

Motorway Maintenance and Renewals Contract (MMaRC)

Progress to Date &
Consideration of Future Developments

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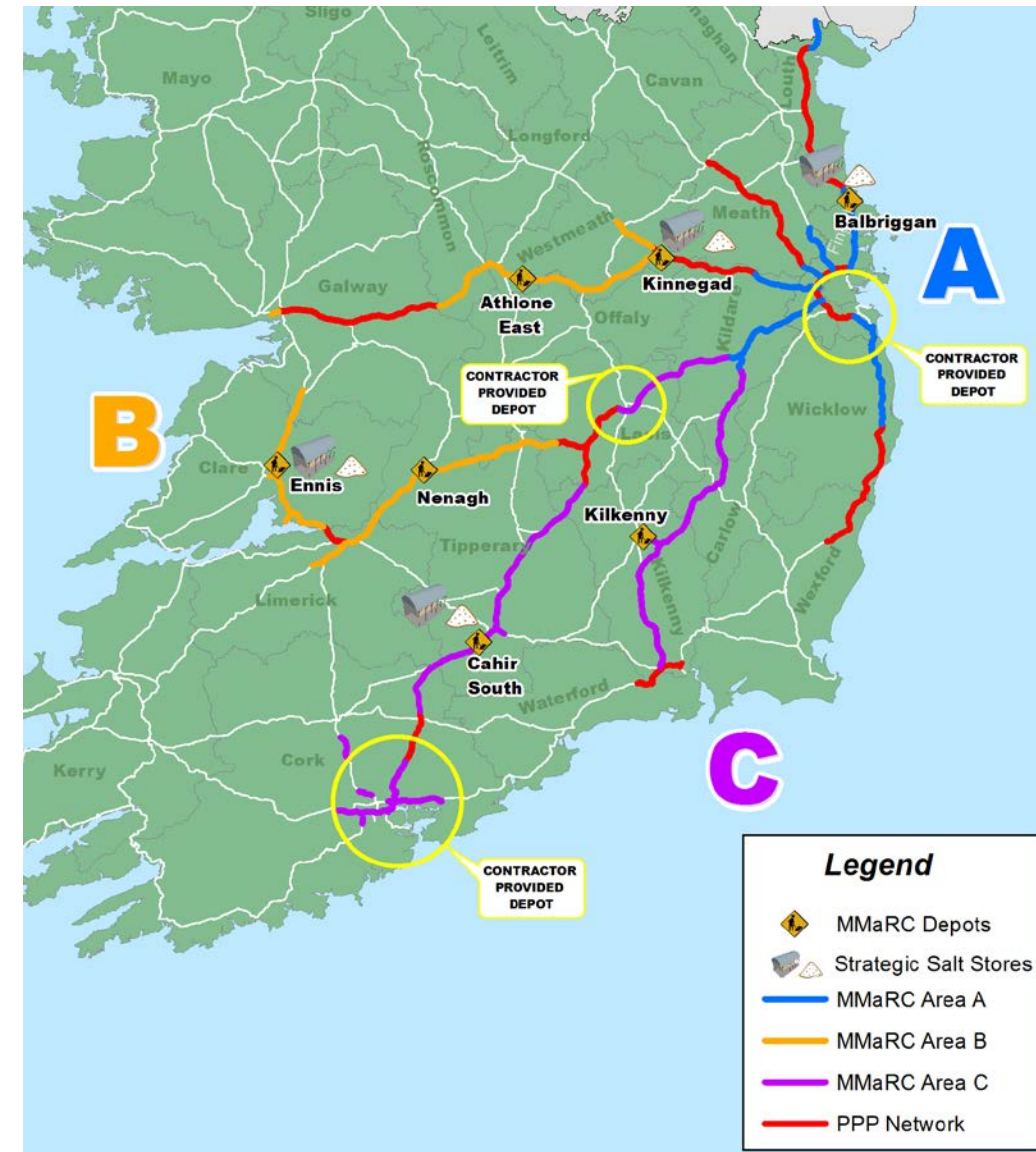
Head of Network Operations, TII.
MCAAS Commission Manager, Associate
Director, Atkins.

September 28th 2016

Current Status

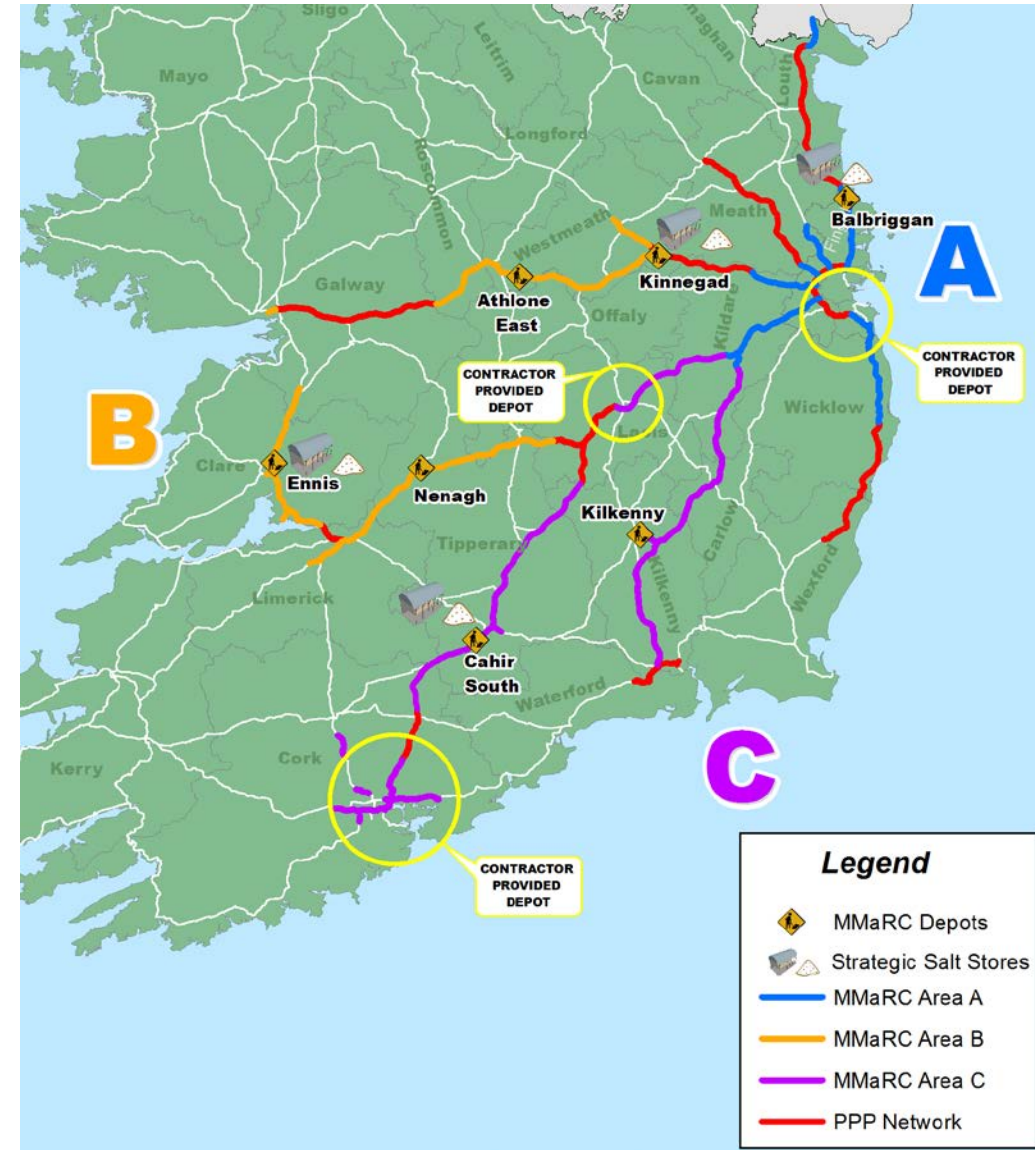
- Atkins appointed as Technical Adviser in 2010.
- Contract start dates Nov/Dec 2013.
- Envisaged contract term 5 years (winter 2018/2019) + 1 + 1 years
- 2nd generation contracts expected in Spring 2019
- Consultation with CCMA/LAs during 2017.

Motorway Maintenance and Renewals Contracts (MMaRC)



Key Issues / Decisions

- Transition: from LA → MMaRC
- Liaison: 21 Local Authority areas + 10 PPPs.
- Scale: Breaking into lots.
- Duration: Economy vs flexibility.
- Depots: Provision & ownership, restrictions on access.
- Contract Type / Risk Transfer: Winter Services, Incident Response, Asset Damage.
- Procurement: Quality (70%) / Price (30%)

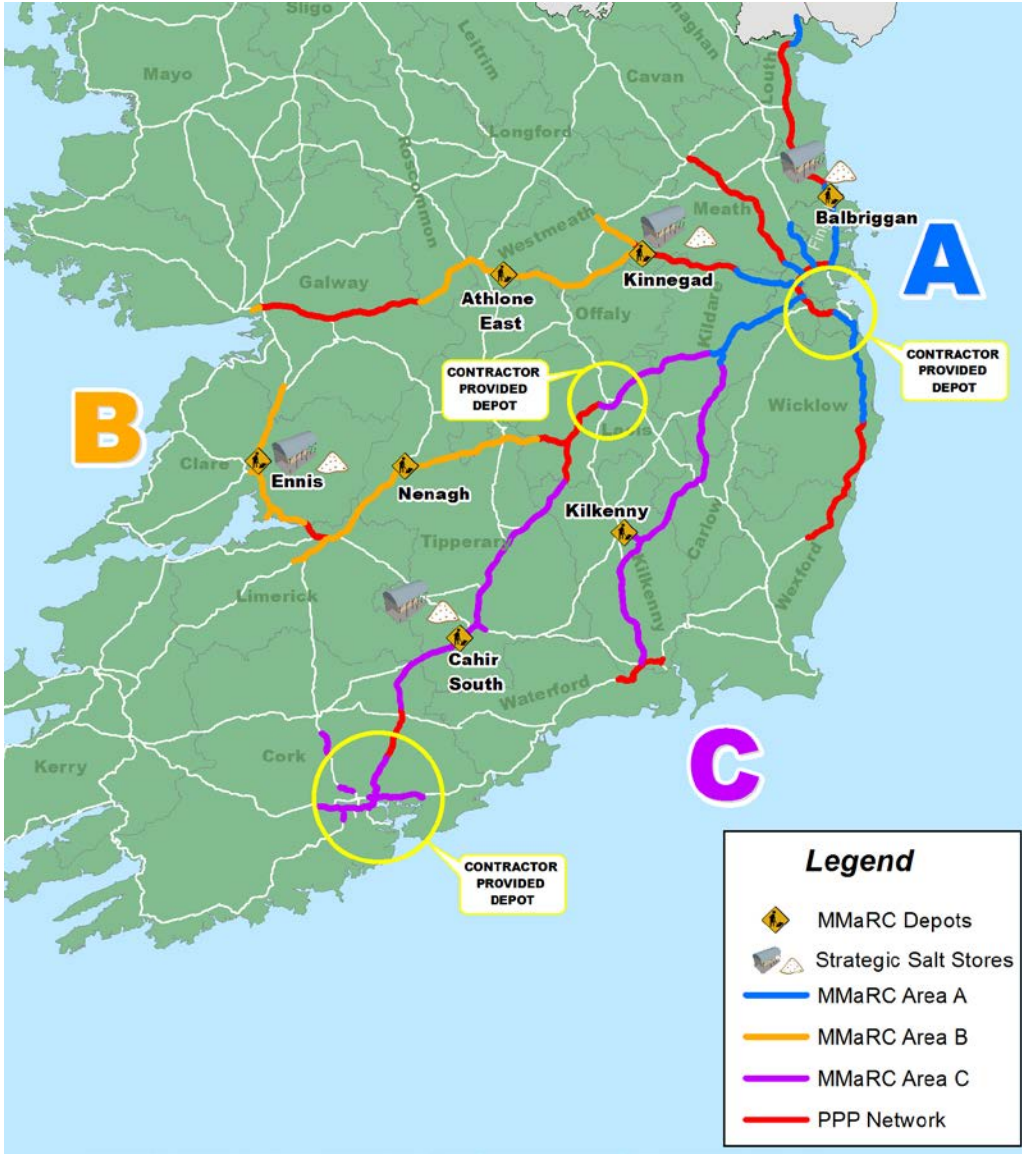


Scale of Contracts

Motorway / Dual carriageway network	Length
Total Length of Dual & motorway network	1,210 km
- PPP	374 km
- PPP under construction	94 km
- MMaRC	744 km
- Local Authority	92 km

MMaRC		Network Operator	Length
A	Heavy traffic urban	Globalvia Sacyr Jons [GSJ]	160 km
B	Lighter traffic rural	Colas Roadbridge JV [CRJV]	256 km
C	Mixed urban/rural	Egis Lagan Services [ELS]	328 km
		Total	744 km

- Entire MMaRC equivalent to one UK maintenance area.
- Division into lots.
- Subdivision of network.
- Restrictions on tenderers.

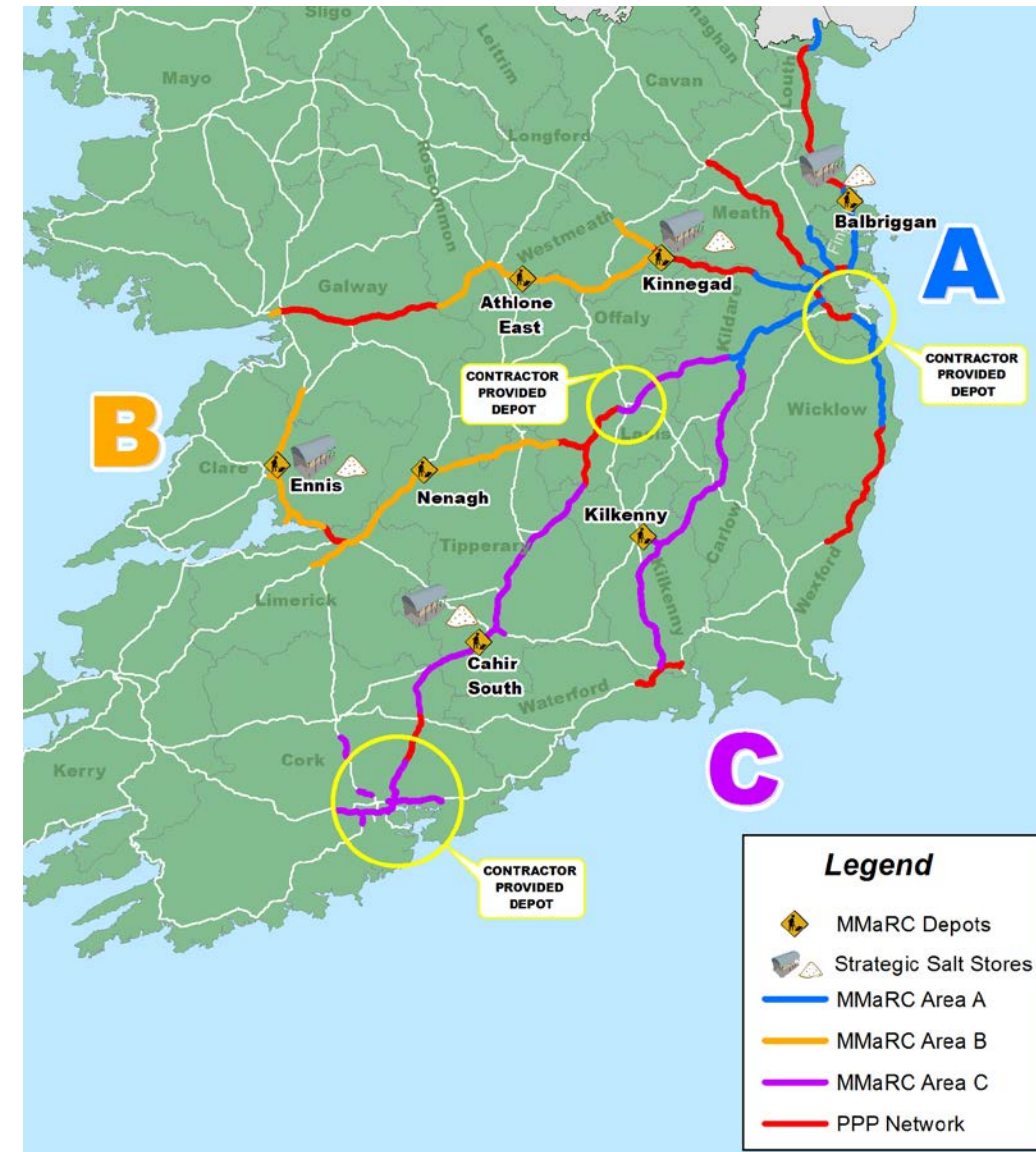


Legend

- MMaRC Depots
- Strategic Salt Stores
- MMaRC Area A
- MMaRC Area B
- MMaRC Area C
- PPP Network

Duration

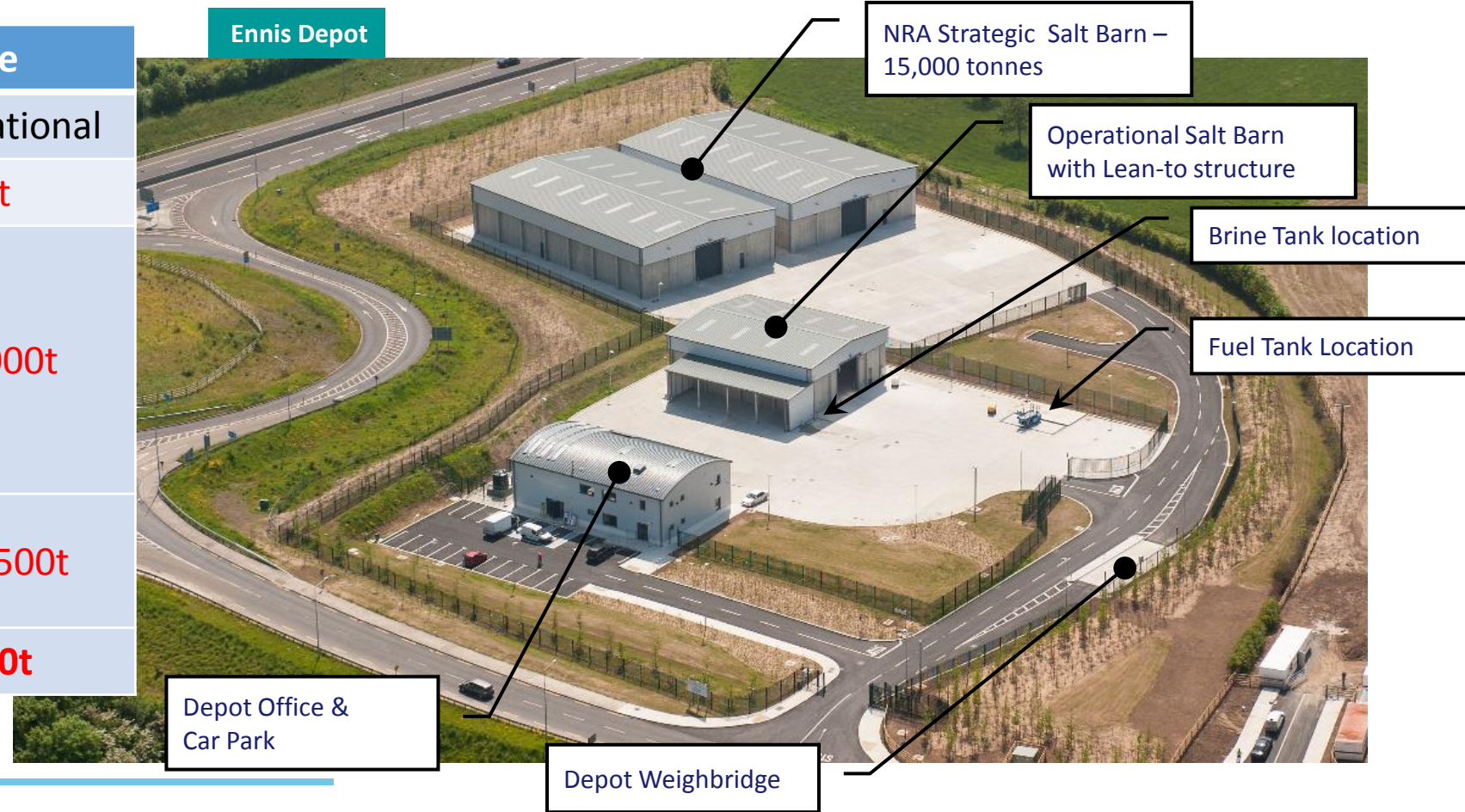
- Longer duration – more economic
- Shorter duration allows quicker contract evolution
- Balance with maximum flexibility for TII: 5 years +1 +1



Depots

- TII owned – leased to MMaRC Contractor
- Reduces barrier to future entrants
- Strategic Salt storage (NDFEM)

Depot	Area	Salt Storage	
		Strategic	Operational
Balbriggan	A	20,000t	6,500t
Athlone	B		9,000t
Ennis	B	15,000t	
Kinnegad	B	12,000t	
Nenagh	B		11,500t
Cahir	C	30,000t	
Kilkenny	C		
Total		77,000t	27,000t



Contract Type

- Bespoke Contract agreed with GCCC as no equivalent available;
 - Lump Sum for defined works / responsibilities;
 - Tendered rates for renewal works (1,550 items in Schedule of Rates);
 - Minimum contract value of approx. €20M per annum.
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Risk Transfer



EIWO = Employer Instructed Works Order

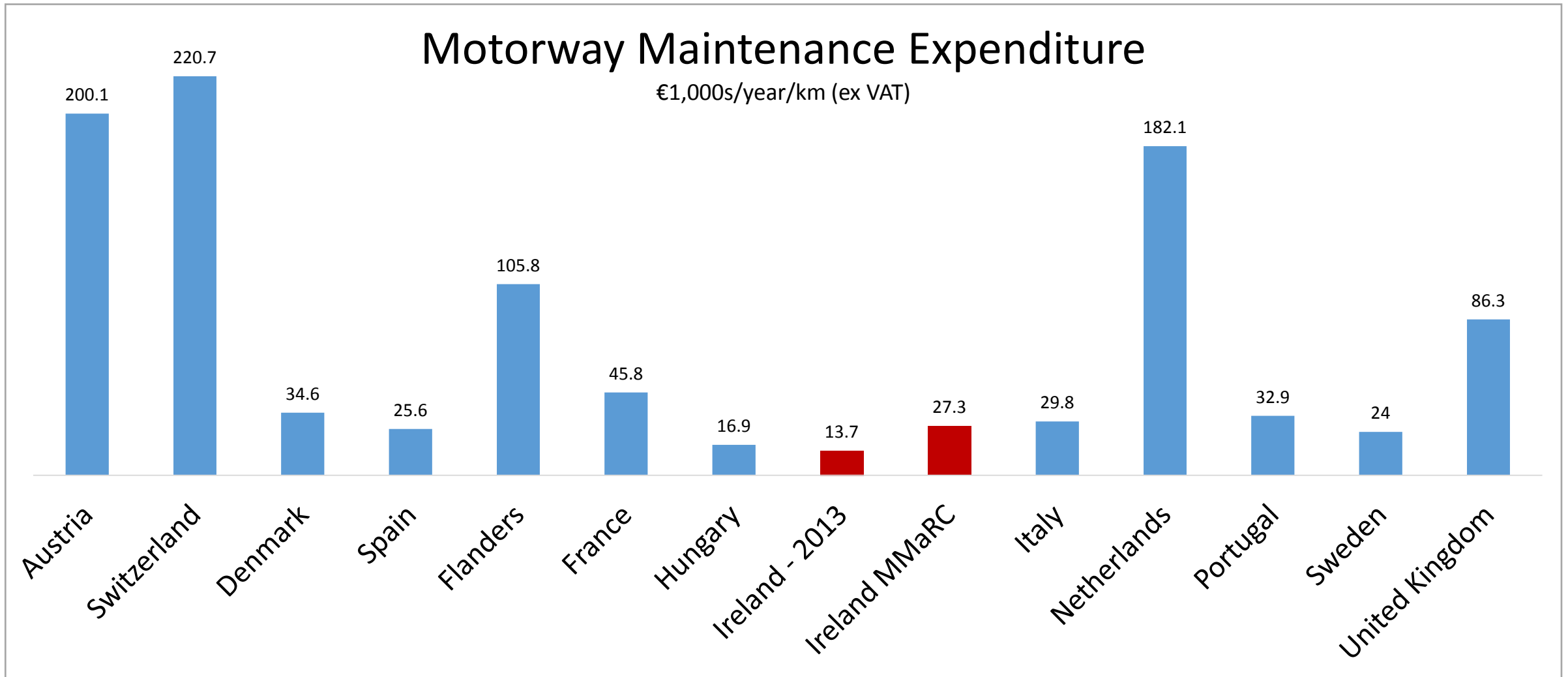
Risk Transfer

- Winter Services - Full risk transfer, performance specification with specified minimum resource levels.
 - Incident Response - Full risk transfer for Initial Response, Support Response as instructed. Response times ½ hour to 2 hours.
 - Asset Damage – Full risk transfer up to €12,500. Incentive to pursue insurers where liable. Problem with fire damage (Accidental Fires Act 1943).
 - TII claims / IPB.
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European Comparison (CEDR 2010)

Motorway Maintenance Expenditure

€1,000s/year/km (ex VAT)



MMaRC Contract Overview



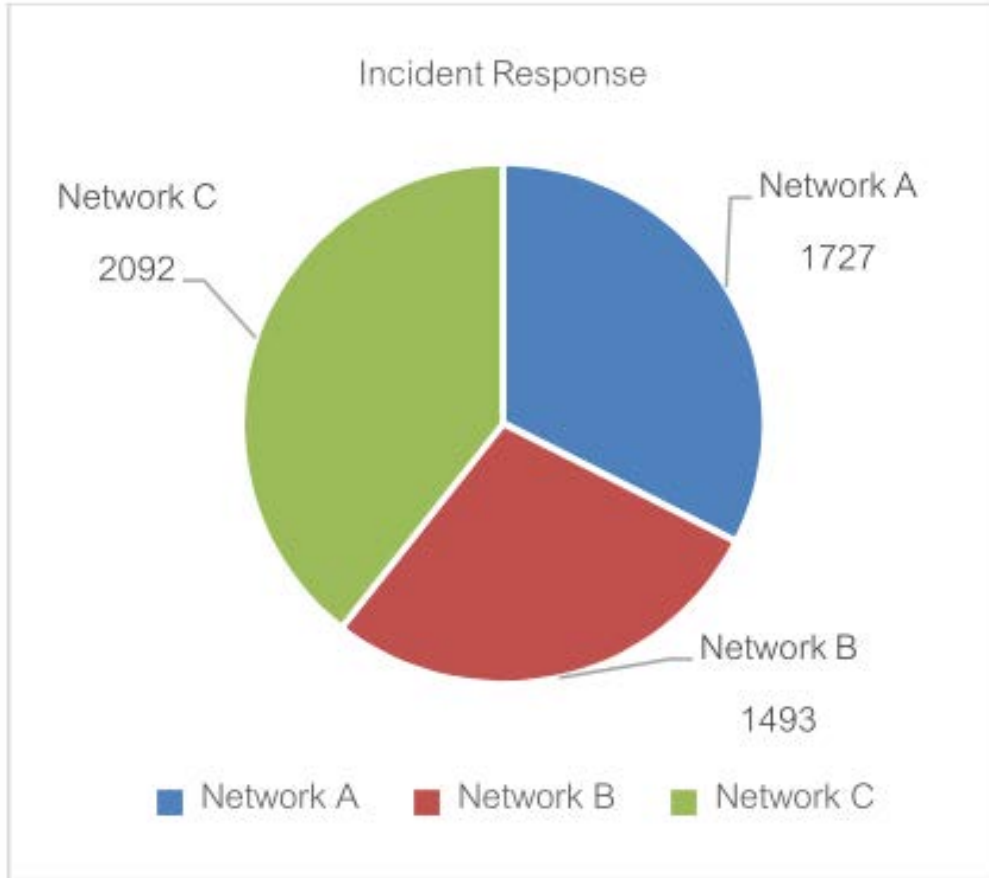
EIWO = Employer Instructed Works Order

Progress to Date – Lump Sum Activities

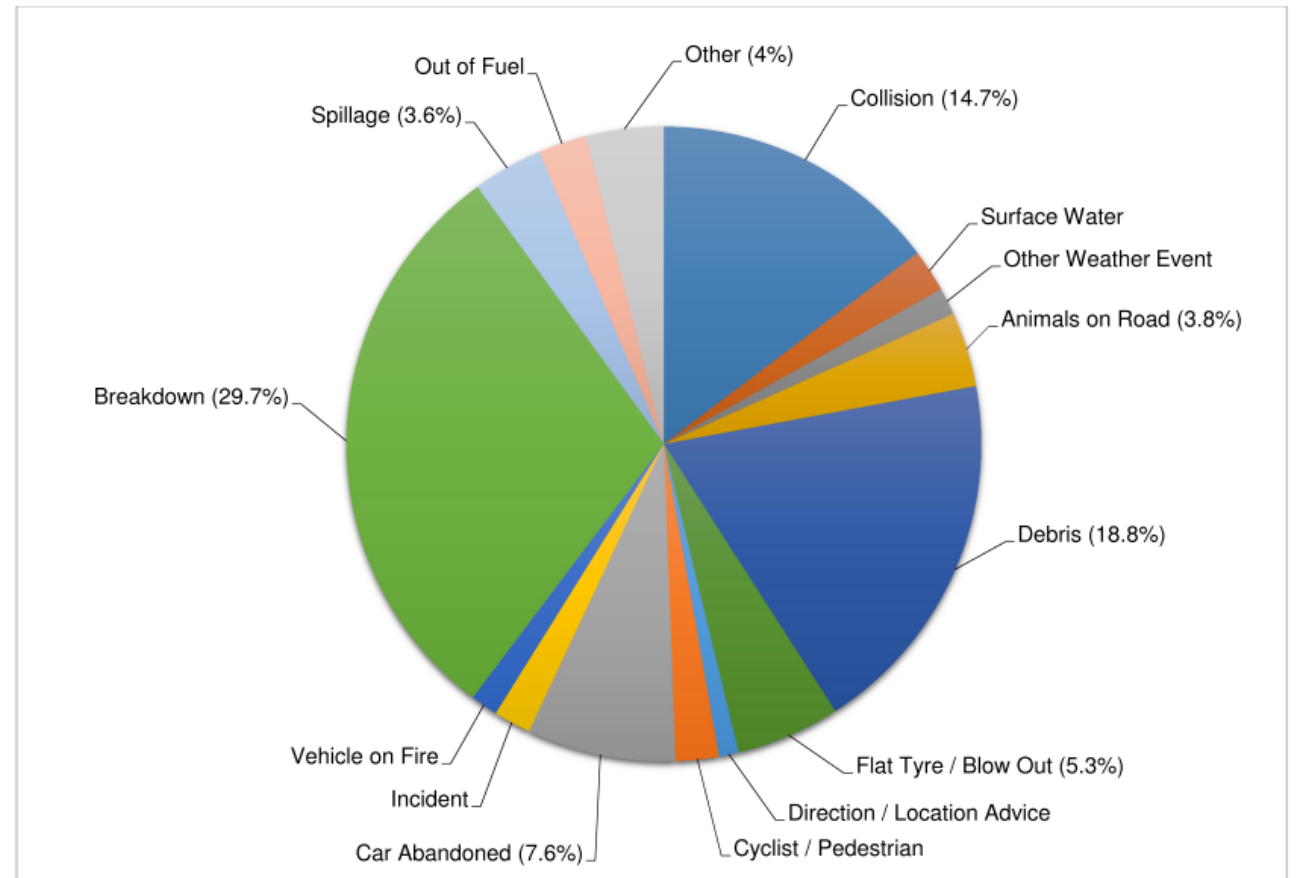


**Routine
Maintenance**

Progress to Date – Lump Sum Activities

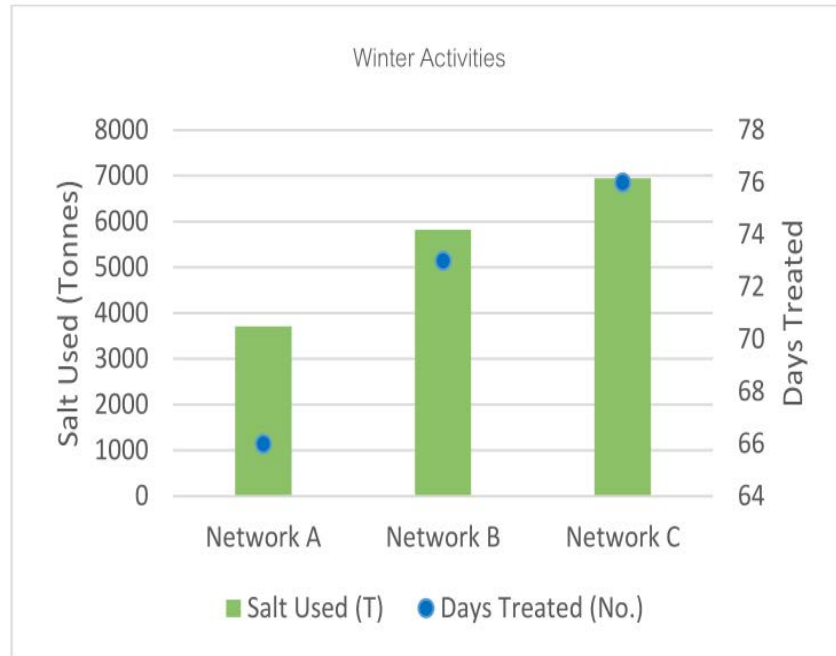


Incident Response – 2015
5,312 incidents



Incident Categories - 2015

Progress to Date – Lump Sum Activities



**Winter Activities – 2015/2016
Season**



Progress to Date – Issues / Opportunities

- Historic underfunding led to significant legacy issues.
 - Baseline Survey carried out – legacy defects identified & now substantially advanced.
 - The MMaRC Contract was identified as an appropriate mechanism to deal with:
 - Additional funding
 - Environmental issues
 - Safety works identified in RSI's & HD15's.
-

Progress to Date – EIWOs Completed



**Filter Drain
Remediation
Works**

Progress to Date – EIWOs Completed



Marker
Plates

Progress to Date – EIWOs Completed



M50
Emergency
Diversion
Routes

Progress to Date – EIWOs Completed



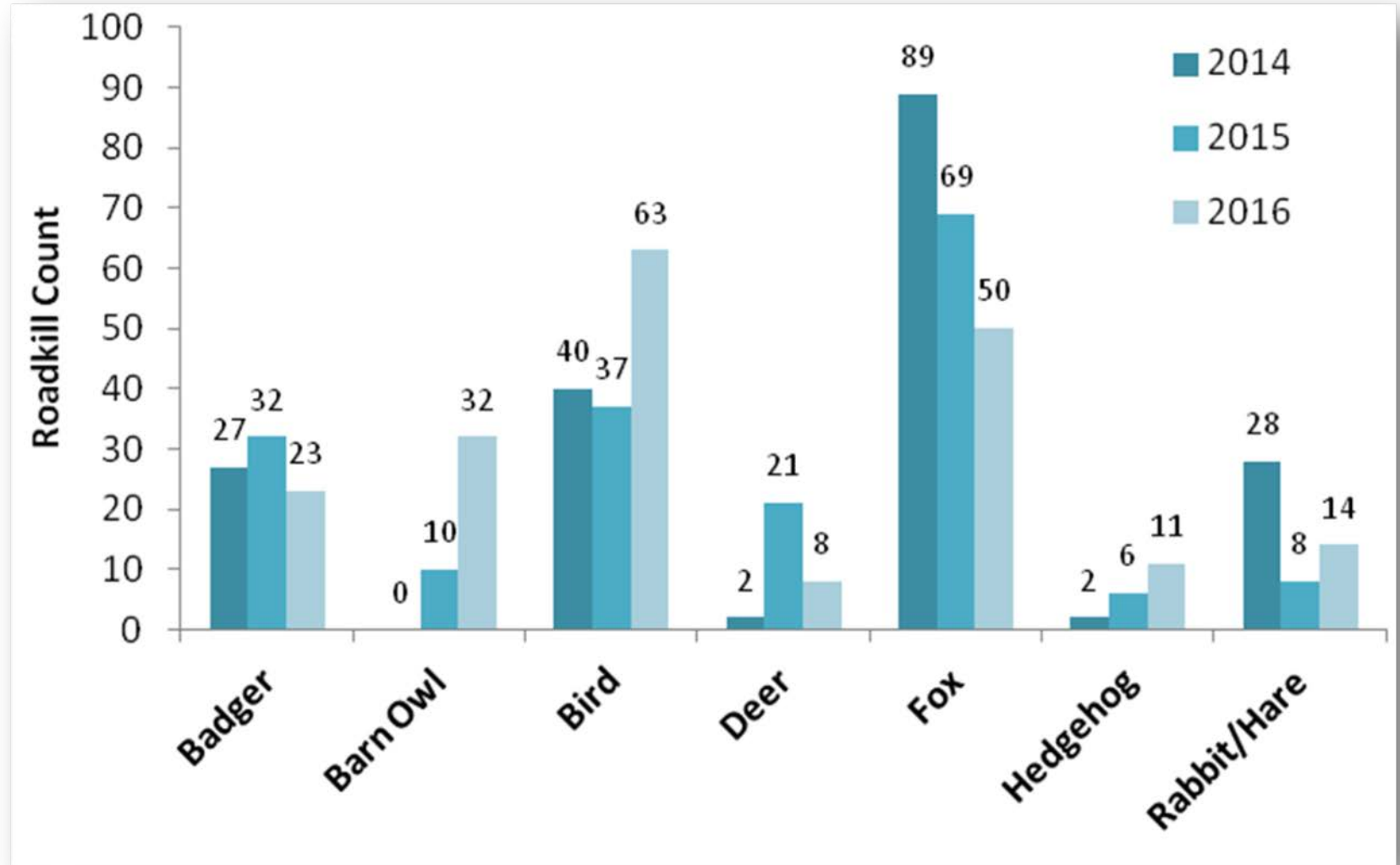
Flooding

Progress to Date – Pavement Schemes

- Rolling crowns.
- HD 28 sites.
- Junction & mainline improvements.



Progress to Date – Environmental Monitoring



Progress to Date – Environmental Monitoring

Japanese Knotweed



Progress to Date – Other Works

Drainage Improvements - Vibro Line removal for drainage gaps.

Before



After



Progress to Date – Other Works

Clear Zone Provision



Progress to Date – Other Works

Visibility Provision



Progress to Date – Other Works

Drainage Upgrades



Progress to Date – Other Works



Election Poster Removal



Next Generation - Timeline

- 5 year contracts;
 - Contract period expires winter 2018/2019;
 - Option to extend 1 + 1 years;
 - Expected MMaRC Generation 2 start date to be Spring 2019.
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Next Generation – Items for Consideration

Aspect	Issue
Procurement	Levelling of Pitch Duration of Contract Restriction on Award Lots Quality / Price
Funding Implications	Risk Transfer Extent of Services / Technical Requirements Winter Service Plant Specification
TII & National Policy	Extent of MMaRC Areas Incident Response Services Relationship with Local Authority Fire Services
Administration	TII hosted Asset Management Database Interface with Local Authorities Technical Supervision

Summary

- Contracts working well
 - Significant positive impact on network
 - Additional funding
 - Many 'legacy' issues addressed
 - Now planning towards next generation contract.
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Thank You
