

# Modelling Bridge Deterioration

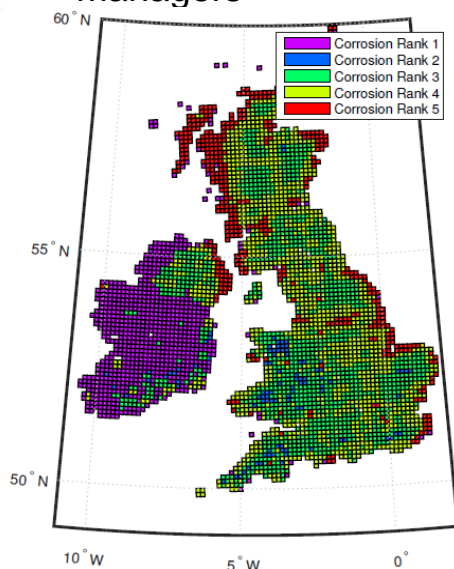


## Background

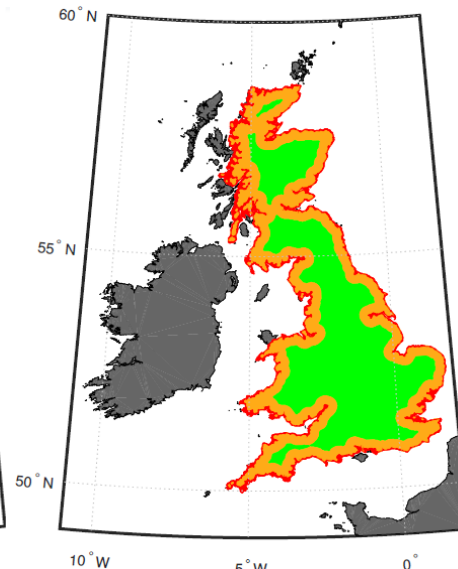
Degradation of bridges varies in different parts of the country. This may be to do with a number of local factors that affect bridge deterioration e.g. number of frost days, coastal proximity or quantity of rainfall.

## Objective

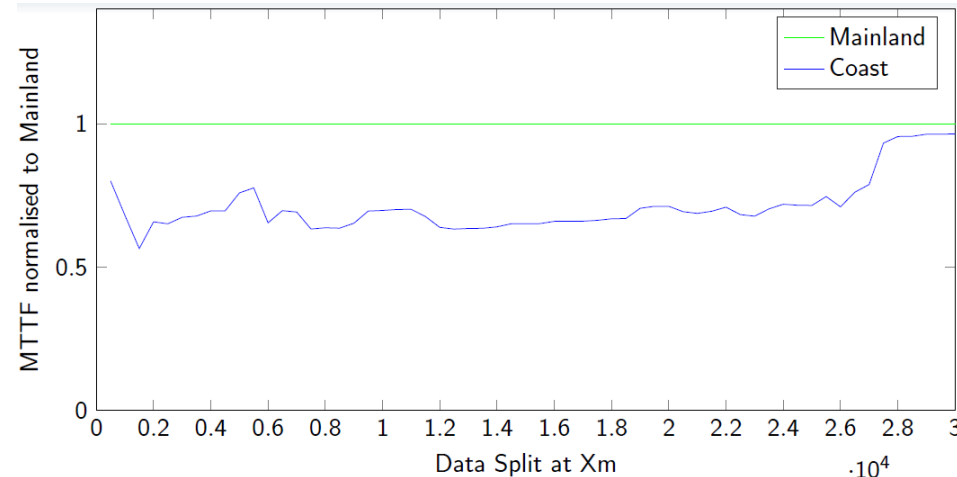
- (i) To understand which are the key local factors which affect bridge deterioration
- (ii) To quantify their effects and work out which ones are most significant to bridge asset managers



Galvanic Response Regions



Coastal Proximity



## Results

Key factors: Structure Type, Coastal Proximity and the galvanic response corrosion level.

Structure Type	Coastal Proximity	Corrosion Rank	Cumulative Cost (£)
All	All	All	79,000
Overline	All	All	36,000
Underline	All	All	71,000
All	<5km	All	151,000
All	5-25km	All	137,000
All	>25	All	28,000
All	All	3	18,000
All	All	4	40,000
All	All	5	275,000