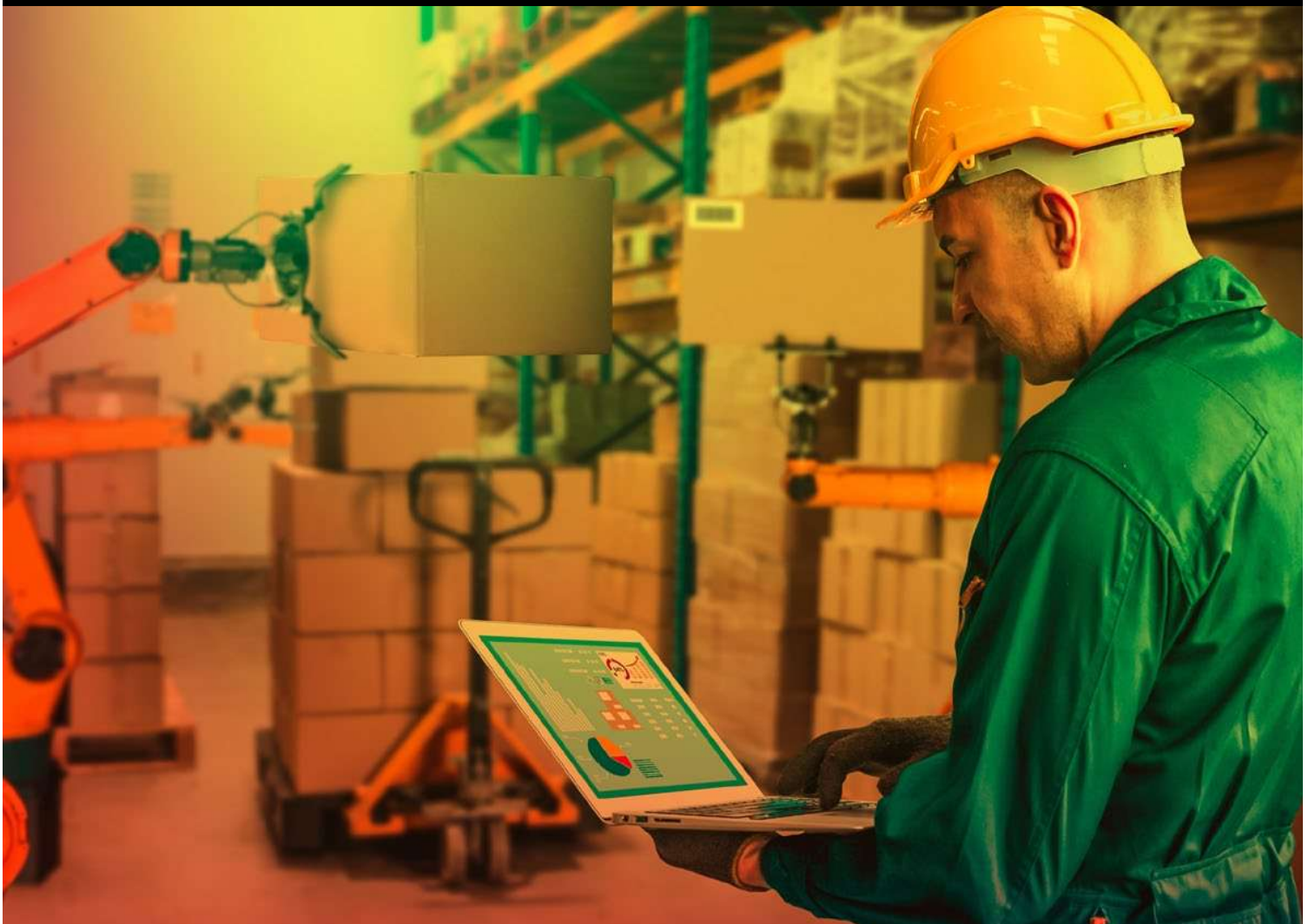# TCS MiNE –
Intelligent and Reconfigurable Supply Chain (iRSC)

Overview

TCS MiNE Intelligent and Reconfigurable Supply Chain (iRSC) comprises a suite of solutions that offer coverage on supply chain visibility, resilience, efficiency and sustainability. These solutions not only help manufacturing customers attain resiliency by reducing risk but also prepare them to quickly adjust and recover from any unanticipated supply chain disruptions. An intelligent supply chain senses any disruption in real-time and automatically optimizes the processes like sourcing, production and logistics schedules more efficiently and in a sustainable manner.

Our solution

- **Resiliency using Supplier Risk Insights Management:**

  Supplier Risk Insights Management solution aids supply chain planners with complete risk profile of the supplier base. This is critical to identify high-risk suppliers. The process involves predicting supplier risk scores based on Operational, Financial & Geographical risk factors. Underlying algorithms assess risk impact and recommend risk mitigation strategy to collaborate with partners for risk resolution.
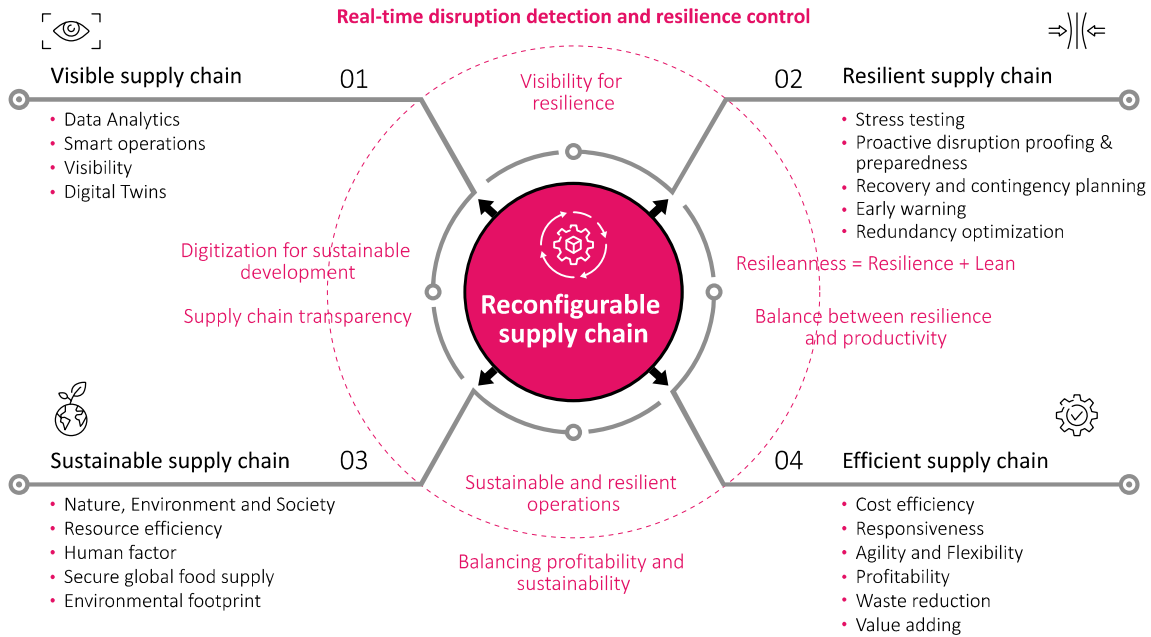
- **Efficiency through Supplier Optimization:**

  Purchasing redundant items due to ambiguous item names leads to complexities in supplier management. Accurately classifying the items minimizes the redundancies and simplifies supplier management process. iRSC features a part classifier solution powered with AI and ML auto-classification and guided classification algorithms that applies UNSPSC framework to classify the diverse set of parts into segment, family and class hierarchies. This classification paves way for efficient spend analysis leading to supplier optimization.

- **Visibility using Procurement Insights:**

  Suppliers vary in terms of cost, delivery, quality and other factors. Analyzed insights from historic sourcing data helps supply chain planners to draw comparisons on various suppliers' performances across various parameters. The insights lay foundation for decisions on scouting new suppliers, spend allocation to items and suppliers and overall procurement cost management.

- **Sustainability with Efficiency: Premium Freight Prediction**

  Schedule variances and other factors lead to rampant premium freighting of parts impacting the carbon footprint and cost. iRSC provides a futuristic view of premium freight trends and the possible reason codes for various items sourced from suppliers. This provides organizational levers to plug the source of premium freights and instill sustainability and more efficient operations.

Tata Consultancy Services

Visible supply chain   01

- Data Analytics
- Smart operations
- Visibility
- Digital Twins

Visibility for resilience

Digitization for sustainable development

Supply chain transparency

Reconfigurable supply chain

Resilient supply chain   02

- Stress testing
- Proactive disruption proofing & preparedness
- Recovery and contingency planning
- Early warning
- Redundancy optimization

Resileanness = Resilience + Lean

Balance between resilience and productivity

Sustainable supply chain   03

- Nature, Environment and Society
- Resource efficiency
- Human factor
- Secure global food supply
- Environmental footprint

Sustainable and resilient operations

Balancing profitability and sustainability

Efficient supply chain   04

- Cost efficiency
- Responsiveness
- Agility and Flexibility
- Profitability
- Waste reduction
- Value adding

Benefits

- **Proactive supplier risk insights:** Geographically disbursed suppliers and their risk profiles both operationally and structurally are rendered for spotting the high-risk suppliers and items.

- **Risk mitigation opportunities:** On spotting a risky supplier, user can play around with modes, alternate suppliers to understand the cost Vs Risk trade-off under different scenarios.

- **Sourcing optimization:** Spend analysis is a critical function to identify the material cost split among purchased items. Siloed purchases impede the possibilities of visualizing the spend proportions. Streamlining the purchases of direct and indirect materials through standard classifications acts as a precursor for potential savings through supplier optimization.

- **Performance benchmarking dashboards:** Analyzing suppliers in terms of cost, quality and delivery measures paves way to identify the scope for sourcing performance improvements.

- **Connected digital Enterprise:** This tool facilitates a connected digital enterprise by bringing in data from various disparate sources across the organization quickly and start delivering insights with relatively smaller investments.

The TCS advantage

Cross-industry experience: Apart from an extensive body of work in the manufacturing and utilities industries, TCS has vast experience in building and orchestrating products and services for customers across industries such as travel and transportation, retail and consumer products, insurance, and more.

Deep domain and technical expertise: Leveraging product and enterprise knowledge and technological expertise across the manufacturing value chain to create operating business models and technology applications that are benchmarked against industry standards.

Assets and frameworks: TCS' differentiated thought leadership on sustainability, accelerators like neural data fabric, the sustainability risk and maturity assessment model, the value chain decarbonization framework, experienced consultants backed by mature best practices, and data and analytics-centric platforms and solutions, enable faster deployments.

Global presence: A well-established global footprint helps TCS achieve smoother rollouts and deliver robust post implementation support.

Co-innovation: Accelerating enterprises' path to value through a network of start-ups, academic partners, and facilities like the TCS Neural Automotive and Industrial Experience Center, TCS Pace Port™, and TCS Rapid Labs.

Awards and accolades

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services is a purpose-led transformation partner to many of the world's largest businesses. For more than 50 years, it has been collaborating with clients and communities to build a greater future through innovation and collective knowledge. TCS offers an integrated portfolio of cognitive powered business, technology, and engineering services and solutions. The company's 500,000 consultants in 46 countries help empower individuals, enterprises, and societies to build on belief.

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