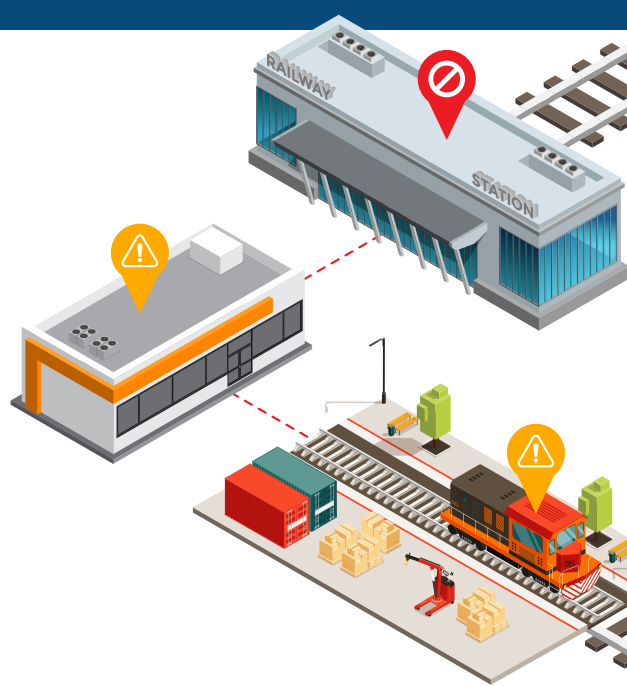
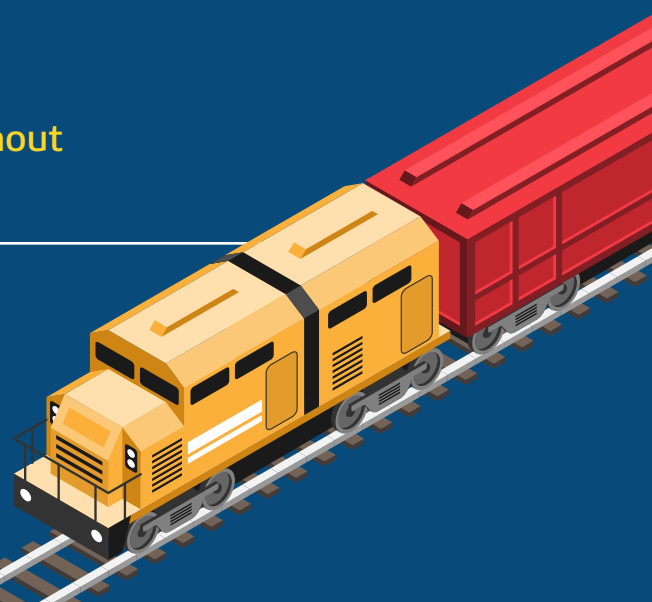


# 4 KEY CAPABILITIES FOR RESILIENT RAIL FREIGHT SERVICES

The art of resolving last-minute disruptions without compromising business goals

Last-minute service disruptions in rail freight logistics can strike at any moment, forcing unprepared rail freight operators to bear costly consequences. To gain a competitive advantage in the industry, freight operating companies must master the art of resolving disruptions in the shortest time and at the lowest cost. There are four key capabilities to help them achieve this without compromising business goals.

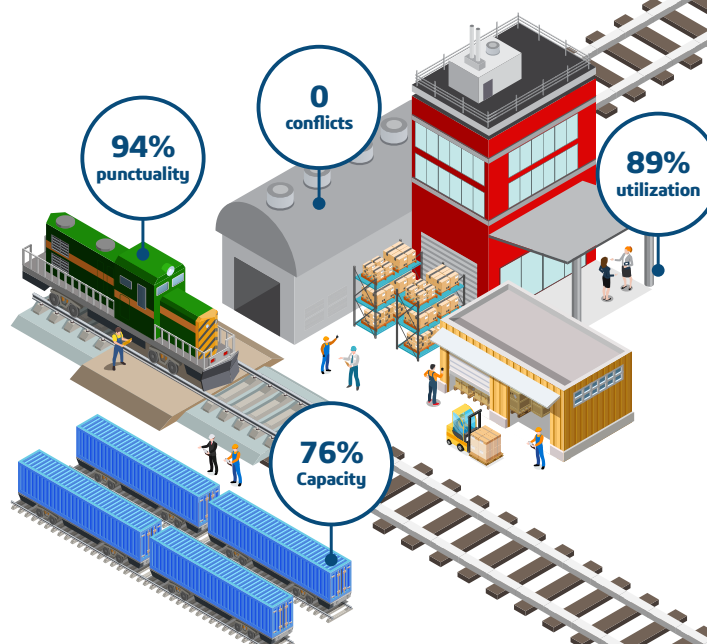


## Improved Visibility

Disruptions can trigger a chain reaction, disrupting other trains further down the line. By having a system that can flag potential issues and all consequences of disruptive events in real time, operators can do a lot to mitigate problems quickly and even resolve disruptions pre-emptively.

## Scenario Comparison

Knowing the outcomes of different courses of actions helps planners choose the best plan to maximize resource utilization while minimizing the impact of disruptions. This is made possible by relying on a solution that simulates and compares all possible scenarios in real time and suggests the best ones.



## KPI-Based Planning

Disruption management in rail freight logistics is complex and most planners don't have the time to consider if their plans align with company business goals. Planners need a solution that supports decision-making by suggesting actions that do not compromise business goals, allowing operators to make KPI-aligned plans from the start.

## Integrated Planning

With so many interdependent moving parts across the breadth of a rail freight logistics company's operations—from crew to locomotives, wagons and train paths—it is difficult for planners to assess the overall impact of every change they make. Integrated planning eliminates impossible combinations and allows planners to finalize cost-effective plans swiftly.



## Increasing Demand for Rail as Sustainable Transportation

As the most sustainable method of land-based freight, rail freight companies are at the forefront of the transition to more sustainable supply chains. Compared to road transportation, rail offers the potential for:



**80%**  
reduced CO2 emissions



**50%**  
cost savings

These benefits make rail freight a highly attractive prospect to a rising number of companies seeking to shift to modes of transport with the lowest carbon footprint to meet their own sustainability KPIs. To cater to this increased demand while remaining competitive, rail freight companies have a need to evolve the efficiency of their services.

## Gain a Competitive Advantage with DELMIA

DELMIA Operations Optimization equips planners with the capability to respond to and manage last-minute disruptions in the fastest and most cost-efficient way. By having insights into the outcomes of different courses of action, planners can make informed decisions in choosing the best plans in alignment with company KPIs.

To learn more about dealing with last-minute disruptions in rail freight logistics while achieving your business goals, contact us or visit [3ds.com/DELMIA](https://3ds.com/DELMIA)

