



# Cargo Monitoring Solution

Travel & Hospitality



Perishable items such as food and healthcare products often undergo drastic temperature variations, ranging from -5 to +50°C, during transit from the farm or manufacturing unit to consumers. Globally, the healthcare and food industries report losses of billions of dollars annually due to inefficient temperature management and unhygienic transport conditions. Therefore, organizations require strong analytics to enable accurate monitoring of perishable goods.

Tata Consultancy Services' (TCS') Cargo Monitoring Solution enables organization to track the condition of perishable cargo according to certain parameters, and provides alerts to facilitate preventive actions. Our solution can reduce wastage through the supply chain by up to 20%, ensuring that consistently high quality products reach the shelves, thus improving profitability.

## Overview

Organizations transport perishable foods and pharmaceuticals through a cold chain, which is a climate-controlled environment. Often a breakdown in the cold chain can lead to partial or complete damages to products, apart from losses in transportation costs. Defective products reaching consumers can impact customer experience and brand reputation considerably.

TCS Cargo Monitoring Solution offers companies comprehensive visibility into the supply chain, and facilitates optimization. Our continuous monitoring feature enables early detection of deterioration of products or consignments. By providing end-to-end digital product memory data during transportation, we ensure that companies meet compliance and regulatory requirements.

## Our Solution

Part of TCS' Digital Store™, Cargo Monitoring Solution is powered by Predix\*, to provide deep analytics and visualization capabilities. Our solution includes the following features:

- Monitor vital parameters such as temperature, humidity, and air quality for refrigerated cargo. Change vital tracking parameters for the refrigerated cargo through mobile devices in real-time
- Filter and aggregate data to monitor, analyze, and predict product shelf life. Estimate the time of arrival of goods
- View business intelligence dashboards to track cargo fleets
- Estimate probability of damage to products during transit

## Benefits

TCS' Cargo Monitoring Solution helps enterprises:



Ensure safe transit of cargo and prevent wastage of perishable goods stemming from temperature variations during transit



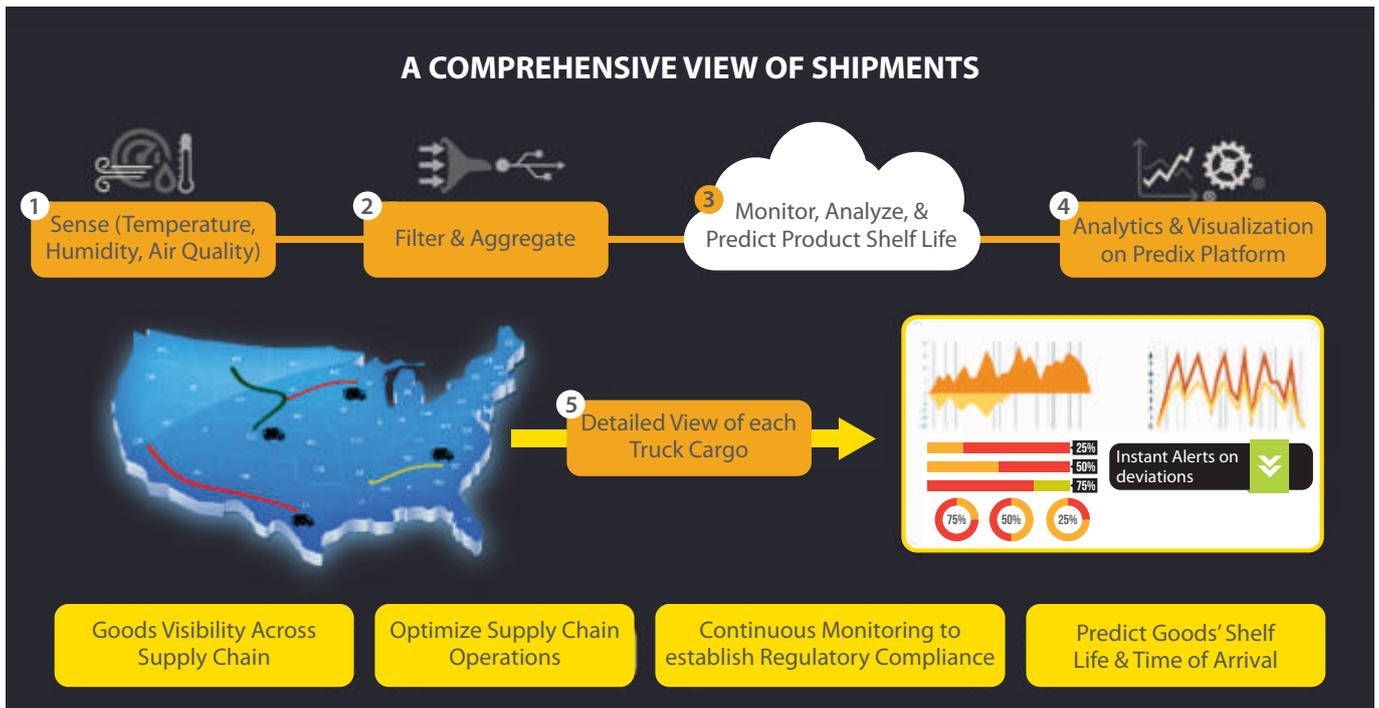
Easily keep track of multiple shipments, and predict the condition of transported goods



Ensure that products reaching consumers meet high quality standards

\*Predix is a trademark of General Electric Company

## Overview of Cargo Monitoring Solution



## The TCS Advantage

TCS offers several benefits through the following differentiators:

- **Proven track record:** TCS has a proven global track record in the area of supply chain management solutions. Our in-depth knowledge of supply chain and logistics and other industry-specific insights translate into solutions that meet critical business needs.
- **Strong expertise:** TCS' domain and subject matter experts have extensive knowledge of the manufacturing domain. Our ability to mobilize the right skills at the right scale offers a unique value proposition, and our Digital Reimagination™ philosophy makes us a preferred IT transformation partner.
- **Assets and frameworks:** TCS Digital Store™ is an expanding suite of ready-to-use digital solutions, which deliver superior customer experience, real time data analytics, and organizational agility across industry segments. Our other pre-built assets allow for rapid solution deployment.
- **Partnerships:** TCS has forged multiple industry and academic collaborations to enhance its expertise in Big Data, mobility, and cloud computing, in order to deliver the best to our clients.



Meet regulatory compliance and insurance requirements



Maximize savings by optimizing supply chain operations



Lower carbon emissions as a result of reduced wastage

## Awards & Recognition

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### About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is an IT services, consulting and business solutions organization that delivers real results to global business, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled infrastructure, engineering and assurance services. This is delivered through its unique Global Network Delivery Model™, recognized as the benchmark of excellence in software development. A part of the Tata Group, India's largest industrial conglomerate, TCS has a global footprint and is listed on the National Stock Exchange and Bombay Stock Exchange in India.

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