OVERVIEW
Protection of lives and railway properties is one of the main concerns of railway industries. Therefore, investing in regulations, management and assessment of rails and vehicles is a priority.

The Following derailments could be avoided by using IOCs:

INSTRUMENTED ORE CAR
Instrumented Ore Cars (IOC) developed by IRT experts is an efficient condition monitoring tool which has helped various railways to ensure the safety of their railways and transportations, to avoid incidents and to have an economical track maintenance plan.

Derailment of train 4413, 14 May 2014
Cause of Failure: Lateral track irregularities just in advance of the point of derailment

Derailment of ore train 24 KW near Whyalla, 7 July 2014
Cause of Failure: Fishplate joints failed due to a combination of pre-existing fatigue cracks and inadequate fastening

Derailment of freight train 3MP9 near Malbooma, 10 April 2014
Cause of Failure: Severe weather affected the ballast and track