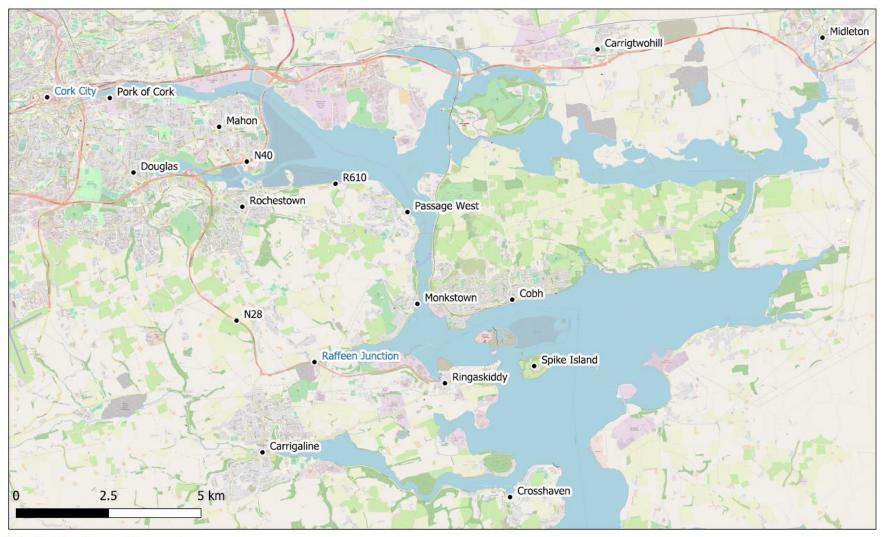


# N28 Raffeen Junction

## TII Webinar – 13<sup>th</sup> Nov 2020

By Finola O Riordan Chartered Engineer Cork County Council





**Cork Harbour Overview** 

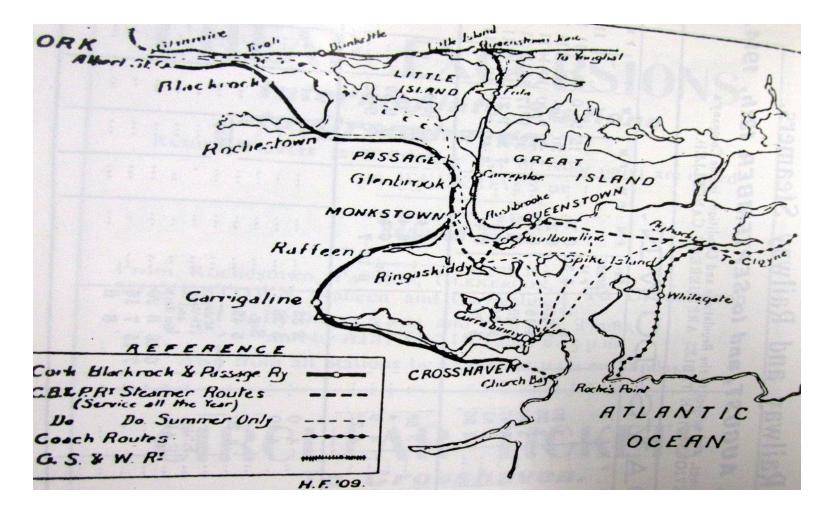




**Raffeen Junction Overview** 



Blackrock to Passage Railway – extended via Raffeen to Crosshaven in 1902



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### **Ringaskiddy Peninsula – Strategic Employment Zone**

- BioMarin International Limited;
- Carbon Group;
- DePuy Ireland Unlimited Company;
- GlaxoSmithKline (Ireland) Limited;
- Hovione Limited;
- Janssen Sciences Ireland UC;
- Novartis Ringaskiddy Limited;
- Pfizer Ireland Pharmaceuticals;
- Recordati Ireland Limited;

### Over 5,000 people employed

€338 million on salaries annually
€620 million combined operational budgets
€2.4 billion invested in the nine sites over the twenty years







Any Support Information

Proposal Form for R National Roads Aut Form ID RSRM 20		NR REAL Authority An excession are follow to Authority
Local Authority	Cork County Council	Proposal Number
Name of Location	N28 Junction for Rafeen; between Shannonpark Roundabout and Shanbally Village	Road No NP/NS N28 / L2470
Name of Location	village	Road No NP/NS N28 / L2470
Location Type	Coordinates Easting Northing	Junction 🖌
Mark the location on an extract from a	Start 74395 64750	Bend
1/50000 scale map	Finish	Road Length
and attach to form.	Improved / Unimproved Section	Inside / Outside Built-up Area
Predominant	Pedestrian 📃 Single Vehicle 🗌	Head On
Accident Type	Mixed 🗹 Conflict Warrant	Other
Problem Type Tick one or more	Surface Layout Arkings Sight Distance	Definition Width   Signs Other Specify

Reported Injury Accidents, Last Syrs. (Give year, Serial no., as on top right-hand corner of C(T)68 / PC16, and brief description) and classify as F (fatal), S.I (Serious), M.I (Minor). Year Serial No Type Description

Date	Date NRA Ref. Accident Lighting Surface Type Condition Condition		Weather	Notes		
11/02/92	1992001442	Minor Injury	Day-Poor Visibility	Wet Wet		Private Car collision with Private Car, Head-On Conflict
11/10/96	1996006831	Serious Injury	Day-Good Visibility	Dry Dry		Private Car collision with Other, Head- On Conflict
31/01/00	2000001906	Minor Injury	Dark-Good Lighting	Dry Dry		Private Car collision with Van, Angle Right Turn
24/10/06	2006001339	Minor Injury	Day Poor Visibility	Other Not Specified		Private Car collision with Pedal Cycle
17/02/93	1993001512	Serious Injury	Day-Good Visibility			2 Wheeled Motor Vehicle collision with Private Car, Angle Right Turn
28/03/98	1998002766	Serious Injury	Day-Good Visibility	Dry	Dry	2 Wheeled Motor Vehicle collision with Private Car, Head-On Right Turn
01/02/97	1997000001	Death	Day-Good Visibility	Dry	Dry	Private Car collision with Wall / Gate
09/04/93	1993002260	Minor Injury	Dark-No Lighting	Wel Wet		Private Car collision with Private Car, Angle Right Turn
06/01/92	1992001194	Minor Injury	Day-Good Visibility	Dry Dry		Private Car collision with Private Car, Angle Both Straight
26/10/01	2001006006	Minor Injury	Day-Good Visibility	Wet Dry		P.S.V. (Bus) collision with Van
05/11/96	1996007667	Serious Injury	Dark-No Lighting	Wet Not Specified		Private Car collision with Private Car, Angle Right Tum
29/05/06	2006001480	Minor Injury	Day-Good Visibility	Dry Dry		Private Car collision with Pedestrian
17/02/90	1990001614	Minor Injury	Day-Poor Visibility	Wet	Wet	Private Car collision with Private Car

Describe Proposed Scheme. Provide a sketch of the proposed scheme and attach to form.	Lining, Signing incl advance warning signs, anti skid surfaces.			
Describe how proposed scheme should Reduce Accidents	The proposed scheme should provide advance warning to raise the awareness of those on the N28 to the presence of the junction. It will also provide advance warning raise the awareness of those on the L2470 to the junction with the N28 and the road layout leading to the junction. Problems arise due to the layout of the minor roads leading to the junction, and due to the volume and speed of traffic on the N28 leaving fewer opportunities for traffic to emerge onto the N28.			
	Occasionally emerging traffic overestimates the time available to merge, particularly right			

turning movements onto N28, resulting in accidents.

	Acquisition		Design & Stat	Supervision	Construction	Total
Cost Estimates	Land	Property	Process	Supervision		
	Not Reg'd	Not Regid	€2,500	€2,000	€20,000	€24,500
Start Date Completion Date						
	Year Submitted	Approval	Technical		NRA PRS CODE	
NRA Office Use			Financial			

"The previous scheme provided advance warning to those on the N28 of the presence of the junction"









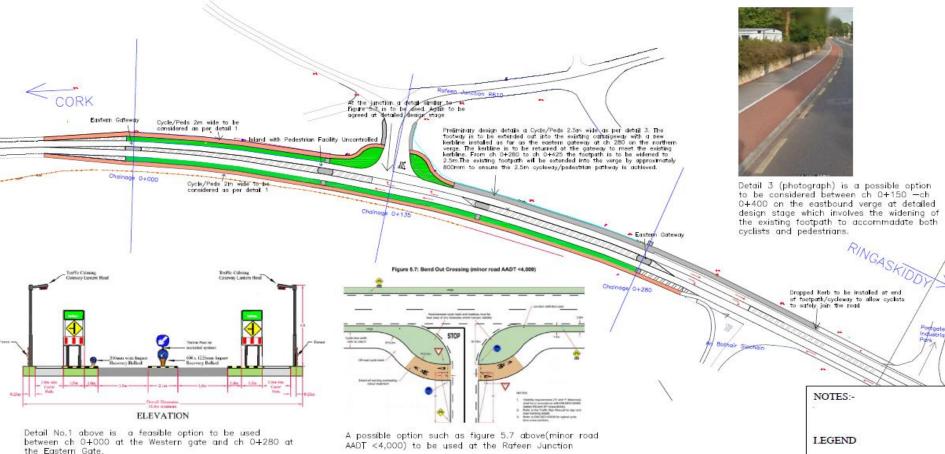


### Cork County Council comhairle contae chorcaí

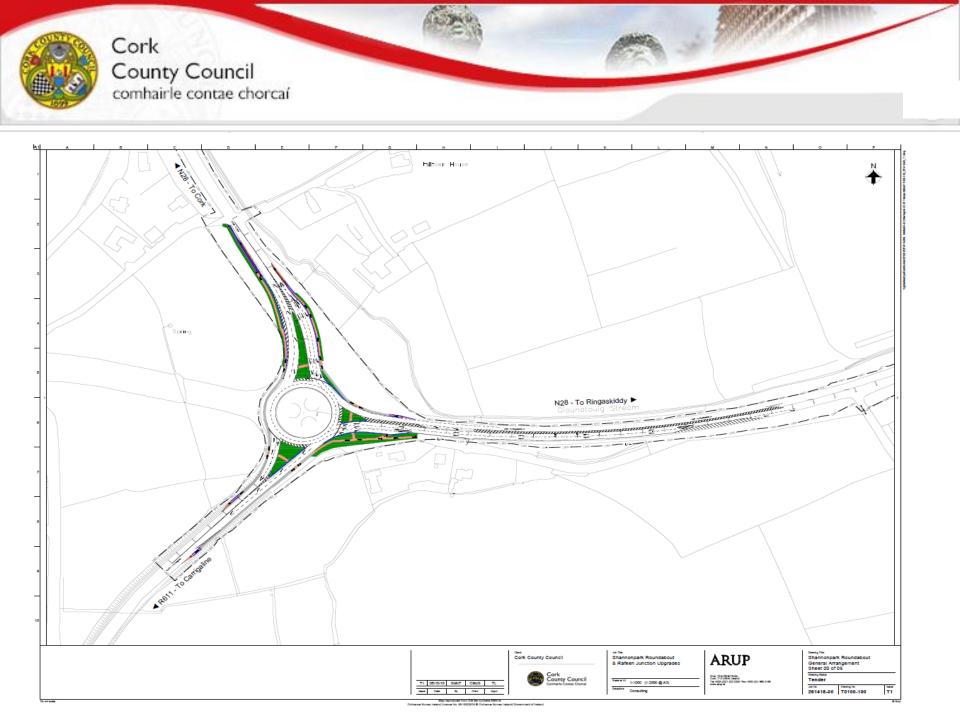
	Date	Day	Time	Severity	Surface	Collision Type
1	22-Feb-12	Wednesday		Material		Collision occurred at Junction
2	11-Jun-12	Monday		Minor		Collision occurred at Junction, angle right turn at N28/R610 Junction
3	25-Aug-12	Saturday		Material		Collision occurred at Junction
- 4	20/02/2013	Wednesday	Day	Material	Dry	Collision occurred at Junction
5	31/10/2013	Thursday	Day	Material	Dry	Collision occurred close to Junction
6	11/11/2013	Monday	Dark	Material	Wet	Collision occurred at Junction
7	15/04/2014	Tuesday		Minor		Side Impact at Junction
8	2014	No exact date		Material		Collision occurred at Junction
9	20/01/2016	Friday	Dark-Unlit Lighting	Minor	Dry	Rear end near junction in heavy traffic
10	03/11/2016	Thursday	Dark-Poor Lighting	Minor	Dry	Right turn onto N28 from R610. hit by Eastbound vehicle.
11	31/08/2016	Wednesday	Day-Good Visibility	Material	Dry	Right turn onto N28 from R610. M cyc overtaking through junction Eastbound.
12	19/04/2016	Wednesday	Day-Good Visibility	Material	Dry	Vehicle turning right out of R610 hit vehicle turning right into R610
13	02/05/2017	Tuesday	Day-Good Visibility	Material	Dry	Right turn onto N28 from R610. hit by Eastbound vehicle.
14	14/03/2017	Tuesday	Day-Good Visibility	Material	Dry	Right turn onto N28 from L6472 hit Eastbound vehicle.
15	17/06/2017	Saturday	Day-Good Visibility	Material	Dry	Right turn onto N28 from R610, vehicle stopped in middle of main road. Then hit by vehicle that has pulled into right turn lane to turn right into R610.
16	13/09/2017	Wednesday	Day-Good Visibility	Fatal		Collision between a cyclist and a tractor, the cyclist was killed in the collision between the Rock Road and the Raffeen Junction.

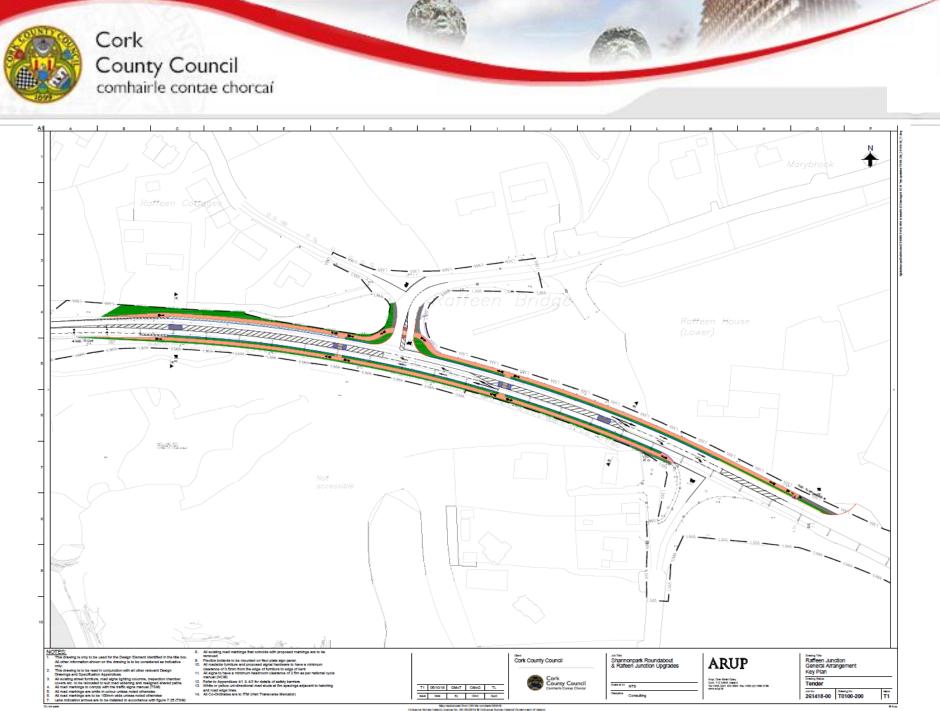
Collision History 2012 to 2017 – High collision rate noted with more than 3 collisions in the previous 3 years.





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# Scheme Delivery

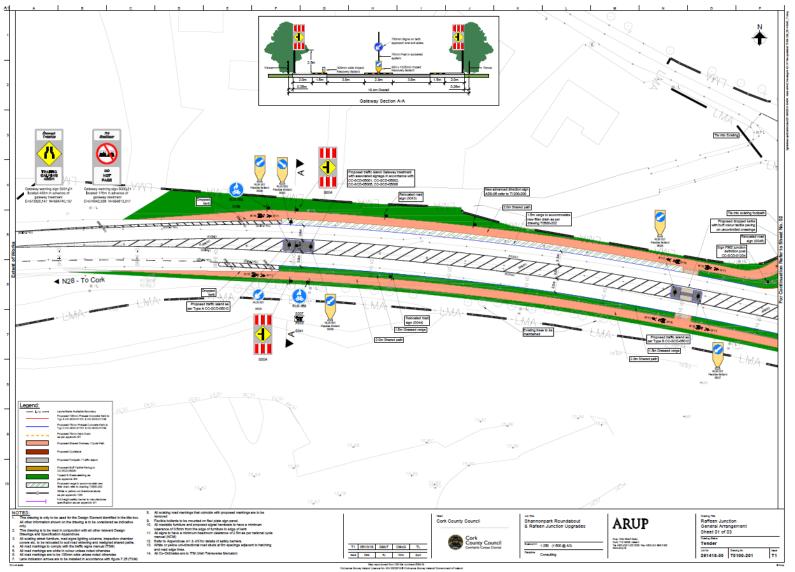
Link in with LIHAF Scheme at Shannonpark:

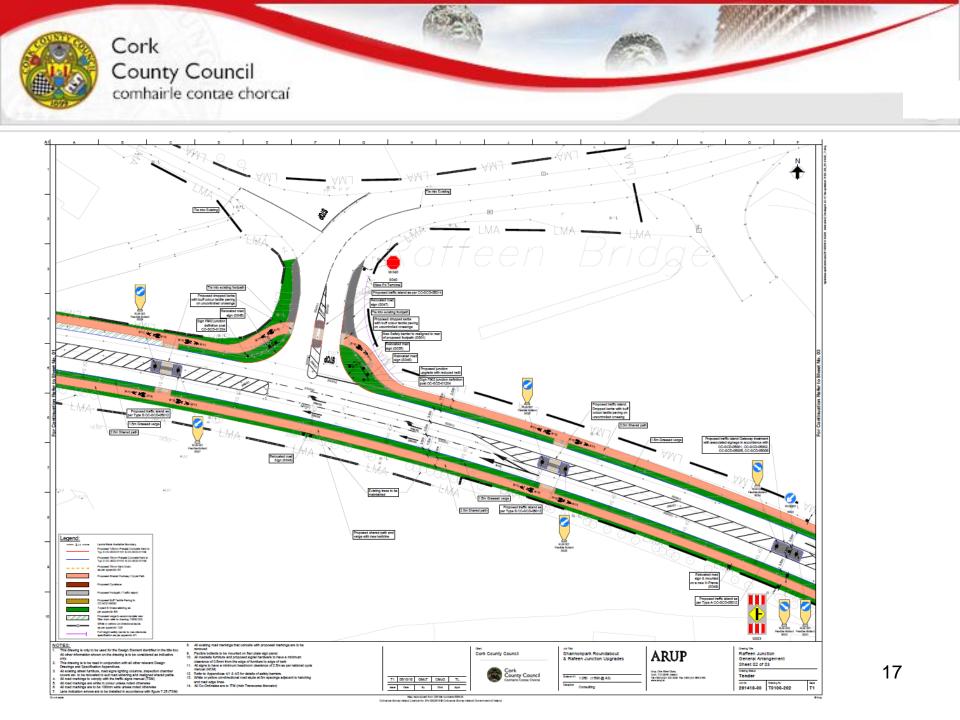
- Ensure Value for Money with larger Contract;
- Shared site supervision;
- Better Traffic Management;

.....Although different funding sources

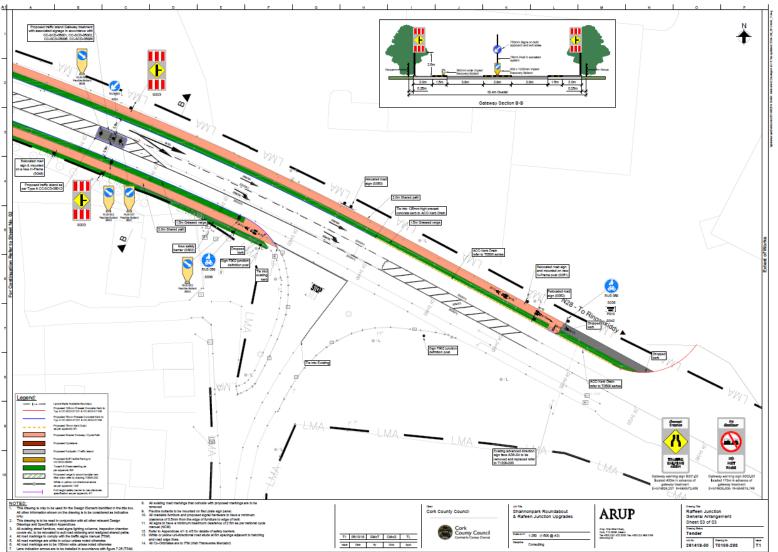






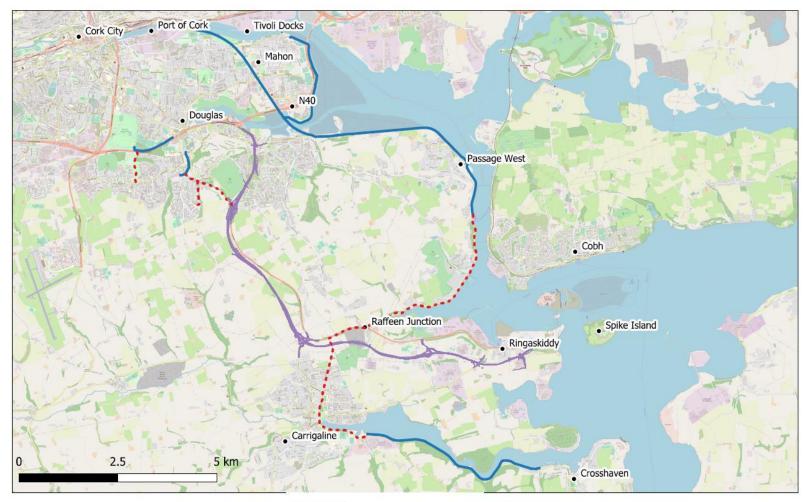






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#### M28 Cork to Ringaskiddy Project Proposed and Existing Greenways

### Legend:

Proposed Greenway ----Existing Greenway ----M28 Cork to Ringaskiddy Project ----



## Road Safety Audits – Stages 1,2 & 3

Issues included:

- Speed Limit;
- Facilities for Cyclists;
- Vegetation;
- Road Markings;
- Signage.



# Does it Work???

- Post-construction speeds (particularly eastbound) are reduced from the approach to the middle of the scheme
- No collisions have been recorded since the completion of the works up to May 2020.











## Costs:

## Tender - €528,208.50

## Final Out-turn - €623,032.60



# Thank You!