

2021/CTI/TF/WKSP3/005 Session 2c

#### **Trade Digitalisation - TradeTrust**

Submitted by: Singapore



Utilizing Digital Technology in the Field of Trade Facilitation Under the Current COVID-19 Pandemic and Beyond: Best-Practices Sharing Workshop -Interoperability and Data Security for Single Windows 3 August 2021

# Trade Digitalisation -TradeTrust

Mr. Loh Sin Yong, Director, Trade Trade & Connectivity Cluster Sectoral Transformation Group INFOCOMM MEDIA DEVELOPMENT AUTHORITY

APEC Workshop on Interoperability Single Window 3 August 2021





DIGITAL CHAMPION



Drive digitalisation across industries

Supporting a digitally enabled workforce

INDUSTRY DEVELOPER

Develop the digital tech and media industries as an engine of growth for Singapore

Foster a data ecosystem for the digital economy



Master-planner for connectivity, digital infrastructure & standards

Prepare tech & media manpower, and segments of society to be digitallyready

## REGULATOR & PROTECTOR



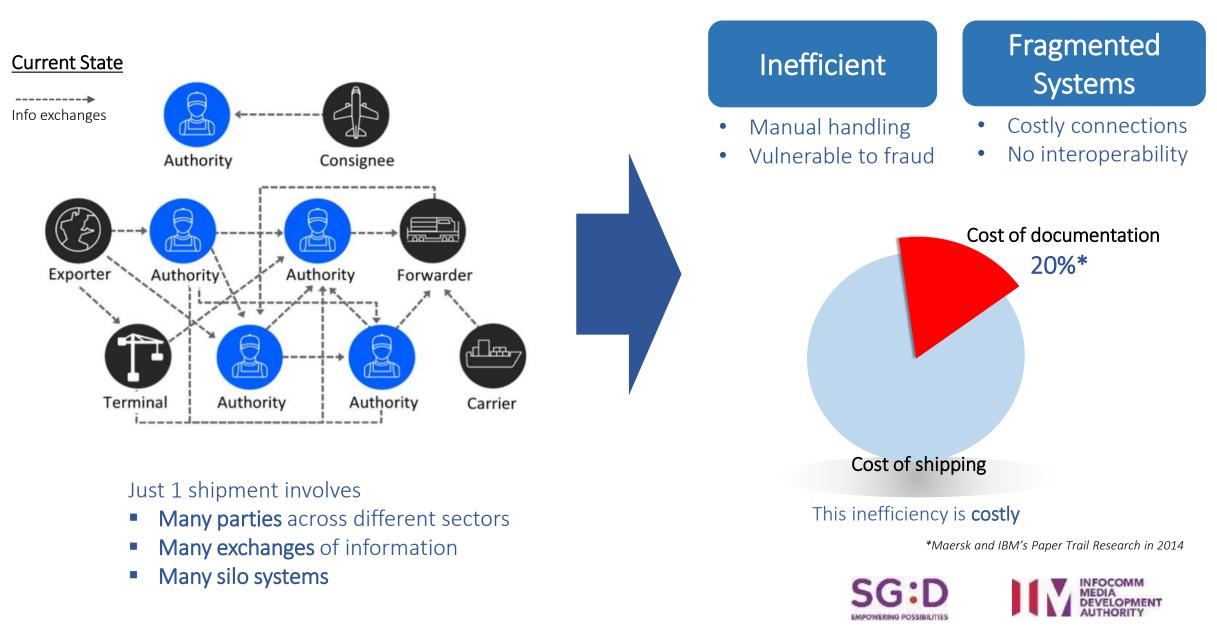
Ensure resilient telecom & broadcast networks

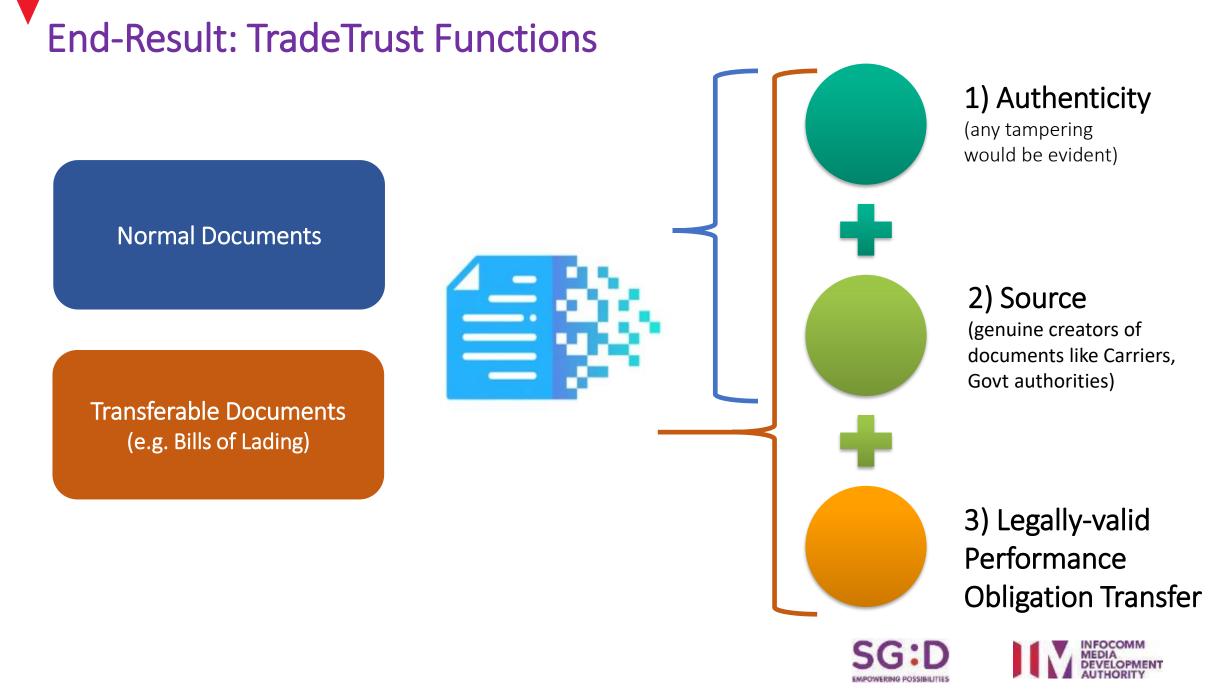
Govern market conduct and protect consumer interest through infocomm, media, postal and data protection regulation





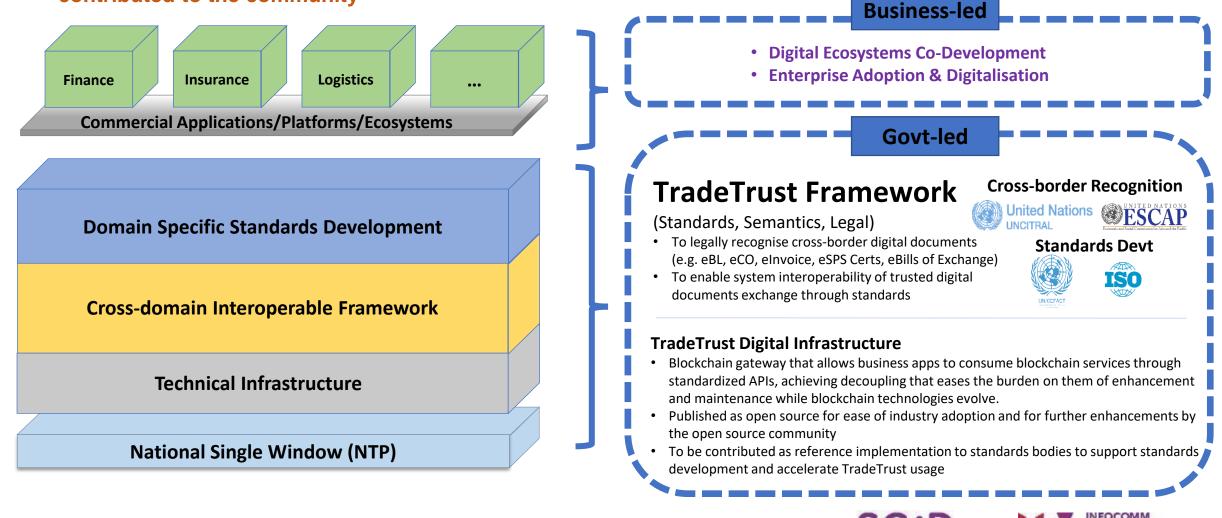
# Difficulties with Paper in Cross-Border Trade



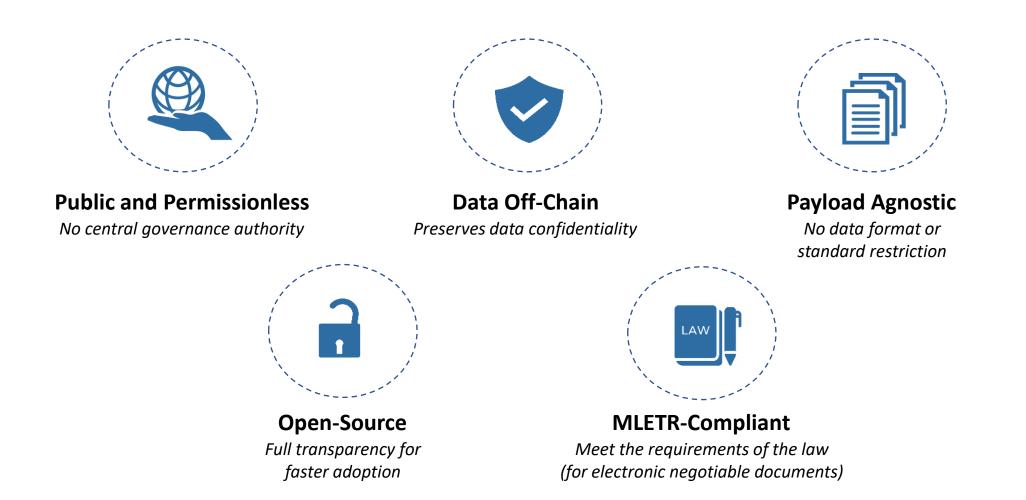


## The TradeTrust Framework

TradeTrust is NOT a platform. It SUPPORTS Platforms and Systems to achieve the 3 functionalities ACROSS Platforms and Systems. The technical methods are implemented in open-source software that has been contributed to the community



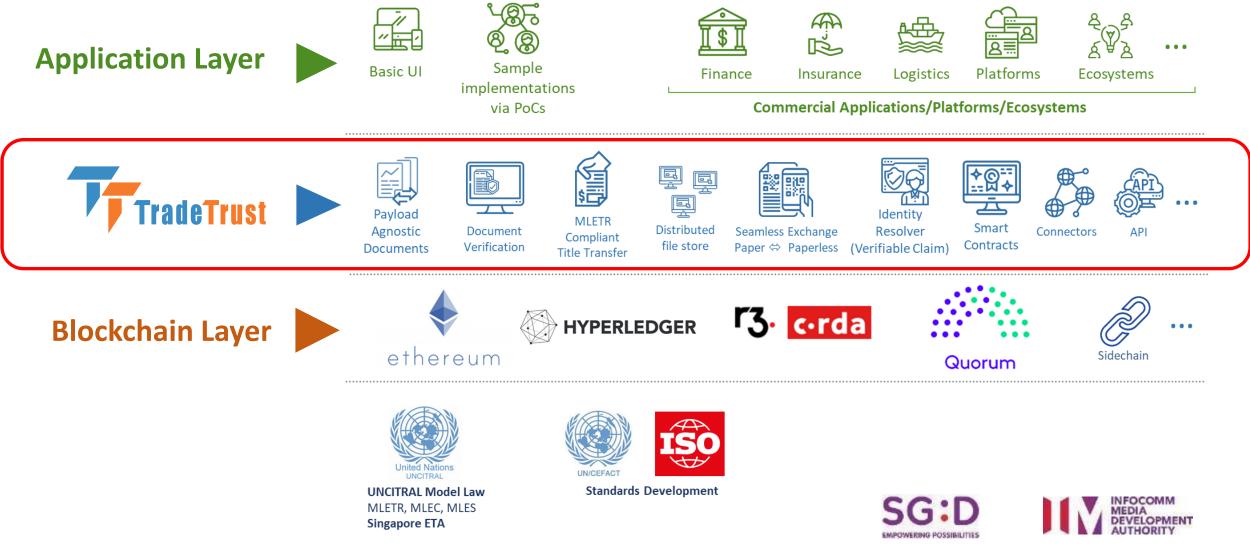
# TradeTrust Design Principles



MLETR = Model Law on Electronic Transferable Records published by United Nations Commission on International Trade Law in Sept 2017



# TradeTrust Framework is Accessible to All



## Dealing with Transferable Documents (BL as example)

#### Paper Transferable Instrument



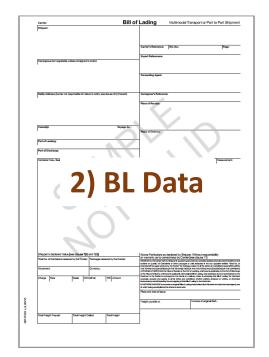
AS ARRANGED

Freight Prepaid at BUSAN, KOREA Total Prepaid in		Freight Payable at No. of Original B/L THREE (3)		Place of Issue BUSAN, KOREA Date of Issue April 28, 2013

STX FORM No. BL-4000 2039662

Electronic Transferable Record

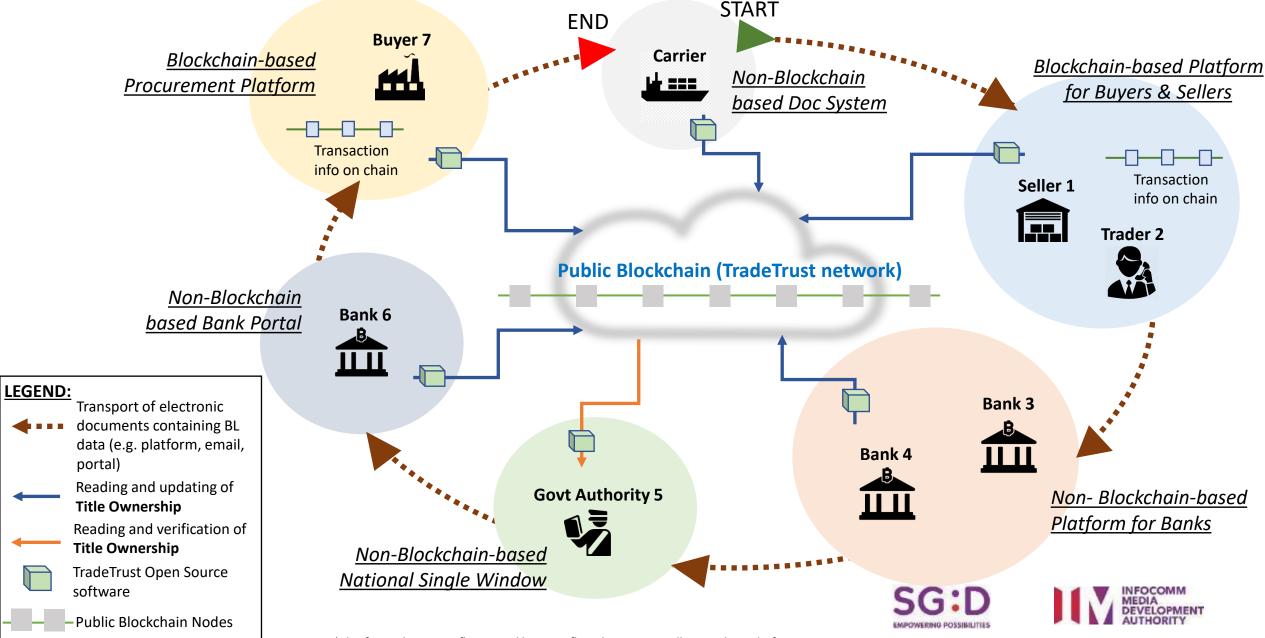
#### 1) TITLE ownership



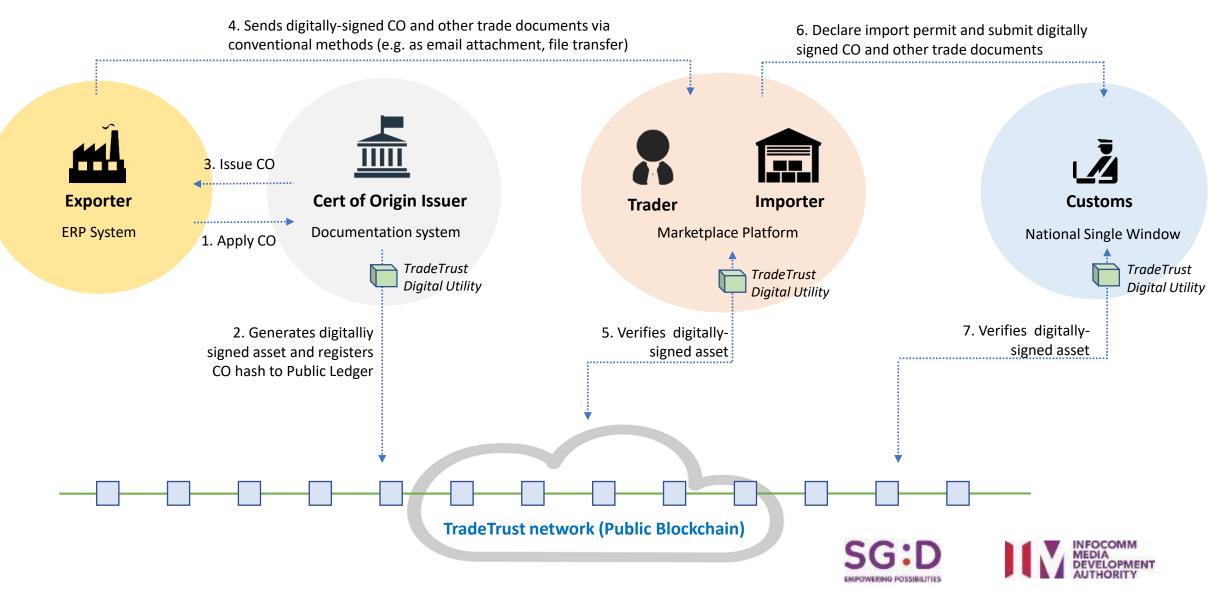




## Transferable Documents' Interoperability



## Normal Documents' Interoperability



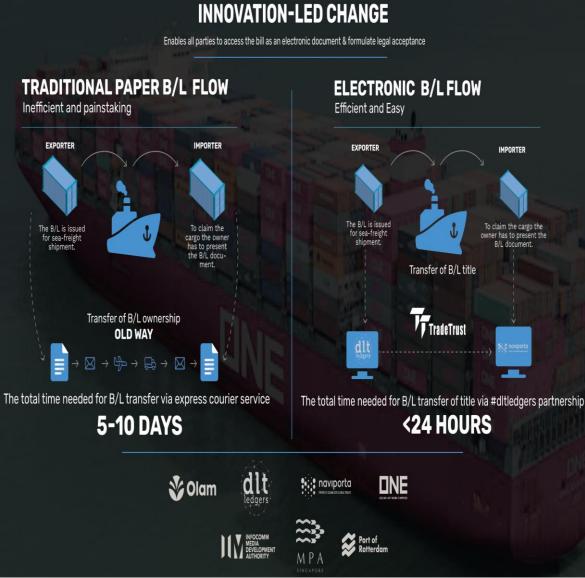
# EBL TRIAL WITH PORT OF ROTTERDAM

#### • Trial Scope:

- Electronic Bill of Lading (eBL)
- Cross-platform interoperability of title transfer and surrender of eBL

#### • Use Case Description:

- Use of eBL to shadow a live shipment in collaboration with Olam from Vietnam to Rotterdam via transshipment in Singapore
- Trial of Singapore-based #dltledgers' blockchain platform and the Netherlands-based NaviPorta platform to perform the title transfer transaction and thereafter surrender of the eBL issued by ONE
- The title transfer and surrender capability on both platforms were enabled by TradeTrust digital utility
- Participants:
  - Issuer/Carrier: Ocean Network Express (ONE)
  - Commercial user: Olam
  - Platforms: #dltledgers (SG) , NaviPorta (Netherlands)
- Outcomes:
  - Time savings from 5-10 days to under 24 hours



Infographics from #dltlegers

### **CROSS-BORDER COLLABORATION WITH AUSTRALIA**

- Australia-Singapore Digital Economy Agreement
  - Australia Border Force, Singapore Customs and Infocomm Media Development Authority of Singapore
- Proof of Concepts:
  - Test Policy : Acceptance of digitally verifiable documents
  - Test Technology : Interoperability between SG TradeTrust and AU Intergovernmental Ledger
- Trial Scope
  - Certificates of Origin
- Participants
  - Issuers: Australian Chamber of Commerce and Industry and Australian Industry Group
  - **Commercial users**: Rio Tinto, ANZ Bank, DBS Bank and Standard Chartered Bank
  - Regulatory Authority: Singapore Customs
- Outcomes
  - Feedback were highly positive
  - Participants acknowledged value add to their business
  - Secured acceptance from regulatory authority (Singapore Customs) and commercial users





Ledger

Government - News - Supply chain Australian Border Force launches blockchain trial with TradeTrust

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# Global Partnerships

Home » News & Speeches » ICC joins Singapore Government and major industry partners to launch TradeTrust

singapore

Government and major industry partners to launch TradeTrust

News • Davos, 22/01/2020

Convening alongside the World Economic Forum Annual Meeting in Davos, the International Chamber of Commerce (ICC) has joined the Singapore Government and industry partners to accelerate the digitalisation of global trade and commerce.

#### SWIFT and Singapore's IMDA Join Forces to Drive Global Trade Digitalisation

TRADE, 5 OCTOBER 2020

Collaboration combines the reach, scale and reliability of SWIFT with IMDA's efforts on technology and legal frameworks to accelerate trade digitalisation



**T** Singapore digital trade documentation framework to combine with global Swift network

### FINANCIAL TIMES

### Singapore charts its way to digital future for trade

Longer term, Singapore is working on a project called TradeTrust that aims to develop an "interoperability framework" for the exchange of digital trade documentation that would simplify and speed up procedures.

# Australia and Singapore to trial blockchain for cross-border trade

The trial will test digital verification platforms across both the ABFdeveloped Intergovernmental Ledger and IMDA's TradeTrust for electronic trade documents.



#### Succesfull Proof of Concept Electronic Bill

In October 2019, IMDA (Infocomm Media and Development Authority) and the Maritime and Port Authority of Singapore (MPA) co-hosted a 2-day workshop for the delegates from Blocklab, Port of Rotterdam's blockchain centre to work together on the requirements of title transfer capability in relation to eBLs for cross-border trade transactions.



DBS and Trafigura collaborate with IMDA to launch open-sourced blockchain trade platform

Cuts end-to-end trade document transit time by more than half from 45 to 20 days



## Call To Action

#### 1) Join us to co-create TradeTrust Proofs of Value

#### If you're from:

- a) Shipping lines
- b) Shippers/Consignees
- c) Logistics Service Providers
- d) Financial Institutions providing Trade Financing Service
- e) Govt Authorities involved in cross-border matters

#### 2) Incorporate TradeTrust code into your Applications

#### If you're from:

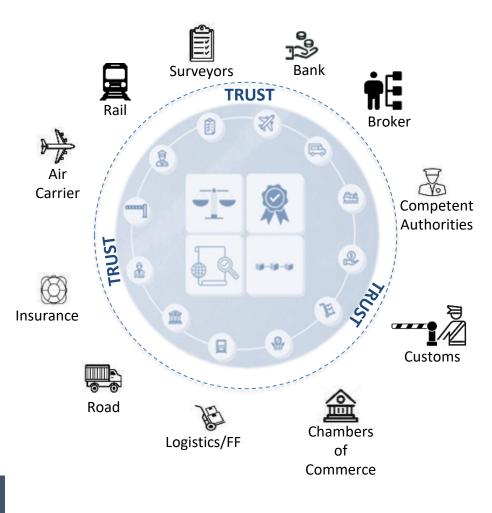
- a) Tech Companies
- b) Platform Providers

#### Useful URLs:

Reference Implementation Website: https://tradetrust.io/ Docs: https://docs.tradetrust.io/ Source code: https://github.com/TradeTrust

For more info, contact us at:

### tradetrust@imda.gov.sg





# THANK YOU

