



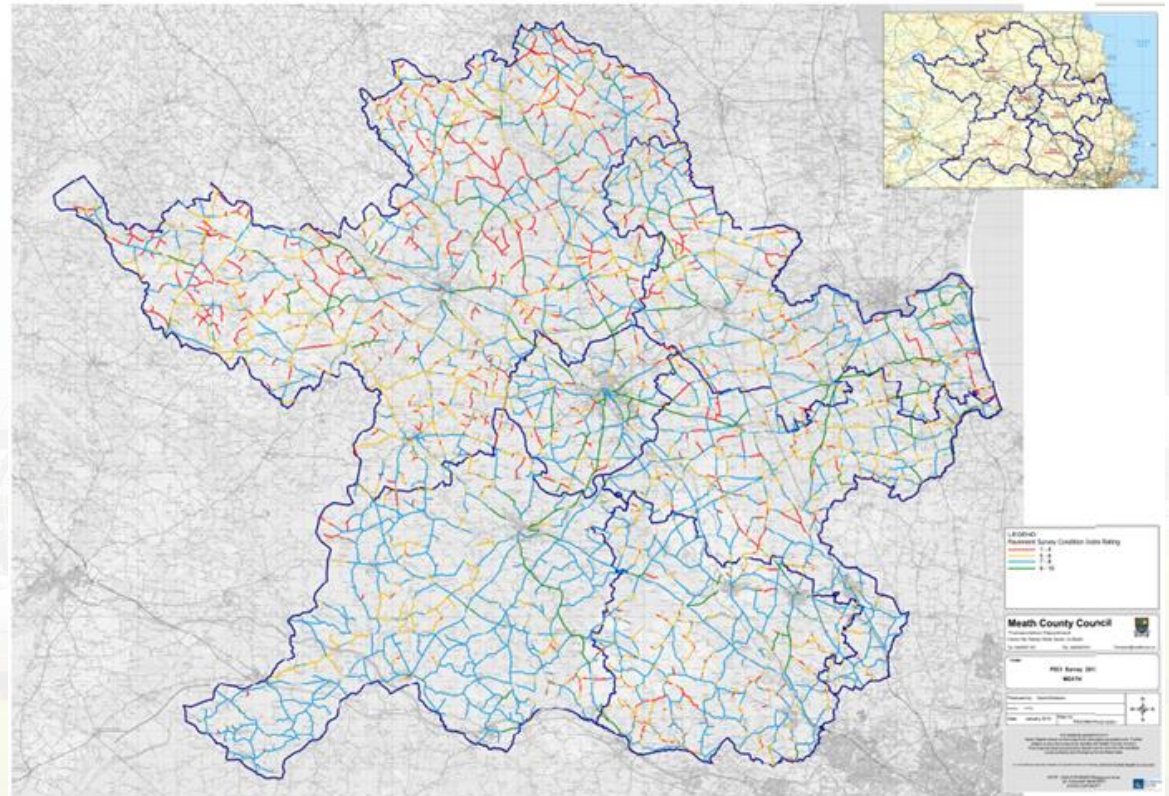
The Institute of Asphalt Technology  
**Irish Branch**

# Delivering a more Sustainable Roadworks Programme in Co. Meath

Andy Faulkner MCC

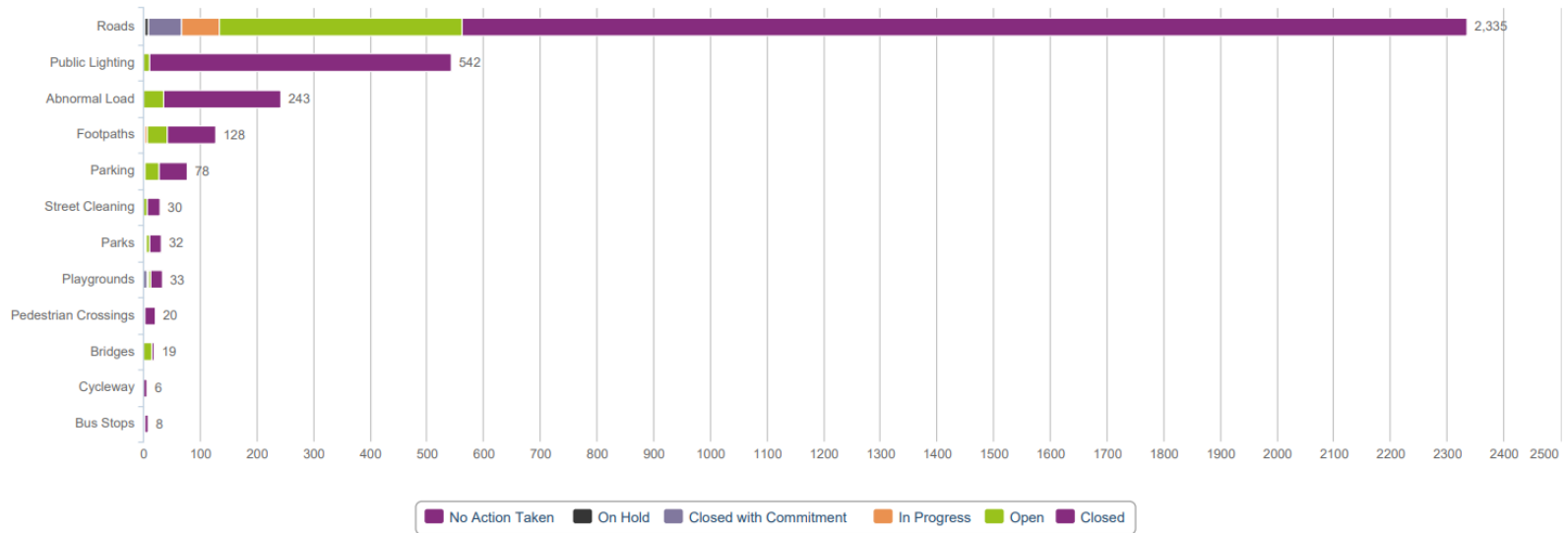
## Meath County Council 2014

- 3no Town Council and 5no Area Offices
  - Each tendered their RWP individually
  - Slightly varied tender documents
  - Machinery Yard closed in 2007
- Creation of 6no. New Municipal Districts in Meath
- 50% of MD engineers had no previous experience of delivering a RWP
- GDA Commuter population
- 3600km of road network
- Diverse road network Rural and Urban
- Tasked with a new way of delivering the roadworks programme
- Politically pressure was mounting
- Current model needed to change



# Putting People First

Rpt 1.12.2 - CST - Transportation Cases - By Service



## Transition Period

- Collaborative approach
  - MD still involved
  - SMWD presentation
- Positives aspects
  - MD Engineers
  - Councillors
  - General Public
- Specific Strengthening contract
- Specific Drainage contracts
- Combining 2 Municipal Districts
- Surface Dressing
  - Chips sourced by MCC
  - Hired in machines
  - In house design & supervision
- Outdoor staff involvement
- Increased expenditure



## Contracting Model

- 4 specific contracts
  - €18.36million in 2024
- Specialised contractors
  - Specialised equipment
  - Specialised workforce
    - Drainage/Traffic MGMT
- 100% Contractor
  - No outdoor staff involved in Roadworks Programme
- Recycling Contract (Phase1)
  - 25,000tons
  - 25-30 schemes
  - €5/6million
- Surface Dressing (Phase2)
  - Circa 700,000m<sup>2</sup>
  - 75 schemes
  - €3-3.5 million
- Structural Overlay & Surface Dressing (Phase 3)
  - €4/5 Million
  - 15/20 Schemes
- HRA/Urban Contract (Phase4)
  - €3/4million
  - 12-17 Schemes

## MCC – Increased Investment in the Roads Network & MDs

2017	2018	2019	2020	2021	2022	2023	2024
€0,580,094	€3,973,649	€11,891,507	€12,584,884	€12,880,401	€14,601,553	€17,561,400	€18,564,093



[www.instituteofasphalt.org](http://www.instituteofasphalt.org)

## Individual Documentation

- **Annually circa 150 schemes**
  - **RI, RM, Former National Road**
- **Site Specific**
  - **Design Process Risk Assessment**
  - **Temporary Traffic Management Plan**
    - **Detour Route**
    - **Closure if required**
  - **Drainage requirement**
  - **Excavations/strengthening**
- **Surface Dressing individual design**
  - **Rack-In 10/6 and Double Surface Dressing**
- **Cumulative BOQ**
  - **Individual breakdown in Works Requirements**
- **Special Speed Limit for RI works**
- **IPB clarification in insurances**
- **Appointments in place**
- **AF1 Forms**
- **Appointment of PSCS**
- **Safety Inspections**
- **Night works in Urban Areas**
  - **Annually 4-6 weeks**

## Sustainability

## Tender Package

- **1. Supplementary RFT**
- **2. Volume A Works Requirements**
  - **2.1 Volume A Works Requirements Phase 2 Book 1 Specifications**
  - **2.2 Volume A Works Requirements Phase 2 Book 2 Model Forms**
- **3. Volume B FTS + Conditions**
  - **FTS5 Tender and Schedule**
  - **PW-CF5**
- **4. Volume C Pricing Document**
- **5. Volume D Background Information**
  - **5.1 Design Process Risk Assessments**
  - **5.2 S&H Plan**
  - **5.3 Map**
  - **5.4 H&S questionnaire**
  - **5.5 Inspection form**
  - **5.6 Inspection checklist**

## Procurement Evolution

### 1.3 sRFT EVALUATION & AWARD

1.3.1 Tenders submitted in response to this Supplementary Request for Tender will be evaluated in accordance with the following Award Criteria.

**[CA TO EDIT TEXT AS APPROPRIATE PRIOR TO PUBLICATION OF sRFT]**

SUPPLEMENTARY REQUEST FOR TENDER AWARD CRITERIA			
	CRITERION	WEIGHTING	MINIMUM PASS %
1	Price (Total Cost)	<b>Insert weighting 20 – 100%</b>	<b>Insert Marks 200 – 1,000</b>
2	Quality (As detailed in Appendix 2)	<b>Insert weighting 0 – 80% or N/A if not used</b>	<b>Insert Marks 0 – 800 or N/A if not used</b>

- Individual MD contracts
- Frameworks
- Supplygov.ie
  - Standardised procurement
  - Minimum 90/10 split
  - RM 70/30
  - Recycling 65/35
  - More control over standards

### APPENDIX 2 – SUPPLEMENTARY REQUEST FOR TENDER – CONTRACT AWARD CRITERIA (QUALITY)

**[CA TO DELETE THIS APPENDIX IF NOT USED OR EDIT TEXT AS APPROPRIATE PRIOR TO PUBLICATION OF sRFT]**

SUPPLEMENTARY REQUEST FOR TENDER – CONTRACT AWARD CRITERIA (QUALITY)	
PERCENTAGE WEIGHTING:	AS PER SECTION 1.3
MAXIMUM MARKS AVAILABLE:	AS PER SECTION 1.3
MINIMUM PASS MARKS:	AS PER SECTION 1.3
TITLE OF QUALITY CRITERION:	<b>[CA TO INSERT TITLE FOR THE CRITERION USED]</b>
INFORMATION REQUIRED TO BE SUBMITTED BY TENDERER:	<b>[CA TO INDICATE HERE THE INFORMATION REQUIRED TO BE SUBMITTED IN RESPONSE TO THIS SUB CRITERION]</b>
TENDERER RESPONSE	
<i>Tenderer to insert response here</i>	

## 70/30 Award Criteria

sRFT – Roadworks Programme Phase 2 (Surface Dressing) 2023

### 1.2 RESPONDING TO THIS SRFT

1.2.1 Tenderers must complete and return the information indicated in the Table below.

INFORMATION TO BE SUBMITTED BY TENDERERS		APPLICABLE
1)	Upload completed Volume B Form of Tender and Schedule and Volume C Pricing Document as issued with this sRFT and enter the Tender Sum on <a href="http://www.supplygov.ie">www.supplygov.ie</a>	YES
2)	Request for Tender Contract Award Criteria – <b>Quality</b> (See Appendix 2)	YES

### 1.3 SRFT EVALUATION & AWARD

1.3.1 Tenders submitted in response to this Supplementary Request for Tender will be evaluated in accordance with the following Award Criteria.

SUPPLEMENTARY REQUEST FOR TENDER AWARD CRITERIA				
CRITERION		WEIGHTING	MAXIMUM MARKS AVAILABLE	MINIMUM PASS %
1	Price (Total Cost)	70%	700	N/A
2	Quality (6 No. Sub-criteria detailed in Appendices 2A, 2B, 2C, 2D & 2E)	30%	300	40%
<b>Total Marks</b>		100%	1,000	N/A

- 1.3.2 The Tenderer that achieves the highest Total Marks will be deemed to have submitted the most economically advantageous tender and will be identified as the Preferred Tenderer. The remaining Tenderers will be ranked in descending order based on their Total Marks.
- 1.3.3 Marks for **Price (Total Cost)** will be allocated using the formula set out in part 5.3 of the DPS Agreement.
- 1.3.4 The **Price (Total Cost)** is the Comparative Cost of each Tender calculated using the template in **Appendix 3**. For the purpose of assessing the Comparative Cost of Tenders only, the Employer will assume that there will be Compensation Events involving payment of the amounts stated in the template in **Appendix 3**.
- 1.3.5 Marks for **Quality**, if applicable, will be allocated using the marking scale set out in part 5.3 of the DPS Agreement.
- 1.3.6 Any Tenderer who fails to reach the Minimum Pass % in any Quality criterion will be eliminated from the competition.
- 1.3.7 In the event of a tie, the Contracting Authority may, at its discretion, apply the tie-breaking approach set out in part 5.3 of the DPS Agreement.

## 10% Quality

sRFT – Roadworks Programme Phase 2 (Surface Dressing) 2023

### APPENDIX 2A – SUPPLEMENTARY REQUEST FOR TENDER – CONTRACT AWARD CRITERIA (QUALITY)

#### Sub-Criterion A

SUPPLEMENTARY REQUEST FOR TENDER – CONTRACT AWARD CRITERIA (QUALITY)	
PERCENTAGE WEIGHTING:	10%
MAXIMUM MARKS AVAILABLE:	100
MINIMUM PASS %:	40%
TITLE OF QUALITY SUB -CRITERION:	Technical Merit – Project Methodology
<p><b>INFORMATION REQUIRED TO BE SUBMITTED BY TENDERER:</b></p> <p>The Tenderers overall score will be based on:</p> <p>Tenderers ability to clearly demonstrate how they intend to deliver the required works. Responses to this criterion must address in particular the characteristics of the contract, including but not limited to, the site specific constraints in relation to working times, project schedules, risk management, project management, project programme, resourcing proposals and allowable project duration.</p> <p>The project methodology will be assessed on the basis of the level of detail provided and the quality of the methodology.</p> <p>Tenderers to provide a written statement of <b>no more than two A4 single sided pages</b> typed with a minimum size 10 point font and single line spacing, demonstrating the relative economic advantages of their work proposal to Meath County Council. The following sub-criteria should be specifically addressed:-</p> <ul style="list-style-type: none"> <li>• Delivery of Service (start and completion dates)</li> <li>• Project Management (including Traffic Management)</li> <li>• Materials to be used and Quality assurances</li> </ul>	
<b>TENDERER RESPONSE</b>	
<p>Tenderers to provide a written statement with above information of no more than two A4 single sided pages typed with a minimum size 10 point font and single line spacing.</p> <p>In the event that more than two pages of written statement are submitted (excluding cover page and attached references) only the first 2 pages of the statement will be read and scored accordingly. The remaining pages will be disregarded.</p>	



5%

## Supply Agreements/ Delivery

sRFT – Roadworks Programme Phase 2 (Surface Dressing) 2023

### APPENDIX 2C – SUPPLEMENTARY REQUEST FOR TENDER – CONTRACT AWARD CRITERIA (QUALITY)

#### Sub-Criterion C

SUPPLEMENTARY REQUEST FOR TENDER – CONTRACT AWARD CRITERIA (QUALITY)	
PERCENTAGE WEIGHTING:	5%
MAXIMUM MARKS AVAILABLE:	50
MINIMUM PASS %:	40%
TITLE OF QUALITY SUB -CRITERION:	DELIVERY
<p>Should a Tenderer not have their own bituminous material making facilities the Tenderer must submit a completed Certified Supplier Agreement, see <b>Appendix 5</b>, to confirm that the Tenderer has a contract in place with a certified company/supplier for the supply of the bituminous materials required for the Works.</p> <p>Should a Tenderer have their own bituminous bound material making facilities the Tenderer must submit a completed Certified Supplier Agreement, see <b>Appendix 5</b>, confirming same.</p>	
TENDERER RESPONSE	
<p>The Tenderer must submit a completed Certified Supplier Agreement, see <b>Appendix 5</b>.</p>	

5%

## Plant & Equipment

sRFT – Roadworks Programme Phase 2 (Surface Dressing) 2023

### APPENDIX 2D – SUPPLEMENTARY REQUEST FOR TENDER – CONTRACT AWARD CRITERIA (QUALITY)

#### Sub-Criterion E

SUPPLEMENTARY REQUEST FOR TENDER – CONTRACT AWARD CRITERIA (QUALITY)	
PERCENTAGE WEIGHTING:	5%
MAXIMUM MARKS AVAILABLE:	50
MINIMUM PASS %:	40%
TITLE OF QUALITY SUB -CRITERION:	PLANT & EQUIPMENT - SURFACE DRESSING MACHINE
<p>When Surface Dressing, for chipping applications, the tenderer must provide a calibration certificate to confirm compliance with the categories specified for each chipping size and source.</p> <p>Chipping spreaders shall have controlled metering and be capable of variable or fixed width application to match the binder sprayer.</p> <p>For application of the Binder, the tenderer must use a spray-bar output monitoring unit or equivalent must be fitted to the tanker/sprayer providing full real time information on the spraying operation; the system must be capable of providing at a minimum a printed record of each road or section thereof. "See Appendix 7/3 Surface Dressing, Vol A Works Requirement Phase 2 2023"</p>	
TENDERER RESPONSE	
<p>The Tenderer must submit a completed Certified Equipment Sheet, see <b>Appendix 6A</b></p>	

# Specialised Contractors



State of the art plant ensures a higher quality and longevity of the pavement

## Environmental

sRFT – Roadworks Programme Phase 2 (Surface Dressing) 2023

### APPENDIX 2E – SUPPLEMENTARY REQUEST FOR TENDER – CONTRACT AWARD CRITERIA (ENVIRONMENTAL QUALITY)

#### Sub-Criterion F

SUPPLEMENTARY REQUEST FOR TENDER – CONTRACT AWARD CRITERIA (QUALITY)	
PERCENTAGE WEIGHTING:	5%
MAXIMUM MARKS AVAILABLE:	50
MINIMUM PASS %:	40%
TITLE OF QUALITY SUB -CRITERION:	ENVIRONMENTAL IMPACT & ENERGY MANAGEMENT
Outline methods that will be employed to reduce carbon emissions in this contract. Detail any environmental management measures and energy management systems that will be employed on this contract including any environmental and energy accreditations your company has.	
TENDERER RESPONSE	
Tenderers to provide a written statement of no more than one A4 single sided page typed with a minimum size 10 point font and single line spacing. In the event that more than one page of written statement is submitted (excluding cover page and attached references) only the first page of the statement will be read and scored accordingly. The remaining pages will be disregarded.	

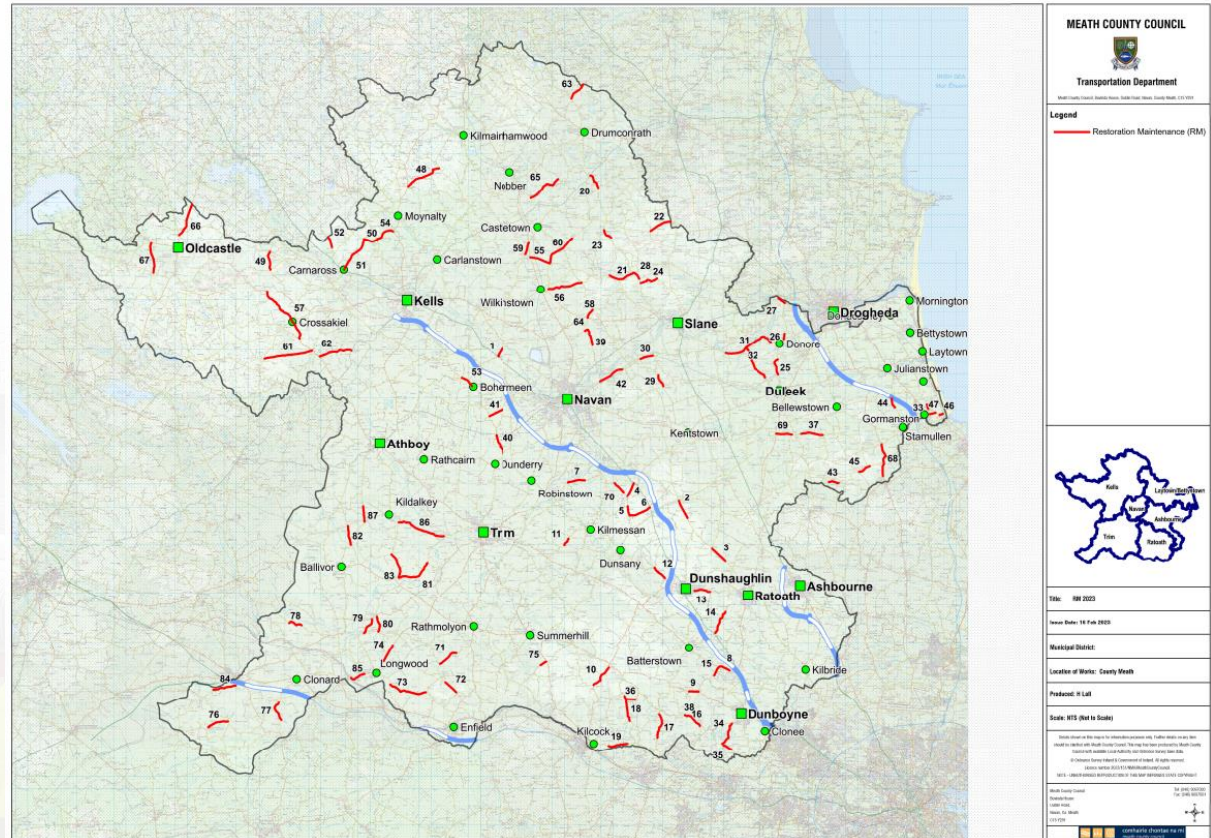
## Who Owns the Risk on site

- Specialist TMP Contractors
- Interaction with the public
  - Increased aggression
  - Consistent approach across the county
- Contractors can resource
- Clear division of duty
- Records Records Records
- Repeatability
- Responsibility on LA Engineers?
- Safety Inspections
- Only the Highest Standards Acceptable
- Climate Change
  - Days lost to extreme weather events
- Administration efficiency

## Unforeseen Benefits

- MD Engineers additional time to manage staff
- Strong relationship with Councillors
- Increased funding
- Additional funding
- Pavement Schemes for other departments
- Staff movement
- Delivering the consistency across the county
- COVID & Ukrainian War
- Price Inflation
- New documentation (Series 900)
- Networking
- IAT technical talk
- IAT seminar
- Educational forum
- Consistency

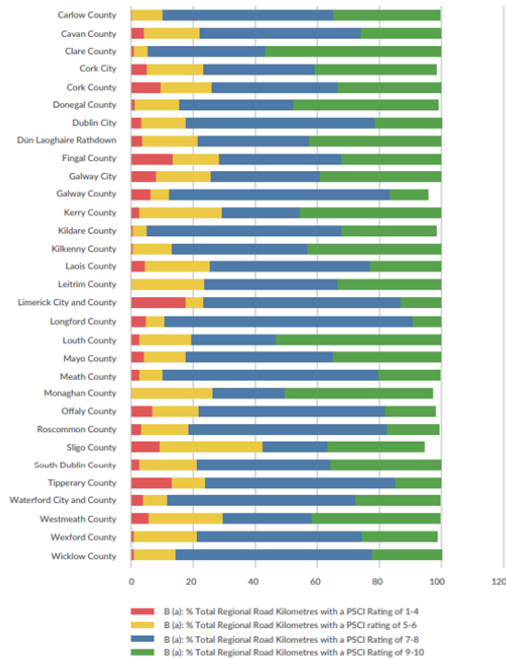
## Surface Dressing Map



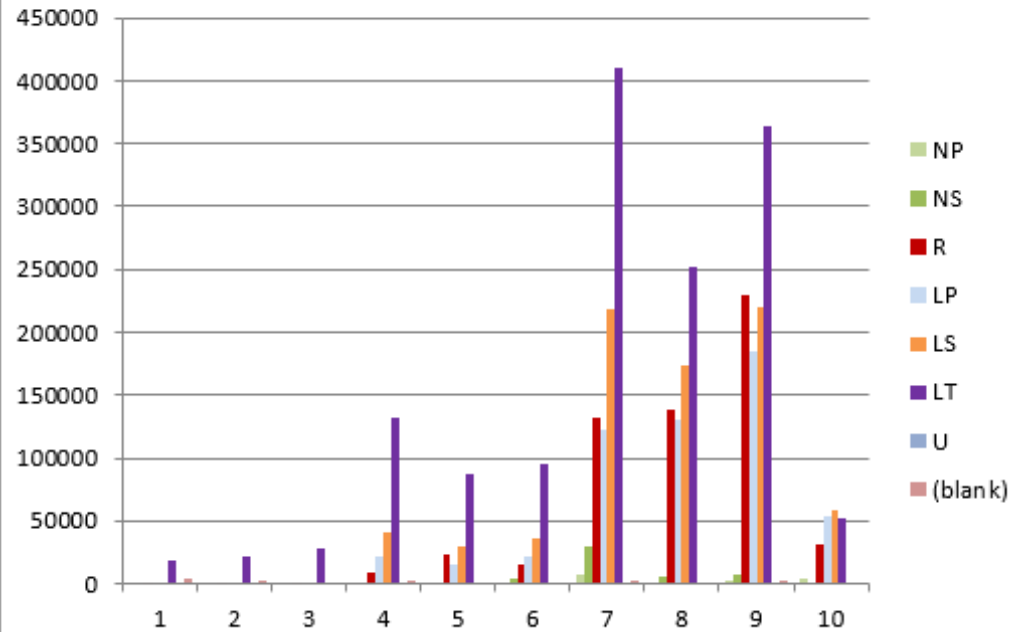
## Meath Road Comparison

Figure R1a: Regional Road Pavement Surface Condition Index (PSCI) survey level

Pavement Surface Condition Index (PSCI) 2020



## Sum of Length by Rating and Road Class



## Future Challenges

- R147 Dowdstown – collaboration with DoT and TII to trial a RAP40 mix (Recycled Asphalt Pavement 40%)
- Warm Mix
- 62349 tons of asphalt used in 2023
- 341,815m<sup>2</sup> paved
- Produced 2665 tons of Co<sub>2</sub>
- 2024 Warm Mix formed 50% of Phase 1 Tender
- Recycling Contract
  - Stabilisation
- TII are also developing Environmental Product Declarations (EPDs) for bitumen and aggregates – a first step to life cycle assessments.
- Industry open to becoming more sustainable and recognize Green Procurement will feature strongly in tendering process.
- Climate Change
  - 21 days lost in RM in 2023



# Recycling Comparison over a 2 year Period

FWD Survey Report

Section 18: L6836-0 Volvenstown

