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
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
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

- Vehicle Malfunction: 50.0%
- Out of Fuel: 17.0%
- Flat Tyre/Blow Out: 19.5%
- Retaining Directions: 4.7%
- Reporting Debris on Road: 4.3%
- Reporting Illegal Activities: 2.1%
- Reporting Accident: 1.9%

### Operator Actions 2011

- Call forwarded to insurance/recovery company: 18.6%
- Number of insurance/recovery company given: 18.6%
- Contacted emergency services/Motorway Control: 13.6%
- Contacted Insurance company/recovery company on behalf of caller: 16.6%
- None required: 13.4%
- Location given: 5.2%
- Call forwarded to friend/family: 1.3%
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 Cause - June 2012

- Collision: 21
- Breakdown: 12
- Surface Water: 11
- Straying Animals: 2
- Spillage: 1
- Debris: 1
- Queue - Traffic Volume: 2
- Queue - Accident Related: 9
- Heavy Rain: 2
- Queue - Breakdown Related: 3
- Queue - Breakdown Related: 3
- Queue - Traffic Volume: 2
- Fog: 2

egisroad & tunnel operation
Ireland
Unplanned Events By Motorway

Unplanned Events by Roadway - June 2012

- M50: 37
- M1: 4
- N7: 6
- N2: 2
- N3: 1

M50, 37

egis road & tunnel operation
Ireland
VMS Mapping
NRA Traffic Website

![NRA Traffic Website](image-url)
## Weather Information

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.

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

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

### M50 Southbound (M1 to M11)

<table>
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<tr>
<th>Status</th>
<th>From</th>
<th>To</th>
<th>Free Flow Travel Time</th>
<th>Current Travel Time</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>J3 (M1/N32)</td>
<td>J5 (N2)</td>
<td>4 Minutes</td>
<td>5 Minutes</td>
<td>6 Km</td>
</tr>
<tr>
<td>M</td>
<td>J5 (N2)</td>
<td>J6 (N3)</td>
<td>3 Minutes</td>
<td>4 Minutes</td>
<td>4 Km</td>
</tr>
<tr>
<td>M</td>
<td>J6 (N3)</td>
<td>J7 (N4)</td>
<td>2 Minutes</td>
<td>3 Minutes</td>
<td>3 Km</td>
</tr>
<tr>
<td>M</td>
<td>J7 (N4)</td>
<td>J9 (N7)</td>
<td>3 Minutes</td>
<td>3 Minutes</td>
<td>5 Km</td>
</tr>
<tr>
<td>F</td>
<td>J9 (N7)</td>
<td>J11 (N81)</td>
<td>3 Minutes</td>
<td>3 Minutes</td>
<td>4 Km</td>
</tr>
<tr>
<td>M</td>
<td>J11 (N81)</td>
<td>J12 Scholarstown</td>
<td>1 Minutes</td>
<td>2 Minutes</td>
<td>2 Km</td>
</tr>
<tr>
<td>M</td>
<td>J12 Scholarstown</td>
<td>J13 Ballinteer</td>
<td>4 Minutes</td>
<td>5 Minutes</td>
<td>6 Km</td>
</tr>
<tr>
<td>F</td>
<td>J13 Ballinteer</td>
<td>J14 Stillorgan</td>
<td>2 Minutes</td>
<td>2 Minutes</td>
<td>2 Km</td>
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<tr>
<td>F</td>
<td>J14 Stillorgan</td>
<td>J15 Ballyogan</td>
<td>2 Minutes</td>
<td>2 Minutes</td>
<td>3 Km</td>
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<tr>
<td>F</td>
<td>J15 Ballyogan</td>
<td>J16 Cherrywood</td>
<td>2 Minutes</td>
<td>2 Minutes</td>
<td>2 Km</td>
</tr>
<tr>
<td>F</td>
<td>J16 Cherrywood</td>
<td>J17 (M11)</td>
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<td>1 Km</td>
</tr>
<tr>
<td>M</td>
<td>J3 (M1/N32)</td>
<td>J17 (M11)</td>
<td>27 Minutes</td>
<td>32 Minutes</td>
<td>38 Km</td>
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<td>Section</td>
<td>Travel Time</td>
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<tr>
<td>M50 Before J14 SB</td>
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<tr>
<td>M50 Before J15 NB</td>
<td>TRAVEL TIME J9 (N7) 12-15 MINS AIRPORT 24-27 MINS</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>M50 Before J15 SB</td>
<td>TRAVEL TIME J17 (M11) 4-6 MINS</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>M50 Before J16 NB</td>
<td>TRAVEL TIME J7 (N4) 17-20 MINS J6 (N3) 19-22 MINS</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>M50 Before J16 SB</td>
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</tr>
<tr>
<td>M50 Before M1 NB</td>
<td>M1 N/B ROADWORKS REDUCED SPEED LIMIT ENFORCED</td>
<td></td>
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<tr>
<td>M50 Before N2 NB</td>
<td>TRAVEL TIME J3 (M1) 5-7 MINS AIRPORT 6-8 MINS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M50 Before N2 SB</td>
<td>TRAVEL TIME J7 (N4) 7-9 MINS J12 14-17 mins</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>M50 Before N3 NB</td>
<td>eflow you first PAY TOLL BY 9PM TOMORROW</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>M50 Before N3 SB</td>
<td>TRAVEL TIME J9 (N7) 7-9 MINS J17 (M11) 21-24 MINS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M50 before N4 NB</td>
<td>eflow you first PAY TOLL BY 9PM TOMORROW</td>
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<td></td>
</tr>
<tr>
<td>M50 Before N4 SB</td>
<td>TRAVEL TIME J6 (N3) 6-8 MINS J5 (N2) 9-12 MINS</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>M50 Before N7 NB</td>
<td>TRAVEL TIME J12 5-7 MINS J15 13-16 MINS</td>
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<td></td>
</tr>
<tr>
<td>M50 Before N7 SB</td>
<td>TRAVEL TIME J7 (N4) 7-9 MINS J6 (N3) 9-12 MINS</td>
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<tr>
<td>M50 Before N81 NB</td>
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<tr>
<td>M50 Before N81 SB</td>
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<tr>
<td>M7 Before M8 SB</td>
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</tr>
</tbody>
</table>
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.
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
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”
Thank You
Any Questions?