



RailSafety Summit

2017



Speaker name
Company

Name of Speaker

Rail Safety Summit 2017

Using technology to improve safety and reduce costs





Name of Speaker

You just saw: "a SMART" TCO

NetworkRail

Rail Safety Summit 2017

PA05/05043

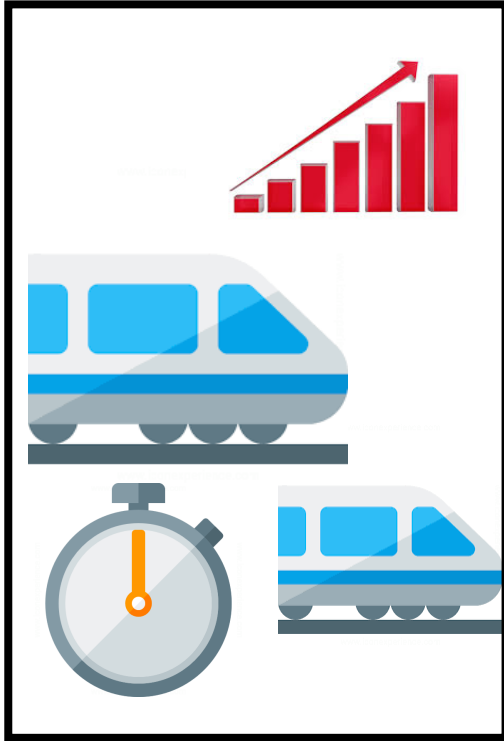


One safety responsible controls all safety equipment in real time, using a smartphone.

iiDualInventive
Ubiquitous Rail



When starting to use smart technology



The typical use case

Amsterdam Central Station - the facts



The challenge



- Limited time slots: 2-3 hours a night
- Complex track layout
- Train delays affect national time table
- No maintenance allowed during train service

Installed IoT technology to meet Amsterdam's challenge



"POSS"

"Railway Condition Monitoring"



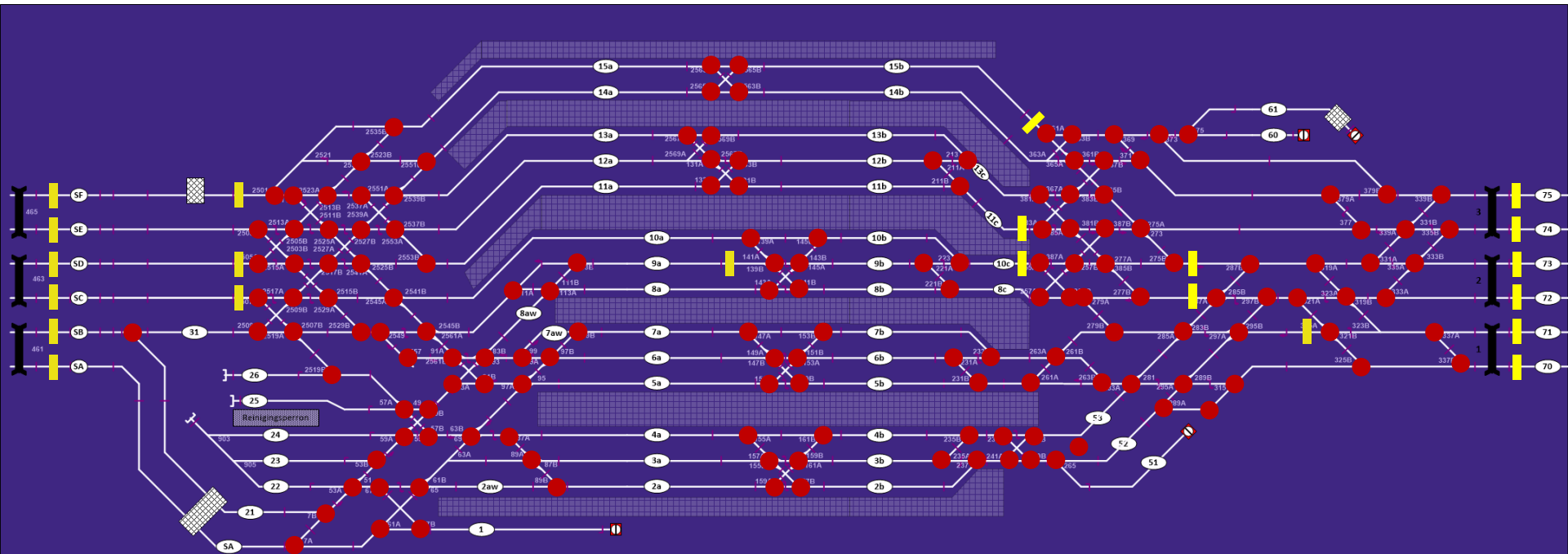
"ZKL 3000 RC"

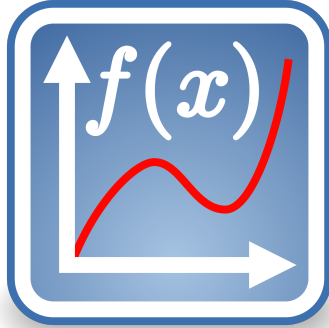
"SIL 4 remote shunting device"

The Rollout

22 ZKL3000 RC

205 rail switches, all equipped with POSS monitoring





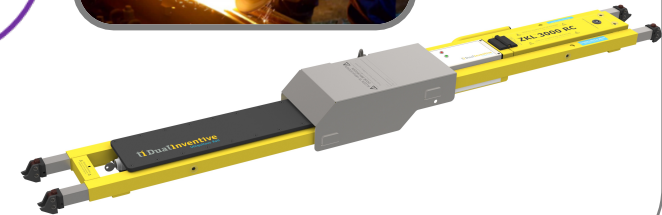
Improve algorithms



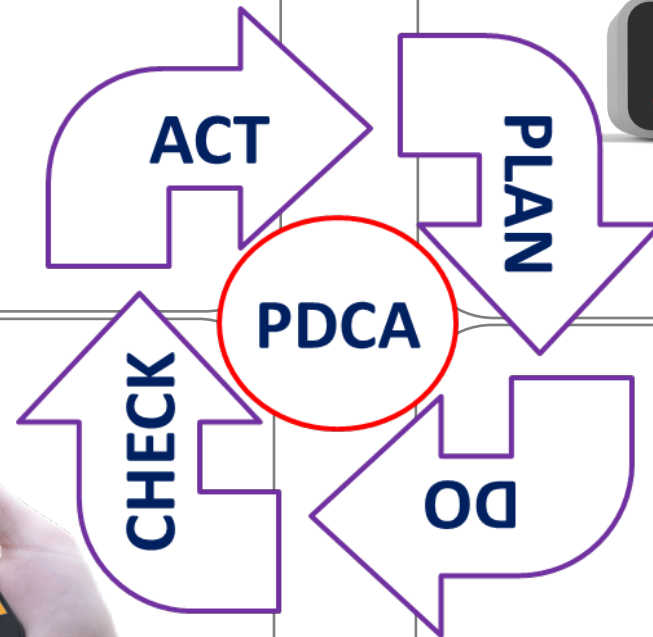
Continuous monitoring



Report repairs/maintenance



Safe & efficient access



Using technology to improve safety and reduce costs

What did we achieve by using IoT in 2 years?

- 0 worker fatalities
- 0 collisions
- 0% risk of safety mistakes
- 30% reduction of point failures
- **5720 less times in Operational track**
 - Gained 500 hours extra availability
 - **£ 30 mio savings**



Name of Speaker

Rail Safety Summit 2017

IoT; driver of Asset management 2.0

Instant safety information
via connected helmet



MTinfo 3000
ASSET MANAGEMENT

The Secure (NB)IoT-platform for Rail

