

28th June 2022

Air Cargo Digitalization in COVID-19 Time:

Perspective on Legal Frameworks and Solution Implementation



IPCSA

International Port
Community Systems
Association



NETWORK
OF TRUSTED NETWORKS

Connecting and
sharing data globally
between ports and
cross border

PROTECT

“Linking Air Cargo to the Border Supply Chain Through Digitalization”

Richard Morton
Secretary General, IPCSA

“A community of Communities”

Collaboration –
Collaboration is as much
about people as it is
about technology.

**Globally
Networked
Platforms**

**Standards &
technology**



**50 Members operating in over 50
Countries**



**Operating in excess of 500 Sea Air
Ports, Inland terminals & border
crossings**



**PCS Operators, SW Operators,
Sea and Air Port Authorities**

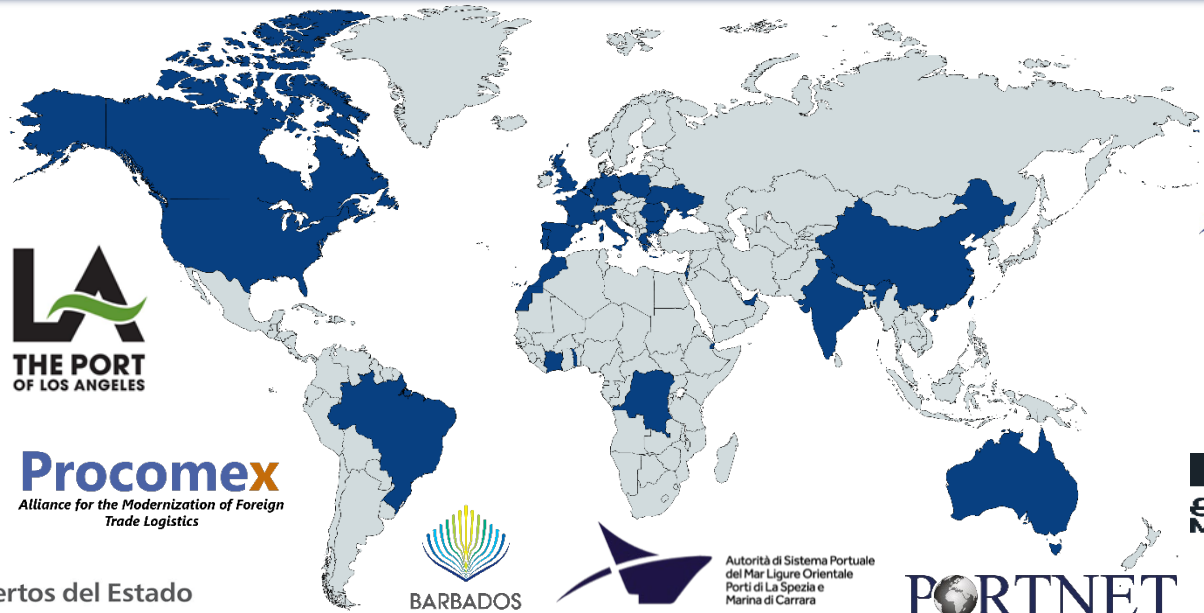


Members jointly at least:

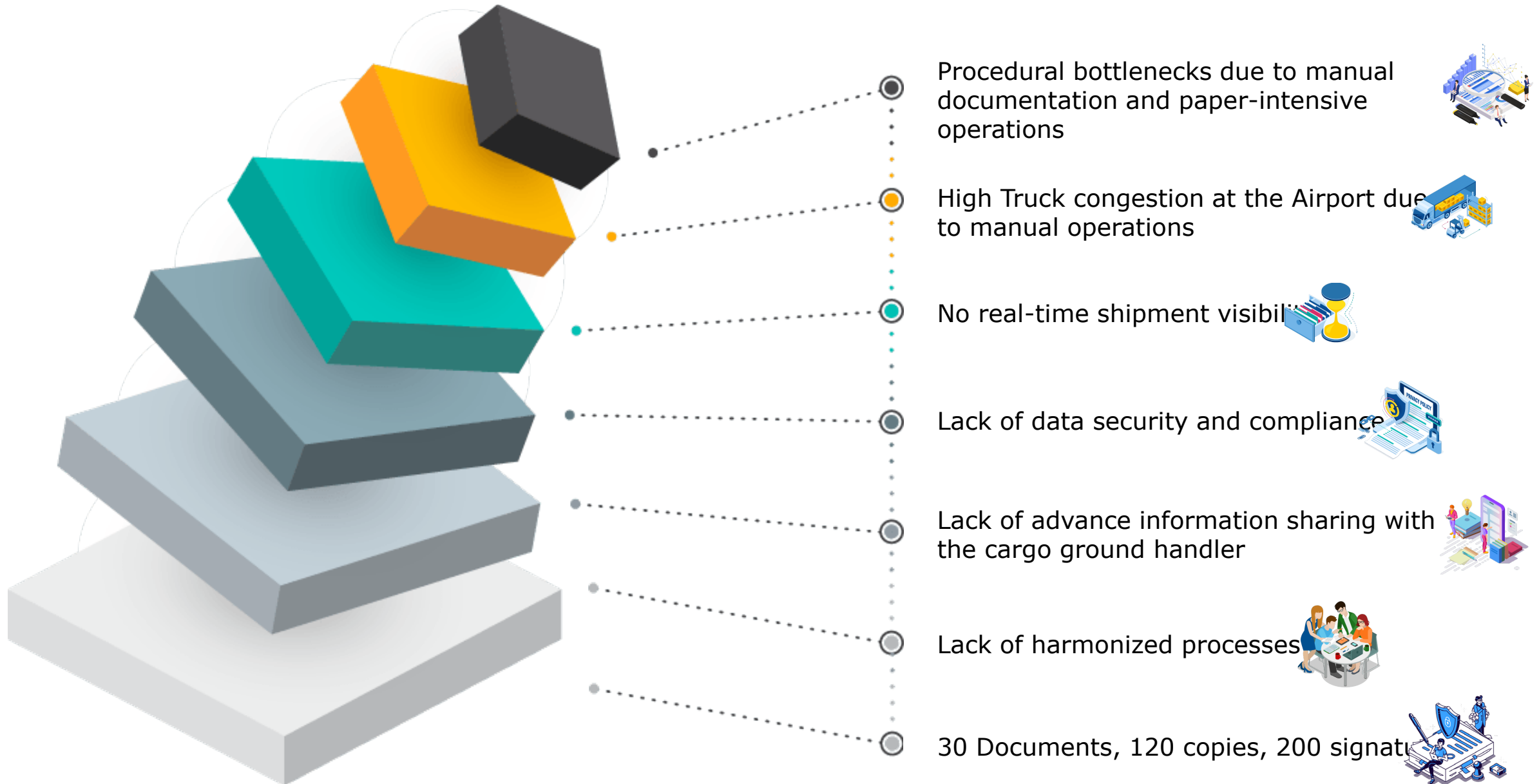
- 500m + TEUS
- 20bn + Tonnes of cargo
- 1.5m + users
- 50bn + message



IPCSA MEMBERS 2022



Current Air Industry Challenges



“Digitalisation of the Air Cargo Supply Chain”



Need to be linked across the globe to share data



Focused on the local requirements and laws



Need to have engagement of the Air Port Community



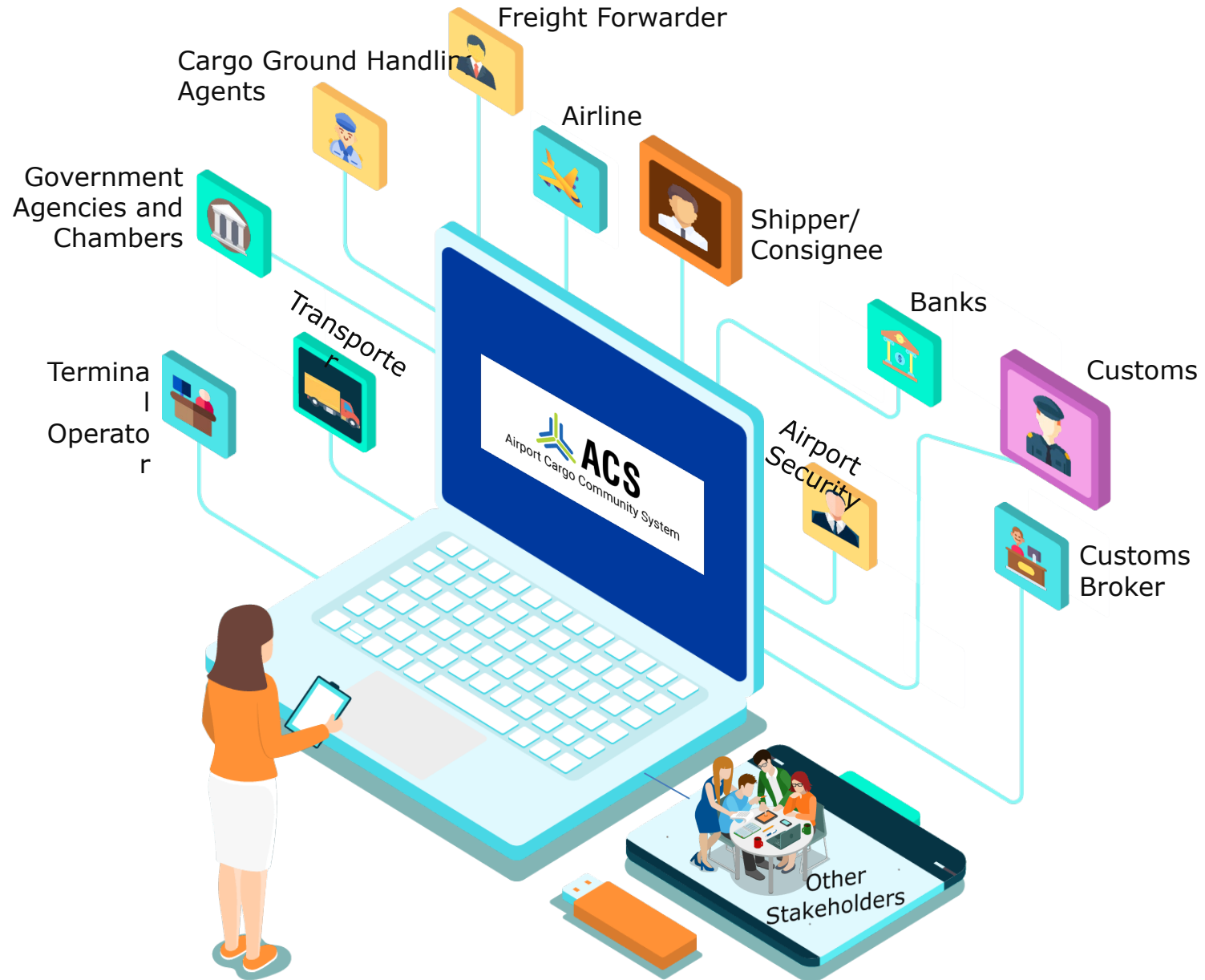
Understanding of current levels of digitisation



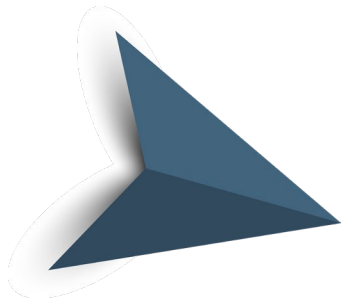
Digital Links to regulatory requirements

**Leads to the need for an
Air Cargo Community System Generations**

What is an Air Cargo Community System Generations



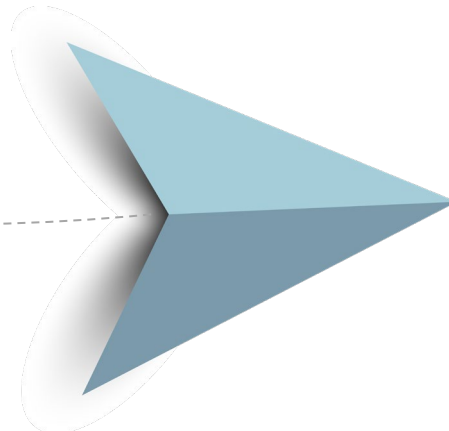
Air Cargo Community System Generations



First Generation ACS

- Simple web portal for viewing flight schedules

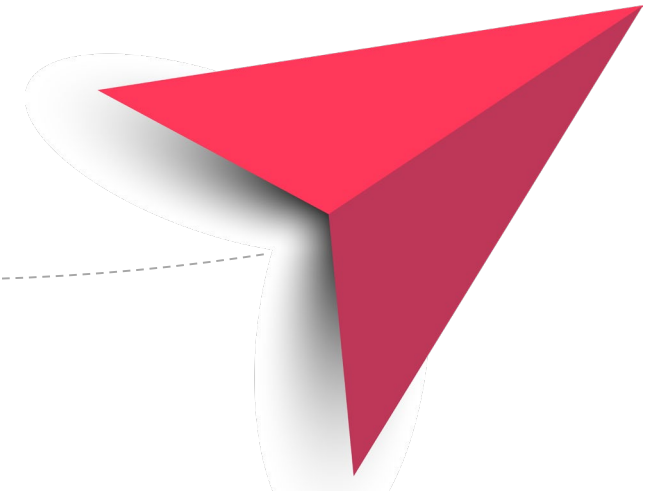
Some US /European airports



Second Generation ACS

- Online Terminal Charges payment
- Airport level tracking
- Truck dock appointment booking
- Airport – Customs EDI
- Smart-gate

Major Indian Airports, Brussels, Hong Kong, Amsterdam, Dubai, Paris



Next Generation ACS

- e-AWB
- e-booking
- e-DO
- e-CSD
- Digital Corridors
- ENS/AMS filing with Smart-gate
- Online vehicle token
- Online Certificate of Origin
- Export / Import declaration filing with customs
- Online Terminal Charges payment
- Truck dock appointment booking
- ASI with CTO
- Airport level tracking
- Online AWB printing
- Airport – Customs EDI

Next Generation ACS
Mumbai, Bengaluru, Atlanta

How to Develop an Air Cargo Community System

1) Gap Analysis of IT Systems

- Systems in Place
- Processes
- Standards in Use

2) Legal Assessment based on Gap Analysis of IT Systems

- Assessment of Processes related to regulatory requirements and identify possible changes needed – in our experience few changes are required

3) Review Governance of Air Cargo Community System

- Who owns it, how is it run, is it a concession or outsourced which is more common in Air Industry

4) Identification Core processes to digitize including customs

5) Create a Proof of Concept

- Engage Regulatory bodies and small, medium and large airport users
- Include one cross border process and identify partner in another Air Cargo Community System

6) Assess proof of concept with the community

7) Role out Air Cargo Community System to all airport processes



NETWORK

OF TRUSTED NETWORKS

Connecting and sharing data globally between ports and cross border

Pilot Phase until Mid 2023

IPCSA's unique governance platform to support in the exchange of information cross border by creating mechanisms for contractual arrangements between all parties – it is not a Data Platform

“Facilitate a neutral, global, scalable and collaborative solution among PCS and Single Windows based initially on Track & Trace APIs, facilitated by IPCSA. To share and exchange data Port to Port and Cross Border and to simplify the associated administrative and technical solutions”

IPCSA Members as a whole operate in over 500 Sea and Air Ports in over 50 countries.



Principles



Governance Platform



Global Data Standards



Electronic Fee Negotiation



Encrypted Data



Allows for different business models



Low cost to Platforms and thus end users



Neutral & Not for Profit



Structured Contractual Flows



Digital Handshake



User Services & Platform Maintenance



Standard Platform APIs



Local Authentication

“Facilitate a neutral, global, scalable and collaborative solution among PCS and Single Windows based initially on Track & Trace APIs, facilitated by IPCSA. To share and exchange data Port to Port and Cross Border and to simplify the associated administrative and technical solutions”



Cross Border and Port to Port Exchange

IPCSA considered what we know and use everyday.....



Catalogue of Standards

Choice of Ports & Services

Encrypted Exchange

Port Community Systems

.....adapted them to allow for

Port to Port and Cross Border Exchange of Information between platforms for the benefit of their users

Initial API Catalogue



Portcall



Cargo Status



BIC Code



UN Locode



ISPS Code

Coverage



17 Countries



Over 50 Seaports



10 Airports

To come.....More APIs including Air Cargo data and Participants

<https://notn.ipcsa.international>

Current Participants Status



Fully Implemented looking to share data with Port of Antwerp-Brugges



Under implementation, delayed due to current crisis in Ukraine



Fully Implemented looking



Under implementation



Fully Implemented
Implementation ongoing and will look to Port of Antwerp-Brugges and Portnet for first exchanges. Linked to Belt & Road initiative



Under implementation



Under implementation



Fully Implemented and incorporated into the Trade Single Window in Morocco



Under implementation with a focus on Airports



Port of Antwerp Bruges

Fully Implemented

DUETs – Data driven Ukraine EU Transport solution – An initiative to support export and import of goods between Ukraine and the EU, currently under development with NoTN being the core to the data exchange

THANK YOU



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