Railway Drainage Asset Management



UNITED KINGDOM · CHINA · MALAYSIA

Background

- Railway drainage plays a significant role in the safety and maintenance costs of the overall railway infrastructure; however, it has been given insufficient attention for decades.
- Undrained water remaining within the track is the root cause of some of the most severe railway track problems including accelerated track geometry degradation, ballast fouling, and wet-beds.

Objective

- (i) To predict the degradation and the maintenance requirements of the drainage asset.
- (ii) To develop a prognostics-based drainage asset management model

Physical modelling







