

Transforming the supply chain with IoT as the catalyst for smart operations

As global supply chains grow increasingly complex, businesses face urgent challenges that demand efficient solutions. IoT technology offers a transformative approach to address traditional bottlenecks and enhance operational efficiency.

In recent years, geopolitical conflicts, inflation, and climate change have created a costly and unpredictable landscape for companies.¹

Businesses are shifting from a fragmented supply chain to a fully connected network by integrating IoT.



70% of retailers are integrating IoT into their supply chains for greater efficiency²

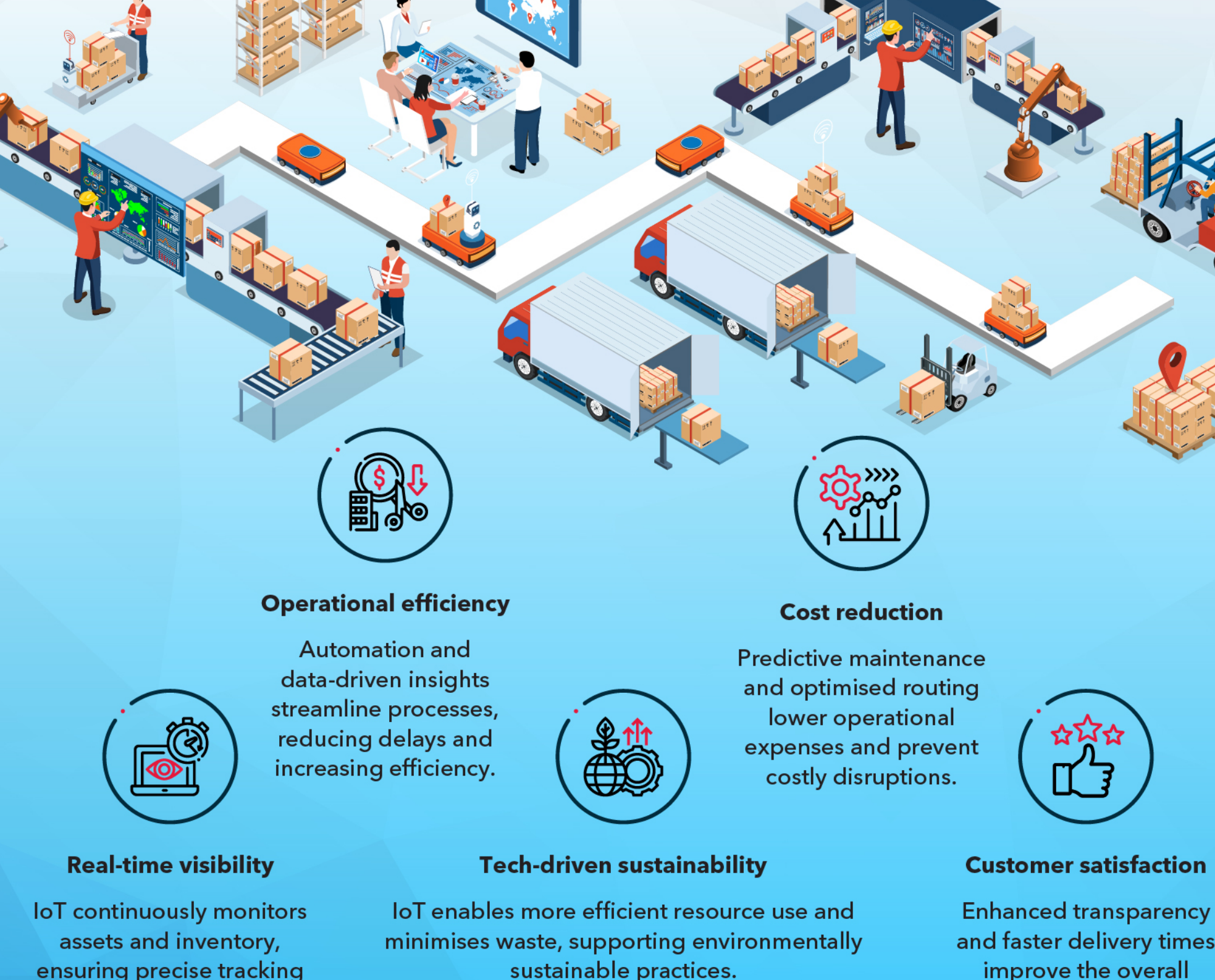


IoT-enabled supply chains see a **20% reduction** in disruptions³



Companies leveraging IoT in their supply chain experience a **10% boost** in customer satisfaction³

Business benefits of IoT in supply chain management



Improving global visibility and insights with IoT

IoT significantly enhances global visibility and insights by providing stakeholders with live updates on the status and location of goods and assets. Interconnected devices enable the collection and analysis of real-time data, offering a comprehensive view of the supply chain.

This capability allows for



Data-driven insights



Rerouting deliveries to avoid delays



Proactive maintenance

By optimising supply chain transparency across countries, IoT ensures that businesses can make informed decisions, improve operational efficiency, and enhance customer satisfaction.



Video telematics for fleet monitoring

In a multi-domestic setting, video telematics adapts to each country's regulations and norms. German systems might prioritise Autobahn safety, while Indian ones focus on urban traffic navigation. This approach ensures compliance with varied privacy laws like GDPR or CCPA. Tailoring to each market's challenges maximises fleet monitoring benefits while respecting local legal and cultural requirements.

Connected dashcams for real-time analysis

Multi-domestic deployment of connected dashcams customises technology for each country's traffic laws and customs. Algorithms are tuned to recognise local road signs, speed limits, and driving patterns. This enhances cross-border logistics and ensures locally relevant, actionable data, improving global efficiency and compliance.

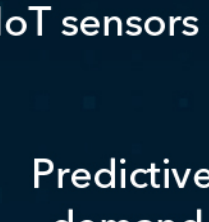
IoT-driven proactive maintenance and forecasting



Automate and localise maintenance



Predict market-specific demands



Optimise resource allocation across borders



IoT sensors across national markets enable localised, proactive maintenance, preventing breakdowns and reducing downtime while adhering to country-specific regulations.

Predictive analytics fuse historical and real-time data from multiple domestic markets, forecasting demand with regional precision. This approach optimises resource allocation, adapting to local consumer behaviours and market trends across different countries.

Seamless cross-border integration

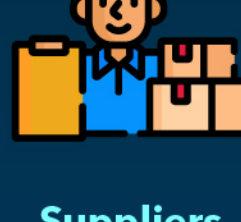
IoT enables seamless integration across global supply chains through real-time data sharing via connected logistics platforms.

This fosters collaboration among

Manufacturers



Suppliers

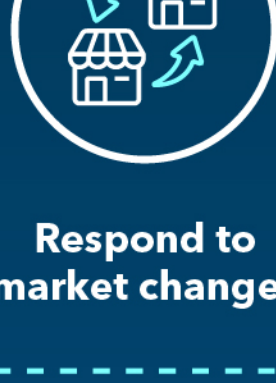


Retailers



Ensuring everyone has access to the latest information.

As a result, businesses can



Respond to market changes



Manage inventory effectively

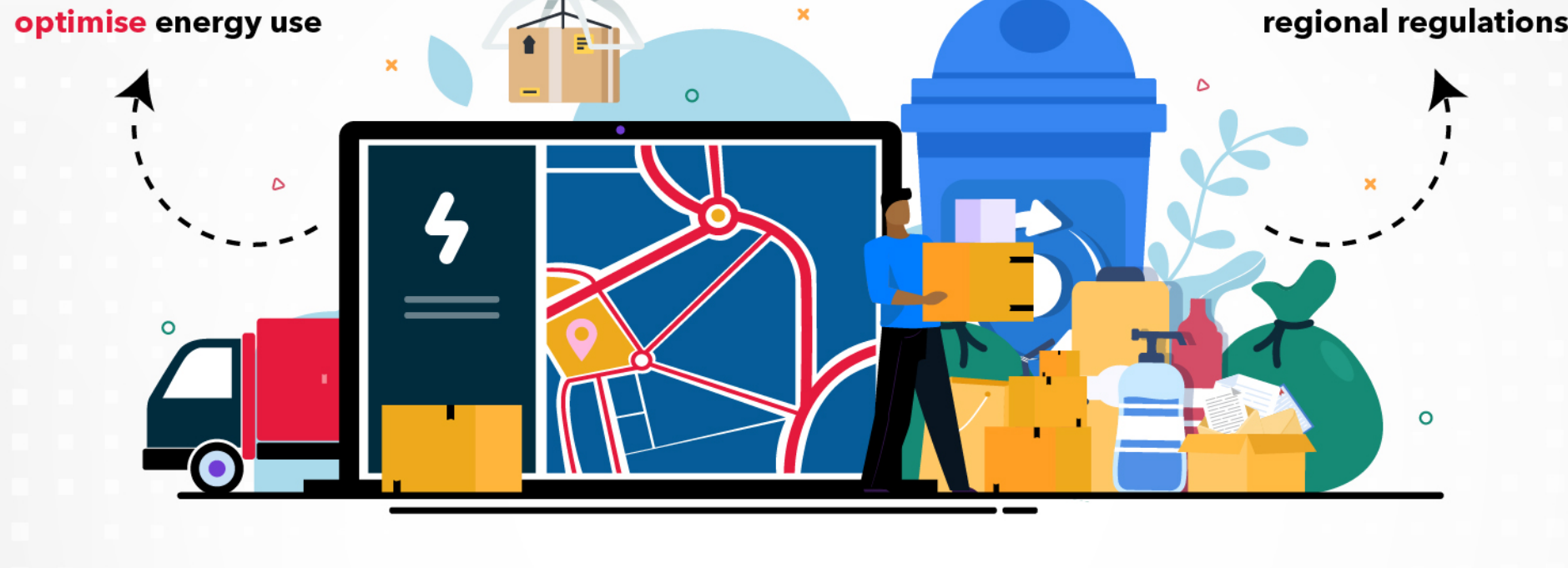


Streamline international logistics

Tech-driven sustainability

IoT drives cross-market sustainability by integrating energy-efficient devices and cutting carbon emissions. Smart logistics enable businesses to adapt quickly to global market shifts while prioritising country-specific eco-friendly practices.

IoT devices across markets



While IoT-enabled supply chains



Optimise cross-border routes



Monitor fuel consumption, adapting to local infrastructure



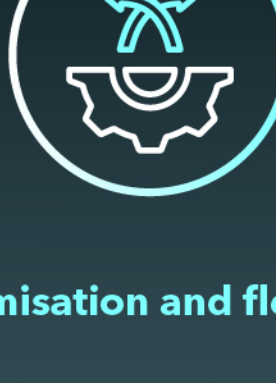
Boost operational efficiency, meeting country-specific standards

Your trusted partner to build a smarter supply chain



Collaborating with Singtel for your IoT-driven smart supply chain across borders **provides significant advantages through our Multi-Domestic Connectivity solution**. With a single lead operator, Singtel simplifies regional logistics, enabling rapid rollout and scaling of your IIoT strategy.

Our single master service agreement streamlines contract management, accelerating time to market. Singtel ensures consistent service delivery with standard SLAs across local and multi-domestic connectivity, while centralised real-time management of SIMs enhances operational efficiency.



Customisation and flexibility

Singtel's IoT solutions can be tailored to meet the specific needs of OEMs.



Scalability and future-proofing

Designed to grow with your business, Singtel's IoT solutions are scalable and adaptable to evolving technologies and market demands.

Discover how Singtel can help you build an IoT-driven smart supply chain

[Start now](#)

References

¹ Erlang Solutions, How IoT is revolutionising supply chain management, 2023

² ByteBeam, The most important IoT stats for 2024, 2024

³ SmartMakers, Increasing supply chain transparency with IIoT: a paradigm shift in operational monitoring, 2023