

# Maintenance-Free Operation Corridors



## Background

The railway network maintenance consume much time and money, so they should be organised properly, even more keeping in mind all the assets involved in the system. Sometimes inspection tasks report no needed actions, so they become waste of money. In the aircraft industry Maintenance-Free Operation Periods are used with promising results, providing a better way to organise maintenance tasks.



## Objective

Use a Petri Net to simulate degradation and maintenance tasks in the railway system, being able to model different assets in order to provide a reliable asset management policy. These assets' degradation is dependent on the track geometry. This model will be governed by an MFOP approach, which should provide more control of maintenance timings, saving time and money.

