Zero to Hero ... Transformation of Ireland’s National Road Network

IAT Annual Conference 'Driving Forward'

Sean O’Neill
Topics

- Overview How It All came together....
- TII & National Road Network & History
- A Little History & Strategic Impact
- Where TII is Going....TEN-T
OVERVIEW

ASSET CLASS
- 1,224kms Motorways/Dual Cways
- 4,191kms Single Cways
- 38kms Luas
- 6 Motorway Service Areas
- 3 Tunnels (Cork, Dublin, Limerick)
- 7 Strategic Depots/Compounds

USERS OF NETWORK
- National Roads 5% of network, 50% of traffic
- M50 = 400,000 unique journeys per day
- Luas = 95,000 passengers per day

MAJOR PROJECTS DELIVERY
- M17/18 Gort to Tuam PPP (57km)
- M11 Gorey to Enniscorthy PPP (40km)
- N25 New Ross Bypass PPP (14km)
- Luas Cross City (5.6km)
- Green Line Capacity Enhancement
- Small Schemes Programme (worst bends & safety x 19)

Total Value est €1.6 Billion (2016 to 2019)

OPERATIONS AND ASSET RENEWAL WORKS
- Motorways & Tunnels
- Luas (35m passengers in 2015)
- Motorway Service Areas
- 11 PPP Managed Motorways
- Winter Operations
- M50 eFlow Tolling Operations (45m passengers in 2015)
- Pavement Renewals & Skid Resistance
- Bridge Inspections & Repair
- Intelligent Transportation Systems (ITS)
- Dublin Tunnel Tolling Operations
- Electronic Toll Collection Interoperability
- National Transport Model

CAPITAL INVESTMENT PLAN 2016–2022

READY FOR CONSTRUCTION
- N7 Naas Newbridge Upgrade
- M8/N25/N40 Dunkettle Upgrade
- N4 Collooney to Castlebaldwin
- N22 Ballyvourney to Macroom

IN PLANNING
- N5 Westport to Turlough
- N59 Moycullen Bypass
- N56 Mountcharles to Inver
- N56 Dungloe to Glenties
- N72/73 Mallow Relief Rd

N2 Slane Bypass
N6 Galway City Transport Project
N21/N69 Adare to Foynes
N28 Cork to Ringaskiddy
Mission

- To provide high quality transport infrastructure and services, delivering a better quality of life and supporting economic growth.
TII’s Values & Asphalt

- **Integrity**: Inspire trust through honesty, fairness and accountability...through the use of asphalt.

- **Spirit of Public Service**: Dedicated to providing quality service and value for the people of Ireland...through the use of asphalt.

- **Collaboration**: Achieve our goals through effective teamwork, communication and partnership...through the use of asphalt.

- **Innovation**: Seek creative solutions to enhance the services we provide through the adoption of innovative technologies and practices and use asphalt wherever possible.
Vision

• To be leaders in the delivery and operation of transport infrastructure.

• To ensure that Ireland’s national road and light rail infrastructure is safe, sustainable and resilient, delivering better accessibility and mobility for people and goods.

• To be recognised as an organisation that values its people, customers and partners.
National Road Network

5,400km long and is made up of motorways, dual carriageways and single carriageway roads.

1,187km motorway network is operated by a mix of Public Private Partnerships, and three Motorway Maintenance and Renewal contract operators.

45% of the country's total road traffic and most of Ireland's freight is distributed by roads covered in asphalt.

Our key responsibilities
• Motorway and Tunnel Operations
• Service areas
• Tolling operations
• Motorway Operations Centre and Travel Information Services
• Asset management including pavements and bridges
• Road maintenance
• Winter services
• Incident response and emergency planning
• Single carriageway national road network is directly managed by the individual road authorities.
History……..NRA IRELAND - GOALS 2006

- Ensure the public continues to receive value for money from the €1.5billion national road’s budget for improvement and maintenance.
- 14 major projects, comprising 310km of new high quality national road are scheduled to start construction.
- 13 major projects, comprising 82km of new high quality national road are scheduled for completion.
- M50 Dublin Tunnel scheduled to open by mid-year, removing trucks from Dublin City Centre.
- April 2006 - tender return date for N6 Ballinasloe/Galway PPP scheme.
- N7 Limerick Tunnel Southern Ring Road PPP Scheme (Phase 2-The Shannon Crossing) construction contract award expected mid-2006.
- M7/M8 Portlaoise Motorway PPP Scheme- the parties were selected for tendering in January 2006.
- Award N25 Waterford City Bypass.
- Award M3 Clonee/Kells Contract.
- Service and rest areas will be included on new motorways and will be added as appropriate on existing routes.
- A four-year programme to improve directional and tourist signage will commence.
- The Dublin Outer Orbital Route Feasibility study will be completed.
- The Dublin Eastern Bypass feasibility study will be completed.
- Investment in road safety measures will continue with €20m allocated for this purpose in 2006.
- The special programme for National Secondary routes will continue.
- …And fix the M50
Benefits of New Network...

- **Safety** – through modern design in construction and asphalt standards.

- **Environment** – through reducing congestion/emissions.

- **Economy** - through journey time improvement, reduced delays, increased journey reliability, better utilisation of road space
Population Growth

CSO Population Projections (2016-2046)
Vehicle Growth

National Registered Vehicle Forecasts (2012-2040)
Vehicle Km Travelled Growth

Annual Vehicle Kilometres Travelled Forecasts (2010-2050)

[Graph showing the growth of vehicle kilometres travelled from 1975 to 2050, with projections for 2010-2050 indicated.]
History in a picture......
Trans-European Network Transport TEN-T
The Regulation aims to

“......transform the existing patchwork of European roads. Railways, airports and canals into a unified transport network...”
TEN-T Regulation

- Establishes Union guidelines for development of trans-European transport network
- Specifies the requirements
- Sets out the priorities for development
- Provides for measures for implementation
Includes:

Roads
Railways
Inland Waterways
Ports
Airports
TEN-T Core Network Roads
TEN-T Comprehensive Network
Standards Required

- High-quality Dual Carriageway
- Motorway or Express Roads
- State of Art Technology
- Strong ITS focus
- On-line Service Areas
TEN-T Delivery

• Core Network by 2030

• Achievable, even if Limerick-Foynes planning subjected to Judicial Review

• TII to update Service Area & ITS strategies
TEN-T Delivery

- Comprehensive Network by 2050
  - Double the high quality dual carriageway network
  - About 2200km of ITS and Traffic Control Facilities
  - Funding is challenge
Vehicle Km Travelled Growth

Annual Vehicle Kilometres Travelled Forecasts (2010-2050)
TEN-T Strategic Impact

- TEN-T Regulation, taken with ITS Directive, will dominate strategic TII’s development plans for the National Road Network

- Future reviews of Regulation in hands of the Commission
Thank you!

Questions.....