Global Trade Digitization
Overview of offering
The cost, size, and complexity of the world’s trading ecosystems continue to grow

More than **$16 trillion** in goods are shipped across international borders each year

**80%** of the goods consumers use daily are carried by the ocean shipping industry

By reducing barriers within the international supply chain, global trade could increase by nearly **15%**, boosting economies and creating jobs

Today: Global trade is hugely inefficient and burdened by paper-based processes

- Inconsistent information across organizational boundaries and blind spots throughout the supply chain hinder the efficient flow of goods
- Complex, cumbersome, and costly peer-to-peer messaging
- Manual, time-consuming, paper-based processes
- Risk assessments often lack sufficient information; clearance processes subject to fraud

A single shipment of avocados from Mombasa to Rotterdam involves 30 actors, 100+ people, and 200 information exchanges

The establishment of the joint venture remain subject to receipt of regulatory approvals. None of the information provided in this document should be construed in any way as a representation or undertaking with regard to the position to be adopted by Maersk or IBM.
Tomorrow: we will bring to market a trade platform for containerized shipping connecting the entire supply chain ecosystem

- GTD is an open and neutral industry platform that will promote faster, more efficient and secure global trade

- Underpinned by Blockchain technology,
  - GTD will bring together a worldwide network of interconnected supply chain participants and stitch together the highly fragmented and disparate information spread across the ecosystem today

- The result
  - an information backbone of the global supply chain encompassing shipping milestones, documents in structured and unstructured form, customs filings, IoT data, and more

- With Blockchain technology at its core, the platform will foster collaboration and trust across organizations

- The initial products being released on the platform are:
  1. Shipping Information Pipeline
  2. Paperless Trade
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Blockchain addresses the underlying challenges inherent in collaborating across a distributed, fragmented supply chain ecosystem.

Hyperledger Fabric: the use of a shared replicated, permissioned ledger ensures consensus, provenance, immutability and finality.

Append-only distributed system of record shared across business network
A network of industry participants maintains a distributed, permissioned ledger with copies of document filings, relevant supply chain events, authority approval status, and full audit history; every change results in a new, immutable block.

Ensuring appropriate visibility; transactions are secure, authenticated & verifiable
Cryptography enables permissioned access so only the parties participating in a specific shipment can submit, edit or approve related data.

Business terms embedded in transaction database & executed with transactions
The export and import documentation requirements and authority approvals are pre-programmed and built into Blockchain and distributed to and endorsed by the network.

Transactions are endorsed by relevant participants
Information such as documentation filings and authority approvals can only be changed if endorsed by the parties taking part in the shipment; full audit history maintained on the Blockchain.

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Solution architecture

- Secure access to a collective view of global supply chain information
- A global network of known, permissioned, and onboarded supply chain participants
- The means to digitally automate collaboration across the ecosystem
- An open platform enabling the development of a marketplace of supply chain applications

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Thank you...