# SHIPPING IN THE AGE OF BLOCKCHAIN

Todd M. Scott

Vice President of Global Trade

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### 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<sup>1</sup>

Global trade is burdened with inefficiencies and costly processes

Data is trapped in organizational silos >

Processes are time-consuming

Clearance is subject to delays

Operations are complex and costly



Critical shipping data is held on various paper and digital systems. Inconsistencies, delays and blind spots lead to poor decision-making.

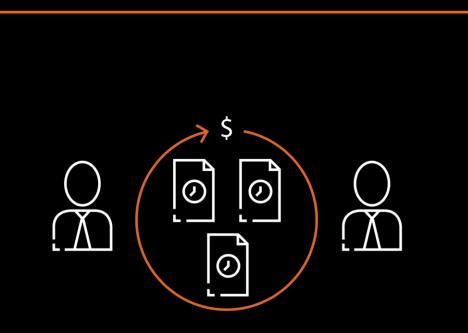
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Manual follow-ups result in inconsistent exception handling and audit procedures. High compliance costs often follow.

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Customs clearance involves high levels of risk assessment to prevent fraud and forgery, which often leads to shipment delay.

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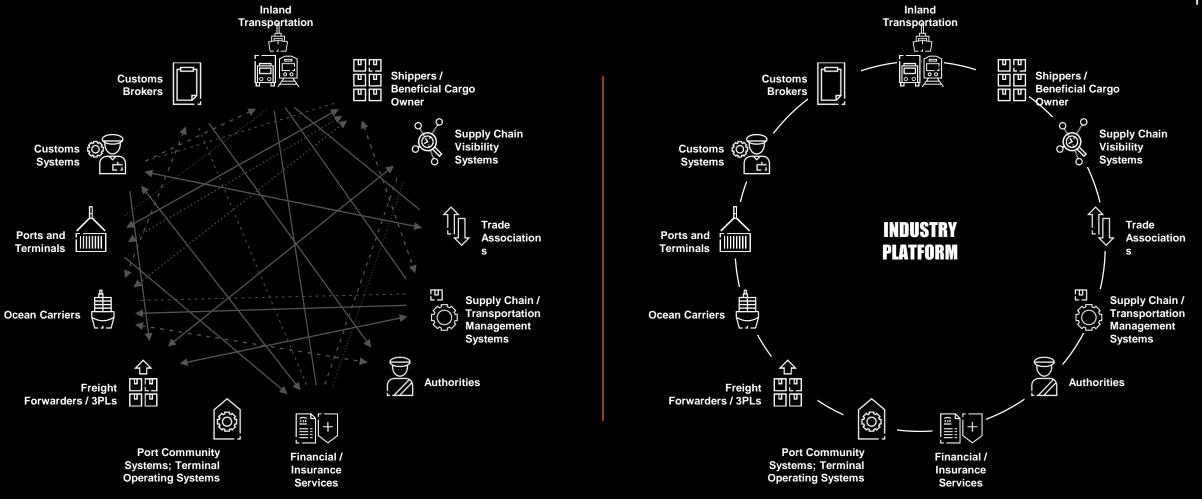
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Restricted ability to forecast, plan and share verified information leads to operational challenges and poor customer service.

### LOOKING TO THE FUTURE

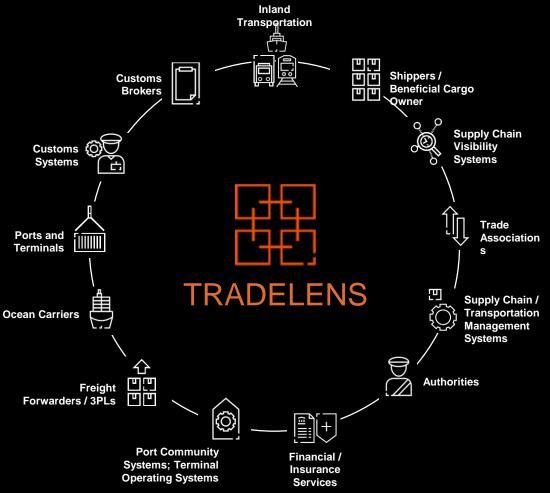


# DIGITIZING THE GLOBAL

TradeLens is built on an open technology stack and is underpinned by blockchain technology

- 1. Connects the entire ecosystem
- 2. Drives true information sharing
- 3. Fosters collaboration and trust

4. Spurs innovation



### OUR JOURNEY

#### May 2019

CMA and MSC agree to join the TradeLens platform; data for nearly 50% of global container volume to be on the platform

#### January 2019

Latest production release includes new document sharing, permissioning and notification features. Working with more than 100 ecosystem participants

#### December 2018

TradeLens Commercial Release 1.5 million events per day published to the platform

#### September 2018

TradeLens Limited Availability Release

#### January 2018

Beta release of the platform and launch of Early Adopter program; trials underway

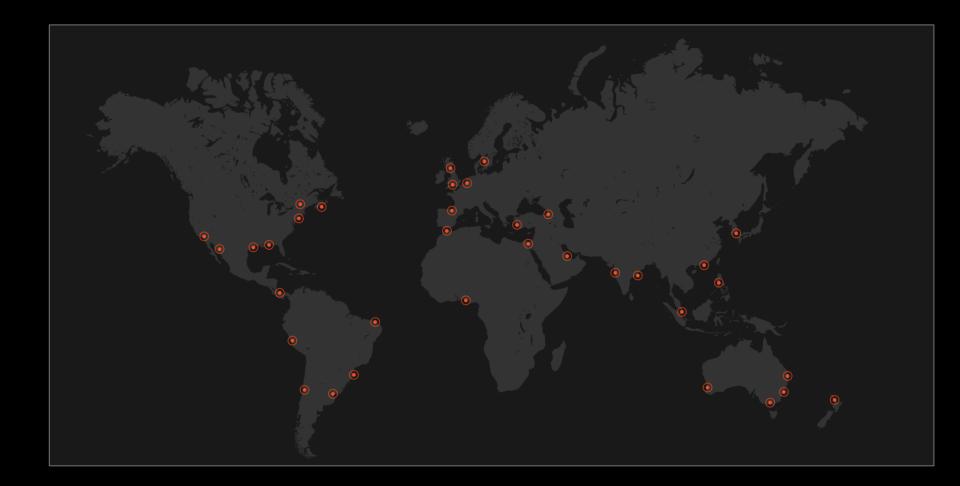
#### August 2018

Formal launch of the TradeLens platform 92 participants signed on

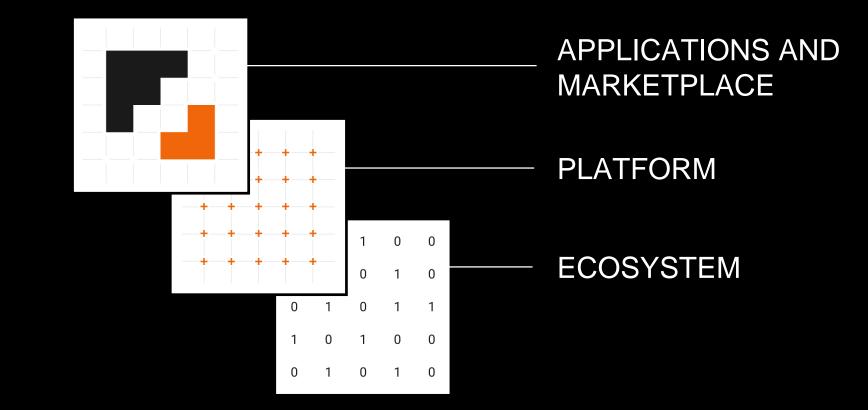
### WHERE WE ARE TODAY

100 ecosystem members across 6 continents

- 61 ports and terminals directly integrated – data from 600+ being captured
- 13 ocean carriers
- 9 authorities
- 6 inland transporters



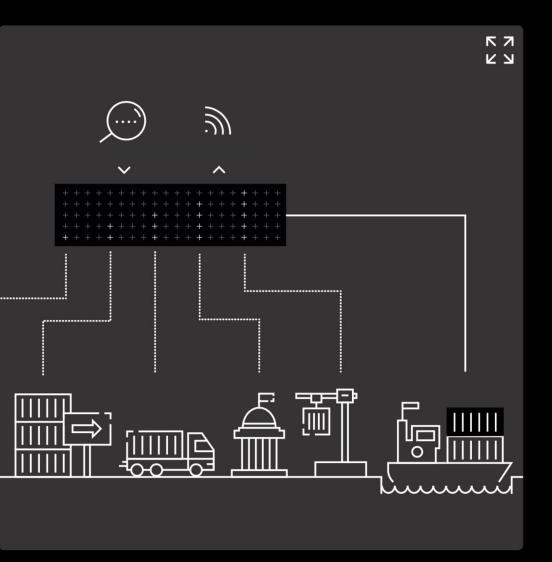
### THE TRADELENS SOLUTION



### VISIBLE

Comprehensive, real-time visibility across the end-to-end journey of a shipment.

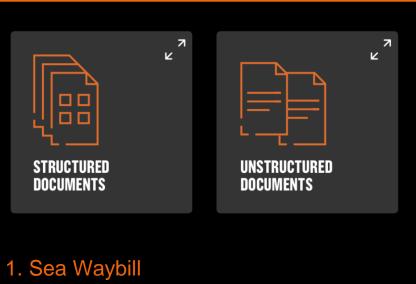
- 120+ planned, estimated, and actual events
- Data available immediately
- Single, simplified view across all shipments



### DOCUMENTS

Accessible, immutable and auditable documents simplify trade workflows and speed up processing.

- Eighteen supported documents
- Transition to structured documents
- Consignment level notification
- Cross-organization workflow

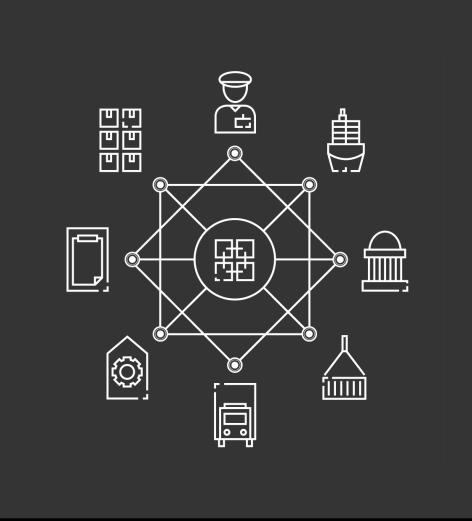


- 2. Commercial Invoice
- 3. Packing List
- 4. Certificate of Origin
- 5. Import Declaration
- •••
- \* Structured supported \*

### BLOCKCHAIN

TradeLens is built with a permissioned blockchain to guarantee the immutability and traceability of shipping documents on the platform.

- Trust anchors ensure consensus
- Auditable and tamper-proof
- Verifiable via cryptographic hash
- Private data remains private



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