

N25 NEW ROSS BYPASS

In August 1994 when Rose Fitzgerald Kennedy had just turned 104 years of age her four surviving children, Eunice Kennedy Shriver, Patricia Kennedy Lawford, Jean Kennedy Smith and Edward Moore Kennedy together spoke about their mother -

"She was the quiet at the centre of the storm, the anchor of the family, the safe harbor where the little ones could tow their capsized boats and set their sails again. For each of us, sons and daughters, she has been the rock and foundation of our lives. She has shaped our dreams and goals, supported our public and private causes and encouraged us in our service to others in return for the many blessings we have had".



Rose Fitzgerald Kennedy

The Rose Fitzgerald Kennedy Bridge, under the shadow of Slieve Coillte, crosses the River Barrow less than one mile from the front gates of the Kennedy Homestead in Dunganstown.

Public Authority Project Partners
Transport Infrastructure Ireland
Wexford County Council
Kilkenny County Council

Transport Infrastructure Ireland/Wexford County Council Technical Advisor
Mott MacDonald Ireland

WCC Project Management
Tramore House Regional Design Office

PPP Company
N25 New Ross Bypass DAC - consisting of
Bam PPP
Iridium Concessionaires de Infraestructuras, S.A.
PSGI Infrastructure Cooperable U.A.

Design & Construction Contractors
New Ross Joint Venture (NRJV) - consisting of
Bam Civil Ltd
Dragados Ireland Ltd

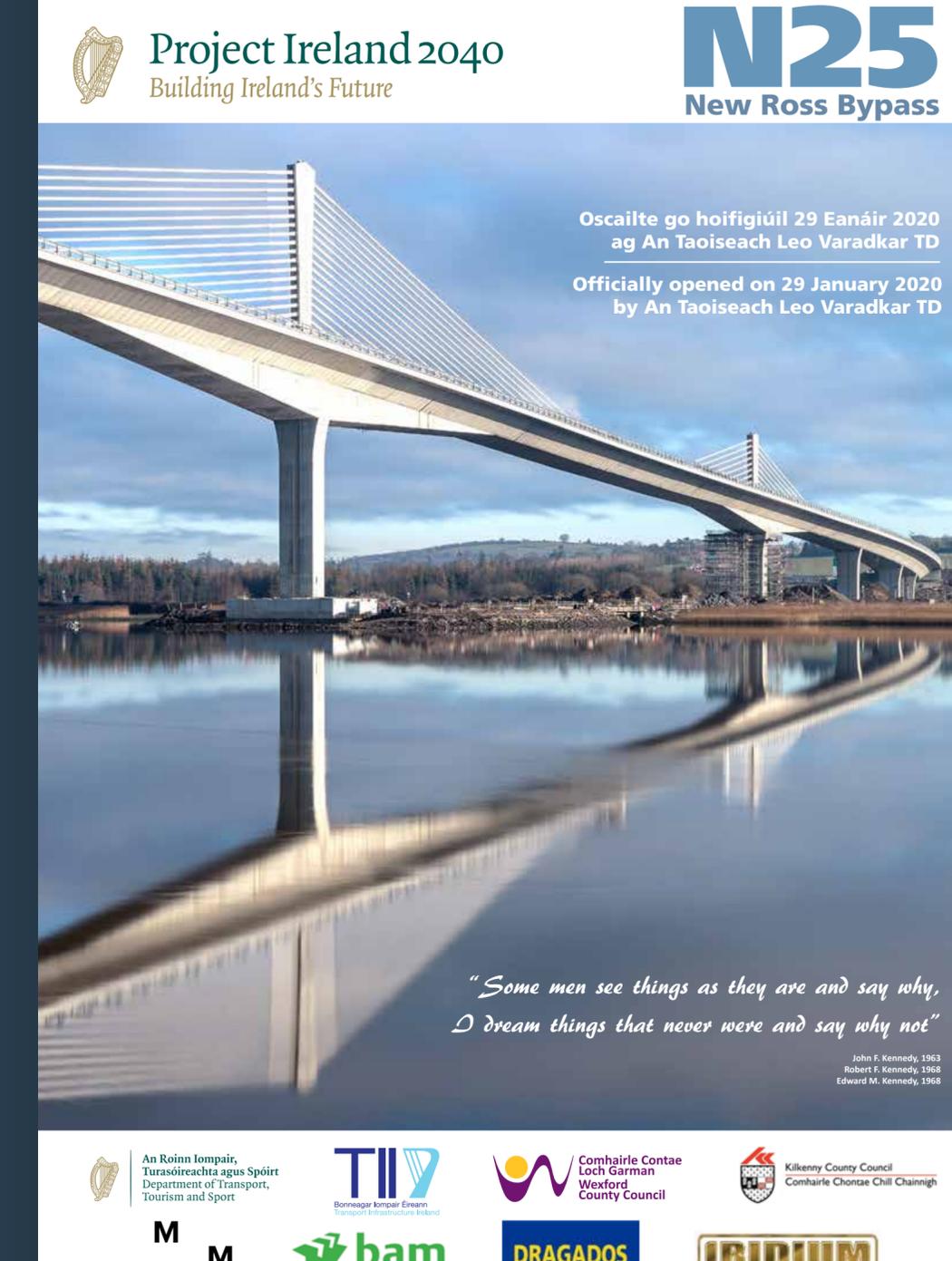
NRJV Designers/Checkers
Arup
Carlos Fernandez Casado
Eptisa and SYM

Public Authority Stakeholders & Consultees
An Garda Síochána
Bord Gáis Éireann
Bus Éireann
Commissioners of Irish Lights
Department of Communications, Climate Change and the Environment
Department of Culture, Heritage and the Gaeltacht
Department of Public Expenditure and Reform
Department of Transport, Tourism and Sport
Eir
Electricity Supply Board (ESB)
Environmental Protection Agency
ESB International
European Investment Bank
Fire Services, Kilkenny County Council
Fire Service, Wexford County Council
Geological Survey of Ireland
Health & Safety Authority
Health Services Executive, Ambulance Service
Iarnród Éireann
Inland Fisheries Ireland
Irish Aviation Authority
Irish Farmers Association
Irish Water
National Development Finance Agency
National Monuments Service
National Museum of Ireland
National Parks & Wildlife Service
National Treasury Management Agency
New Ross & District Chamber
New Ross Port Company
Office of Public Works
Sliostown Port Services
Waterways Ireland

Professional Services
ACI Diseño y Cálculo de Estructuras
AGI Consulting Geotechnical Engineers
Allianz GI
Aon
Applied Ground Engineering Consultants
Ashurst
Brownes Photography
Causeway Geotech Ltd
Charlotte Murphy Design
CT Materials Testing
Clandillon Civil Consulting
Coastway Services
CRDS
Curtin Agricultural Consultants Ltd
Dermot Flanagan SC
Deutsche Bank
Dylan Redmond BL
Earthsound Archaeological Geophysics
Emagine
Ensor O'Connor
Environmental Measurements
ERM Ireland Ltd
European Air Surveys Ltd
FCG Surveys
Flynn Furney Environmental Consultants
Gronitij
GVA Donal O Buachalla
HR Wallingford
Hydroenvironmental
Hydrographic Surveys
Hydromaster
Irish Hydrodata Ltd
James Lynch Access Design
Malicky Walsh & Partners
Malcolm Hughes Land Surveyors Ltd
Malone O'Regan Consulting Engineers
Management for Archaeology Underwater
Marsh
McCann Fitzgerald
McHugh Glynn & Associates
Moore Marine
MTS Ltd
North Gate Medical Centre
Pavement Management Services Ltd
Pinnent Masons
PMCE Consultants
Precise Control Surveyors
PMAC
Rubicon Heritage Services Ltd
Scott Cawley
Steele Davies Gleave
T.E. Laboratories T/A Tolelab
Trinity College Materials Testing
Vist Connext
Whelan Safety Services
Yee Associates (Bridge Architect)

Sub Contractors
3D Personnel Ltd
AB Access
Advance Cleaners
Agrimann BM Ltd
Arlington Scaffolding
Atlantic Plant Hire
Ballinpheric
Ben McPhillips Ltd
BHP Laboratories Ltd
Breedon Group (Lagan Asphalt)
Burgatta Masonry Ltd
Centerev
Construgromes
CWES
D Souza Group Holding Ltd
Blueface Business
Datum Monitoring
Declan Ryan Heating and Plumbing
Duncan Fencing Ltd
FCMP Electrical
Ecoflex
Emesa
FRS Waterford
Geocsa
Geoline
Geotech Specialists Ltd
Glover Site Investigations Ltd
Gorane
Gorey Earthworks Ltd
Hillard Drilling and Heating
Howley Contracts Ltd
HSD Ltd
Hydro Clean
Hyland Industrial Coating Ltd
Irish Archeological Consultancy
James Fisher Testing Services (Ireland) Ltd
Joe O'Sullivan Engineering
John Flood Water Pumps and Filter Sales
John O'Connor Safety First
Kells of Fontaine International
Kilkenny Asphalt
Knights Group
Lafan
Lightwise
LMH
Marine Specialists
Martin Cood Masonry
Maurer
MCR Group
Melanoid (MKA)
Monford
Moroney Electrical
Motorway Care
Murphy International
MWT Systems Ltd
NCLS
Olive Systems Ltd
O'Connor Form Work Ltd
O'Neill & Brennan
Ooms Producten bv
Oradec
O'Rourke Drilling
Pama Construction
Peadar Kelly Landscaping Ltd
PHS
PHL
PJ Personnel Ltd
Pondio
Priority
Protecting Ireland
Rainey Ltd
Rennicks
Rock Solutions
Rubrica
Ryan Road Kerb Ltd
Safety Net Protection Systems Limited
Seathorpe Engineering
Shane Cadogan Plant Hire Ltd
Shay Murtagh
Silcon
SOS - Sosis Obras E Servicos, LDA
South East FormWork Ltd
T&K Road Markings Ltd
TECH Fixit
Tensa
The Carpet Gallery
Thomas Ball Carpentry
Thomas McGrath Electrical
Thompson Sign Gantries
Thor
Tinnelly Demolition
Tom Kiwan Plant Hire Ltd
Topline Cabins
Traffic Management Systems (TMI)
Tropwite
ULMA
Vaisala
VCS
Ward Personnel Ltd
Whiteford Geoservices
Woodburn Engineering
WS Earthworks Ltd

Suppliers
AA Euro Recruitment Ireland Ltd
Access Frangings
Adamstown Tyres Ltd
AES Ltd
Airtex World Ltd
Anchor Bay Construction (Ireland) Ltd
Any Gear
Apex Fire Limited
Ashgrove Transport
Aska Sykes Ltd
Banagher Precast Concrete Ltd
Bechtle Direct Ltd
Bennett Tarmacadam Ltd
Blok N Mesh Ltd
Blue Steel Stockholders Ltd
Bluecore Ltd
BOC Gases Ireland Ltd
Brandon House Hotel
Bryan S Ryan
C & D Providers
Campus Oil Ltd
Carmory Plastics Ltd
Carry Tool Hire Ltd
Casey Enterprises
Cleveland Steel & Tubes
Coastway Limited
Colum Power Developments
Condron Concrete Ltd
Geotech Specialist Building Products
Cool Springs
Cork First Aid Supplies
Crystal Shades Ltd T/A Charisma Blinds
Curren Plumbing and Heating
Davies Ltd
DeLacey Ltd
Dermot Kehoe Supply & DIY Ltd
Diatex Graphic Products Ltd
Doyle Concrete Ltd
Dungarvan Mechanical Services Ltd
Dunkles of Kilkenny
Dwane Hire
East Cork Oil Co Ltd
Energiya
Environmental Measurements
ESB Networks
Fairyhouse Steel
Fastnet Shipping Ltd
Ferris Engineering Co Ltd
Ferrybridge Hire Ltd
Fieldmaster
Galway Plant & Tool Hire Ltd
Gas Weld Ltd
Glenard Hennessy Plant Hire
GH Pittman Ltd
Glana Controlled Hygiene
Glantbia Agribusiness
Gracon
Hilti
Hind Industrial Services Ltd
Host Equipment
Horton Plant Ltd
HSS Hire
Hussey & Fraser
Initial Washroom Solutions
Irish Tar & Bitumen Suppliers
ISS Ireland Ltd
James Fisher Testing Services
John O'Donovan Haulage Ltd
John V Flood Ltd
Johnson & Perrott Ltd
Kavanagh Crane Hire Ltd
KCM Wholesale Ltd
Kent Quarries Ltd
Korex
Laos Hire Services Ltd
LCF Marine Ltd
Lennox Laboratories
Leveling Equipment Services Ltd
Liam Whelan Plant Hire Ltd
M & E Supplies



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An Taoiseach
Leo Varadkar TD

This new bypass, which includes Ireland's longest bridge, will be transformative for New Ross, for Wexford and Kilkenny, and for the South-East. By reducing congestion and travel-times, improving road safety, and opening up economic opportunities, this will make a huge difference for commuters, for families, for businesses, and for tourists.

I congratulate all involved for protecting our archaeology and heritage during construction, for planting hundreds of thousands of trees and shrubs, and for completing a project that will help make this part of the country a better place to live, work and invest.



Cllr. Michael Sheehan
Chairman of Wexford County Council

I would like to congratulate all of the people involved in every aspect of today's project on a job well done.

In the arc of our County's history, today marks a pivotal moment and a zenith in our own lives, as we will proudly remember this occasion with a sense of historical achievement, building a bridge to a better future. Our time has come; a new chapter in our future is now ours to write.

With a global marvel of engineering and a sophisticated road network at our door, County Wexford is now ripe for a new era of investment, industry and interest. We can confidently redevelop our region, unleash our potential and rejuvenate New Ross. It is with that blend of heritage and hope, we take this first stride looking to the future with confidence and pride.

Loch Garman Abú.



Tom Enright
Chief Executive of Wexford County Council

I would like to warmly welcome the opening of the N25 New Ross Bypass and the magnificent Rose Fitzgerald Kennedy Bridge. I would further like to congratulate all involved in this wonderful project.

The N25 New Ross Bypass is another vital link in the overall connectivity and safer access to and from the South East Region; to and from County Wexford and the town of New Ross in particular. This major infrastructural development will help to attract investment into the Region. The resolution of the chronic traffic congestion in New Ross will result in environmental and quality of life improvements which will make the historic town a destination of choice.

With this significant development, the possibilities and prospects for New Ross, County Wexford and indeed the South East Region are brighter than ever.



Cormac O'Rourke
Chairman of Transport Infrastructure Ireland

The N25 New Ross Bypass Project has delivered one of Ireland's most iconic structures. This bridge not only spans the river Barrow, but also brings the communities of Wexford and Kilkenny closer together. Experts from around the world collaborated to deliver one of the longest bridge spans of this type anywhere.

Everyone who travels across this bridge can only admire its scale and complexity. It is a credit to the hard work of those women and men who had the vision and commitment to see this project to fruition.

The completion of this project is an important addition to the national road network and it will deliver significant benefits for the South East Region of the country in terms of road user safety and reliable journey times.



Cllr. Peter "Chap" Cleere
Chairman of Kilkenny County Council

I would like to congratulate everyone that has been involved in making this project happen. I would especially like to thank the local communities and landowners for their patience throughout the years of planning and construction.

The bridge itself is an engineering wonder. It will attract visitors both nationally and internationally just to admire its presence and the engineering skills that it has taken to design and build.

They say a bridge connects communities and in this case it joins the counties of Kilkenny and Wexford (we will still see you in Croke Park in June!) for a mutual benefit of providing a safe efficient passage through the region, and also opening up opportunities on both sides of the bridge for both investment and tourism.

For generations to come the Rose Fitzgerald Kennedy Bridge will be used and admired by everyone; and I am just delighted that this day has finally arrived and the bridge is open.

Once again well done to all involved.



Colette Byrne
Chief Executive of Kilkenny County Council

The opening of the Rose Fitzgerald Kennedy Bridge is a great day for the town of New Ross, the communities and residents in South Kilkenny and Wexford and the wider South East Region. The completion of this project coupled with the Enniscorthy Bypass significantly improves connectivity from the South East Region to Dublin.

I want to thank all involved in bringing this project to reality; its designers and planners, the construction workers and the local landowners. I want to acknowledge the patience of the local communities and residents who suffered inconvenience during the construction phase. This bridge is testament to many years of hard work and determination and all involved can be justly proud of their achievements.

Bridges connect places, communities and people. This bridge will enable communities to work together for the betterment of both Wexford and Kilkenny.

May all who use this bridge travel safely.



N25 NEW ROSS BYPASS

€ €230m
TOTAL SCHEME BUDGET

 **20**
WILDLIFE UNDERPASSES

 **8,000**
YEARS OF HUMAN ACTIVITY –
UNEARTHED IN ARCHAEOLOGICAL
EXCAVATIONS

 **285,000**
TREES & SHRUBS – PLANTED

 **46**
ROUTE OPTIONS –
ASSESSED

ROSE FITZGERALD KENNEDY BRIDGE



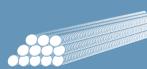
887m LONG

IRELAND'S LONGEST BRIDGE

230m CENTRAL SPANS

LONGEST SPANS OF THEIR TYPE IN THE WORLD

 **70,000**
TONNES OF CONCRETE –
OVER 3,500 LORRY LOADS

 **7,000**
TONNES OF REINFORCING
STEEL – SIMILAR TO WEIGHT
OF EIFFEL TOWER

500km
OF CABLING WIRE –
FOR BRIDGE CABLES

36m
HEIGHT OF BRIDGE DECK
ABOVE MEAN HIGH TIDE IN RIVER

27m
HEIGHT OF CENTRAL TOWER
ABOVE BRIDGE DECK

A Beautiful Challenge

"Some men see things as they are and say why, I dream things that never were and say why not". Bridge builders have faced the challenge of crossing the River Barrow at New Ross for over eight centuries and have had the vision to ask "why not".

The River Barrow has proved a beautiful but formidable challenge for these bridge builders. Nonetheless, seven permanent road bridges have been built across the River Barrow in New Ross since the town was founded in the thirteenth century by the Norman knight William Marshal.

All of these bridges have been built for the same enlightened purposes: to connect communities, to meet the demands of growing populations, and to stimulate trade and commerce. The N25 New Ross Bypass, incorporating the Rose Fitzgerald Kennedy Bridge, has been built for the same reasons, but is unique to date in being located outside of New Ross Town. This reflects both the progress and challenges arising from contemporary living, i.e. our ability to commute long distances in large volumes and the congestion that this can cause in our urban centres.

The Rose Fitzgerald Kennedy Bridge, a key part of the scheme, has an exceptionally ambitious design which sets it apart from the bridges that have gone before. It is set to become one of the most iconic structures in the country. The bridge is the longest in Ireland, and its two main spans are the longest post-tensioned concrete spans of their type in the world.

Incentive for Development

The need for a bypass of New Ross and second river crossing has been apparent since the 1980s when road users first began experiencing delays when passing through New Ross. Steady increases in traffic volumes and delays have made the area a frequent feature on AA Roadwatch bulletins. Tailbacks could reach several kilometres at peak times, leading to driver frustration and significant economic losses for the region.

O'Hanrahan Bridge has served New Ross and the region very well for over fifty years and will continue to serve New Ross Town into the future. The N25 New Ross Bypass and Rose Fitzgerald Kennedy Bridge will ease the congestion that New Ross has experienced in recent decades, particularly from heavy freight and long distance traffic. The bypass will provide safer, quicker and more reliable journeys for commuters while also providing efficient access to New Ross and the wider area. This will benefit those who live, visit and do business in New Ross and its environs.

Scheme Details:

- 14 km of new dual carriageway N25 & N30 National Primary Routes.
- 1 km of new single carriageway N30 National Primary Route.
- Three new at-grade roundabout junctions creating connections between the new mainline and the existing N25 and N30.
- One semi-compact grade separated junction connecting the mainline with the R733 Road to Hook Peninsula.
- Approximately 22 km of new regional, local and access roads.
- New railway overbridge at Ballyverneen which will facilitate the New Ross to Waterford Greenway.
- 46 principal structures including 3 road overbridges, 8 road underbridges, 1 rail overbridge, 16 farm underpasses and the iconic three-tower, 887 m long, extrados bridge carrying the mainline over the River Barrow.

- Landscaping, services and accommodation works.



Benefits & Opportunities

The project will deliver:

- Reduced and more consistent journey times for commuters and businesses.
- Reduced rates of road traffic incidents including serious and fatal accidents.
- Reduced congestion in New Ross Town.
- Improvements to the quality of life of the people living in New Ross.
- Potential for economic growth arising from cross sectoral inward investment.

The project opens exciting opportunities for the area that both Wexford County Council and Kilkenny County Council, in partnership with private enterprise, are committed to promoting and exploiting. The project will support the future growth and sustainability of New Ross Town and the wider region. Investment in excess of €50 million is proposed in the coming years, including the following initiatives:

- Improvements to the public realm in New Ross Town as well as to access routes into the town.
- The development of the New Ross to Waterford Greenway.
- New tourism and recreation initiatives.

The bypass is directly facilitating these initiatives by removing congestion from New Ross and arterial routes into the town and vastly improving regional access.

Project's Personnel

Over 1,000 people have worked on site during construction, investing almost 2.5 million working hours into the project. Apart from the large and highly skilled local and national workforce, the project has attracted world leading expertise from many other countries including Spain, Britain, Holland, Portugal, Italy, Greece, Romania, Czech Republic, Nigeria, Poland, South Africa, India and Albania.

Many have also made their homes in New Ross and the surrounding areas during construction, enriching the cultural and social life of the area and contributing to its economic vitality. In addition, significant resources were invested in the project away from site, providing critical support in sectors such as design services, materials and building supplies, maintenance services, professional services, office supplies, catering, etc. A full list of the more than 300 different companies and organisations that have contributed to the project are provided overleaf.

Project Delivery

A PPP Contract is an agreement between public and private sector partners for the delivery of public projects. It utilises public sector expertise and experience in delivering public infrastructure projects combined with private sector enterprise, finance and commercial expertise.

Transport Infrastructure Ireland will monitor the performance of the PPP Company during the 25 year operation and maintenance contract period and payments to the PPP Company will be linked to this performance. There is no toll on the new bypass.

Project Archaeology

Archaeological investigations were undertaken before and during construction. This work revealed the remains of 32 previously unknown and undocumented archaeological sites which were then subject to careful and systematic archaeological excavation.

The most significant discoveries include the foundations of a timber house at Ryleen. It was built by some of the first Stone Age (Neolithic) farmers who cleared the natural woodlands, planted crops and raised their livestock in this area almost 6,000 years ago. Cremation burials found in Berkeley, Camlin and Stokestown reveal aspects of our Bronze Age forebears' belief systems 3,000 - 4,000 years ago. At Landscape the remains of a 700 year old medieval farmstead were uncovered.



Conclusion

With the opening of the scheme, we look forward to the N25 New Ross Bypass delivering safer, shorter and more reliable journeys for commuters and improved quality of life and economic prospects for all living in New Ross Town and the wider region.

The bold ambitious design of the Rose Fitzgerald Kennedy Bridge sets it apart from previous crossings of the River Barrow. The vision to dream things that never were and say "why not" has produced a remarkable feat of engineering. This iconic bridge speaks to a future of infinite possibilities and wonder, and is set to become one of the most recognisable structures in the country.

Selection of Notable and Historic Irish Bridges in Order of Overall Length

