# WTO GLOBAL TRADE & BLOCKCHAIN CONFERENCE

# TRADETRUST & OTHER INITIATIVES

Mr Loh Sin Yong Director (Trade) Infocomm Media Development Authority, Singapore 2nd Dec 2019







# **IMDA'S ROLES**

DIGITAL CHAMPION

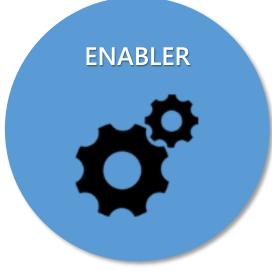
Drive digitalisation across industries

Supporting a digitally enabled workforce



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



Ensure resilient telecom & broadcast networks

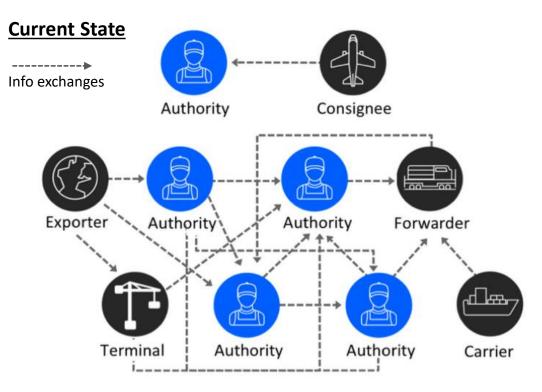
Govern market conduct and protect consumer interest through infocomm, media, postal and data protection regulation



## **Current Challenges of Cross-Border Trade Documentation**

### **Inefficient and Fragmented**

A single shipment requires exchanges of information between multiple parties



Paperless Trade Originated From One Country Often Gets "Translated" Into Paper When Crossing Borders Into Another Country

Inefficient Processes	Fragmented Systems
<ul> <li>Paper-based</li> <li>Manual handling</li> <li>Prone to errors</li> <li>Vulnerable to fraud</li> </ul>	<ul> <li>Lack of interoperability</li> <li>No common standards</li> <li>Lack of data portability</li> <li>Costly silo integrations</li> </ul>
Cost of s	Cost of documentation 20%*
This inefficie	ency is <b>costly</b>



### How Will TradeTrust Address These Challenges

#### **Inefficient Processes**

#### Trade Digitalisation

TradeTrust promotes an easy way to convert hardcopy trade documents into digitally-signed assets that are registered as hashes onto a public blockchain



**Fragmented Systems** 

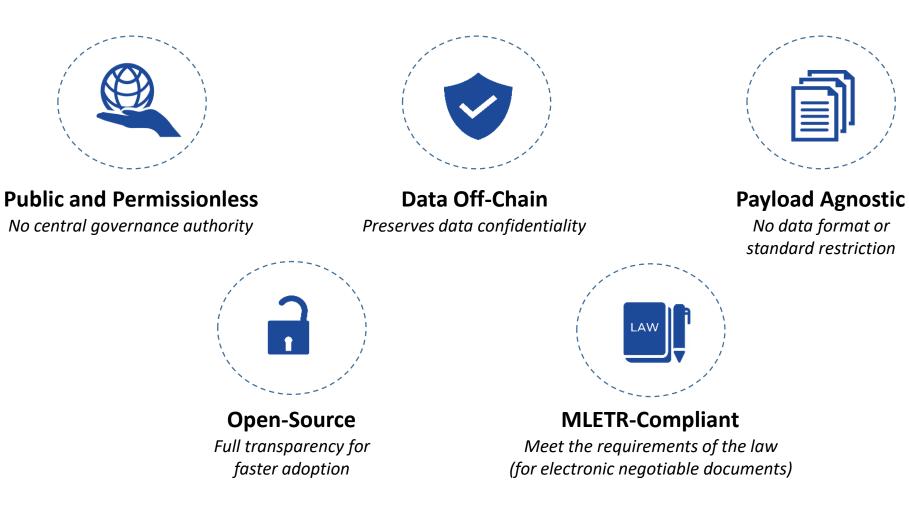
#### **Trusted Interoperability**

TradeTrust is designed to support the following:

- 1. Working with paper-based process
  - TradeTrust facilitates the seamless transition from paper to digital and vice versa along different parties of the value chain to cater to different degree of digital readiness
- 2. Working with different blockchain technologies like Hyperledger, Quorum and R3 Corda by connecting them to a common public blockchain



### **TradeTrust Design Principles**

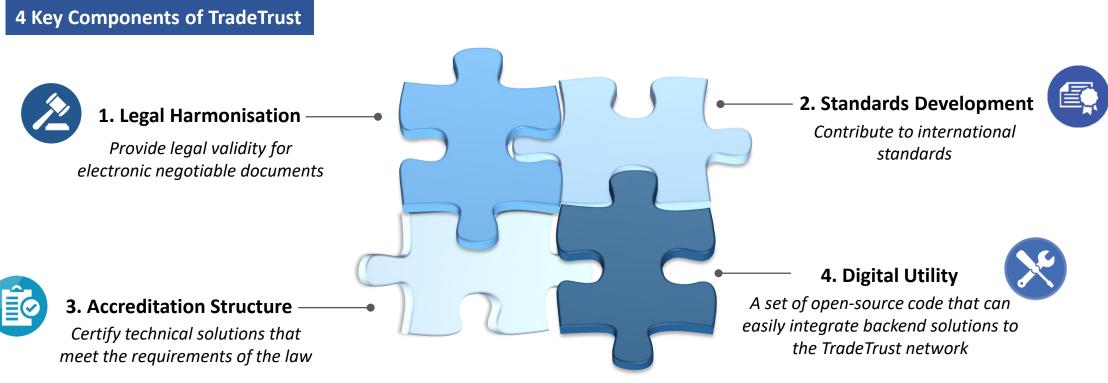






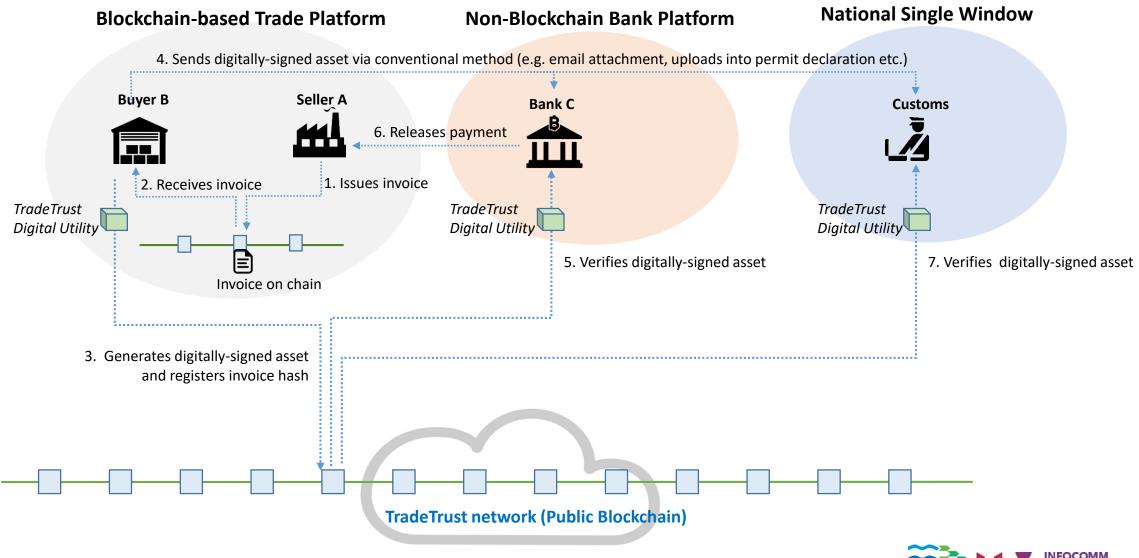
### What is TradeTrust

**TradeTrust** is a digital utility that comprises a set of globally-accepted standards and frameworks that connects governments and businesses to a public blockchain to enable trusted interoperability and exchanges of electronic trade documents across digital platforms





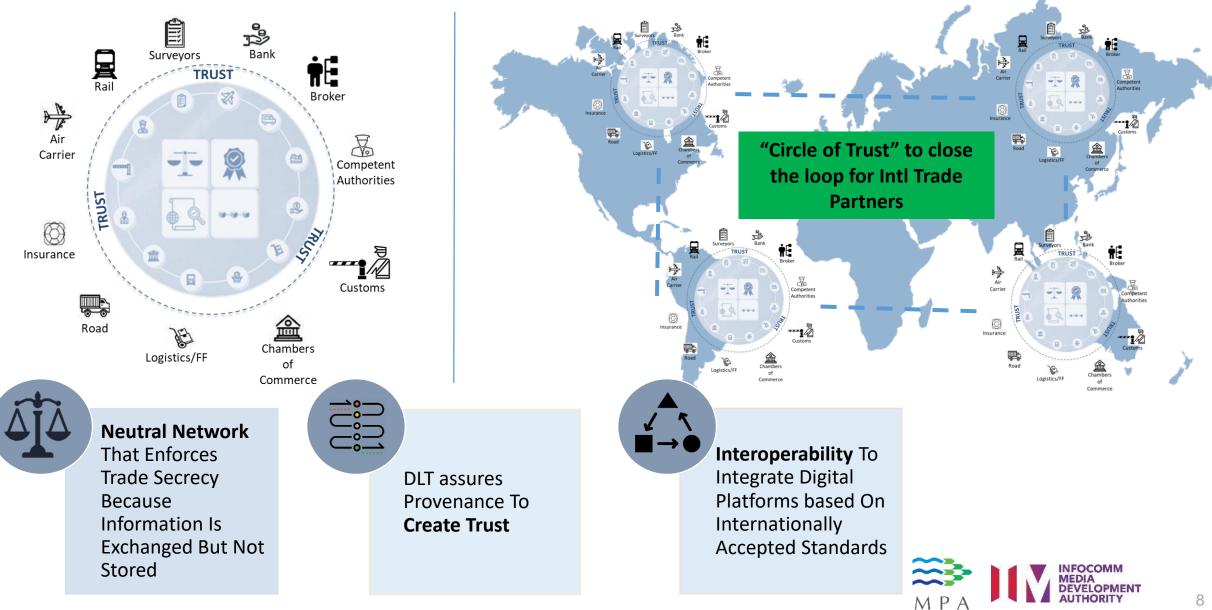
# An illustrative example of a potential inter-operability scenario



\*This figure does not reflect actual business flows but serves to illustrate how Platforms can inter-operate



### **A Trust Network for International Trade Partners**



SINGAPORE

### **PoC Trial 1**

### Facilitating Commodity Trade & Financing



**POC Activities** 

#### Trade Lane

Shipment of USD 20m worth of Iron Ore from South Africa to China

#### **Potential Benefits of POC**

- Reduce trade documents transit time by more than 50%
- Lower risk of fraud and loss of physical documents
- Capture more offshore commodity trade & financing

#### THE BUSINESS TIMES

Trafigura pilots US\$20m trade on Singapore blockchain platform developed with DBS, IMDA

#### **ICC TRADEFLOW POWERED BY TRADETRUST,** SUPPORTED BY TRAFIGURA, DBS AND **PERLIN (OCT 2019)**



Online platform that helps to digitalise the documents for the trade and allow workflows to be customised and implemented



ICC TradeFlow launched in Oct 2019



First transaction conducted through the platform in mid Nov





### Blockchain in other areas of International Trade

### **Electronic non-Preferential Certificates of Origin**

- World's first eCO on Blockchain in 2018 by vCargo Cloud
- eCOs by Global eTrade Services on their OTB Platform

#### <u>Certificates of Non-Manipulation and Preferential Certificates</u> of Origin between Australia and China

 Reference Technical Implementation in an UN/CEFACT project

### Title Transfer in compliance to UNCITRAL Model Law on

### **Electronic Transferable Records**

- Netherlands Port of Rotterdam
- Technical trials to begin in Q1 2020

#### Non-Trade Areas:

Capital Market Access, Remittances, Charitable Payments, Health, Insurance, Education/Skills Certificates, Transport



https://www.imda.gov.sg/programme-listing/Blockchain-Innovation/Singapore-Blockchain-Landscape-Map



### **Call To Action**

### 1) Join us to future TradeTrust Proof of Concepts

#### 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) Develop Applications on TradeTrust

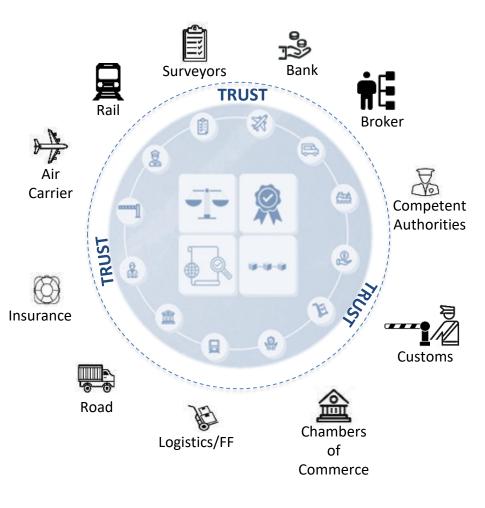
If you're from:

- a) Tech Companies
- b) Platform Providers

Source codes and documentations are available to download at <a href="https://github.com/TradeTrust">https://github.com/TradeTrust</a>

For more info, contact us at:

tradetrust@imda.gov.sg





# THANK YOU



