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Mission critical solutions

services

security

safety

> *FieldTrac 6393 CheckPoint* –
Solution for automatic train supervision

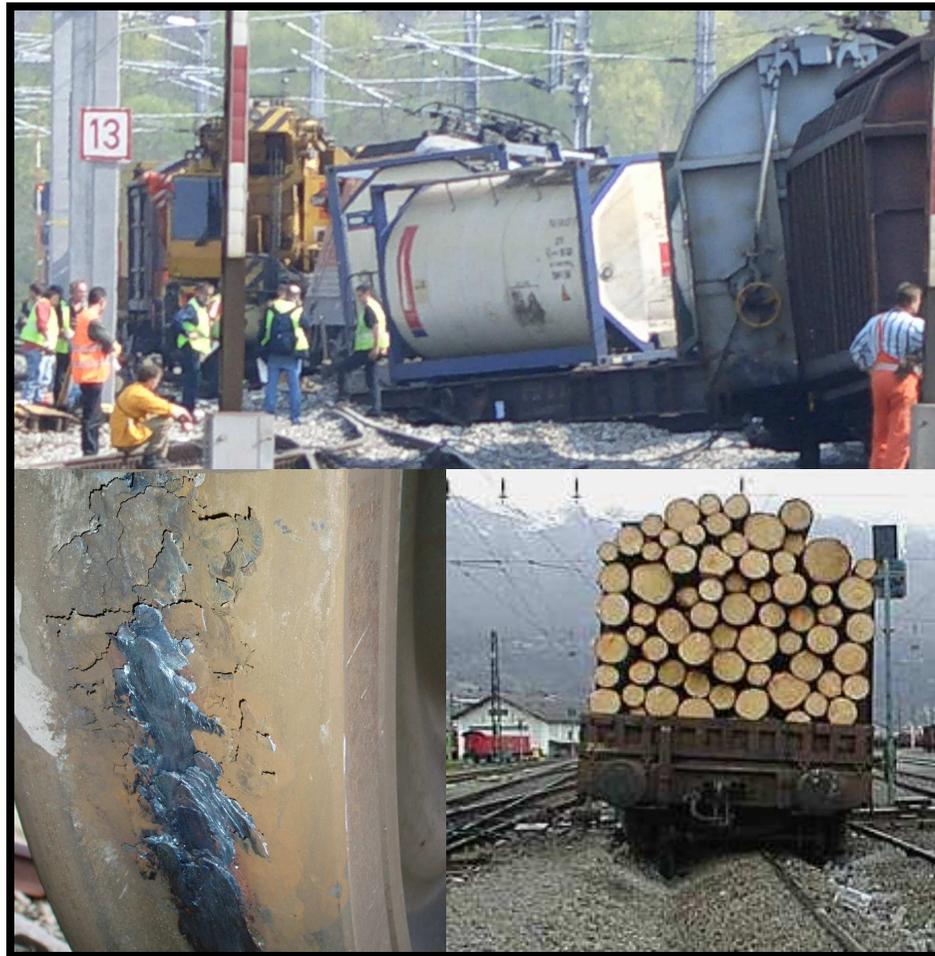**Rail Signalling Solutions**

Goals for rail operators

- Increased efficiency

- Reduction of the Life Cycle Costs of rolling stock and infrastructure

- Less labour-intensive

- Reduction in manual train supervision
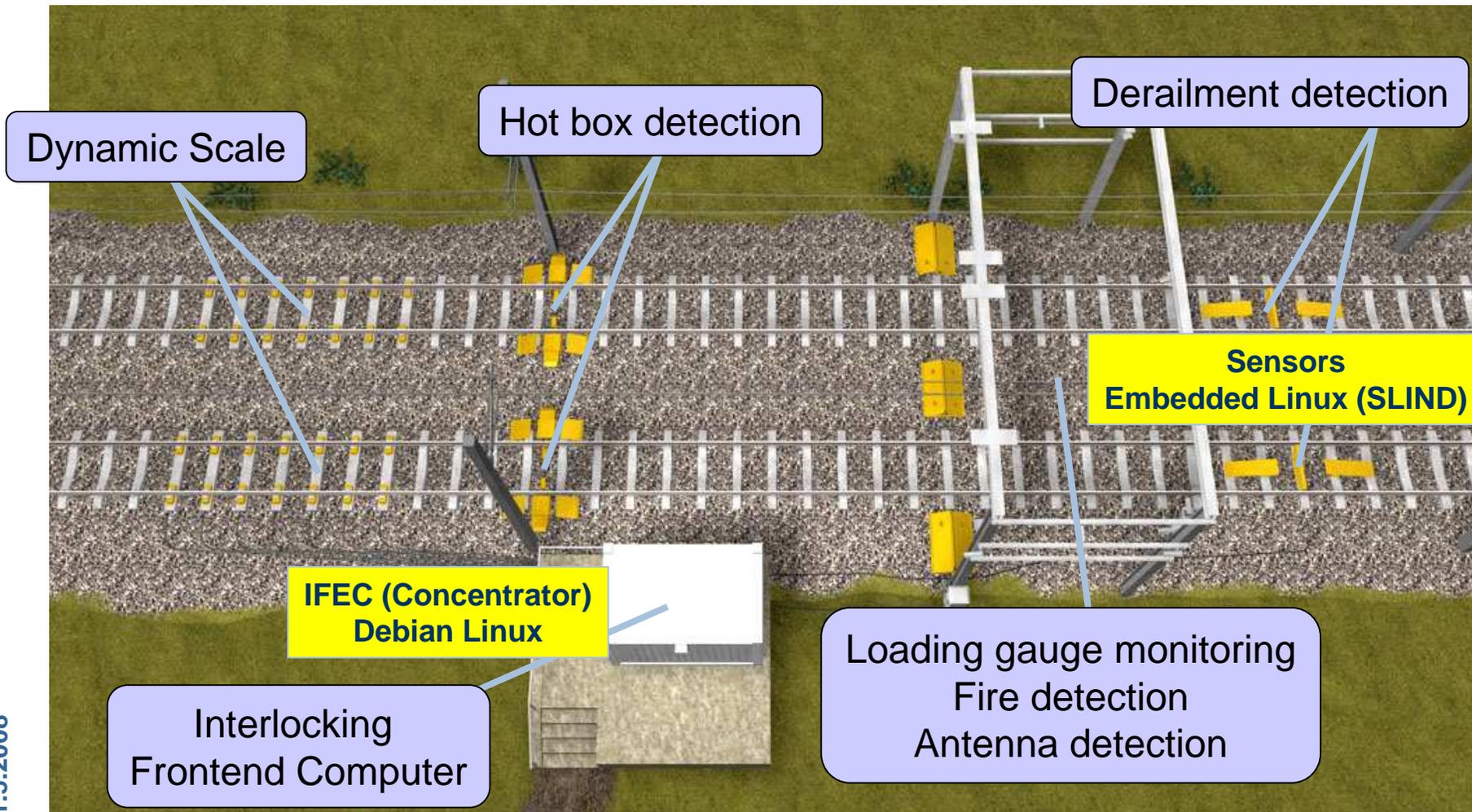
➔ **Technical solutions required**

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Technical solution (CheckPoint) leads to better and earlier detection of faulty conditions

- Derailed Vehicles
- Blocked brakes
- Hot boxes
- Flat wheels
- Broken axles
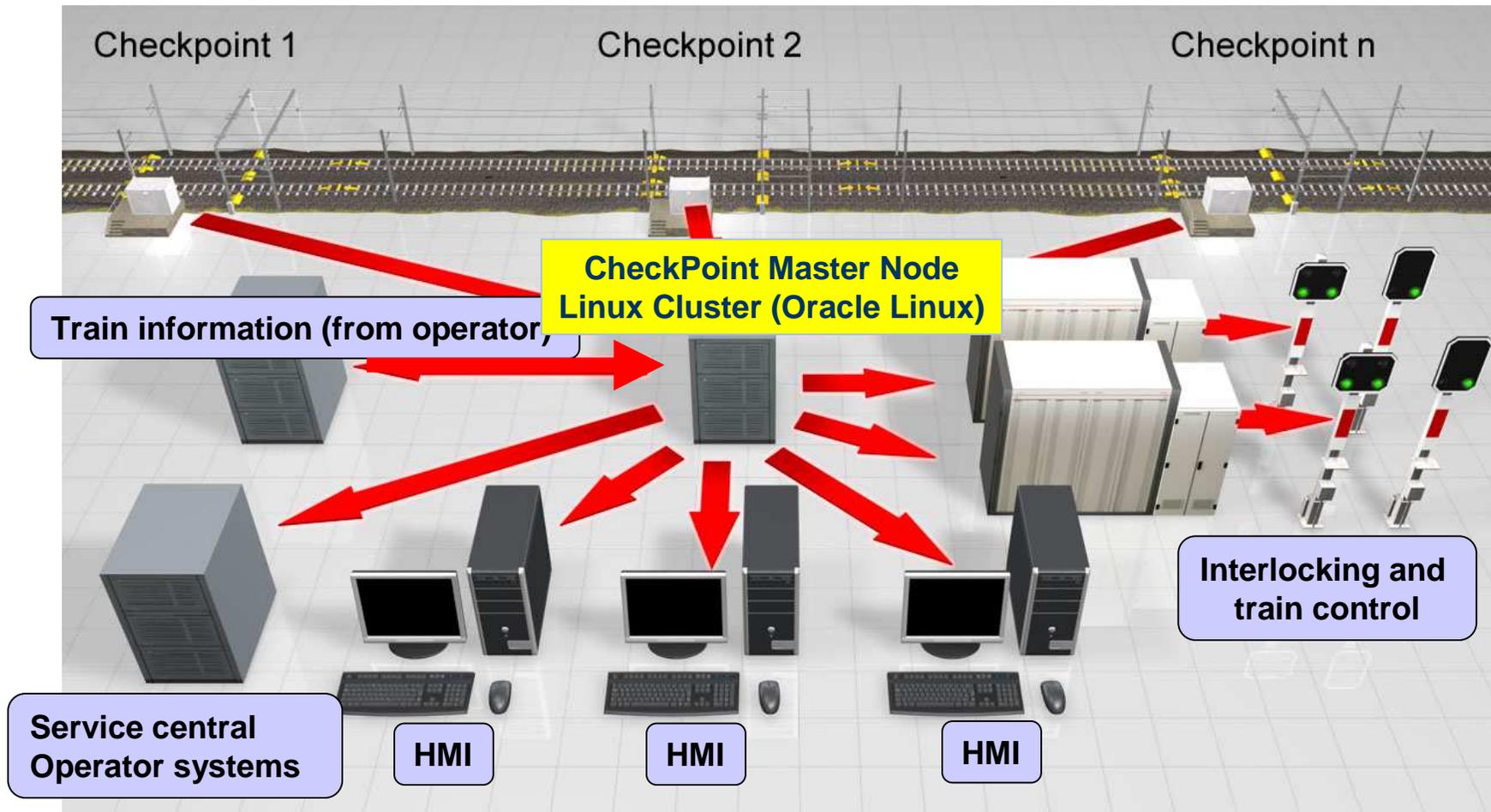- Broken bearing-springs
- Displaced cargo
- Fire

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A typical Checkpoint location

Dynamic Scale

Hot box detection

Derailment detection

Sensors
Embedded Linux (SLIND)

IFEC (Concentrator)
Debian Linux

Interlocking
Frontend Computer

Loading gauge monitoring
Fire detection
Antenna detection

Checkpoint network solution with the Checkpoint Master Node

Quality of Service

- Increase in network's availability
    - Early identification and/or elimination of damaged rolling-stock
    - Less accidents
    - Less construction work
    - Reduction of Life Cycle Costs of rolling stock and infrastructure
- Fair and transparent pricing
    - Basis for calculating track access charge
    - Introduce polluter-pays-principle
- Necessary for centralized network operation
    - Reduction in manual train supervision
- Less labour-intensive
- Information for various other users

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Thank you for your attenion!
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