TCS Logistics Optimiser

The COVID-19 crisis has thrown a spotlight on the fragility of the increasingly complex, interlinked modern day supply chain.

This vulnerability, however, highlights the need to transform global supply chain models given the complex logistics networks, mounting disruption costs, sourcing needs and lack of end to end visibility & predictability.

The transformation should focus on these dimensions :
   a) Real-time visibility
   b) Optimization
   c) Creating a collaborative ecosystem across the value chain
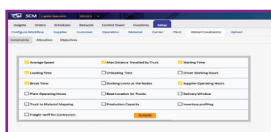
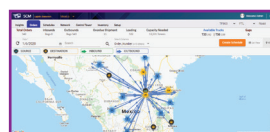## Responsive Logistics and Dynamic Supply Chain for uncertain times

TCS Logistics Optimiser, is a unique AI & ML based IoT solution built to synchronize the operations in the Supply Chain management process and enhances visibility across the value-chain. It is a proven solution that helps reduce logistics costs and drives efficiency across the network through resource optimization & increased On-Time delivery.
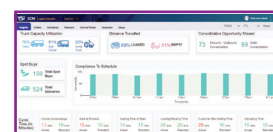
- Schedule optimization & end to end visibility
- Real-time decision support
- Dynamic capacity optimization

TCS Logistics Optimiser

- AI/ML based forecasting & planning
- IoT based decision enablers
- Delay prediction & resiliency

Adaptable Network Models

Dynamic Configuration

Real-time Event Response

Automated, Intelligent & Insights Driven

Synchronised Carrier Availability

TCS Logistics Optimiser

Key Features

TCS Logistics Optimiser helps you to plan and prioritize order fulfillment by demand-based segmentation clusters

The solution **dynamically** recommends alternate fulfillment orders based on real-time order updates or cancellation

The solution creates a contextual layer by combining the **enterprise and exogenous data** facilitating various decision models

It synchronises the operations of plant, yard, loaders, carriers, suppliers and customers with **increased visibility and efficiency**

The solution takes dynamic constraints into consideration for synchronised scheduling till the **last mile delivery**

Success Story

One of our customers, a global leader in building material manufacturing wanted to reduce operations costs and optimize resources by digitally transforming their business through **data and operations synchronization** across the value-chain.

TCS leveraged its **AI & ML** based Logistics Optimizer solution and successfully helped our customer create a first of its kind - **TCS Autonomous Logistics Platform**. The solution leverages **telematics data, ERP data, geographic & real-time data** to generate AI driven forecasting for Order fulfillment needs. It enables dynamic scheduling of fleet and synchronizes the operations of plant, yard, loaders, carriers, suppliers & customers thereby **increasing end user visibility**. It sits on SCM Ontology based highly efficient algorithms to realize optimization targets and real-time events across the value chain.

Business benefits delivered in this transformation :

20% Reduction in Resources Spent

11% Improvement of On-Time Delivery

23% Increase in Asset Utilization

12% Reduction in Logistics Cost