

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

IAT Annual Conference 'Driving Forward'

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Topics

- Overview How It All came together....
 - TII & National Road Network & History
 - A Little History & Strategic Impact
 - Where TII is Going....TEN-T
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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
- N5 Westport to Turlough
- N59 Moycullen Bypass
- N56 Mountcharles to Inver
- N56 Dungloe to Glenties

IN PLANNING

- New Metro North
- Luas to Poolbeg
- Luas to Lucan
- 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.
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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.
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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.
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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.
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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
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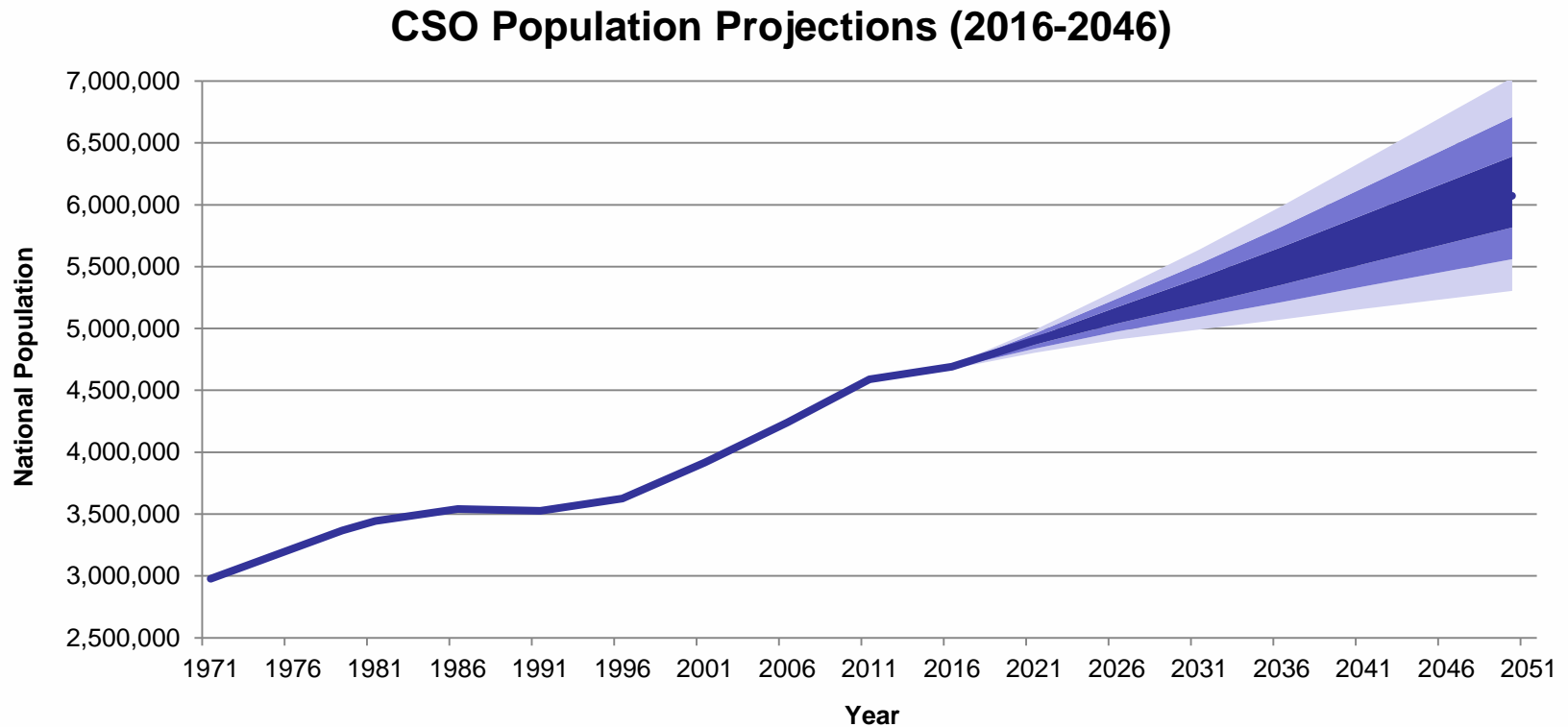


Benefits of New Network...

- **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
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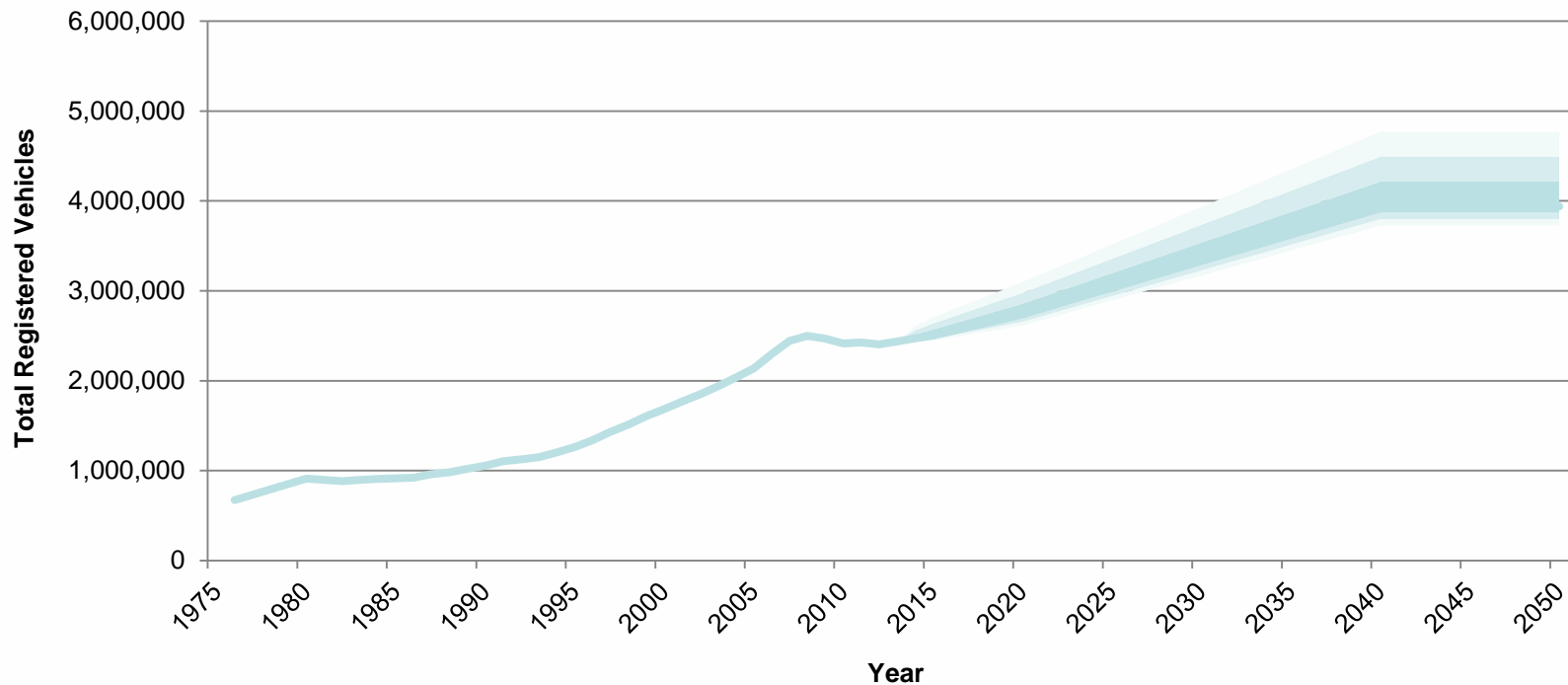
Population Growth





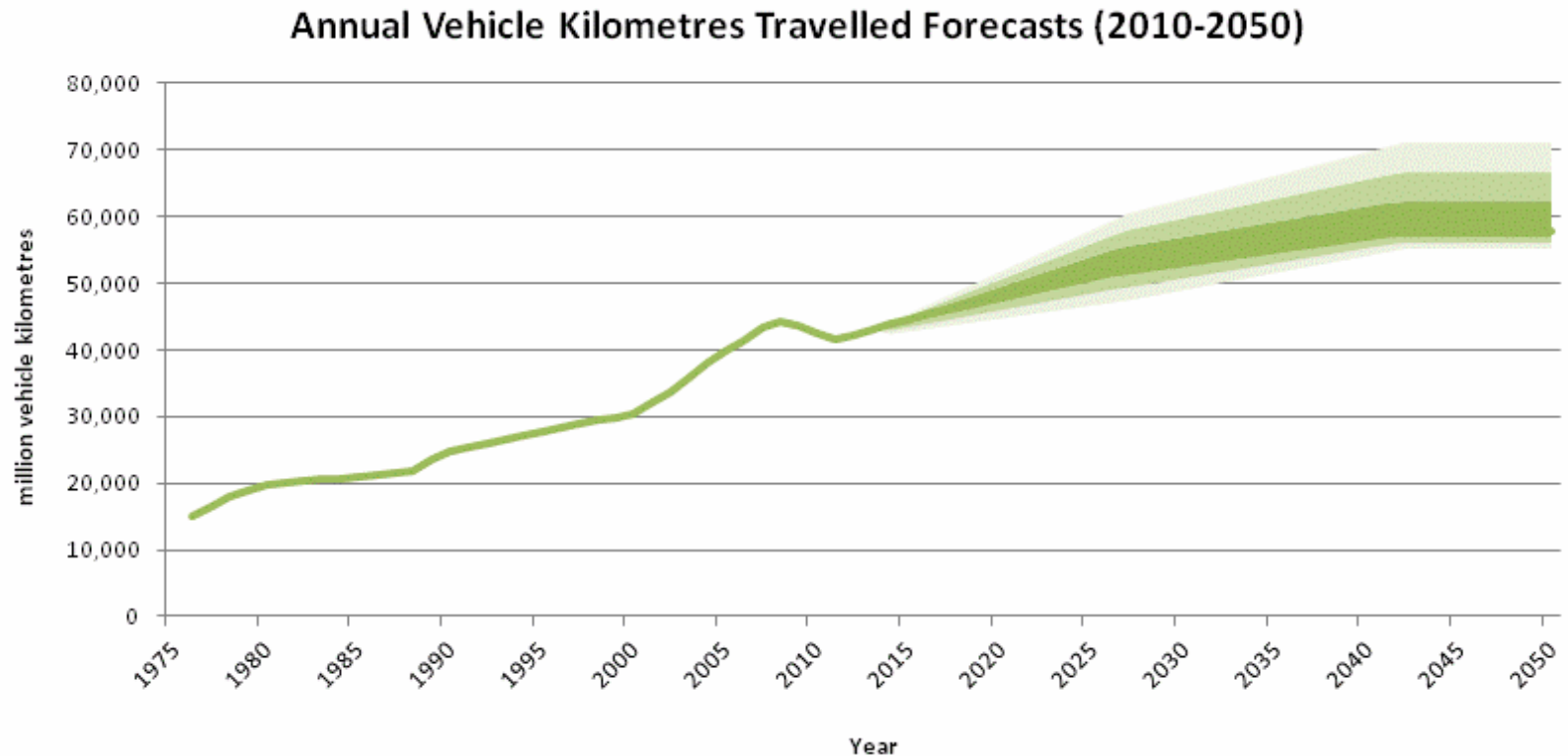
Vehicle Growth

National Registered Vehicle Forecasts (2012-2040)





Vehicle Km Travelled Growth









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
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- Includes:

Roads

Railways

Inland Waterways

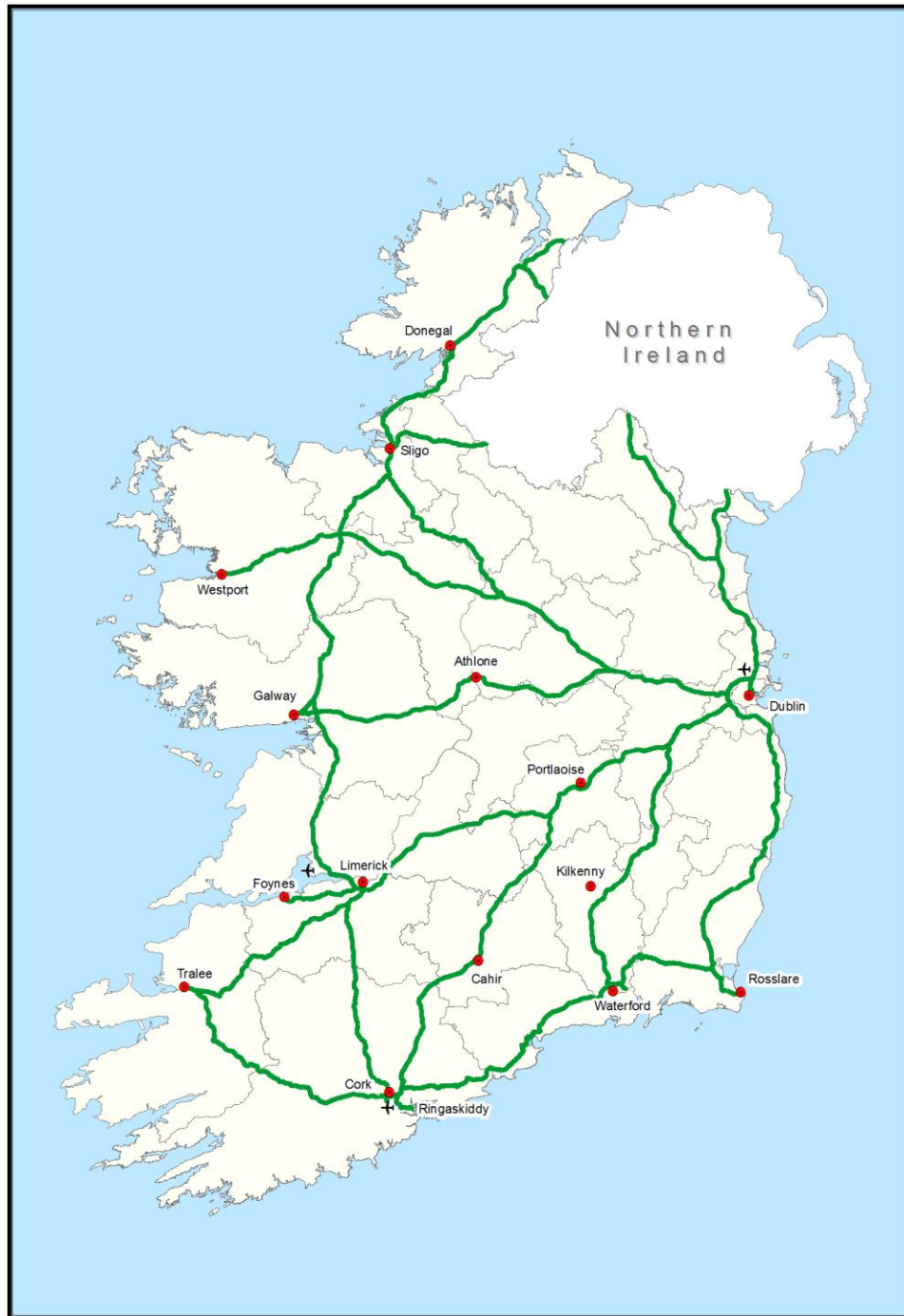
Ports

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
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TEN-T Delivery

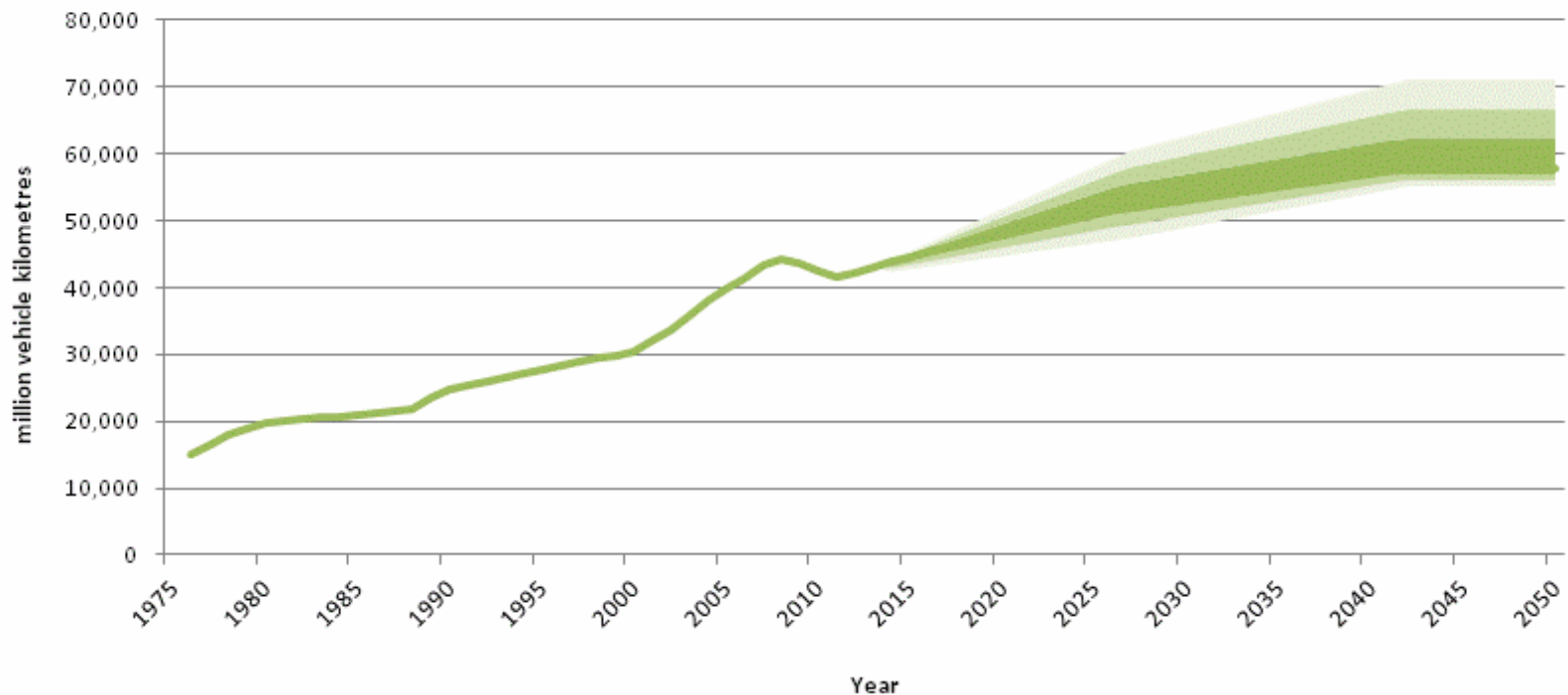
- Core Network by 2030
 - Achievable, even if Limerick-Foynes planning subjected to Judicial Review
 - TII to update Service Area & ITS strategies
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TEN-T Delivery

- Comprehensive Network by 2050
 - Double the high quality dual carriageway network
 - About 2200km of ITS and Traffic Control Facilities
 - Funding is challenge
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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
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Thank you!

Questions....
