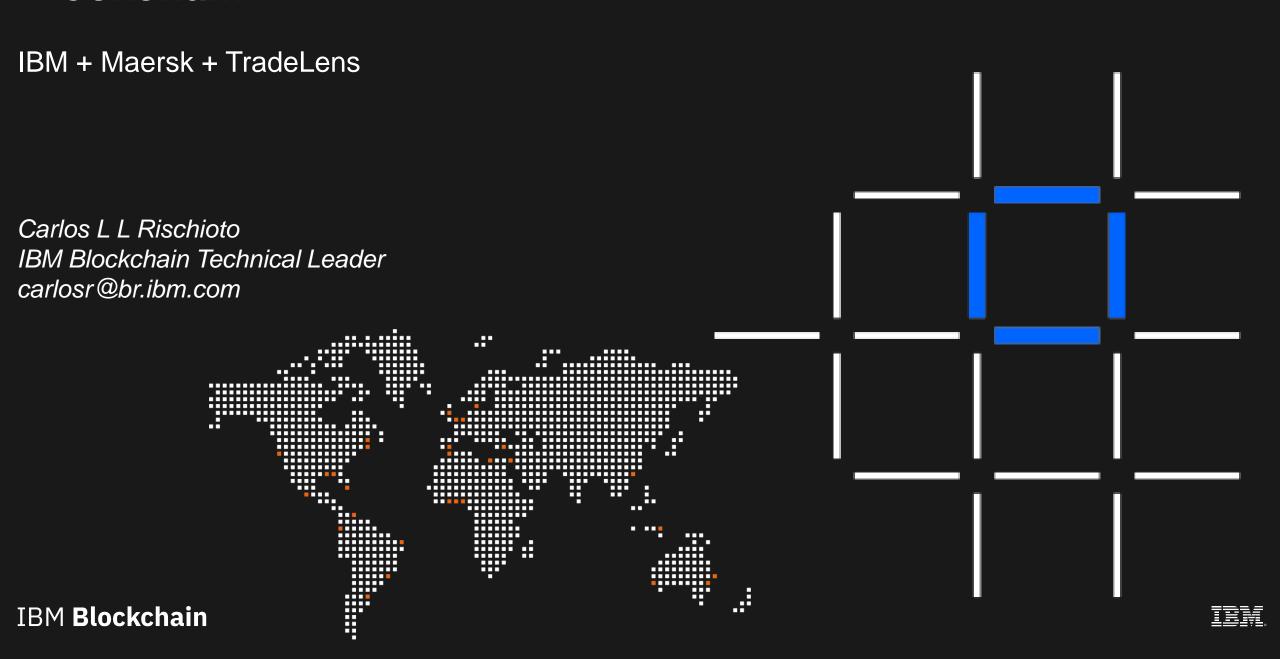
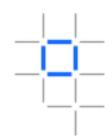
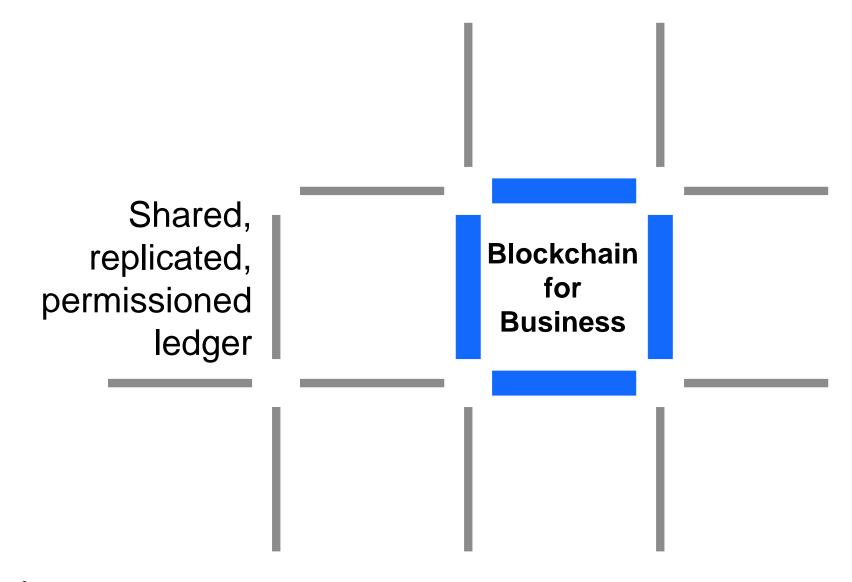
Blockchain



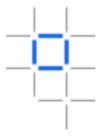
Introducing Blockchain for Business...







Blockchain for business requires trust



Append-only distributed system of record shared across business network





Business terms executed with transactions

Transactions are secure with appropriate visibility





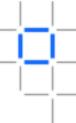
Transactions are provably endorsed by relevant participants







MAERSK Global Digitized Trade



What?

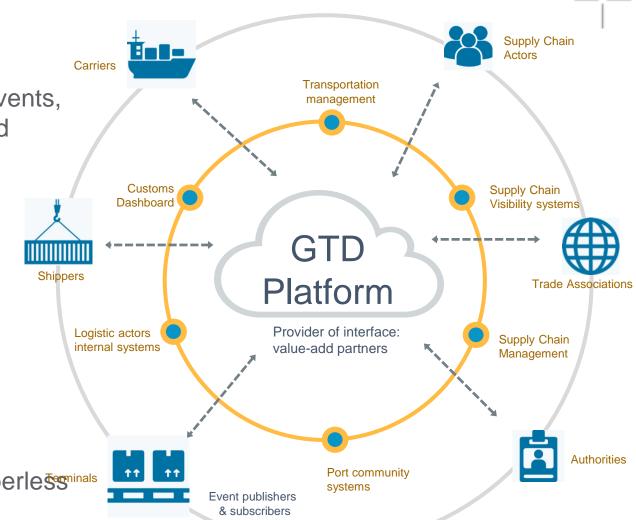
An open, extensible platform for sharing shipping events, messages, and documents across all the actors and systems in the supply chain ecosystem.

How?

Providing Shared Visibility and Shared State for **Container Shipments**

Benefits

- Increase speed and transparency for cross border transactions through real time access to container events.
- Reduced cost and increased efficiency through paperlessinals trade







IBM AND MAERSK HAVE LAUNCHED TRADELENS

An open and neutral supply chain platform poised to transform the industry

- TradeLens is built for the industry and offers benefits to trade participants from across the supply chain ecosystem
- Responding to industry feedback, IBM and Maersk have revised the approach and are proceeding under a Collaboration Agreement, which offers greater flexibility and responsiveness to industry feedback
- An Industry Advisory Board will help to shape the platform and drive standards
- Maersk Line and Hamburg-Sud are participants under the same terms as other network members
- Core platform components are available today under an Early Adopter program; full release remains on target for Q4 2018



THE TRADELENS PLATFORM

Digitizing the global supply chain

Connects the ecosystem

Brings together all parties in the supply chain - including traders, freight forwarders, inland transportation, ports and terminals, ocean carriers, customs and other government authorities, and others - onto a Blockchain-based platform with a secure permission and identity framework

Drives true information sharing

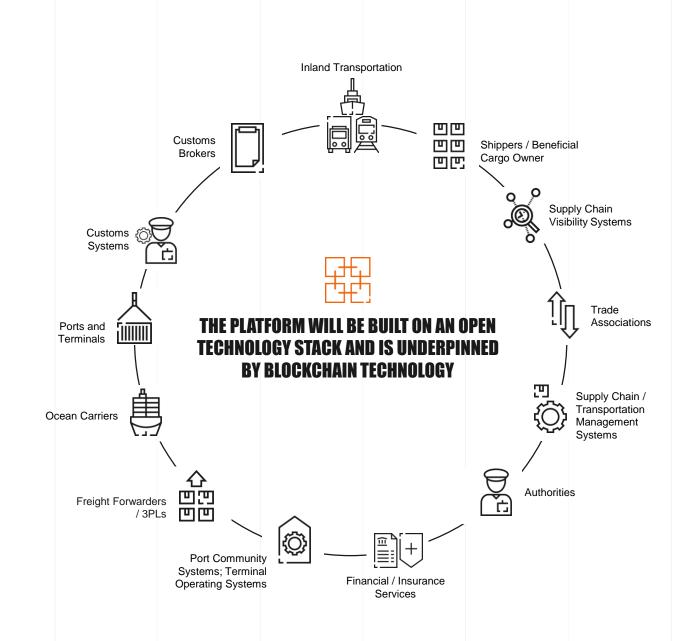
Provides for the seamless, secure sharing of real-time, actionable supply chain information across all parties to a trade - encompassing shipping milestones, cargo details, trade documents, the structured data embedded in trade documents, customs filings, sensor readings, and more

Fosters collaboration and trust

Enables the digitization and automation of the cross-organization business processes integral to global trade, including import and export clearance, with Blockchain ensuring secure, auditable, and non-repudiable transactions

Spurs innovation

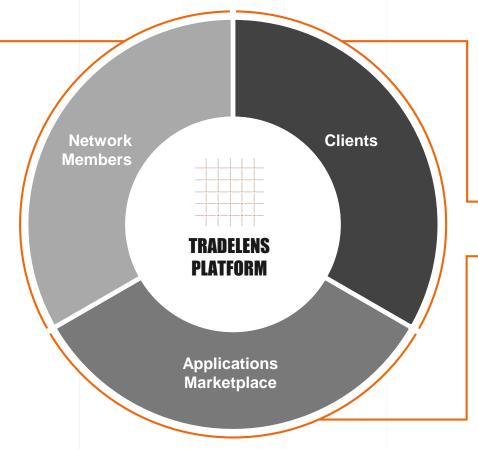
Lays the foundation for ongoing improvement and innovation through an open, non-proprietary API, the use of standards and promotion of interoperability, and the launch of an Applications Marketplace that parties can use to build and deploy TradeLens-powered applications for themselves, their partners, and their customers



THE TRADELENS ECOSYSTEM

Provide and gain access to end-toend supply chain information

- Ocean carriers
- Ports and terminals
- Government authorities
- Inland transportation
- ③ 3rd party data providers



Primary consumers and beneficiaries of the platform

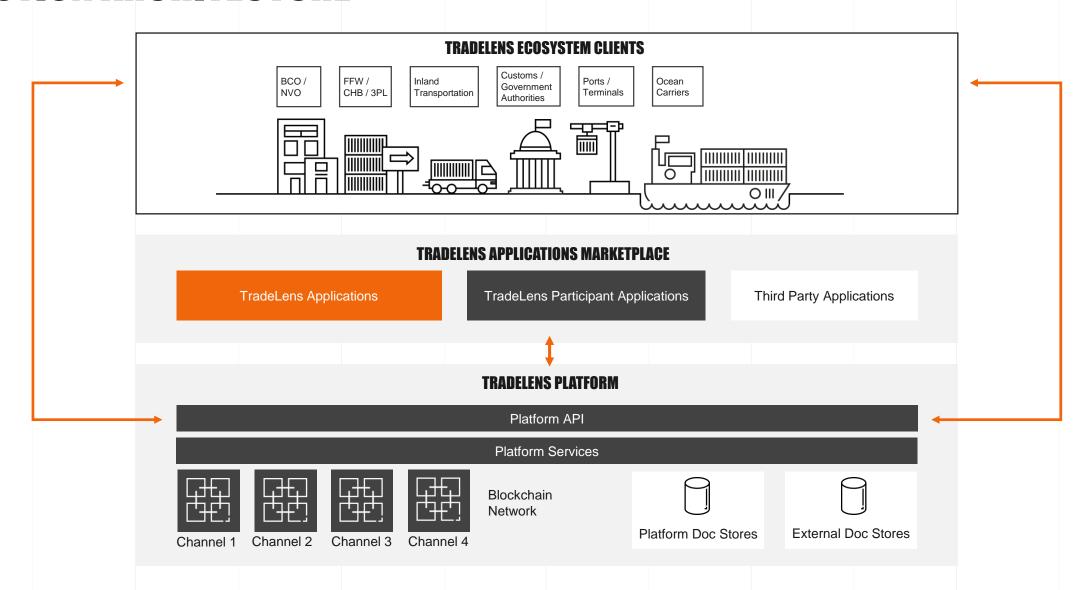
- Shippers (BCOs, retailers, manufacturers, etc.)
- Freight forwarders, customs brokers, 3PL
- Network Members
- Financial institutions

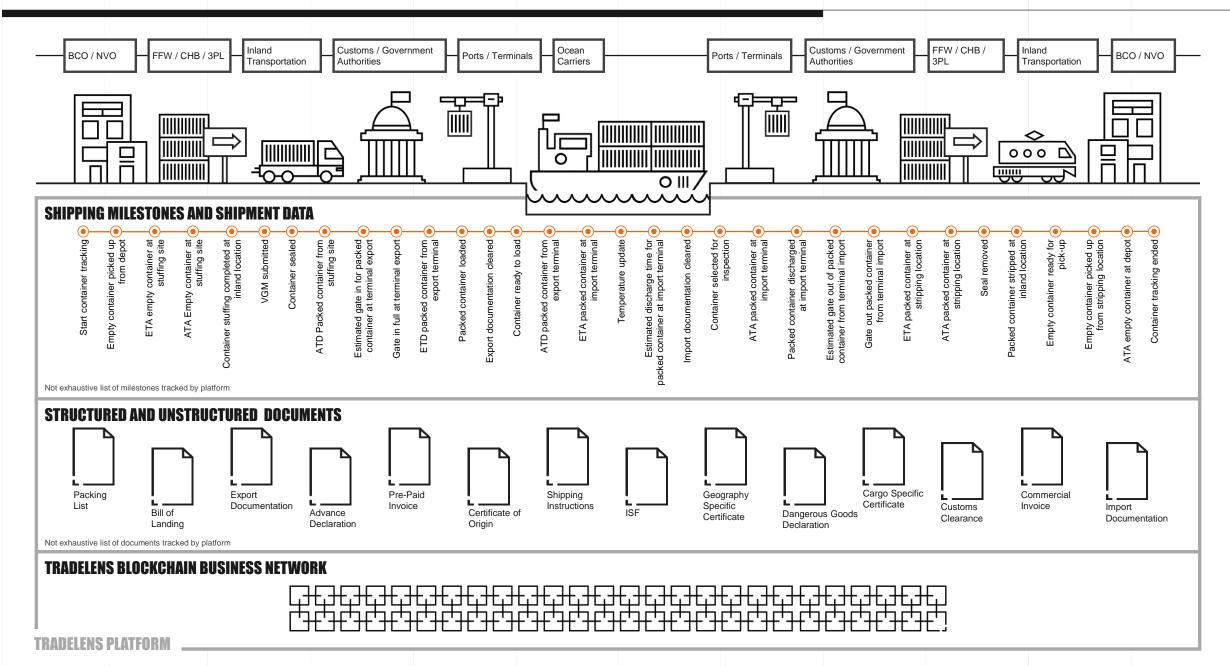
Offer value added services to the ecosystem through a platform marketplace

- TradeLens offerings
- Offerings from third party ISVs
- Offerings from Network Members and Clients



SOLUTION ARCHITECTURE





CURRENT NETWORK PARTICIPANTS*



Ports and Terminals

- PSA Singapore
- Patrick Terminals
- ICTSI
- Holt Logistics
- Modern Terminals
- Houston, Texas
- Rotterdam, NL
- Mobile, Alabama
- Lazaro, Mexico
- Buenos Aires, Argentina
- Itajai, Brazil
- Callao, Peru
- Gothenburg, Sweden
- Izmir, Turkey
- Onne, Nigeria
- Cotonou, Benin
- Felixstowe, Great Britain
- Newcastle upon Tyne, Great Britain

- Avonmouth, Great Britain
- Liverpool, Great Britain
- Teesport, Great Britain
- Sydney, Australia
- Melbourne, Australia
- Brisbane, Australia
- Freemantle, Australia
- Singapore, Singapore
- Hong Kong, SAR China
- Halifax, Canada
- Philadelphia, Pennsylvania
- Apapa, Nigeria
- Algeciras, Spain
- Aqaba, Jordan
- Cartagena, Colombia
- Los Angeles, California
- Miami, Florida
- Tangier, Morocco
- Port Said, Egypt
- Pecem, Brazil



Government Authorities

- ► Australia Home Affairs
- ► Dutch Customs
- ► SUNANT, Peru Customs
- ► Saudi Customs
- ► Singapore Customs



Thank you

Carlos L L Rischioto IBM Blockchain Technical Leader carlosr@br.ibm.com

Questions? Tweet us or go to ibm.com/blockchain



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