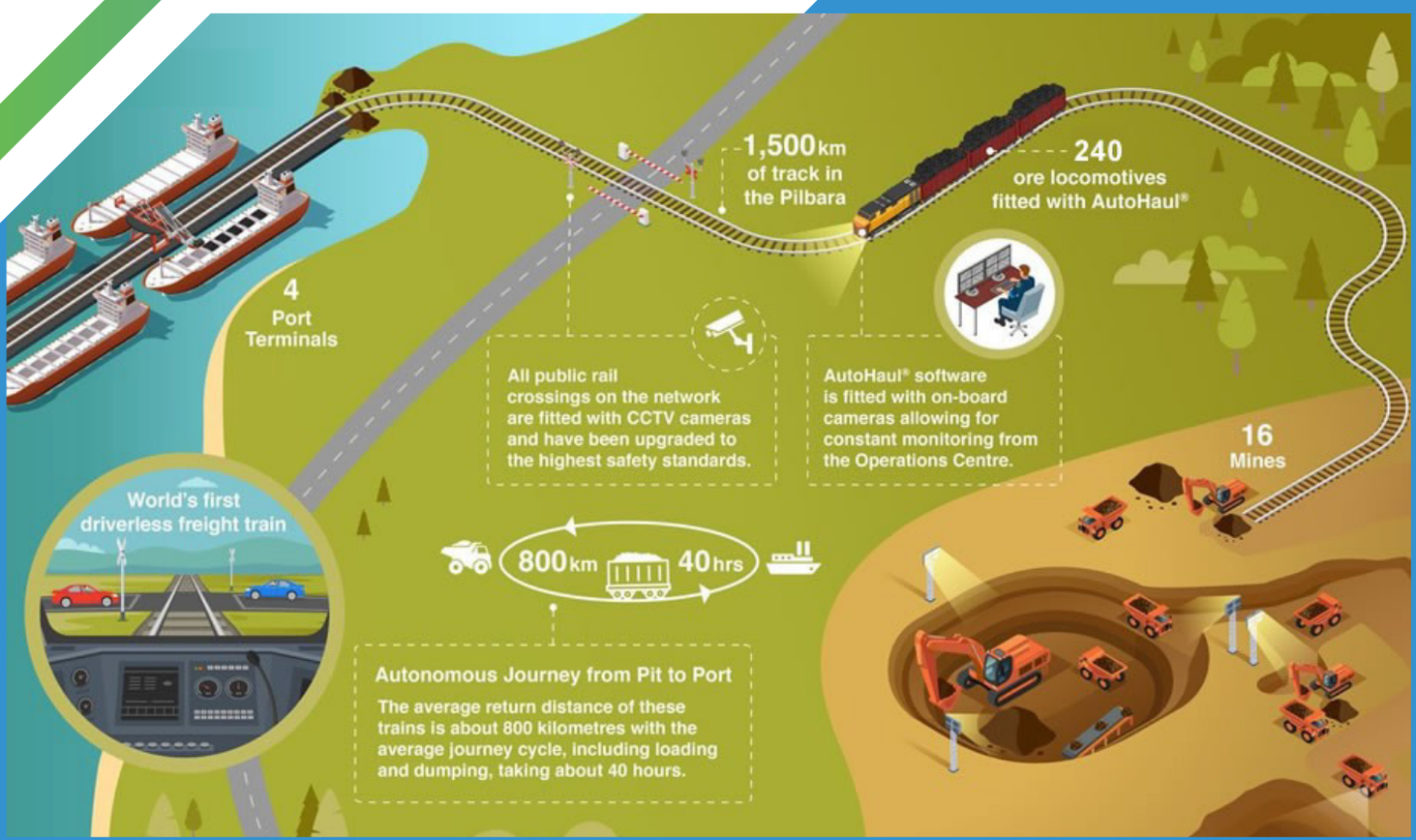
Freight Railway Solution

What's the solution?

Technology for the autonomous operation of iron ore trains.

- Dynamic business-drive train / fleet scheduling
- Profit-oriented traffic management.
- Throughput-efficient operations management

How it works?

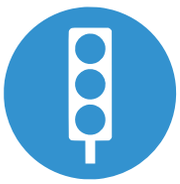


What problems to be solved?

Dangerous for drivers traveling long distances rail, deserts	Low productivity (just a little trips)	High cost

Progression Towards Autonomous

Passive



Trains are driven manually using the signalling systems as well as the communications network.

Driver Assist

Trains are driven manually using prompts from a Driver Assist system, using the signalling systems and communications network.

ATO Attended

Trains are operated by the autonomous system with a supervising driver on board who will intervene if necessary.

Autonomous

There is no driver on board the train and the system controls the train completely.

Who can apply?

Ore mining company

Benefits

Enhance communications availability and optimize costs by selection of the most reliable, efficient and cost effective IP capable wireless network

Enables users to implement staged cost-effective solutions that can be enhanced and expanded over time

Allows Optional simple migration to a fully automated system if required

Technologies

Java Core, JBoss, EAP, EJB, Hibernate, Corosync/Pacemaker

SNMP, GPS, 3G, Wireless 802.11 and Satellite

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