PROJECT PROFILE



Title	The Lifespan of Steel Safety Barriers	
Contractor	RPS/Lagan/TU Dublin/Galvanizers Association	
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Start date	Jun-22	
End date	Mar-24	
Status	Complete	
Type of project	TII Research Project	
Project reference	MGT0613RP0002	

Description	The research analysed the galvanisation coating on steel safety barriers of different ages installed on the national road network. This galvanisation is directly related to how fast corrosion of the steel can take hold and therefore the lifespan of the barriers. By determining the integrity of the zinc coating, or it's rate of deterioration, it is possible to estimate how long the barriers will last.
Objectives	The main objective of the project is to determine the rate of zinc corrosion on steel safety barriers on the national road network. Through this study, it is possible to determine the residual functional capacity of the barriers at any stage and therefore inform TII when they need to be replaced. The project also sought to understand how different conditions affect the corrosion rates. On site and laboratory testing in suitably equipped laboratories was used.
Benefits	The benefits of this research are that it gives TII network management scientific information related to the lifespan of these vrs assets from which strategic proactive maintenance and replacement programs are derived. International good practice in Road Asset management requires detailed knowledge of the operating condition of road assets and when they come to the end of their life.
Outputs	Factual Report with Recommendations