMS system and cater for the display of spaces available.
Lead Organisation(s)	Cork City Council (Local Authority)
Project Status	Completed and in operation

Five Year Plan*Traffic Control*

Project Title	CCTV Traffic Surveillance Camera System
Priority Area(s)	1
Project Region	Local level multiple locations
Objectives and description	Installation of CCTV camera at key locations and linkage to Traffic Management Control Centres. Live visual observation, in parallel with real-time system operations, is essential to support traffic network efficiency.
Sponsor	NA
Lead organisation	Local authorities
Project Status	Ongoing
Envisaged actions 2012 – 17	Expansion of CCTV monitoring and further co-ordination of same. CCTV and associated communications facilities have been specified on NTA funded Cycle Route and pedestrian improvement schemes in Cork. The deployment of CCTV is considered on all new schemes and proposed developments in the city.

Project Title	Variable Message Signs, Parking Guidance & Fibre Optic Communications for ITS
Priority Area(s)	Area 1 and 2
Project Region	Cork Region
Objectives and description	The city centre VMS scheme and Fibre Optic Communications was implemented with funding by NTA to support more sustainable travel in Cork. VMS is being used to provide for relevant, accurate and timely communication of information on the status of the network and to highlight Road Safety issues. It is proposed to migrate the parking application for 8 multi-storey car parks in the city, in addition to the Park and Ride facility, to an integrated PGS & VMS system and cater for the display of spaces available. Extensions and enhancements to the VMS, PGS & the Fibre Optic network are specified as appropriate on new schemes and on proposed developments.
Sponsor	NTA, NRA and Cork City Council (Local Authority)
Lead organisation	Cork City Council
Project Status	Completed and in operation
Envisaged actions 2012 – 17	Extensions to the scheme under consideration with ongoing NTA funded Cycle Route and pedestrian improvement schemes in Cork.

New

Project Title	Smart Regional Gateway - Open Data: UTC, ITS & Parking
Priority Area(s)	1 & 2
Project Region	Cork Region
Objectives and description	Existing Urban Traffic Control, UTC, Intelligent Transport Systems & Services, ITS & Parking Info to be utilised to support an Open Data Initiative for Cork. Strategic Info System & Common Database enhancement would a prerequisite to making 'Open Data' available. ICT is key to enhancing the level of service to users of the network with the development of Apps by partners and 3 rd parties derived from secure Open Data and 'Vanilla' versions of dedicated Websites. The proposal on Open Data is seen to support the economic development of the city.

Sponsor	Cork City Council (Local Authority) and Cork Institute of Technology, CIT (Third Level College)
Lead organisation	Cork City Council
Project Status	Draft Proposal under consideration
Envisaged actions 2012 – 17	Planned deployment of the Open Data Initiative is under consideration with the support of the Cork Area Strategic Plan, CASP Steering Committee.

South Dublin County Council

Initial Report

Project Title	Congestion Monitoring/ Bus Priority System
Priority Area/Areas	1 & 2
Project Region	South Dublin County
Objective	Urban Traffic Control via SCOOT (Split Cycle Offset Optimisation Technique) for Congestion Monitoring and Bus Priority
Lead Organisation(s)	South Dublin County Council (Local Authority)
Project Status	Completed and in operation
Envisaged actions 2012 – 17	Extension to new candidate “regions” within South Dublin County during 2014 – 2017 (SDCC)

Project Title	Traffic counting and congestion [Motorised traffic counting]
Priority Area/Areas	1 & 2
Project Region	Dublin Region
Objective	To monitor congestion by adapting the vehicular traffic counting, classification and speed monitoring programme. Areas to be recorded are record flow, occupancy, speed, headway and class
Lead Organisation(s)	South Dublin County Council (Local Authority)
Project Status	Under development

Five Year Plan

Traffic Control

Project Title	CCTV Cameras
Priority Area(s)	1
Project Region	Local level multiple locations
Objectives and description	Installation of CCTV camera at key locations and linkage to Traffic Management Control Centres
Sponsor	NA
Lead organisation	Local authorities
Project Status	Ongoing
Envisaged actions 2012 – 17	Expansion of CCTV monitoring and further co-ordination of same.

Data

Project title	Automatic Number Plate Registration Deployment
Priority Area(s)	1
Project region	South Dublin County Council administrative area/East coast of Ireland
Objectives and description	Journey time information disseminated to the public via website and SMS services.
Sponsor	NTA
Lead organisation	South Dublin County Council
Project status	83 ANPR camera have been installed in 25 locations across the South Dublin County
Envisaged actions 2012 - 17	Further deployment of cameras in 2013-14. It is envisaged to concentrate the majority of future ANPR deployment on the road network in neighbouring Local Authority areas with an emphasis on the major ports and airports. This will develop the system from a local system to a regional journey time system for the greater Dublin Area.
Context	Level of deployment depending on funding and collaboration between local authorities.

Limerick City Council**Initial Report**

Project Title	Expansion of the functionality and the geographic coverage of existing urban traffic control system
Priority Area/Areas	1 & 2
Project Region	Limerick Region
Objective	To expand the existing UTC coverage area while also providing real time parking guidance and real time variable message signs for incident and road network management and further developing the existing urban traffic control system based on SCOOT technology.
Lead Organisation(s)	Limerick City Council (Local Authority) National Transport Authority (National Agency)
Project Status	Real Time passenger Information signs for Bus Services were installed at 20 locations in 2012 and are working. Further signs will need to be installed over the next few years. A system of Parking Guidance Signs (PGS) and Variable message Signs (VMS) were installed in 2011. A further expansion of this system is required over the next few years particularly the installation of VMS signs on approach roads in the City Environs. Limerick City Council continues to maintain and upgrade the UTC SCOOT system software and has a maintenance contract in place. Further work is required on the system over the next few years including software upgrades and the roll out and installation of a Fibre network to connect traffic cells.

Five Year Plan*Traffic Control*

Project Title	CCTV Cameras
Priority Area(s)	1
Project Region	Local level multiple locations

Objectives and description	Installation of CCTV camera at key locations and linkage to Traffic Management Control Centres
Sponsor	NA
Lead organisation	Local authorities
Project Status	Ongoing
Envisaged actions 2012 - 17	Expansion of CCTV monitoring and further co-ordination of same. Roll-out of CCTV has been slow in Limerick to date as specific funding has not been available. Never the less CCTV has been installed on a number of key junctions by the City Council. A further expansion of this CCTV system is required to incorporate more junctions. The City Council has a supply and maintenance contract in place with bandwidth Communications for CCTV.

Galway County Council

Initial Report

Project Title	Galway City UTMC/UTC and VMS
Priority Area/Area(s)	1 & 2
Project Region	Galway Region
Objective	To develop an urban traffic control system for the purposes of traffic information collection and traffic management
Lead Organisation(s)	Galway City Council (Local Authority)
Project Status	A SPOT Utopia Urban Traffic Control System has been developed for Galway City. Work on the development of the UTC system began in 2011 with the first junction being connected in 2012. To date, 25 traffic signal controllers are connected to the traffic control system. The UTMC system also provides for parking guidance, variable messaging, journey time monitoring, environmental monitoring, CCTV and fault management. To date, five VMS are in operation. Nine Bluetooth journey time monitors are being deployed across the road network. A contract for parking guidance is currently in operation with the intention of connecting sixteen car parks, together with ten full matrix VMS and twenty-four parking guidance signs. It is anticipated that this parking guidance system will be in operation by the end of 2014. A dedicated fibre optic communications network to most traffic signal controllers has also been rolled out.

Five Year Plan

Traffic Control

Project Title	CCTV Cameras
Priority Area(s)	1
Project Region	Local level multiple locations
Objectives and description	Installation of CCTV camera at key locations and linkage to Traffic Management Control Centres
Sponsor	NA
Lead organisation	Local authorities
Project Status	Galway City Council currently has twenty-two CCTV cameras in operation for use in traffic management and control. It is intended to install eight additional CCTV cameras across the City transport network by year end 2014. Further CCTV cameras will be rolled out in conjunction with network improvements.

Envisaged actions 2012 - 17	Expansion of CCTV monitoring and further co-ordination of same.
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Kildare County Council

Initial Report

Project Title	Kildare Traffic Management Centre
Priority Area/Area(s)	2
Project Region	County Kildare
Objective	To implement a remote monitoring traffic management centre for signalised junctions in both urban and rural environments
Lead Organisation(s)	Kildare County Council (Local Authority)
Project Status	Completed and in operation

Five Year Plan

Traffic Control

Project Title	CCTV Camera Network
Priority Area(s)	1
Project Region	County Kildare
Objectives and description	Installation of CCTV camera at key locations and linkage to Traffic Management Control Centres
Sponsor	N/A
Lead organisation	Local Authority
Project Status	Ongoing
Envisaged actions 2012 - 17	Network of 54 co-ordinated CCTV monitoring sites. 13 Red Light Monitoring CCTV cameras at signalised shuttle working over/under railway lines in County Kildare. 2 CCTV Speed Monitoring sites to be maintained and evaluated as Pilot Project.

Dun Laoghaire Rathdown County Council

Initial Report

Included under Common Projects

Five Year Plan

Traffic Control

Project Title	CCTV Cameras
Priority Area(s)	1
Project Region	Local level multiple locations
Objectives and description	Installation of CCTV camera at key locations and linkage to Traffic Management Control Centres
Sponsor	NA
Lead organisation	Local authorities
Project Status	DLRCC have 38 CCTV cameras on the road network within the County and these are connected to the Dublin City Council Traffic Management Control

	Centre (DLRCC have access and control from our offices).
Envisaged actions 2012 - 17	Addition of a further 10 to 15 new sites at strategic locations on road network.

Other

Project Title	Fibre Optic Cable
Priority Area/Area(s)	1
Project Region	County Dublin
Objective	DLRCC are installing fibre optic cable for the provision of improvements to the traffic network. Infrastructure such as traffic signals, CCTV and VMS will be connected to the fibre network.
Lead Organisation(s)	DLRCC
Project Status	4 NRA operated signed in the area. Envisaged installation of 4-6 VMS with the area.

Fingal County Council

Traffic Control

Project Title	CCTV Cameras
Priority Area(s)	1
Project Region	Fingal County Council
Objectives and description	Installation of CCTV camera at key locations and linkage to Traffic Management Control Centres
Sponsor	NA
Lead organisation	Local authorities
Project Status	Ongoing. Dublin County Council maintains and operates CCTV equipment in Fingal as a shared service. 9 CCTV cameras installed in Blanchardstown/Castleknock Road in 2011. 3 cameras installed at Mulhuddart interchange in 2013. 3 cameras installed at Swords road near Airport in 2013. Expansion of CCTV monitoring and further co-ordination of same where development occurs.
Envisaged actions 2012 - 17	Ongoing installation of CCTV in Blanchardstown, Snugborough interchange N3, Castaheany interchange N3, Swords Road subject to funding for upgrades, bus and cycle priority schemes.

Railway Procurement Agency

Initial Report

Project Title	Luas light rail signalling system interface with urban traffic control systems
Priority Area/Area(s)	2
Project Region	Dublin Region
Objective	To interface signalling system with various local authority urban traffic control systems
Lead Organisation(s)	Railway Procurement Agency (National Agency) Dublin City Council (Local Authority)

	South Dublin County Council (Local Authority) Dun Laoghaire Rathdown County Council (Local Authority)
Project Status	Completed and in operation. Refinements and enhancements will be implemented on an ongoing basis and all extensions to the current passenger infrastructure will incorporate the integration already in place on commissioned lines.

New

Project Title	App for the vision impaired
Priority Area/Areas	1
Project Region	Dublin Region
Objective	To make the Luas forecast application available to the vision impaired.
Lead Organisation(s)	Railway Procurement Agency (National Agency)
Project Status	In place

Project Title	Improvements to RTPi
Priority Area/Areas	1
Project Region	Dublin Region
Objective	Improve the accuracy of RTPi
Lead Organisation(s)	Railway Procurement Agency (National Agency)
Project Status	A self-righting watchdog software program, running on the Automatic Vehicle Location System, monitors the operation of RTPi. The program automatically detects problems and takes corrective action.

Project Title	Upgrade internal CCTV
Priority Area/Areas	3
Project Region	Dublin Region
Objective	Improve security and incident management
Lead Organisation(s)	Railway Procurement Agency (National Agency)
Project Status	The system now uses high quality digital cameras to record incidents of anti-social behaviour and petty crime with the vehicles.

Project Title	Update of Luas stop CCTV
Priority Area/Areas	3
Project Region	Dublin Region
Objective	Improve security and incident management
Lead Organisation(s)	Railway Procurement Agency (National Agency)
Project Status	Pilot at one stop using IP cameras.

Project Title	Red light camera project
Priority Area/Areas	3
Project Region	Dublin Region
Objective	Improve safety through collision avoidance
Lead Organisation(s)	Railway Procurement Agency (National Agency)
Project Status	In December 2010 red light cameras were installed at two locations. Further to a 12 month pilot programme, one of these is being incorporated into the national police fixed charge penalty notice system and scheduled to become active in 2014.

Project Title	Signals Passed at Danger Detection (SPAD) Project
Priority Area/Areas	3
Project Region	Dublin Region
Objective	Improve safety
Lead Organisation(s)	Railway Procurement Agency (National Agency)
Project Status	A trial is in progress based on an intelligent video system. SPADs are recorded with the tram which can be used to alert the driver and the control centre.

Project Title	Increased Auto-routing
Priority Area/Areas	4
Project Region	Dublin Region
Objective	More efficient operation of service
Lead Organisation(s)	Railway Procurement Agency (National Agency)
Project Status	The train route is requested automatically at one junction and further expansion is planned. The measure was introduced in response to the increased complexity of the Luas network arising from line extensions.

DTTAS

Initial Report

NA

Five Year Plan

Project title	National ITS Strategy
Priority Area(s)	1, 2, 3 & 4
Project region	National
Objectives and description	To facilitate the co-ordination of ITS deployment in Ireland
Sponsor	DTTAS
Lead organisation	DTTAS
Project status	Consultation to begin autumn 2014.
Envisaged actions	Specialists have been recruited to develop this report and it is expect to be

2012 - 17	completed in Q1 2015. It is in an action under the Government's <i>Action Plan for Jobs</i> .
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Local Government Management Agency

Initial Report

NA

Five Year Plan

Project title	Road asset monitoring
Priority Area(s)	1
Project region	National
Objectives and description	To develop a central national road management system (involving GIS) focussing on pavement management and speed limits initially and shared services.
Sponsor	DTTAS
Lead organisation	Local Government Management Agency
Project status	Core system implemented nationally – addressing initial requirements. Centralised system currently been implemented. Further areas for development being identified and development ongoing.
Envisaged actions 2012 - 17	DTTAS is developing a central and shared road management system using Open Source Technology to gain efficiencies in the Road Management Arena. Initial focus is on Pavement Management and Road Works Licencing (to support a Government Decision) as well as Speed Limits.
Context	This will be used to support other ITS Deployment projects such as Intelligent Speed Adoption (ISA).

Local Government Management Agency

Project Title	Roadworks Monitoring
Priority Area/Area(s)	1
Project Region	National Projects
Objective	To develop a central online road works registration/licensing and monitoring system in the State involving GIS. This is in line with optimal use of road, traffic and travel data as set out in the Directive
Lead Organisation(s)	Local Government Management Agency (national-level organisation) and local authorities including Cork City Council
Project Status	Implementation of Phase 1 is underway – expectation is to have this complete for the sector by end of 2014. Phase 2 (additional functionality) to commence in 2015.

ESB eCars

Initial Report

NA

Five Year Plan

Miscellaneous

Project title	Electric Vehicle Infrastructure
Priority Area(s)	1 & 4
Project region	National
Objectives and description	Develop national network of public charging points.
Sponsor	ESB – eCars
Lead organisation	ESB – eCars
Project status	Currently in deployment
Envisaged actions 2012 - 17	Currently installed 815 AC chargers and 62 DC/Fast Chargers with and expected increase by year end (2014) to 900 and 70-100 respectively. See here for maps of public charge points: http://www.esb.ie/electric-cars/electric-car-charging/electric-car-charge-point-map.jsp

Common Projects

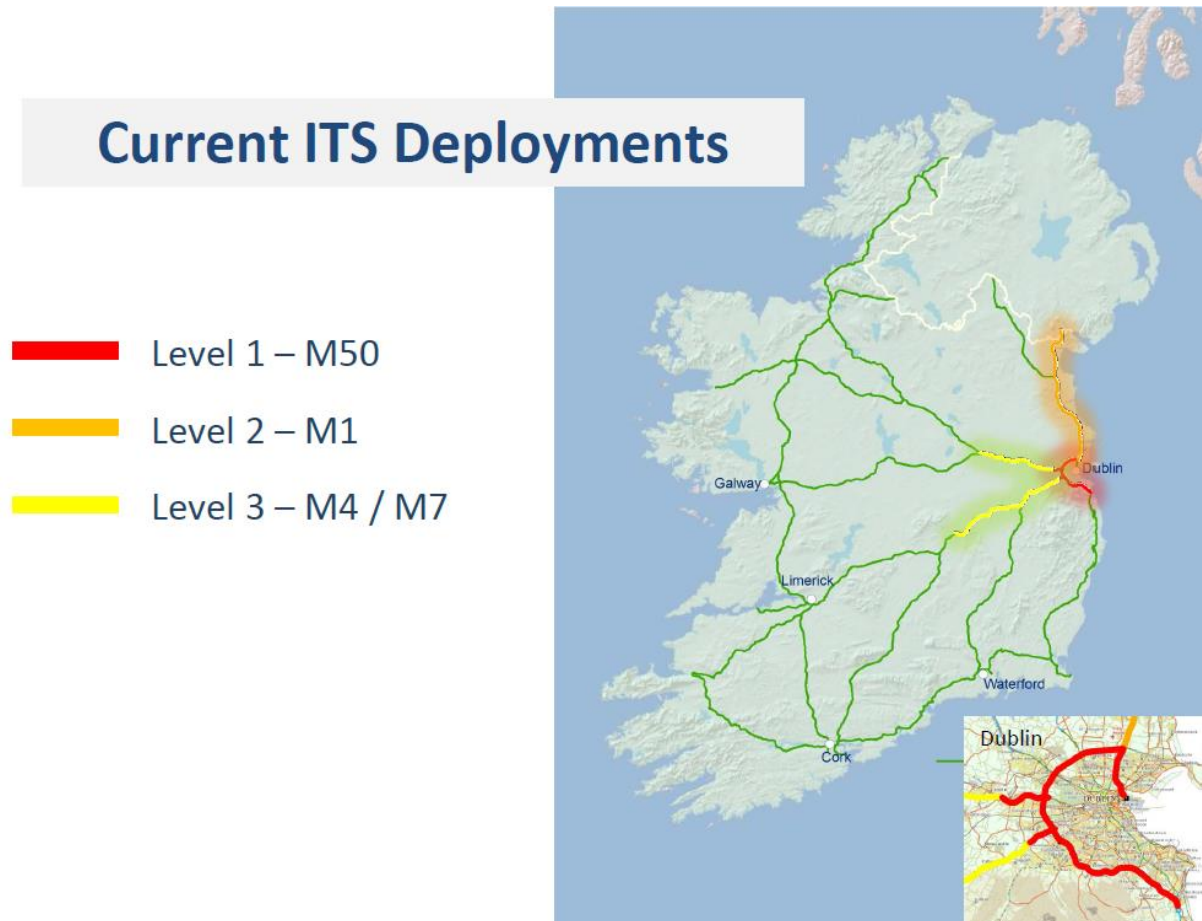
Project Title	Remote Monitoring System (RMS)
Priority Area/Area(s)	2
Project Region	Country-wide
Objective	The Remote Monitoring System (RMS) implemented in multiple urban centres caters for the monitoring of traffic signal controlled junctions, including Microprocessor Optimised Vehicle Actuation (MOVA) sites not on the UTC System.
Lead Organisation(s)	Various local authorities
Project Status	RMSs are in widespread use with new sites being included in some systems on an ongoing basis. In one local authority remote pedestrian crossing sites are being incorporated. In another 98% of sites are on the RMS.

Project Title	Microprocessor Optimised Vehicle Actuation
Priority Area/Area(s)	1 & 2
Project Region	Country-wide
Objective	Installation of MOVA (Microprocessor Optimised Vehicle Actuation) controlled signalised signals at a number of junctions throughout the country.
Lead Organisation(s)	Various local authorities
Project Status	Local authorities continue to implement and expand the use of MOVA.

Project Title	Speed Activated Speed Signs
Priority Area/Area(s)	1
Project Region	National Projects
Objective	To implement speed activated signs
Lead Organisation(s)	Various local and national authorities.
Project Status	In Operation. A review of some types of speed feedback signage has indicated that the response by drivers is contextual.

Project Title	Variable Message Signs
Priority Area/Areas	1
Project Region	National Projects
Objective	VMS to provide for relevant, accurate and timely communication of information on the status of the network and to highlight Road Safety issues.
Lead Organisation(s)	Various local and national authorities
Project Status	VMS are in widespread use around the country with particular progress being made in Cork (see report above) and Limerick where a VMS and PGS was installed in the last number of years. A further expansion of this system is required on approach roads in the City. In Galway additional VMS signs are proposed to be rolled out as part of Galway City Councils Parking Guidance System project in 2014 to bring the total number of signs to 34. In Fingal, on regional and local roads, safety signage and speed warning activated signage are installed on ongoing basis at areas where there is accident history. Currently VMS installed at 20 locations.

Annex 2 – Maps (NRA)



Key

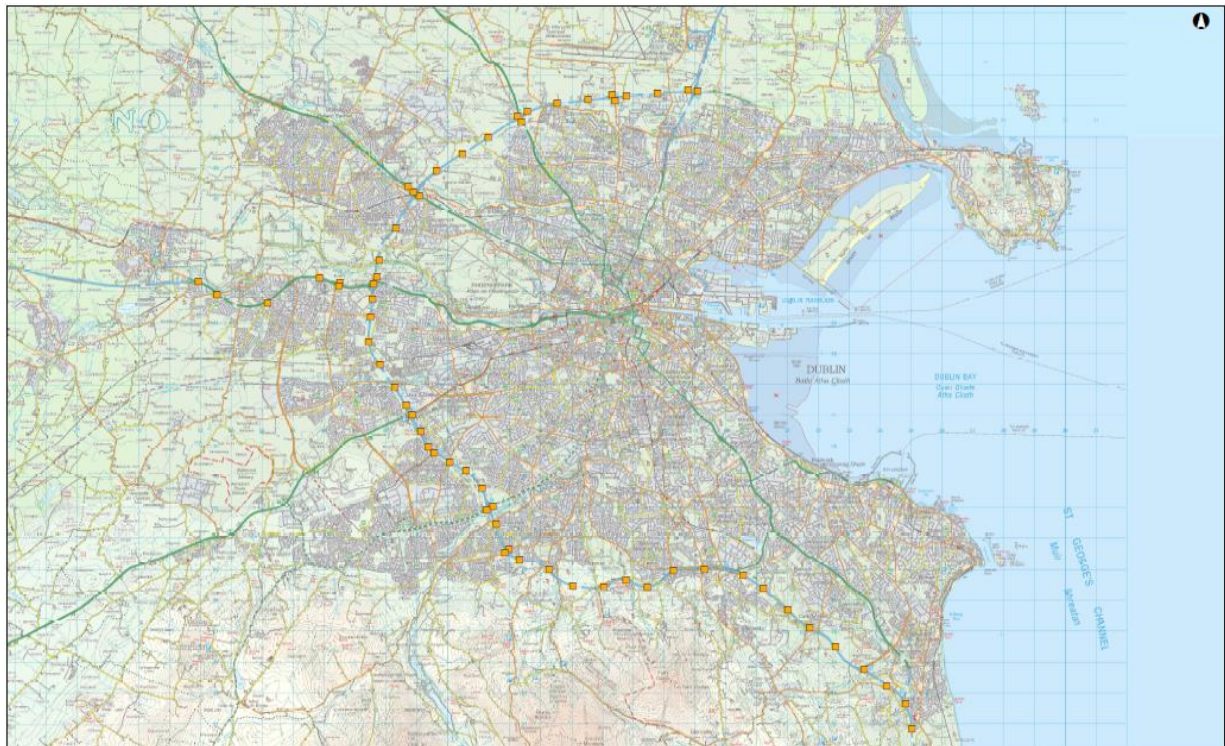
Level 1 - VMS at all junctions, full CCTV coverage and incident detection.

Level 2 - typically VMS deployed at every second or third junction and with limited CCTV

Level 3 - lower level deployment on lower volume sections of the motorway network.

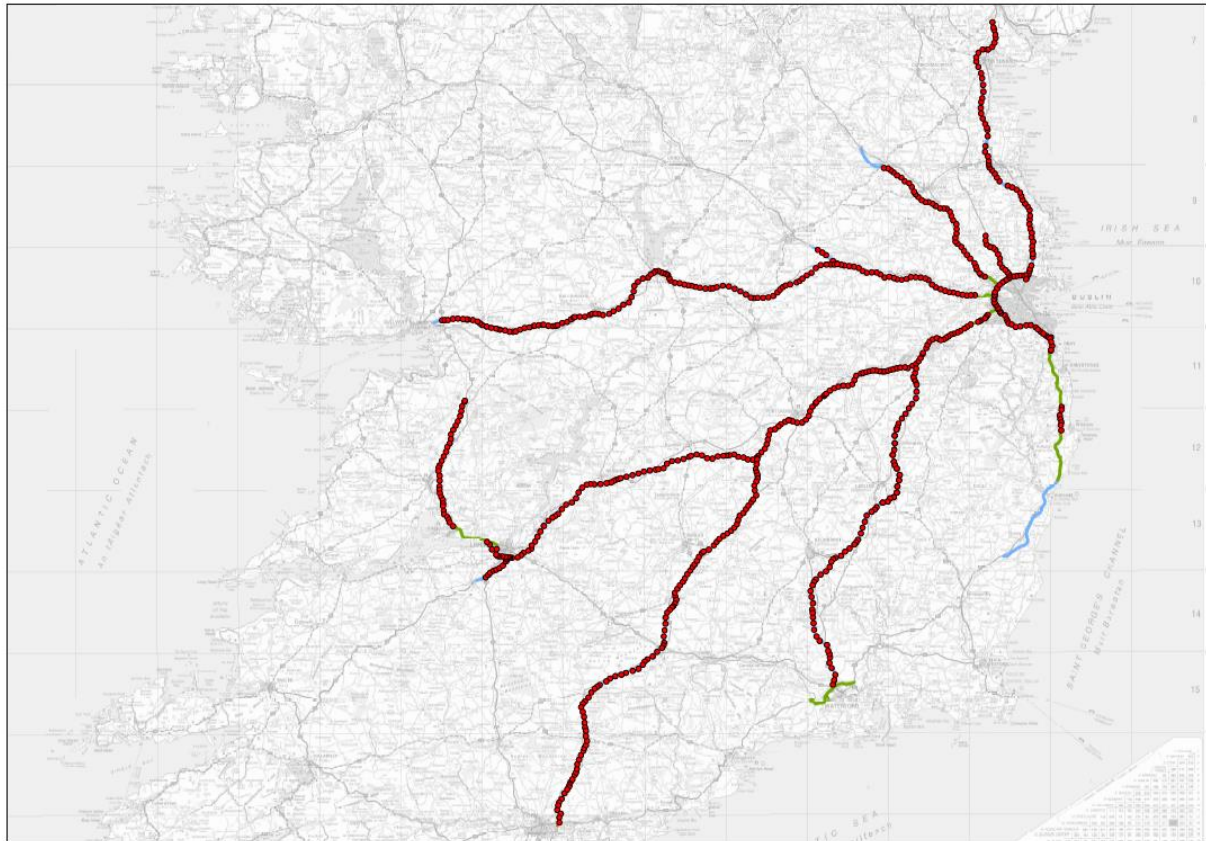
NRA

CCTV Coverage (Motorway Traffic Control Centre)



NRA

Emergency Roadside Telephone locations



NRA

Toll Roads

TOLL ROADS IN IRELAND



ESB

Electric Car Charge Points



Dublin City

dublinbikes interactive map - screen shot

