ZERO UNPLANNED SHUTDOWNS APPROACH TO THE RAIL INDUSTRY

Unreliability directly impacts the bottom-line of rail operations – unplanned repair, fines, operational expenditure and passenger satisfaction are impacted by companies’ inability to manage unplanned failures. TIRIS is Thales’ Big Data Analytics tool for Predictive Maintenance, supporting the rail industry to achieve a zero unplanned shutdown approach.

WHAT ARE THE ANTICIPATED BENEFITS?

➢ High-return on investment
➢ 30% reduction in maintenance costs
➢ 40% reduction in downtime
➢ 50% reduction in site visits
➢ ZERO unplanned maintenance target
TIRIS is designed to take vast amounts of data and plot it in a user-friendly manner, ensuring a clear view of the asset status and history at a given point in time. This improves the decision-making process by offering evidence on what are the different conditions of assets and, consequently, the maintenance priority.

WHAT IS TIRIS?
TIRIS is designed to make efficient use of data that is already being collected. This gives companies the ability to rapidly respond to change in the system. However, additional insights can also be generated by adding data loggers, or through analysing historical information about specific assets. The digital product is deployed as-a-service and it includes powerful Machine Learning to optimise decision-making processes for maintenance and operations.

WHO USES IT?
TIRIS is designed in close collaboration with rail maintainers and operators to offer the best user-experience. Users also have access to Thales’ Service Centre where insights are created by the close interaction and collaboration of Thales subject matter experts, data scientists and software developers.

WHY TIRIS?
➢ Asset Health Monitor – Advanced calculation and rules engine for predicting equipment problems before they fail
➢ Proven Scalability – Cloud-based solution supports scalability for the largest rail operations
➢ Machine Learning algorithms – TIRIS includes state of the art machine learning algorithms, which are used to analyse asset condition data, determining patterns of failure and establishing methods of predicting them before costly failures occur, generating maintenance work requests in your Maintenance Management System.
➢ Interactive dashboards – drill-down to results for detailed analysis
➢ Integrated service offering with Thales’ domain experts, data scientists and software developers
➢ Make use of data that is not currently being utilised – no need to install new sensors

THALES DIGITAL SERVICES

TIRIS
Predictive Maintenance