N25 New Ross Bypass PPP Project
History & Construction Progress
Joe Shinkwin & Pierre O’Loughlin
1. Project History
2. PPP Process
3. Construction to Date
Project History
Need for the Scheme

Traffic
Significant delays of up to 30 mins

Safety
125 reported injury collisions (2005-2011)

Network Resilience
32 km diversions in the event of O'Hanrahan Bridge closure

Road rage in Rosbercon over growing tailbacks
21 December 2006

Road Rage on the Waterford side of O'Hanrahan Bridge split over onto the streets of Rosbercon last week.
Traffic was backed up from the bridge as far as the church in Rosbercon at around 6.15p.m. on Tuesday evening last according to local resident John Bennett.

It was also around that time that he saw a vehicle pull out from the queue at the Parish Pump as the frustrated motorist made a break for it down the 'wrong side of the road'.

However, close to the recycling centre at the bottom of the hill the motorist met oncoming traffic, who were understandably not too impressed with the manoeuvre.

Renewed calls for second bridge after traffic chaos
23 October 2012

RENEWED CALLS have been voiced for the construction of a second bridge in New Ross following the flooding in Rosbercon last week and the severe traffic backing that ensued.

New Ross Sinn Fein spokesperson Olain O'Connell has said the town's reputation as a bottleneck and its continuing problems with traffic congestion is impacting on investment coming into New Ross.

New Ross town has had a big problem with traffic congestion for many years now. It is a situation that has been ignored by successive governments. During the boom years the town witnessed regular tailbacks entering the O'Hanrahan Bridge from the Rosbercon side. Intelligent proposals to tackle this problem were made but sadly ignored, said O'Connell.
Diversion Route (32km)

Inistioge Bridge

Ferry Bridge

Diversion Route in event of O’Hanrahan Bridge closure

Inistioge Bridge

Ferry Bridge

O’Hanrahan Bridge
Project Timeline

- **1993**: Wexford County Development Plan
- **1994**: NRA National Road Needs Study
- **1995**: Constraints Study and Route Selection Report
- **2000**: Preliminary Design, EIS & CPO
- **2005**: Scheme Approval
- **2010**: N25 New Ross Bypass PPP Scheme Tender
- **2016**: Combined N25 New Ross & M11 Enniscorthy PPP Scheme
- **2019**: Construction

**Timeline Events**
- **1993**: Mott MacDonald appointed by Wexford County Council
- **1999**: Bridge Options Report
- **2009**: Application to An Bord Pleanála
- **2014**: Contract Award
- **2018**: Expected Completion
- **2019**: Construction
Route Selection - Challenge

Constraints Study
Topography
Major River Crossing(s)
Port of New Ross
Infrastructure/Utilities
Environmental (cSAC, pNHA)

Route Selection
46 Initial Options
5 Refined Options
2 Detailed Options
Preferred Solution - Roads

- **13.6km of Dual Carriageway**
  - 4km Type 1 Dual
  - 9.6km Type 2 Dual
- **1.2km Single Carriageway**
- **3 At-Grade Junctions**
  - Glenmore (N25)
  - Ballymacar (N25)
  - Corcoran’s Cross (N30)
- **1 Grade Separated Junction**
  - Landscape (R733)
Preferred Solution – Struct.

- 1 Railway Overbridge
- 8 Underbridges
- 3 Overbridges
- 16 Underpasses
- 6 Culverts
- 3 Retaining Walls
- 5 Environmental Barriers
- 2 Sign Gantries
- 2 VMS
- 900m Extrados River Barrow Crossing
Challenges

River Barrow
Approx. 300m wide
River Barrow and Nore candidate Special Area of Conservation (cSAC)
Barrow River Estuary proposed Natural Heritage Area (pNHA)
Levee and flood plain
Port of New Ross
36m Shipping Clearance above MHWS
Topography / Ground Conditions
Pink Rock
Alluvial & Glacial Deposits

Options

4 Bridge Options Studied

Haunched Girder Bridge
Three Arch Bridge
Single Arch Bridge
Three Tower Extrados Bridge

Solution

Extrados option selected as it offered the best balance of overall performance
9 Spans (~900m total)
  Main spans – 2 x 230m
  Approach Spans
    West Side: 45m, 60m, 86m
    East Side: 86m, 60m, 60m, 45m
3 Pylons (Centred on Bridge Deck)
  2 x 15m high side pylons
  1 x 25m high central pylons
Bridge Deck
  Width ~22m (with widening on approaches)
  Navigation Clearance 36m
River Barrow Bridge Elevation
PPP Process
PPP Tender Period – Key Dates

- 22 Mar 2013  OJEU Advert for PQ
- 19 Jun 2013  Pre-Qual Returns
  - 9 Aug 2013 Four Shortlisted – BANBA, Sli Nua, BAM Iridium, & Direct Route
- 28 Nov 2013  Tender Documents Issued
- 16 Dec 2013  Tender Consultation Meeting 1
- 30 Jan 2014  Tender Consultation Meeting 2
- 08 Apr 2014  Tender Consultation Meeting 3
- 11 Mar 2014  Tender Consultation Meeting 4
- 02 Apr 2014  Tender Consultation Meeting 5
- 30 Sep 2014  Tender Return
- 26 Jan 2016  Contract Award to Bam Iridium
PPP Co. Structure

- Contract Awarded to BAM Iridium Consortium
- The Project sponsors are:
  - BAM PPP PGGM Infrastructure Coöperatie U.A. (50%), and
  - Iridium Concesiones de Infraestructuras S.A. (50%).
- PPP Company
  - New Ross N25 By-Pass DAC
- Contractor – BAM Dragados JV
- Designer – Arup & CFC

PPP Contract Dates

- Commencement Date: 26th January 2016
- Permit to Use (PTU): 31st January 2019
- Completion Date: 30th April 2019
Overall Scheme Management

**TII/NRA Project Board**

**PPP Co**
(PPP Co Rep – Ricardo Urien Laso)

**Contractor NRJV**
(Contractor’s Rep – Adrian Cunningham)

**Designer (Arup)**

**TII/NRA (Authority’s Representative – Mary Bowe)**

**Authority’s Technical Advisors – Mott MacDonalld**
(Commission Director – John Murphy)
(Commission Manager – Joe Shinkwin)

**Authority’s Site Representative**
(ASR – Pierre O’Loughlin)

**Wexford & Kilkenny County Councils**
(PLO – Sean Dobbs)
Construction
<table>
<thead>
<tr>
<th>Commencement Date/Contract Award</th>
<th>Construction Period</th>
<th>Opening Year</th>
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<tr>
<td>26&lt;sup&gt;th&lt;/sup&gt; January 2016</td>
<td>40 Months</td>
<td>2019</td>
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- Currently 20 months into a 40 month programme
## Authority’s Site Representative

**Works Monitoring & Administration Team (WMA)**

<table>
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<th>Role</th>
<th>Quantity</th>
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<tr>
<td>Authority’s Site Representative</td>
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<tr>
<td>Senior Resident Engineers</td>
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<td>Inspectors</td>
<td>3</td>
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<tr>
<td>Deck and Cable Specialist</td>
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<tr>
<td>Quality &amp; Testing Manager</td>
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**Total WMA team of 25**

<table>
<thead>
<tr>
<th>Role</th>
<th>Quantity</th>
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<tr>
<td>Administration Staff</td>
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</tr>
<tr>
<td>Certification Co-Ordinator</td>
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</tbody>
</table>
What's Happening Now

Glenmore Junction

New Ross

May 2016
What’s Happening Now

Glenmore Junction

August 2017
What’s Happening Now

R733 Junction

May 2016
What’s Happening Now

R733 Junction

August 2017
What’s Happening Now

Ballymacar Bridge Junction

May 2016
What’s Happening Now

Ballymacar Bridge Junction

August 2017
What’s Happening Now

Corcoran’s Cross Junction

August 2017
What’s Happening Now

River Barrow Bridge
River Barrow Bridge
Deck Cross Sections
Construction Sequence of River Barrow Bridge
River Barrow Bridge Elevation
Construction of River Barrow Bridge
Piling Works Foundations
Pier Stem Construction
Falsework Erection

Barrow Bridge Falsework
What’s Happening Now

River Barrow Bridge
What’s Happening Now

River Barrow Bridge
What’s Happening Now

River Barrow Bridge
Technology & Social Media

TII & Wexford County Council
• Video documentary of the scheme
• Time lapse of Barrow Bridge Construction

PPP Co / NRJV
• Drone Technology for Site Progress Photos
• Website www.n25newross.ie
Thank you