



# **How Technology Can Help Global Trade Become More Efficient, Inclusive, and Equitable**

Published 2nd February 2020

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## Overview

As global trade evolves and expands, the demand for efficient, inclusive, and equitable institutions becomes more pressing. Technological innovations have the ability to alter trade by providing innovative answers to the problems that enterprises, governments, and individuals participating in international trade face. This report examines major topics such as supply chain optimization, financial inclusion, trade facilitation, and sustainability to see how technology may assist global commerce become more efficient, inclusive, and equitable.

## Introduction

Global commerce is a critical driver of economic growth and development, helping to create jobs, reduce poverty, and improve affluence. The current global trade system, however, confronts significant obstacles, including inefficiencies, exclusions, and inequalities that can stymie growth and harm the global economy. Innovative solutions are required to address these obstacles and realize the full potential of global commerce. Technology has the potential to alter commerce and encourage a more efficient, inclusive, and equitable economy. This paper will look at how technology might help build a more resilient global commerce environment.

## Supply Chain Optimization

Advances in technology offer the ability to streamline and improve global supply networks, making them more efficient and resilient. Some significant technologies that can help with supply chain optimization are:

- **Internet of Things (IoT):** IoT devices can track goods and assets in real time across the supply chain, providing important data that can be utilized to optimize operations, minimize waste, and improve overall efficiency.
- **Blockchain:** By generating a secure, decentralized, and tamper-proof database of transactions, blockchain technology can increase supply chain transparency and traceability. This can aid in the reduction of fraud, the resolution of conflicts, and the enhancement of trust among trading partners.
- **Artificial Intelligence (AI) and Machine Learning (ML):** AI and ML can be used to analyze massive amounts of supply chain data, detect patterns, and anticipate future events. Businesses can use this information to make better decisions, optimize processes, and decrease inefficiencies.
- **Robotics and Automation:** Using robotics and automation in manufacturing, warehousing, and transportation may increase efficiency, lower labor costs, and boost production.

## Financial Inclusion

Financial inclusion is critical for creating more fair global trade because it allows individuals and enterprises to get access to the financial services and resources required to participate in international trade. Technology can help to increase financial inclusion by doing the following:

- **Increasing Access to Financial Services:** Digital financial systems, such as mobile banking and e-wallets, can give unbanked and underbanked people with access to financial services, allowing them to engage in global trade.
- **Lowering Transaction Costs:** Digital payment systems can cut transaction costs, making international trade more accessible for individuals and enterprises.
- **Facilitating Cross-Border Transactions:** Blockchain-based payment systems can speed cross-border transactions, eliminating delays and improving international trade efficiency.
- **Increasing Trade Finance Access:** Digital platforms and technologies, such as online lending platforms and AI-based credit scoring systems, can assist bridge the trade finance gap by linking firms with financing options and enhancing credit risk assessment.

## Trade Facilitation

Trade facilitation is the process of simplifying, modernizing, and harmonizing international trade procedures in order to reduce the cost and time involved with cross-border transactions. Technology can help in trade facilitation by:

- **Simplifying Customs Processes:** Using digital platforms, such as electronic Single Window systems and blockchain-based customs platforms, can simplify and expedite customs processes, lowering the time and cost involved with cross-border trade.
- **Improving Trade documents:** Digitization of trade documents, such as electronic bills of lading and digital certificates of origin, can improve information transmission between trading partners, eliminating delays and increasing efficiency.
- **Improving Regulatory Compliance:** AI and machine learning technologies can be used to evaluate trade data and identify potential compliance issues, assisting firms and governments in better managing risks and ensuring compliance with international trade regulations.
- **Encouraging Data interchange and Collaboration:** Digital platforms can promote the interchange of data and information across many players in the global trade ecosystem, hence improving collaboration and fostering more efficient and coordinated trade processes.

## Sustainability

Technology can also help to make global trade more sustainable and ecologically responsible by:

- **Improving Resource Efficiency:** IoT, AI, and ML technologies can assist organizations in optimizing resource utilization, reducing waste, and improving overall environmental performance.
- **Promoting Renewable Energy Adoption:** Digital platforms can help integrate renewable energy sources into global supply chains, promoting the move to cleaner and more sustainable energy alternatives.
- **Encouraging Circular Economy Practices:** Technologies such as blockchain and IoT can improve supply chain transparency and traceability, facilitating the adoption of circular economy practices that promote material reduction, reuse, and recycling.
- **Enabling Sustainable Supply Chain Management:** Digital platforms and tools may assist firms in assessing and managing their suppliers' sustainability performance, supporting responsible sourcing and sustainable supply chain practices.

## Inclusive Development

Global trade may become more inclusive by harnessing technology, allowing small and medium-sized firms (SMEs) and marginalized groups to engage in and benefit from international trade. Here are some examples of how technology might help with inclusive growth:

- **Connecting SMEs to worldwide Markets:** Digital platforms like e-commerce marketplaces and online trade portals may connect SMEs to new markets and clients, allowing them to grow and compete on a worldwide scale.
- **Improving Skills and Capacity Building:** Digital tools and platforms may assist individuals and enterprises improve their skills and capacity, allowing them to gain the knowledge and competence required to participate in global trade.
- **Creating an Enabling Environment for Innovation and Entrepreneurship:** Technology may assist establish an enabling environment for innovation and entrepreneurship by providing individuals and businesses with the resources and support they need to develop and market innovative products, services, and business models.
- **Promoting Gender Equality and Women's Empowerment:** By providing women with access to financial services, training, and market opportunities, digital platforms and technologies can help address gender disparities in global trade, empowering them to participate in and benefit from international trade.

## Conclusion

Global trade has the potential to be transformed by technology, making it more efficient, inclusive, and equal. Stakeholders in the global trade ecosystem may overcome problems, generate new possibilities, and drive sustainable and equitable growth by embracing digital solutions and using the potential of emerging technology. We can construct a more resilient and equitable global trading system that benefits businesses, governments, and individuals alike by investing in innovation, collaboration, and capacity building.

## About the International Trade Council

The International Trade Council (ITC) is a peak-body trade organization that provides a range of services to help exporters navigate the complex world of international trade. ITC members include startups, mid-to-large sized corporations, government export promotion agencies, and government foreign direct investment promotion agencies.

The ITC provides valuable resources and support to help exporters comply with international trade regulations, find new markets, and connect with potential buyers and partners. Through its programs and services, the ITC helps exporters access trade information, training, and market intelligence, as well as providing networking opportunities and business matchmaking services. The International Trade Council is also home to the [Go Global Awards](#), the [Global Business Confidence Survey](#), the [Quality in Business Certification](#) and a [USA Business Incubation Service](#). By leveraging the ITC's resources and expertise, exporters can increase their chances of success in the global marketplace.

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