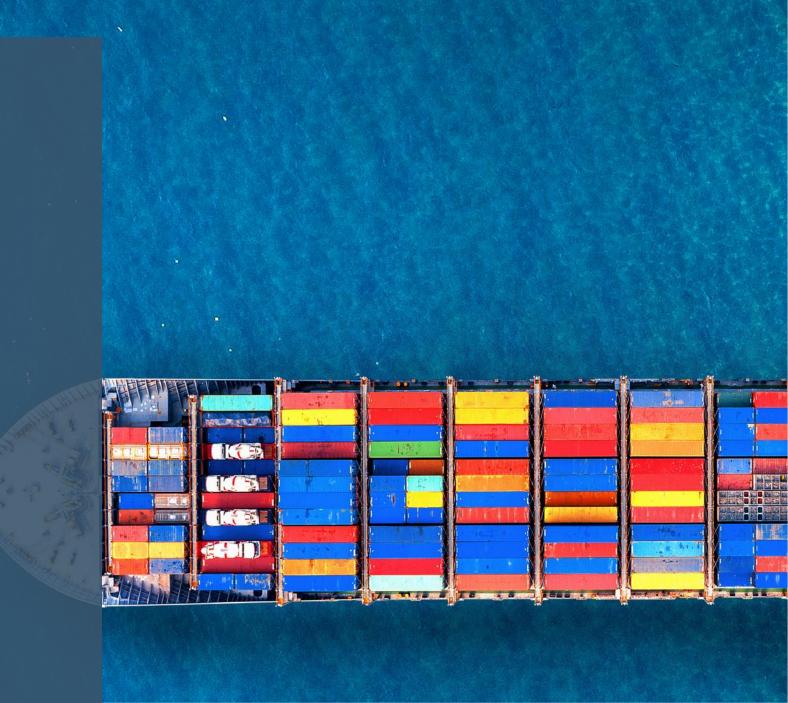


Supply Chain
Digitalization &
Opportunities in
BIMP EAGA

February 2023



How has ASEAN supply chain transformed?

**ASEAN** in Building Global Supply Chain Resilience

Selected Case Studies

# Agenda









#### BIMP EAGA

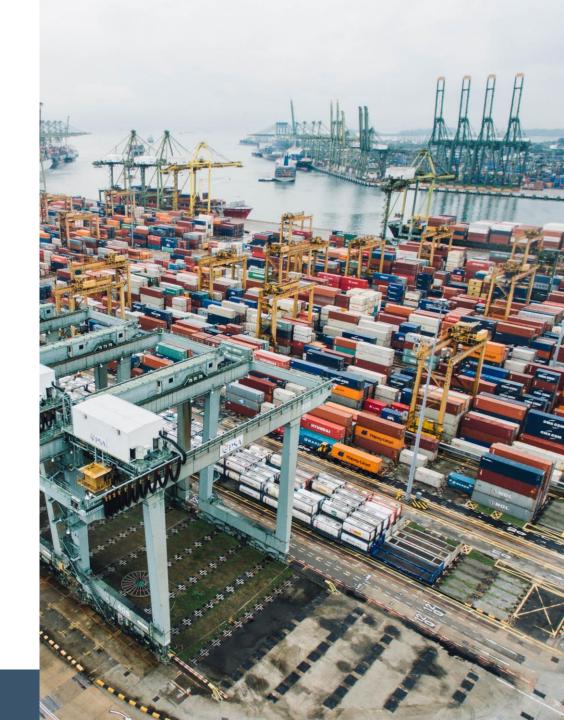
- Launched March 1994 in Davao City, BIMP-EAGA was formed by Brunei Darussalam, Indonesia, Malaysia and the Philippines to generate balanced and inclusive growth. As a sub-region of the Association of Southeast Asian Nations, it aims to contribute to regional economic integration in the ASEAN Economic Community.
- The BIMP-EAGA initiative boosts growth in trade, investments, and tourism through new intra-region shipping routes and air links as well as power interconnection projects. Other key areas of cooperation include agribusiness, tourism, the environment, and socio-cultural education.
- BIMP-EAGA 2025 Vision Resilient, Inclusive, Sustainable and Economically Competitive (R.I.S.E), Provides a way forward for members to continue narrowing development gaps, for sustainably managing natural resources, and for promoting stronger connectivity.



### BIMP-EAGA Digitalization

#### **Key Facts**

- ASEAN is expected to lead the world in terms of export growth 2021 - 2026, followed by South and Central Asia.
- Southeast Asia's digital economy is on track to grow 20% to nearly USD200 billion in gross merchandise value (GMV) by the end of 2022 (3 years earlier than was expected).
- \$1-Trillion Digital Economy in Southeast Asia by 2030 -There are now 440 million internet users in Southeast Asia, with 40 million new users added every year since 2019.
- Internet penetration in the region is estimated at 75%.
- Majority of new users are from non-metropolitan areas.



### **ASEAN Countries**

#### **Role in Global Trade**

- Significant a, commodity b, natural resources
- Malaysia & Indonesia combined produce 85% of the world's crude palm oil, the major edible oil consumed in China and in India.
- ASEAN countries are also responsible for about 80% of global rubber production.
- Malaysia and Indonesia have oil reserves of 9bn barrels.
- Indonesia coal reserves of more than 4,000mn tonnes and has become one of the key suppliers of thermal coal to both India and China, two of the world's fastest growing energy markets.
- ASEAN **GDP** projected to grow from USD 1.7 Trillion in 2010 to USD 4 Trillion in 2025.
- High tech hub(s) Singapore



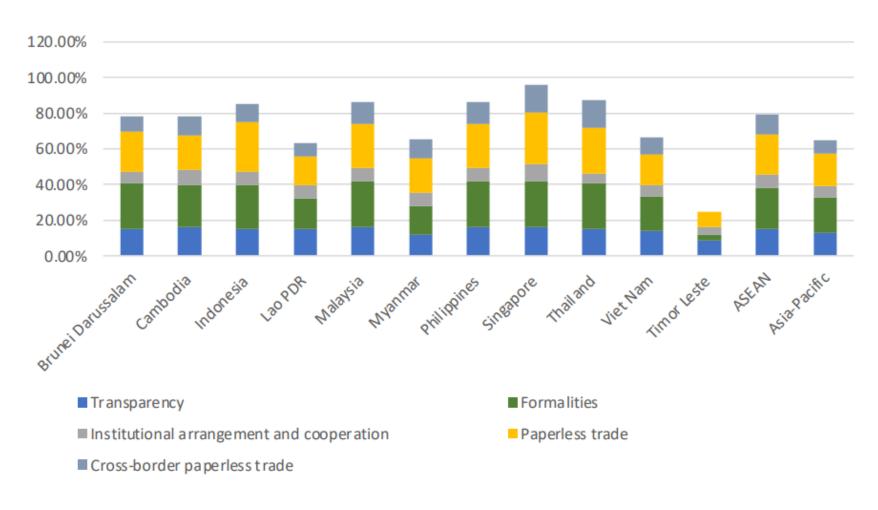
### **ASEAN Countries**

#### **Challenges in Supply Chain**

- Systemic inefficiencies e.g. complex tax regime
- E-commerce regulations
- Custom Protocols
- Difficult-to-navigate **logistics-supply** markets
- Manual collection of inventory data
- Low-to-no tracking of local (ocean) vessels



## How has ASEAN supply chain transformed?

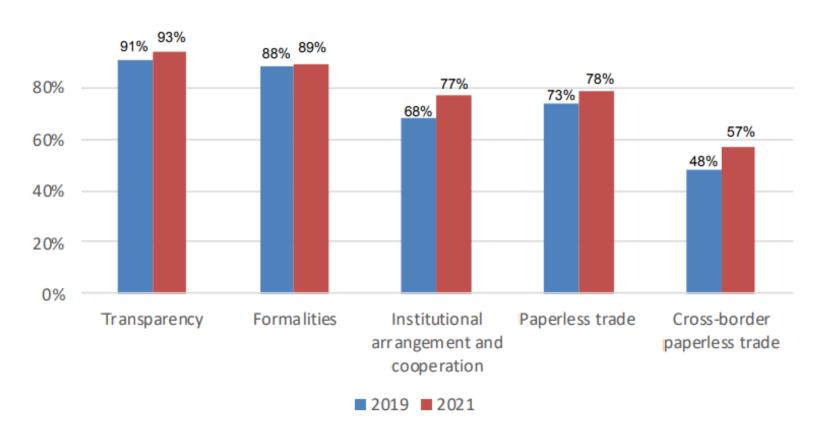


Source: UN Global Survey on Digital and Sustainable Trade Facilitation 2021, untfsurvey.org.



## How has ASEAN supply chain transformed?

Average implementation of different subgroups of trade facilitation measures by ASEAN Member States between 2019 and 2021



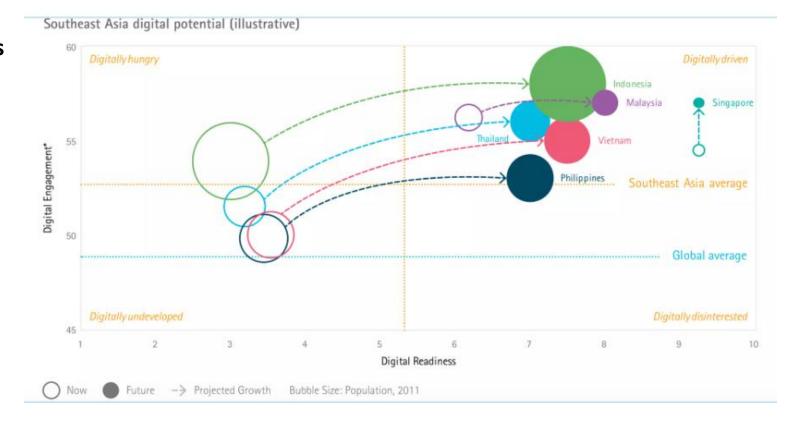
Source: UN Global Survey on Digital and Sustainable Trade Facilitation 2021, untfsurvey.org.



## Role of ASEAN in Building Global Supply Chain Resilience

#### **5 Immediate Trends**

- Investment in supply chain technologies
- Real-data insight
- Lean supply chain
- Talent Development
- Sustainability and resilience



## Example 1: Al- ML - Sustainable Path of Green Sweaters





## Example 2: Port –terminal Congestion

Less predictability of Traffic Flow in Terminals leads to an impact in motor carrier productivity and efficiency



Congestion and delays at ports and terminals due to limited visibility into truck arrival times

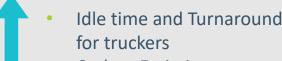
No Single Source of Truth for booking and managing appointments



Multiple systems across terminals and DCs require manual efforts in data and stakeholder management

Trucker Impact





- Carbon Emissions
- Detention and Demurrage



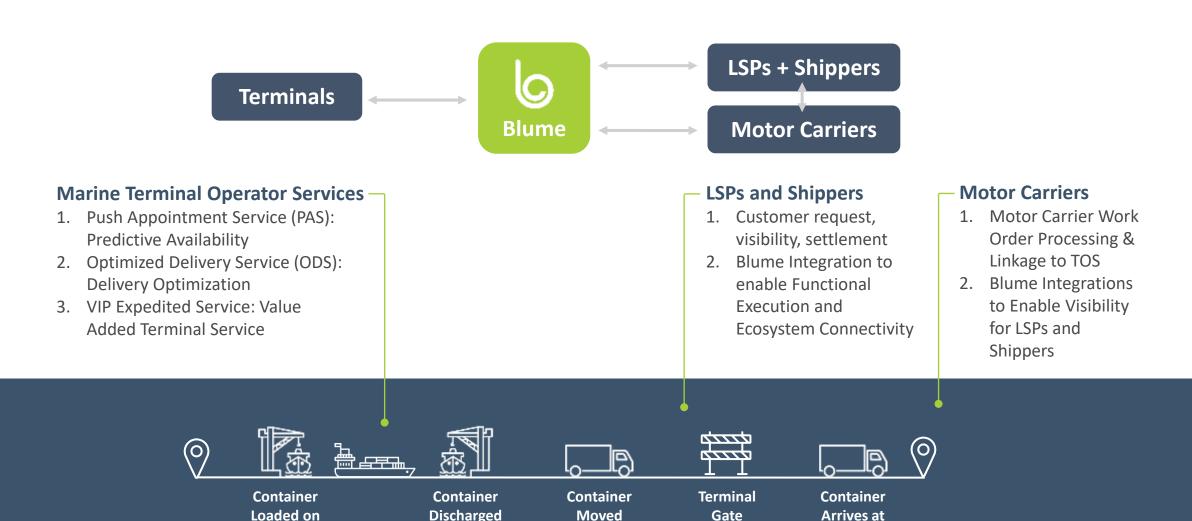
- Driver satisfaction
- Carrier Productivity and Efficiency



## Example of a Terminal Solution

Vessel

A digital partnership to increase terminal predictability and velocity for shippers and their carriers

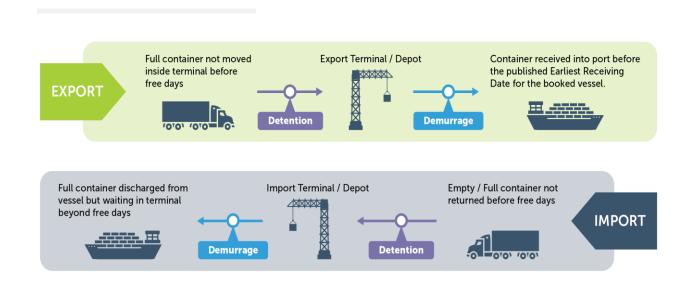


from Vessel

Destination

## Example 3: Detention & Demurrage Challenges

#### **Surging Fees Negatively Impacting Profit Margins**



- Detention & Demurrage charges surged by
- 12% in 2022 higher than pre-pandemic levels
- \$650+ per container Average Detention & Demurrage charge globally
- \$2,600+ per container Average Detention & Demurrage charge at major US ports

Source: Supply Chain QUARTERLY

- Significant congestion and lack of visibility at seaports, airports and rail ramps in today's supply chain, logistics service
  providers are incurring avoidable demurrage fees
- Shortage of drivers and chassis are causing containers to be stuck in seaports and rail ramps and incurring demurrage
- Constantly shifting Early Return Dates (ERD) are causing exporters avoidable demurrage costs at seaports and rail ramps
- Difficult to identify root cause of detention and demurrage charges resulting in payment of disputable fees





Blume Global is delivering the only intelligent digital operating platform to orchestrate global supply chain processes through a digital map of the supply chain world

10,000+

Logistics Companies on the Network

1.5M+

Intelligent Locations

170+

Countries

\$300MM+

Investment in R&D

1,100

Terminals & Depots

6

North American Class 1 Railroads

### **Gartner**

Magic Quadrant for Real-Time Transportation Visibility Platforms (2022)

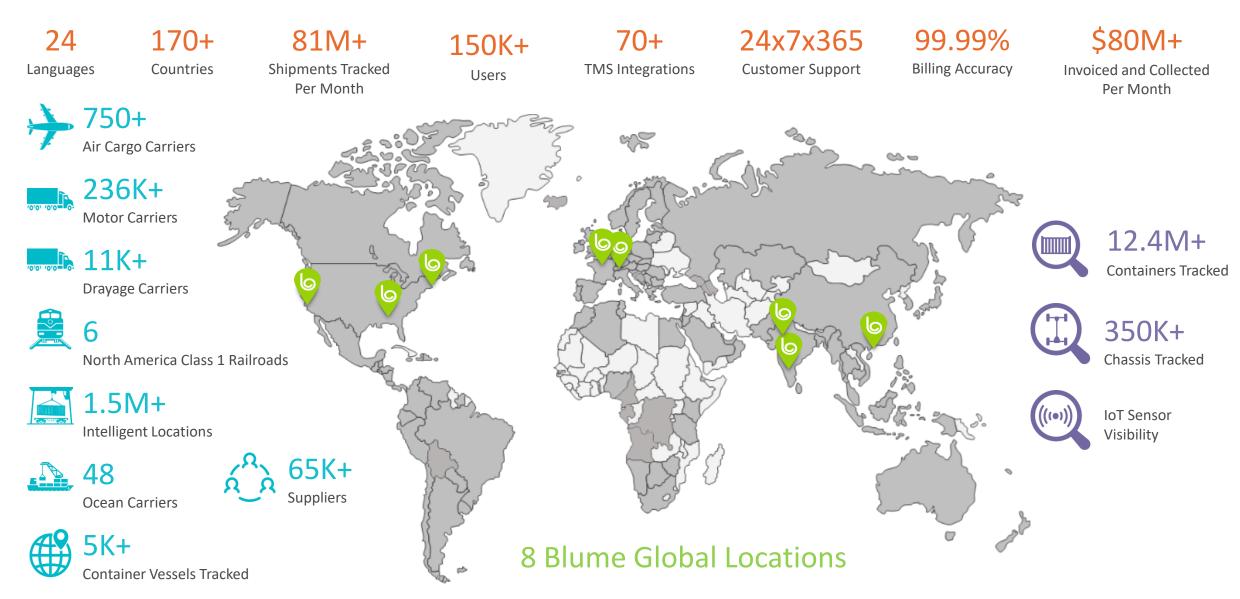
- Global presence:
- Carrier networks:
- Data quality:
- Usability & user experience:





**On Google Cloud Platform** 

### Blume Global Network





## Blume Maps Provide Intelligent Locations and Routes

#### **Digital Mirror of the Supply Chain World**

#### 1. Predict Lead Time

Before the order ships, **plan optimal routes** using a variable lead time with costs implications. Monitor any changes as scheduled ship date approaches

#### 2. Real-Time Visibility

Ensure orders are traveling on time and know when orders may be late or early (tracking)

#### 3. Alternate Paths

**Change routes** instantly with options to expedite orders through locations



Route Intelligence

Location Intelligence

Schedule Intelligence

Blume leverages the industry's largest multi-modal carrier network, combining data and location intelligence, to understand the experience of other carriers traveling ahead on the same or similar routes. This enables Blume to forecast potential delays impacting ETA's, using AI/ML based models.



Components

# Terima Kasih!

