TRAVEL TIME TO
THE BEACH
4 HRS 11 MINS

KEVIN O'SULLIVAN
MANAGER
MOTORWAY TRAFFIC CONTROL CENTRE

egis road & tunnel operation
Ireland

MTCC
Motorway Traffic Control Centre

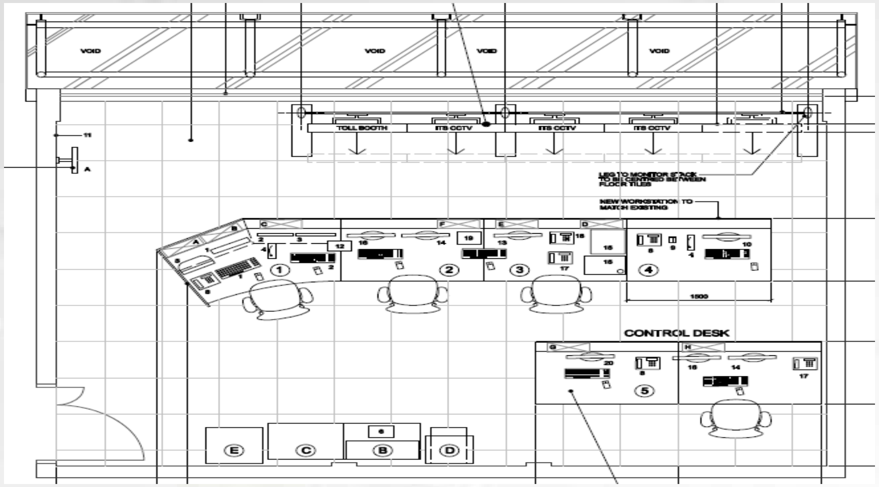
Operational Role

- Strategic change in NRA emphasis from road building to better management of road network
- MTCC, Operational Role;
  - Incident Management
  - Planned Events
  - Emergency Roadside Telephones (ERT)
  - Communications
  - Reporting

Operational Equipment

- Leading to expansion of Nationwide ITS infrastructure
- MTCC, Operational;
  - Closed Circuit TV(CCTV)
  - Emergency Roadside Telephones (ERT)
  - VMS /ATMS
  - NRA Traffic Website
  - Communications
  - Information Management Systems

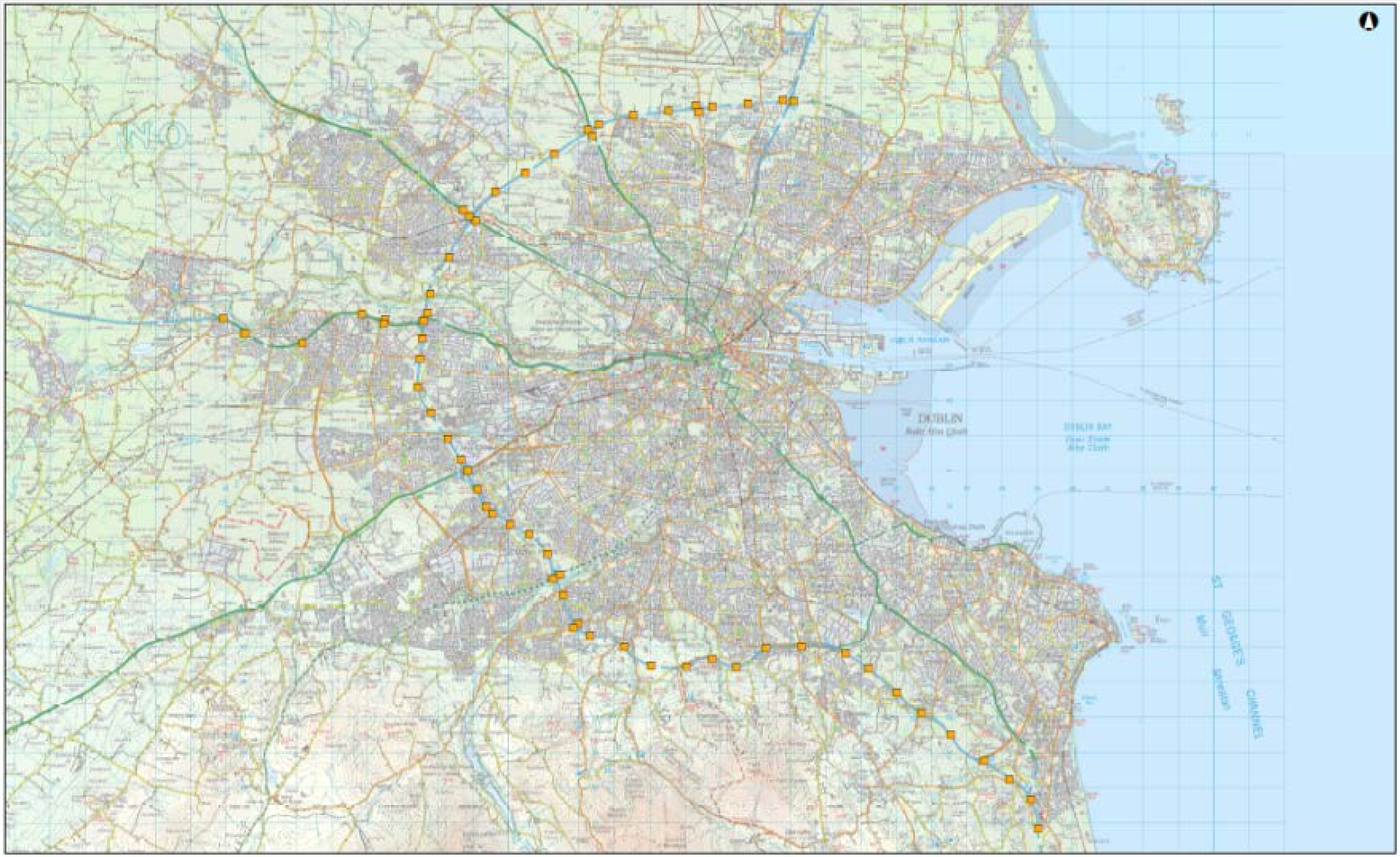
MTCC


VOID
VOID
VOID
VOID
TOLL BOOTH
ITS CCTV
ITS CCTV
ITS CCTV
LEG TO MONITOR STACK TO BE CENTRED BETWEEN FLOOR TILES
NEW WORKSTATION TO MATCH EXISTING
CONTROL DESK
1500
① ② ③ ④ ⑤
A B C D E F G H
Ⓔ Ⓒ Ⓑ Ⓓ

CCTV

- Connection to DCC CCTV Network
- New NRA CCTV Network
- Coverage in GDA
- Analytics
- Connection to External Networks.
- NRA feed to 3rd Parties

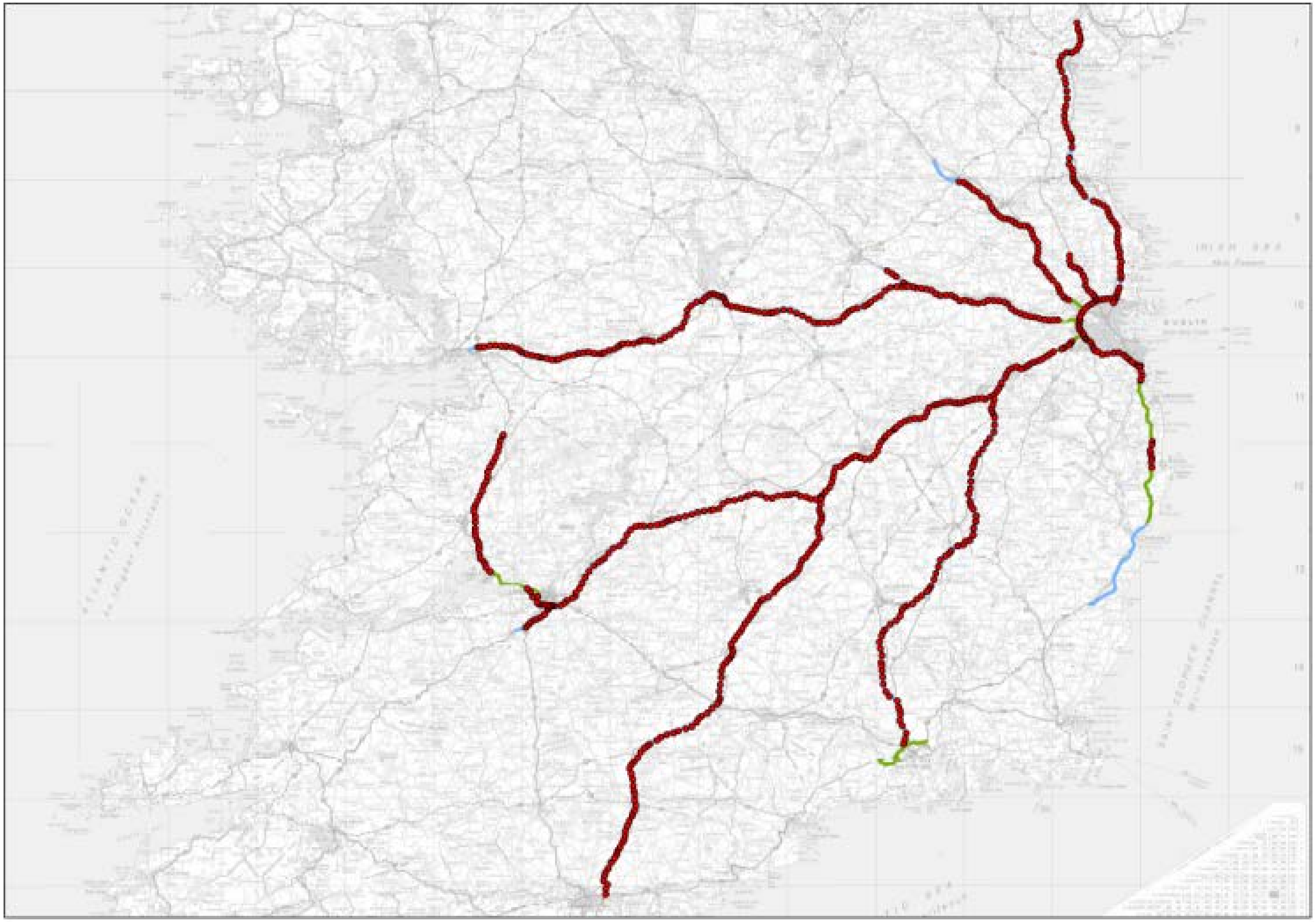
CCTV Coverage


DUBLIN
DUBLIN BAY
ST GEORGE'S CHANNEL

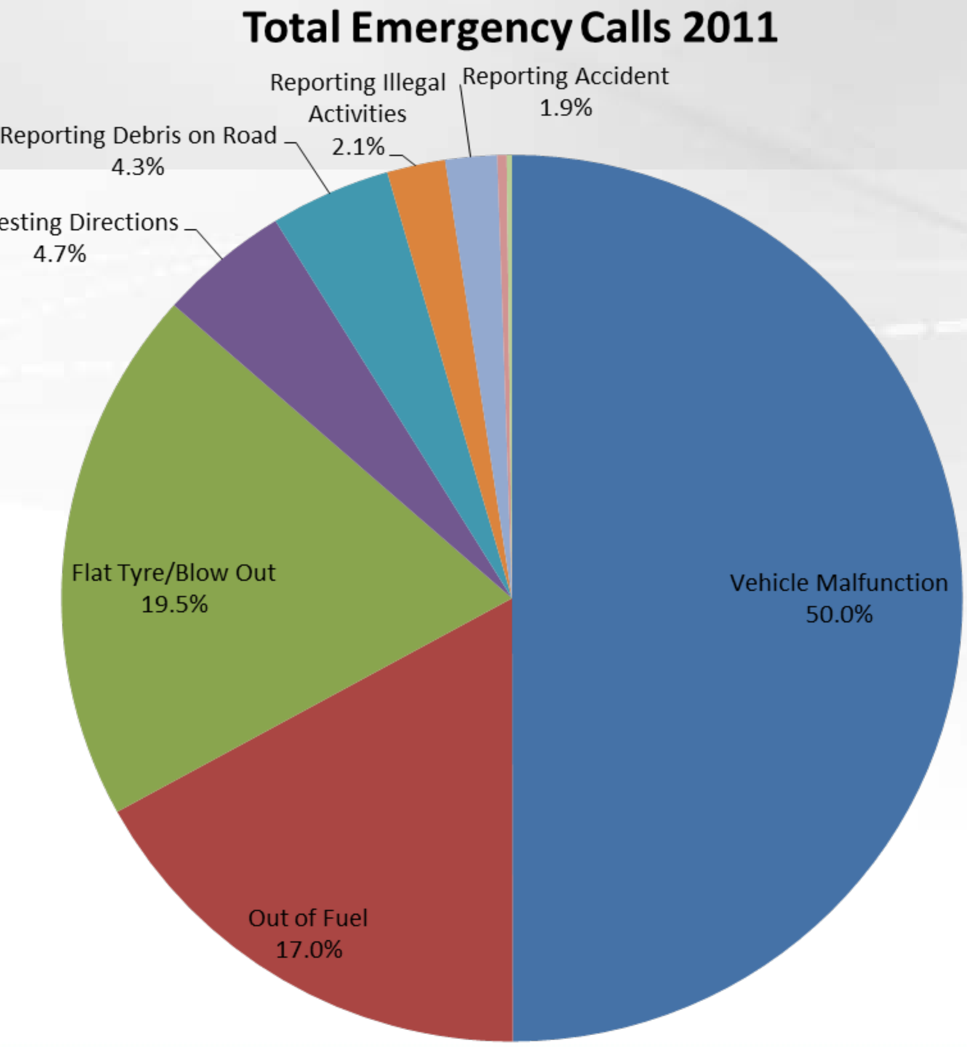
ERT

- ERT’s located on major routes throughout the country
- All phones from Newbridge now redirected to MTCC
- Total of 1244 ERT’s
- ERT App

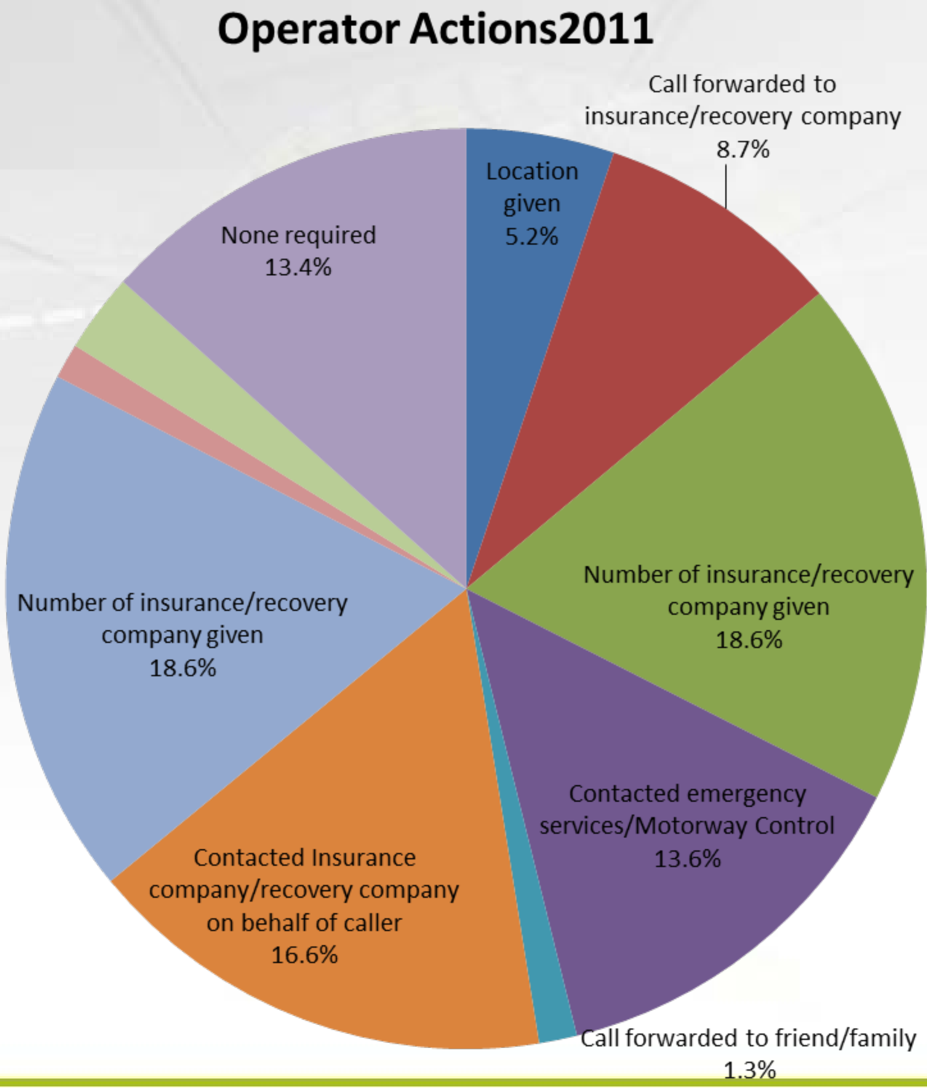
ERT Locations



ERT Data



Total Emergency Calls 2011

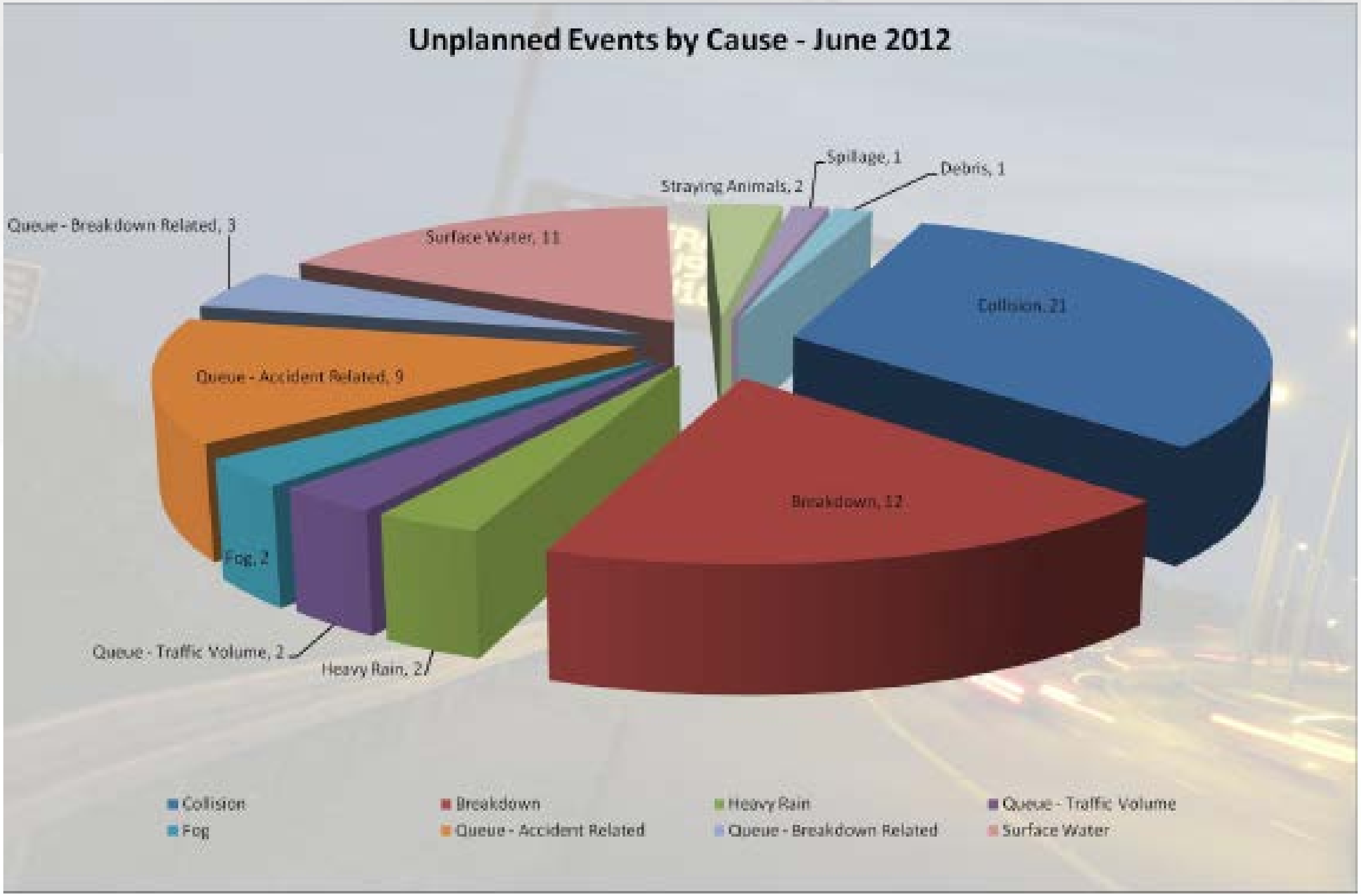


Operator Actions2011

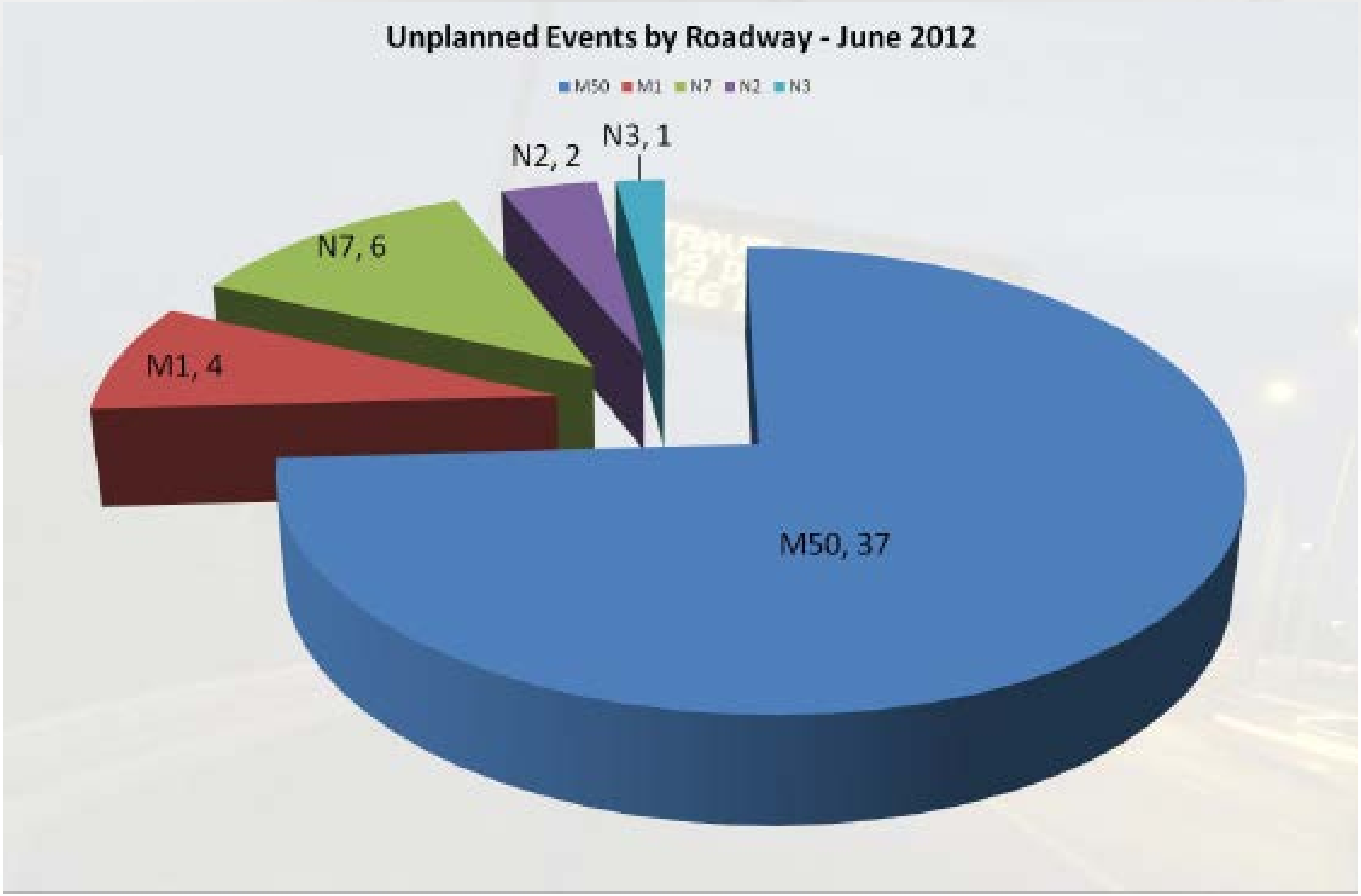
VMS / ATMS

- VMS currently located on M50 and Inter-Urban Routes
- All VMS on Inter-Urban’s to be operational shortly
- Active Traffic Management of Unplanned Events
  - Incidents
  - Weather Events
- Management of Planned Events
  - Road Works
  - Major National Events
  - Safety Campaigns
- Real Time Journey Information
- Automatic Incident Detection

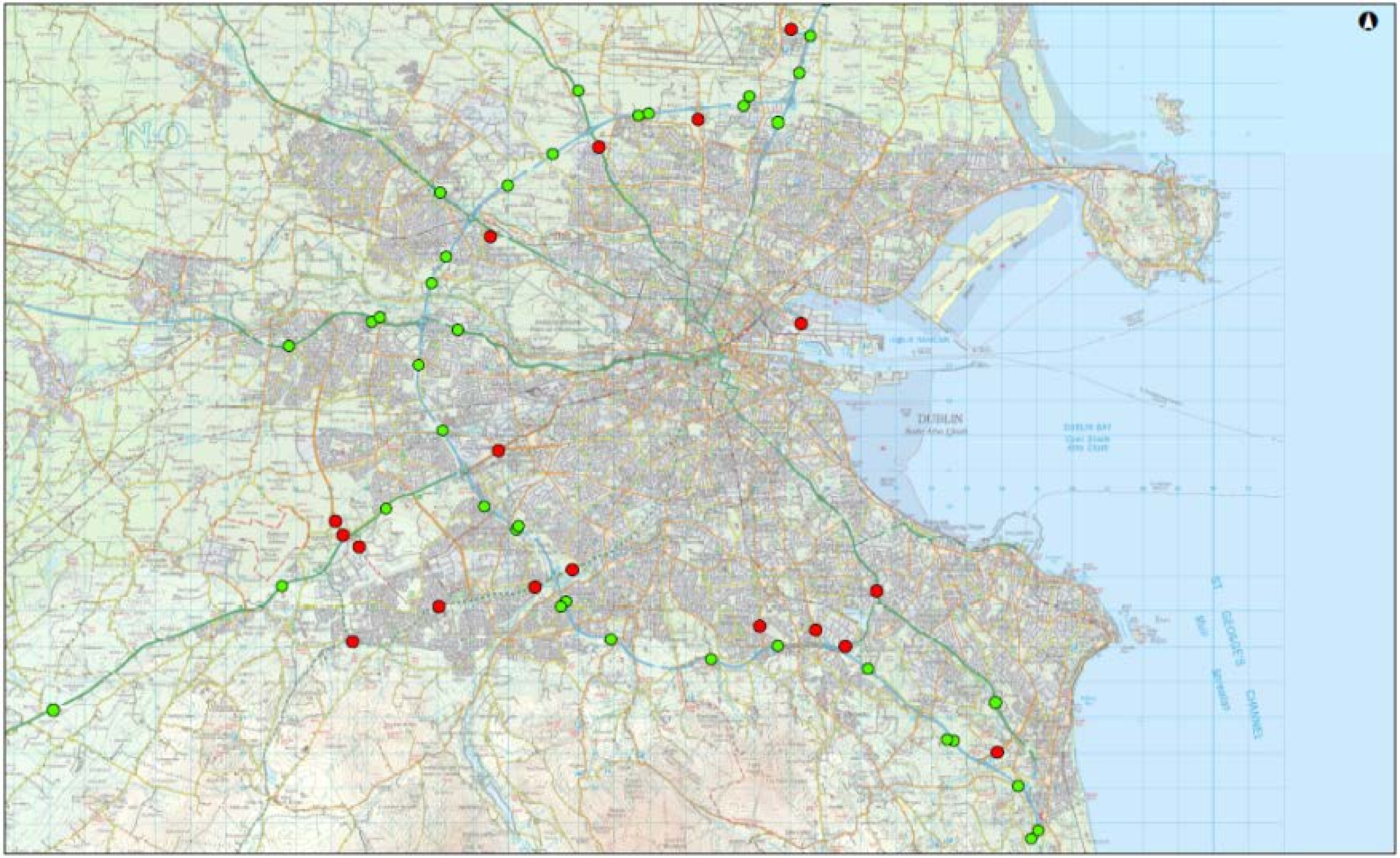
Unplanned Events Type



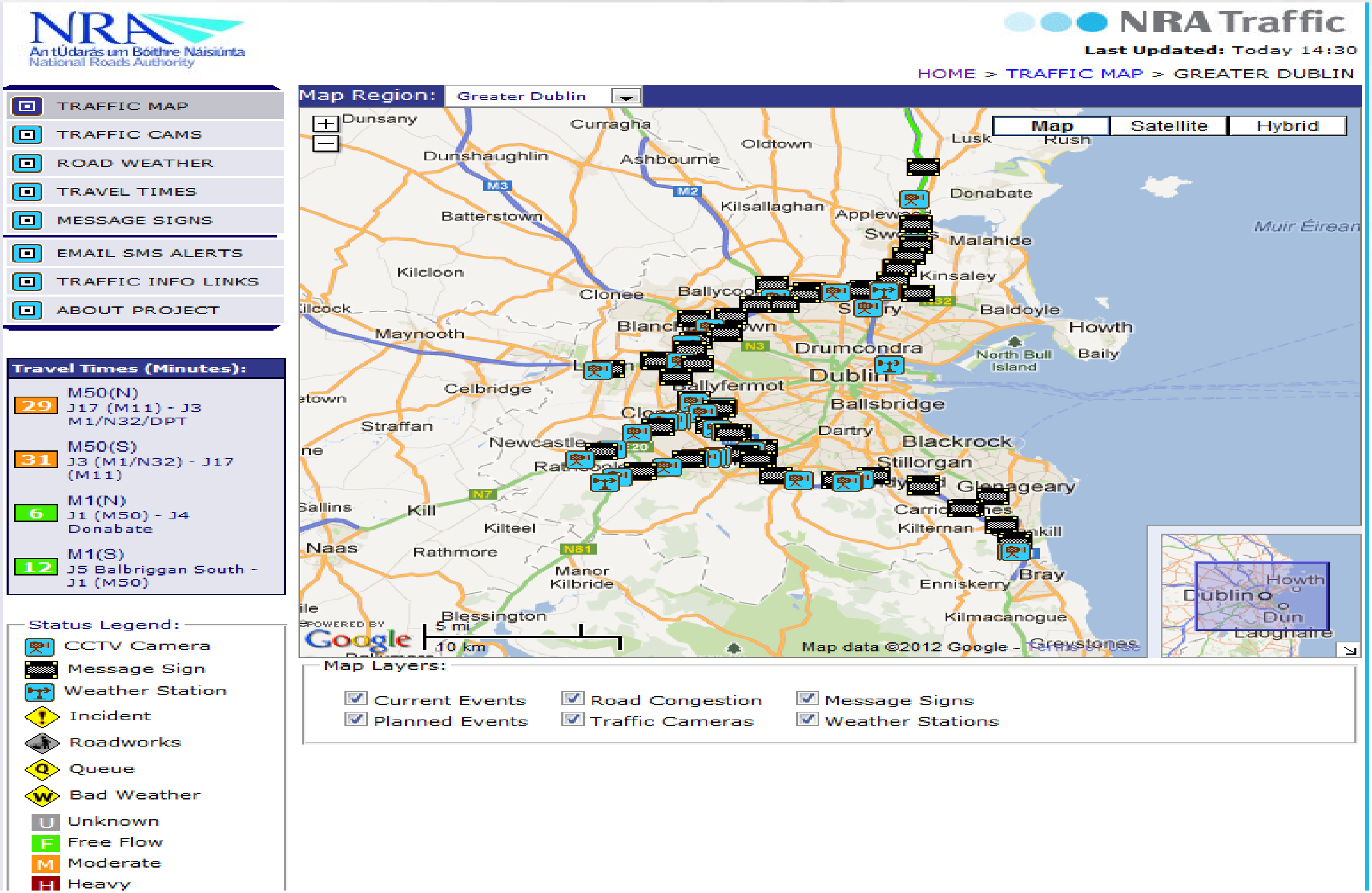
Unplanned Events By Motorway



VMS Mapping


DUBLIN
ST GEORGE'S CHANNEL

NRA Traffic Website


NRA
An tÚdarás um Bóithre Náisiúnta
National Roads Authority
NRA Traffic
HOME > TRAFFIC MAP > GREATER DUBLIN
TRAFFIC MAP
TRAFFIC CAMS
ROAD WEATHER
TRAVEL TIMES
MESSAGE SIGNS
EMAIL SMS ALERTS
TRAFFIC INFO LINKS
ABOUT PROJECT
Map
Satellite
Hybrid
Dunsany
Curragha
Oldtown
Lusk
Rush
Dunshaughlin
Ashbourne
M3
M2
Donabate
Kilsallaghan
Batterstown
Malahide
Muir Éireann
Kilcloon
Kinsaley
Clonee
Baldoyle
Maynooth
Howth
Drumcondra
North Bull Island
Baily
Dublin
Celbridge
Ballyfermot
Ballsbridge
Straffan
Dartry
Newcastle
Blackrock
Stillorgan
Glenageary
N7
Sallins
Kill
Kilteel
Kilternan
Naas
Rathmore
N81
Manor Kilbride
Bray
Enniskerry
Blessington
Kilmacanogue
5 mi
10 km
POWERED BY Google
Map data ©2012 Google - Terms of Use
Greystones
Howth
Dublin
Dun Laoghaire

Last Updated: Today 14:30

Map Region: Greater Dublin

Travel Times (Minutes):

29	M50(N) J17 (M11) - J3 M1/N32/DPT
31	M50(S) J3 (M1/N32) - J17 (M11)
6	M1(N) J1 (M50) - J4 Donabate
12	M1(S) J5 Balbriggan South - J1 (M50)

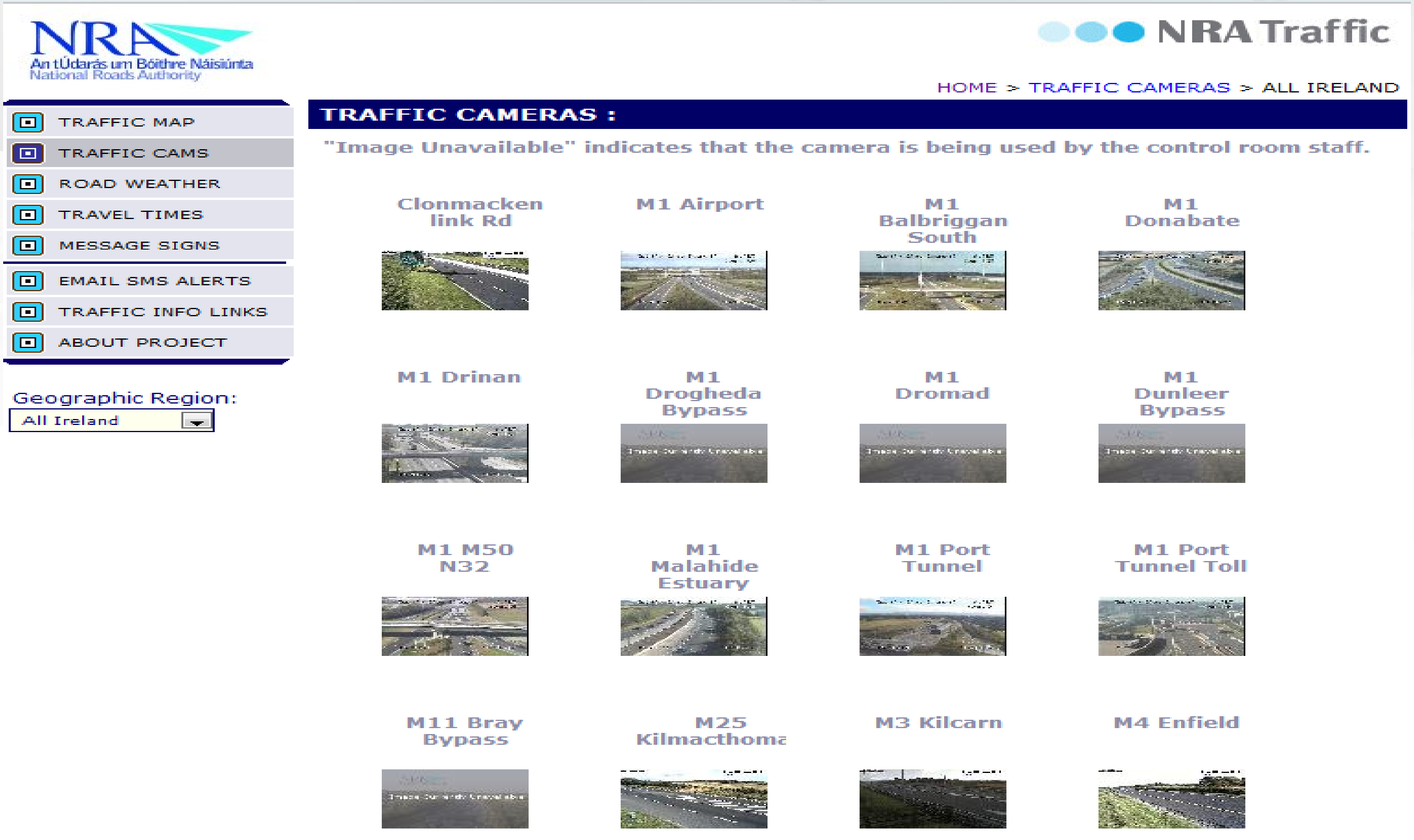
Status Legend:

- CCTV Camera
- Message Sign
- Weather Station
- Incident
- Roadworks
- Queue
- Bad Weather
- U Unknown
- F Free Flow
- M Moderate
- H Heavy

Map Layers:

☑ Current Events ☑ Road Congestion ☑ Message Signs
☑ Planned Events ☑ Traffic Cameras ☑ Weather Stations

Traffic Cameras

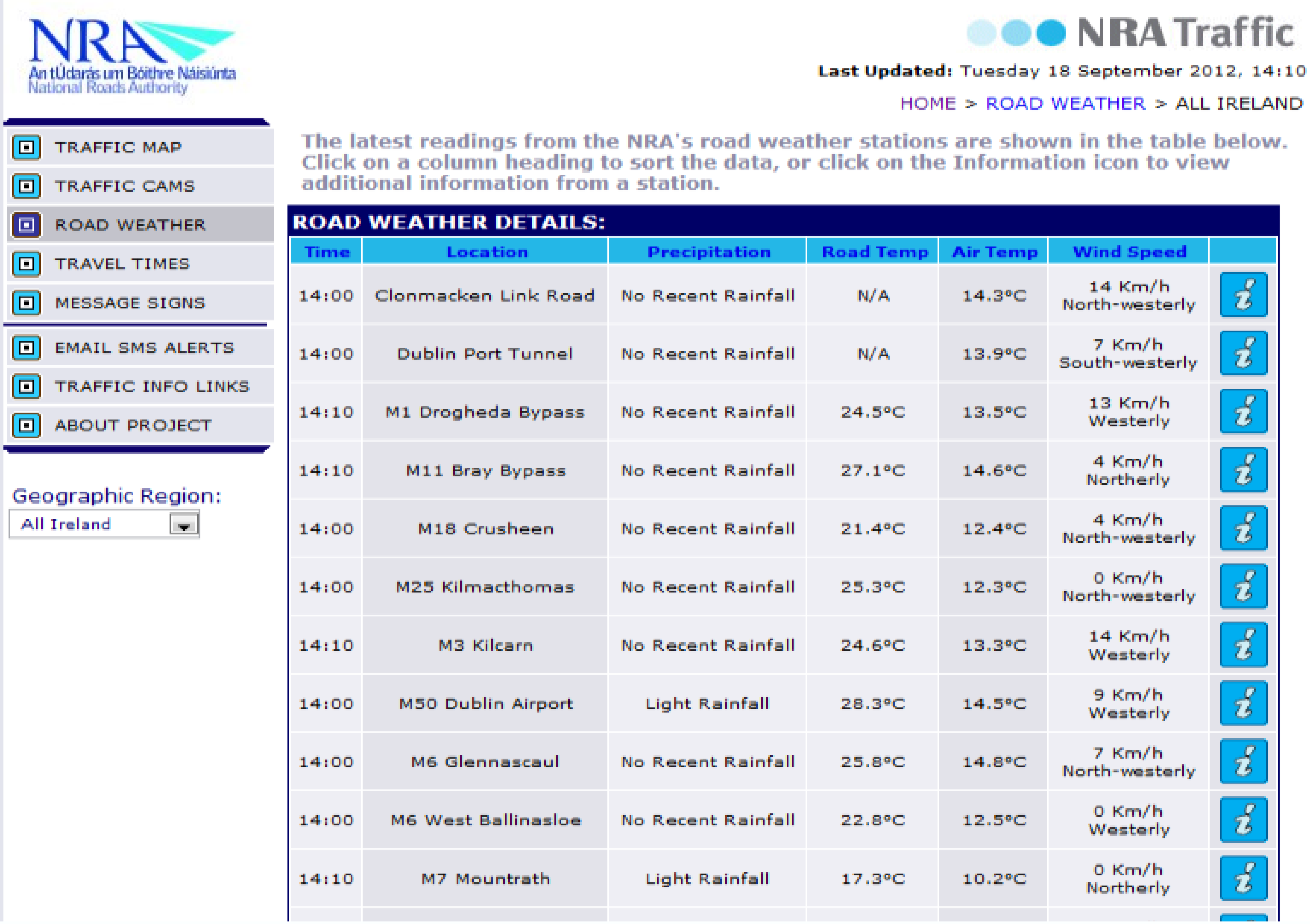

NRA
An tÚdarás um Bóithre Náisiúnta
National Roads Authority
NRA Traffic
HOME > TRAFFIC CAMERAS > ALL IRELAND
TRAFFIC MAP
TRAFFIC CAMS
ROAD WEATHER
TRAVEL TIMES
MESSAGE SIGNS
EMAIL SMS ALERTS
TRAFFIC INFO LINKS
ABOUT PROJECT
Geographic Region:
All Ireland

TRAFFIC CAMERAS :

"Image Unavailable" indicates that the camera is being used by the control room staff.

Clonmacken link Rd	M1 Airport	M1 Balbriggan South	M1 Donabate
M1 Drinan	M1 Drogheda Bypass	M1 Dromad	M1 Dunleer Bypass
M1 M50 N32	M1 Malahide Estuary	M1 Port Tunnel	M1 Port Tunnel Toll
M11 Bray Bypass	M25 Kilmacthoma	M3 Kilcarn	M4 Enfield

Weather Information


NRA
An tÚdarás um Bóithre Náisiúnta
National Roads Authority
NRA Traffic
HOME > ROAD WEATHER > ALL IRELAND
TRAFFIC MAP
TRAFFIC CAMS
ROAD WEATHER
TRAVEL TIMES
MESSAGE SIGNS
EMAIL SMS ALERTS
TRAFFIC INFO LINKS
ABOUT PROJECT
Geographic Region:
All Ireland

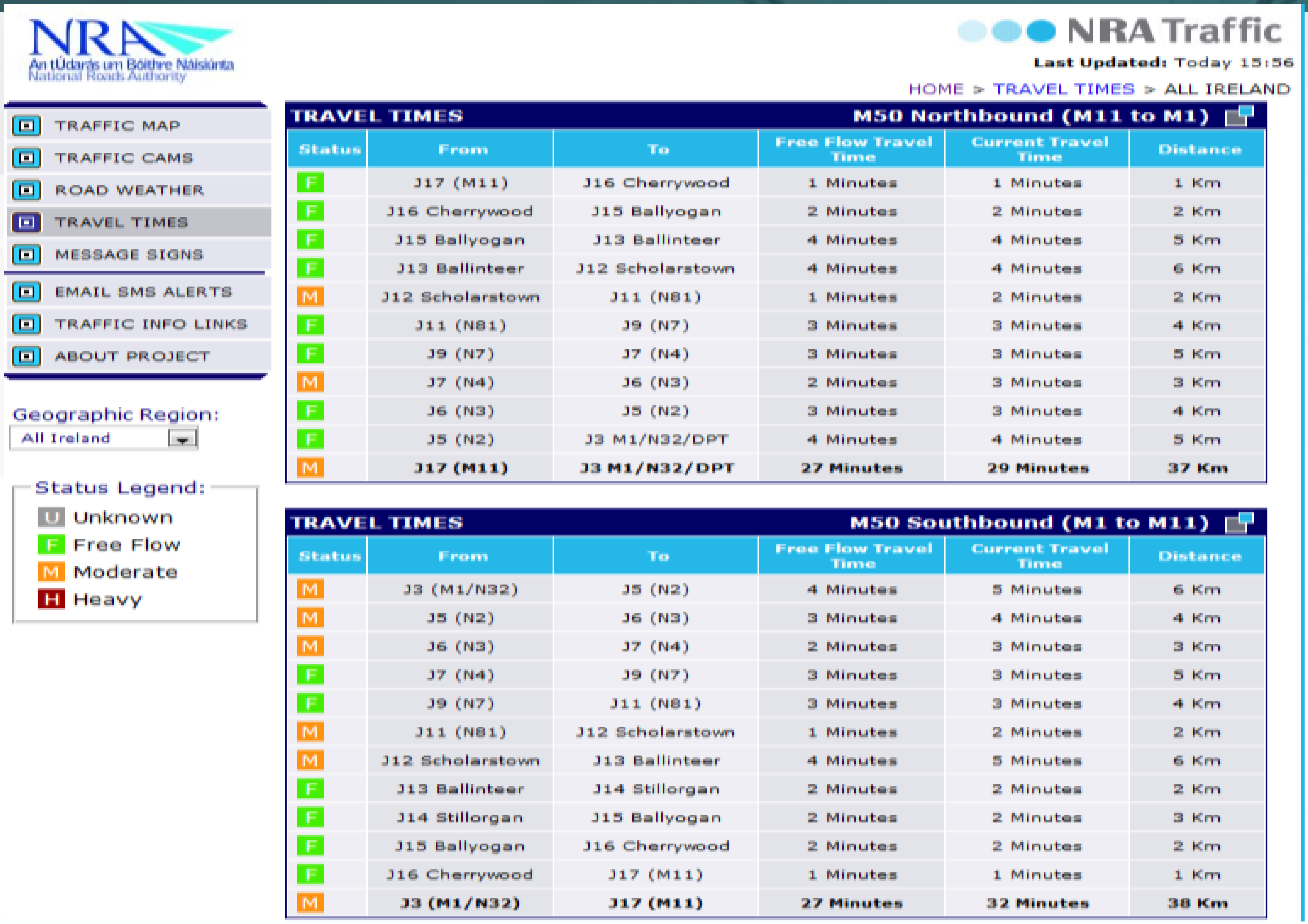
Last Updated: Tuesday 18 September 2012, 14:10

The latest readings from the NRA's road weather stations are shown in the table below. Click on a column heading to sort the data, or click on the Information icon to view additional information from a station.

ROAD WEATHER DETAILS:

Time	Location	Precipitation	Road Temp	Air Temp	Wind Speed	
14:00	Clonmacken Link Road	No Recent Rainfall	N/A	14.3°C	14 Km/h North-westerly	ℹ
14:00	Dublin Port Tunnel	No Recent Rainfall	N/A	13.9°C	7 Km/h South-westerly	ℹ
14:10	M1 Drogheda Bypass	No Recent Rainfall	24.5°C	13.5°C	13 Km/h Westerly	ℹ
14:10	M11 Bray Bypass	No Recent Rainfall	27.1°C	14.6°C	4 Km/h Northerly	ℹ
14:00	M18 Crusheen	No Recent Rainfall	21.4°C	12.4°C	4 Km/h North-westerly	ℹ
14:00	M25 Kilmacthomas	No Recent Rainfall	25.3°C	12.3°C	0 Km/h North-westerly	ℹ
14:10	M3 Kilcarn	No Recent Rainfall	24.6°C	13.3°C	14 Km/h Westerly	ℹ
14:00	M50 Dublin Airport	Light Rainfall	28.3°C	14.5°C	9 Km/h Westerly	ℹ
14:00	M6 Glennascaul	No Recent Rainfall	25.8°C	14.8°C	7 Km/h North-westerly	ℹ
14:00	M6 West Ballinasloe	No Recent Rainfall	22.8°C	12.5°C	0 Km/h Westerly	ℹ
14:10	M7 Mountrath	Light Rainfall	17.3°C	10.2°C	0 Km/h Northerly	ℹ

Travel Times


NRA
An tÚdarás um Bóithre Náisiúnta
National Roads Authority
NRA Traffic
TRAFFIC MAP
TRAFFIC CAMS
ROAD WEATHER
TRAVEL TIMES
MESSAGE SIGNS
EMAIL SMS ALERTS
TRAFFIC INFO LINKS
ABOUT PROJECT
Geographic Region:
All Ireland

Last Updated: Today 15:56

HOME > TRAVEL TIMES > ALL IRELAND

Status Legend:
- U Unknown
- F Free Flow
- M Moderate
- H Heavy

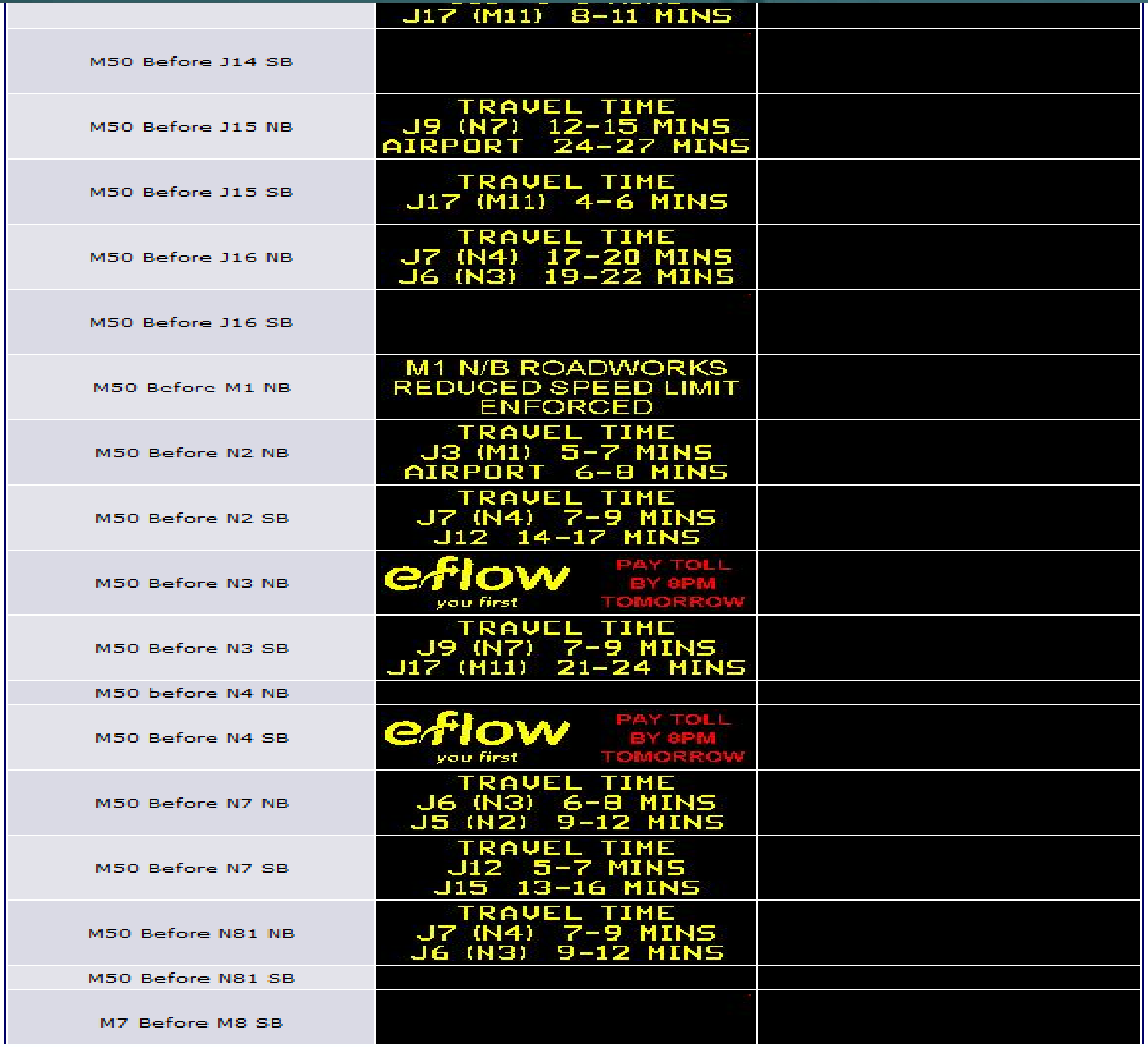
TRAVEL TIMES — **M50 Northbound (M11 to M1)**

Status	From	To	Free Flow Travel Time	Current Travel Time	Distance
F	J17 (M11)	J16 Cherrywood	1 Minutes	1 Minutes	1 Km
F	J16 Cherrywood	J15 Ballyogan	2 Minutes	2 Minutes	2 Km
F	J15 Ballyogan	J13 Ballinteer	4 Minutes	4 Minutes	5 Km
F	J13 Ballinteer	J12 Scholarstown	4 Minutes	4 Minutes	6 Km
M	J12 Scholarstown	J11 (N81)	1 Minutes	2 Minutes	2 Km
F	J11 (N81)	J9 (N7)	3 Minutes	3 Minutes	4 Km
F	J9 (N7)	J7 (N4)	3 Minutes	3 Minutes	5 Km
M	J7 (N4)	J6 (N3)	2 Minutes	3 Minutes	3 Km
F	J6 (N3)	J5 (N2)	3 Minutes	3 Minutes	4 Km
F	J5 (N2)	J3 M1/N32/DPT	4 Minutes	4 Minutes	5 Km
M	**J17 (M11)**	**J3 M1/N32/DPT**	**27 Minutes**	**29 Minutes**	**37 Km**

TRAVEL TIMES — **M50 Southbound (M1 to M11)**

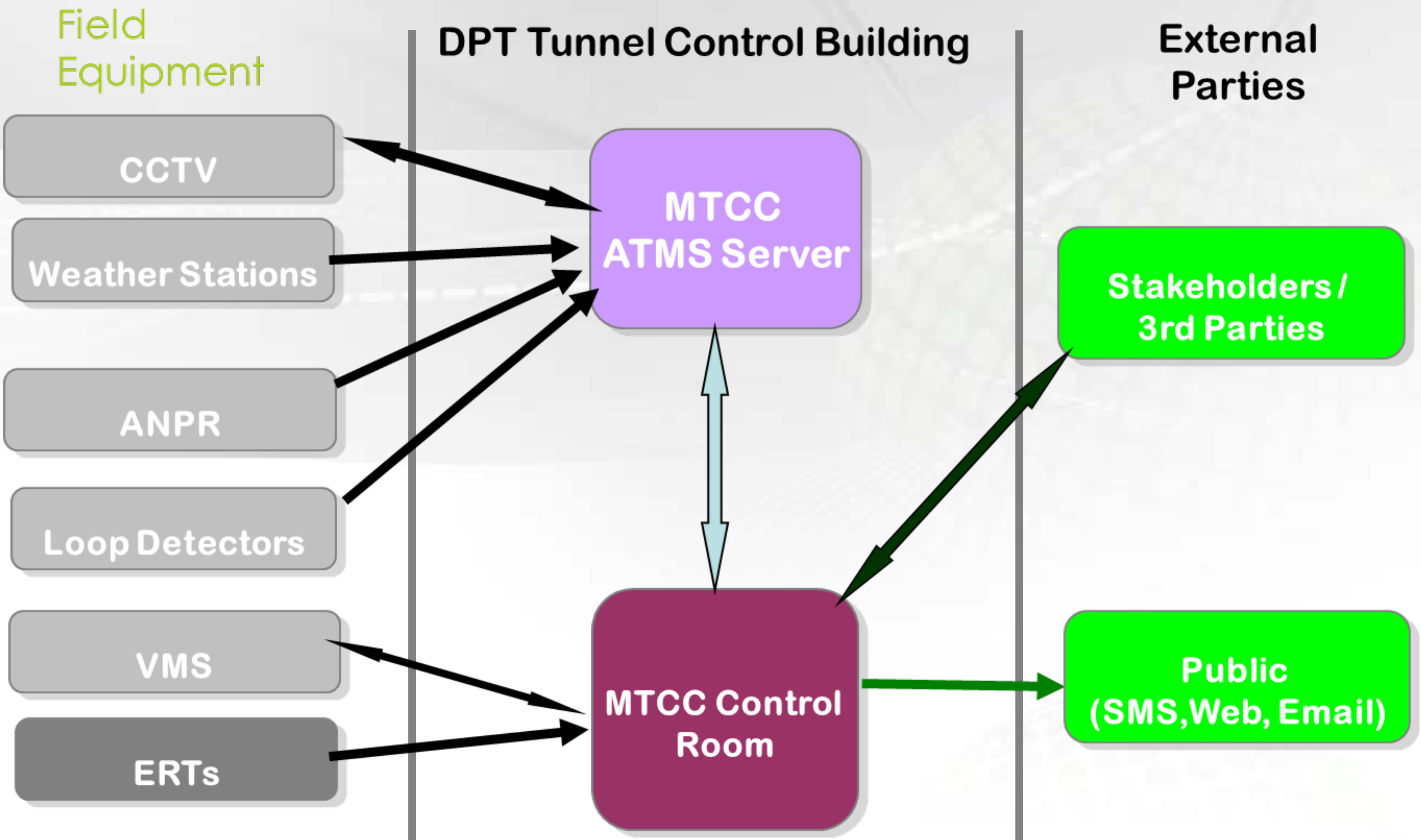
Status	From	To	Free Flow Travel Time	Current Travel Time	Distance
M	J3 (M1/N32)	J5 (N2)	4 Minutes	5 Minutes	6 Km
M	J5 (N2)	J6 (N3)	3 Minutes	4 Minutes	4 Km
M	J6 (N3)	J7 (N4)	2 Minutes	3 Minutes	3 Km
F	J7 (N4)	J9 (N7)	3 Minutes	3 Minutes	5 Km
F	J9 (N7)	J11 (N81)	3 Minutes	3 Minutes	4 Km
M	J11 (N81)	J12 Scholarstown	1 Minutes	2 Minutes	2 Km
M	J12 Scholarstown	J13 Ballinteer	4 Minutes	5 Minutes	6 Km
F	J13 Ballinteer	J14 Stillorgan	2 Minutes	2 Minutes	2 Km
F	J14 Stillorgan	J15 Ballyogan	2 Minutes	2 Minutes	3 Km
F	J15 Ballyogan	J16 Cherrywood	2 Minutes	2 Minutes	2 Km
F	J16 Cherrywood	J17 (M11)	1 Minutes	1 Minutes	1 Km
M	**J3 (M1/N32)**	**J17 (M11)**	**27 Minutes**	**32 Minutes**	**38 Km**

VMS Information



	J17 (M11) 8-11 MINS	
M50 Before J14 SB		
M50 Before J15 NB	TRAVEL TIME J9 (N7) 12-15 MINS AIRPORT 24-27 MINS	
M50 Before J15 SB	TRAVEL TIME J17 (M11) 4-6 MINS	
M50 Before J16 NB	TRAVEL TIME J7 (N4) 17-20 MINS J6 (N3) 19-22 MINS	
M50 Before J16 SB		
M50 Before M1 NB	M1 N/B ROADWORKS REDUCED SPEED LIMIT ENFORCED	
M50 Before N2 NB	TRAVEL TIME J3 (M1) 5-7 MINS AIRPORT 6-8 MINS	
M50 Before N2 SB	TRAVEL TIME J7 (N4) 7-9 MINS J12 14-17 MINS	
M50 Before N3 NB	eflow you first PAY TOLL BY 8PM TOMORROW	
M50 Before N3 SB	TRAVEL TIME J9 (N7) 7-9 MINS J17 (M11) 21-24 MINS	
M50 before N4 NB		
M50 Before N4 SB	eflow you first PAY TOLL BY 8PM TOMORROW	
M50 Before N7 NB	TRAVEL TIME J6 (N3) 6-8 MINS J5 (N2) 9-12 MINS	
M50 Before N7 SB	TRAVEL TIME J12 5-7 MINS J15 13-16 MINS	
M50 Before N81 NB	TRAVEL TIME J7 (N4) 7-9 MINS J6 (N3) 9-12 MINS	
M50 Before N81 SB		
M7 Before M8 SB		

Relationships


Field Equipment
DPT Tunnel Control Building
External Parties
CCTV
Weather Stations
ANPR
Loop Detectors
VMS
ERTs
MTCC ATMS Server
MTCC Control Room
Stakeholders / 3rd Parties
Public (SMS,Web, Email)

Communication Stakeholders

- National Roads Authority
- Emergency Services
- City and County Councils
- Public Transport Operators
- PPP Road Operators
  - M50 Concession , North-Link M1 Ltd, etc.
- MMaRC Contractors
- Dublin Tunnel Control (ERTO)

Information Management Systems

- **Incident Management System**
- **Incident Recording**
  - Record all incidents in MTCC, Type, reference (Marker Post / Junction), details, etc.
  - Web based system available to other stakeholders
- **Incident Reporting**
  - Notification of Incidents generated to all relevant Stakeholders.
  - Generators Reports on all Incidents
- **Incident Evaluation**
  - Records Actions of Operator
  - Statistical Analysis of Incident Trends.

Information Management Systems

Road Space Booking System

- Management of Motorway Road Space
  - Contractors request Road Space from the MTCC on GIS based system
  - The System Rules interrupt the request and submit for approval if acceptable.
  - MTCC approve and coordinates bookings on Motorway Network
- Feed into the Roadwork Traffic Management Web Information
  - Contractors Login and can see existing bookings & approvals Tabular and Graphically
  - Coordination with NRA Traffic Management Database

Information Management Systems

Planned Event Booking System

- Booking of VMS Planned Events on NRA Network
- Existing hard copy application
- GIS based system
- Standard Templates which direct the User towards the appropriate message
- User can propose alternative messages
- Uses common Dashboard, Database and GIS Functionality of other Information Systems

MTCC In the Future

- **In the Pipe-Line**
  - Role out of Information Systems
  - Coordinated incident planning
  - Monitoring of Ghost Driver Signs & Speed Activated School Warning signs
  - Additional Travel Time Information
  - MMaRC
  - VMS Message Development
- **Aspirations**
  - Increased coverage of VMS, CCTV & all existing ITS Systems
  - Lane Control Signals for variable speed limits on the M50
  - Coordination with “Managed Motorways”

Hard shoulder for this exit only
The SOUTH WEST London (M40) Birmingham (S & W) M42
50
50
50
50
After J15
TRAVEL TIME TO THE BEACH 4 HRS 11 MINS

Thank You
Any Questions?

egis road & tunnel operation Ireland

MTCC
Motorway Traffic Control Centre