



Session IV: Advancing Single Window Interoperability

Single Windows & Regional Interoperability – Trends and Considerations

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■ AGENDA

- New trends on Trade Facilitation and Single Windows
- New trends on Interoperability of Single Windows
- Lessons learned from Asian countries experiences and opportunities and challenges ahead
- Examples of new developments of SW in Asia
- International Regulatory framework for advancing interoperability
- How to advance interoperability: recommendations on how to structure a project and develop a Roadmap

■ AGENDA

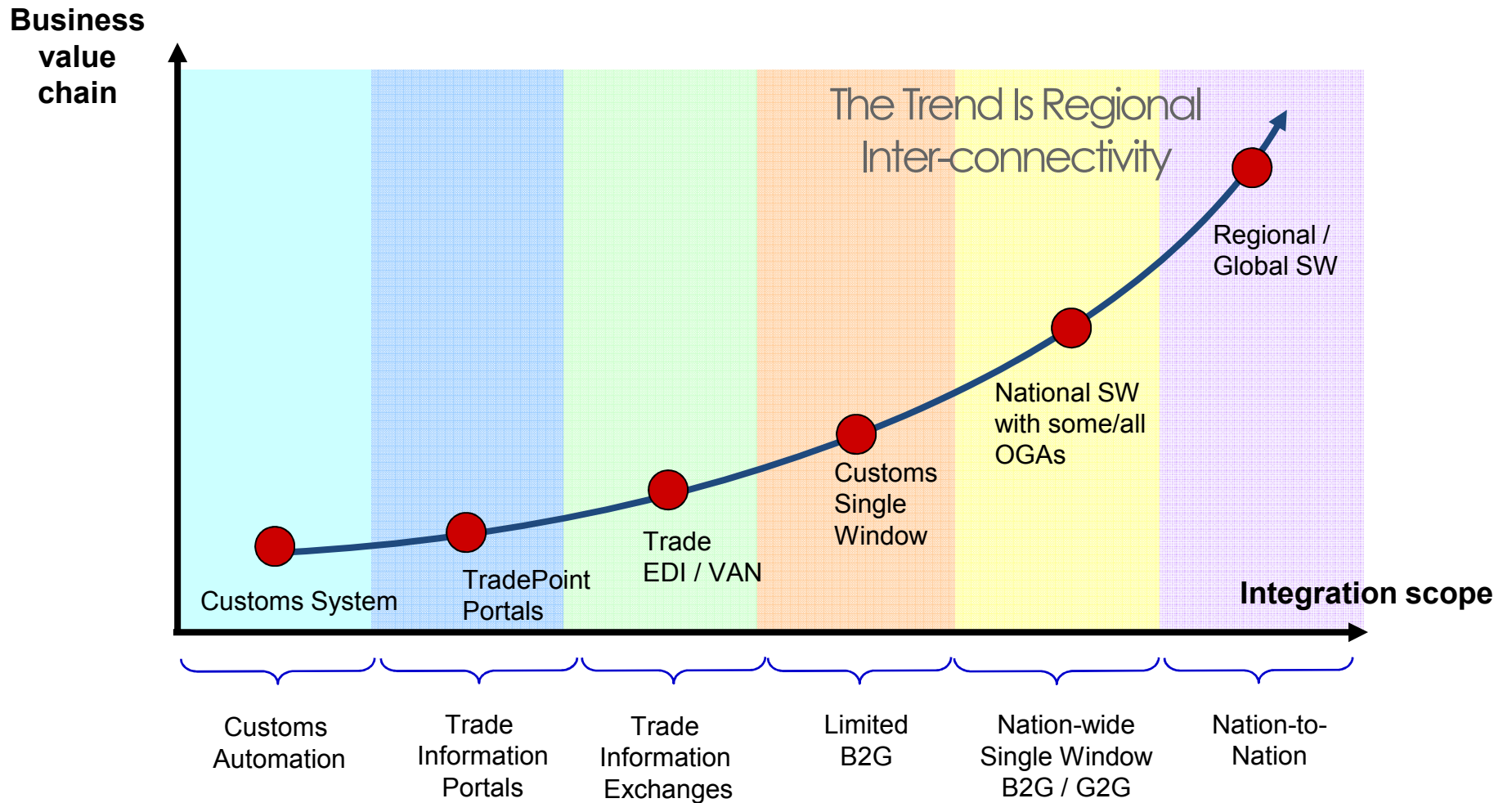
1. Connectivity is the Next Step

2. Examples of Regional Interoperability

3. Considerations for Red VUCE

Connectivity is the Next Step

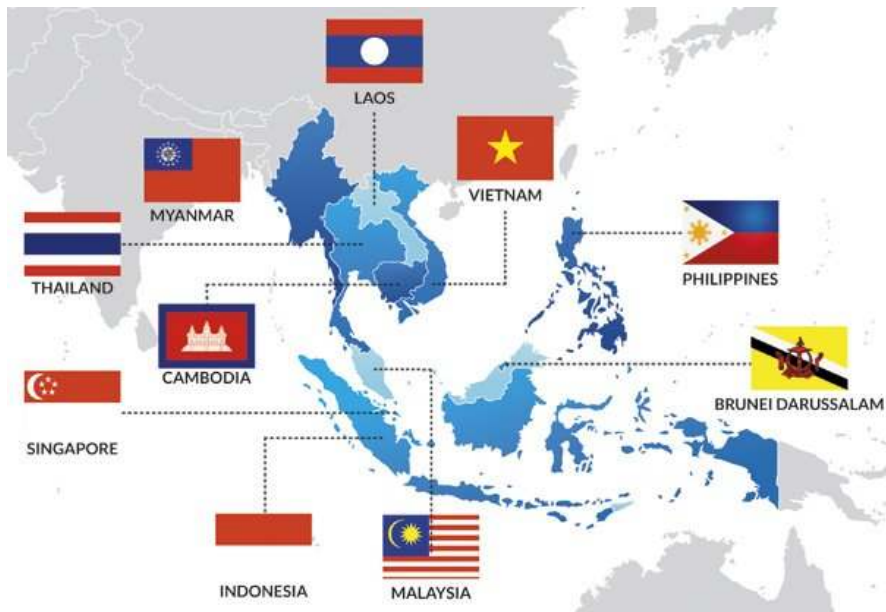
EVOLUTION OF SINGLE WINDOW



Regional Interoperability – **ASEAN SINGLE WINDOW**



ASEAN SINGLE WINDOW (ASW)



The 10 ASEAN nations – Brunei, Cambodia, Indonesia, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Vietnam.

On the 9th Dec 2005, the **Agreement to Establish and Implement the ASEAN Single Window**

ASEAN SINGLE WINDOW DEFINITION

“ The ASW is the **secured environment where National Single Windows (NSWs) integrate and operate**. The ASW constitutes a regional facility to enable a seamless, standardized and harmonized routing and communication of trade and customs-related information and data for customs clearance and release from and to NSWs. **Trade and related customs data and information will stay within, and belong to respective Member States.**”

where;

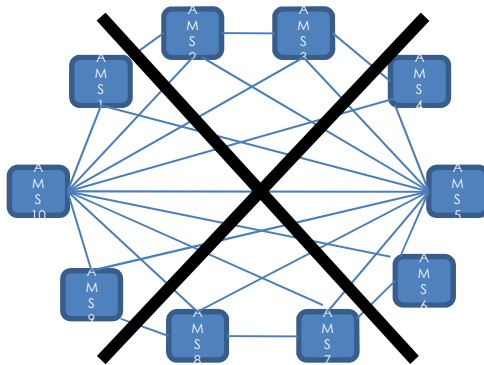
“The **National Single Window** is a system which enables:

- a **single submission of data and information**;
- a **single and synchronous processing of data and information**; and
- a **single decision-making for customs release and clearance**.

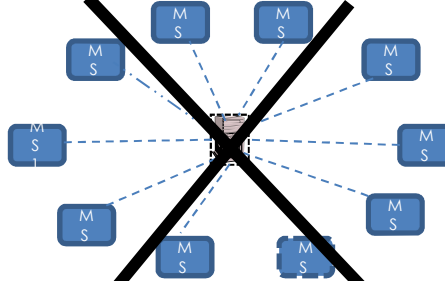
CONNECTIVITY OPTIONS

Virtual Network (Https, IP/VPN)

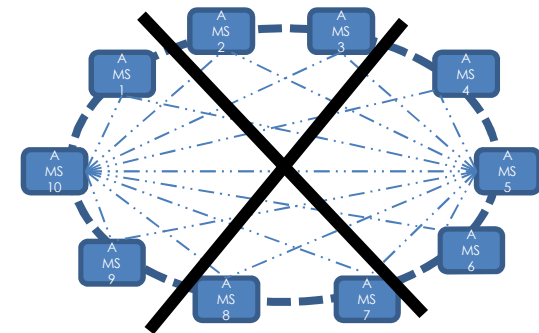
Bilateral Approach :
Point-to-Point Leased
Line Connectivity



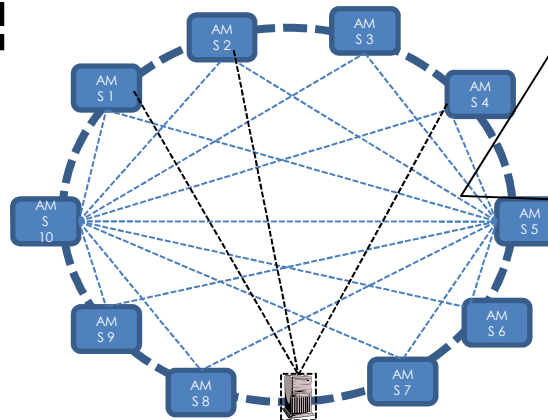
Centralized
system/server



Decentralized System

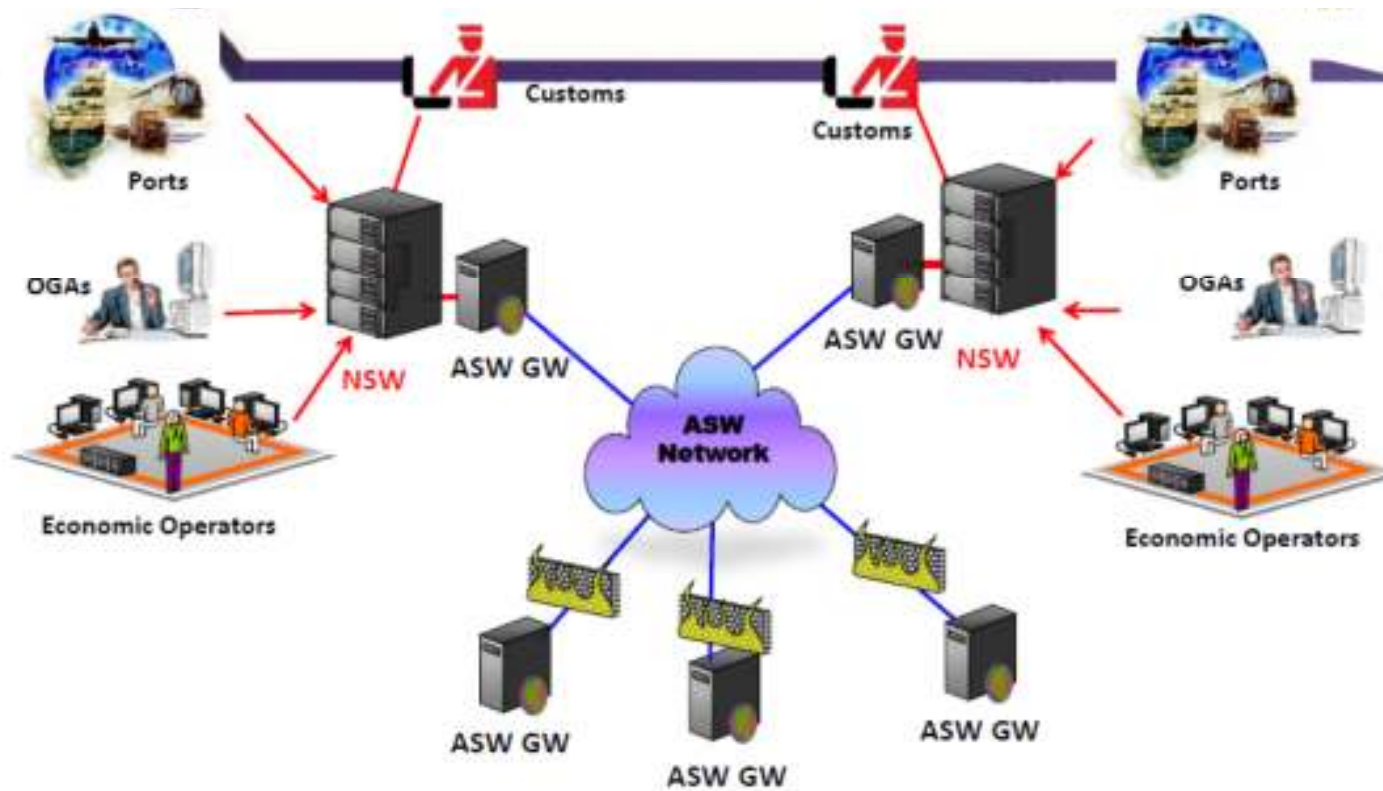


- ✓ Data to be routed from country to country without being stored at one place
- ✓ IPVPN enabled secured data exchange between countries in a secured environment

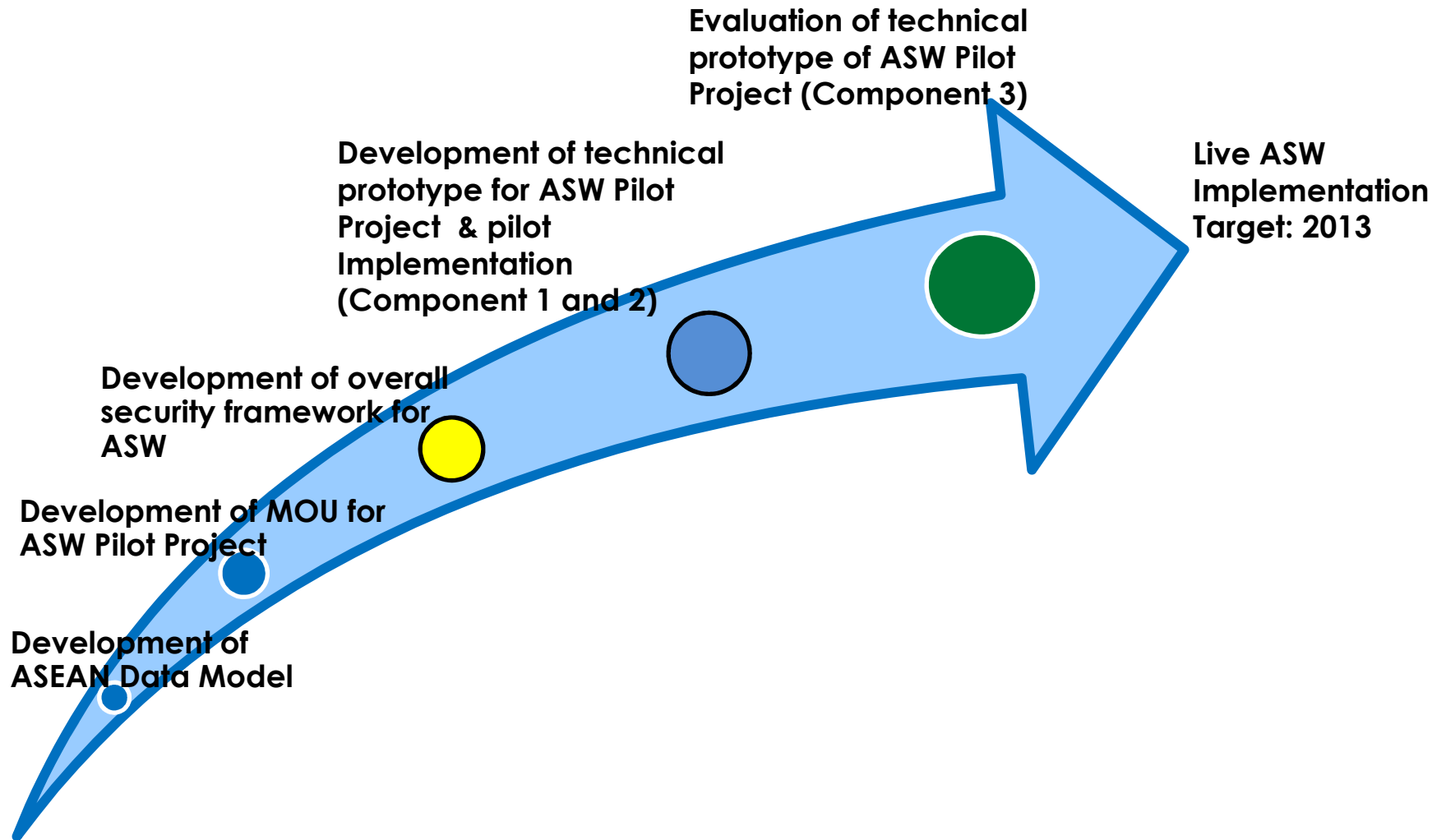


A **combination of centralization and decentralization** whereby **sensitive data such as trade data does not go through a centralized gateway residing in a central server**. A central server may be required for hosting non-confidential/non-sensitive data such as common reference code list, ANTH etc and some central facility for general enquiry, transaction volume monitoring etc

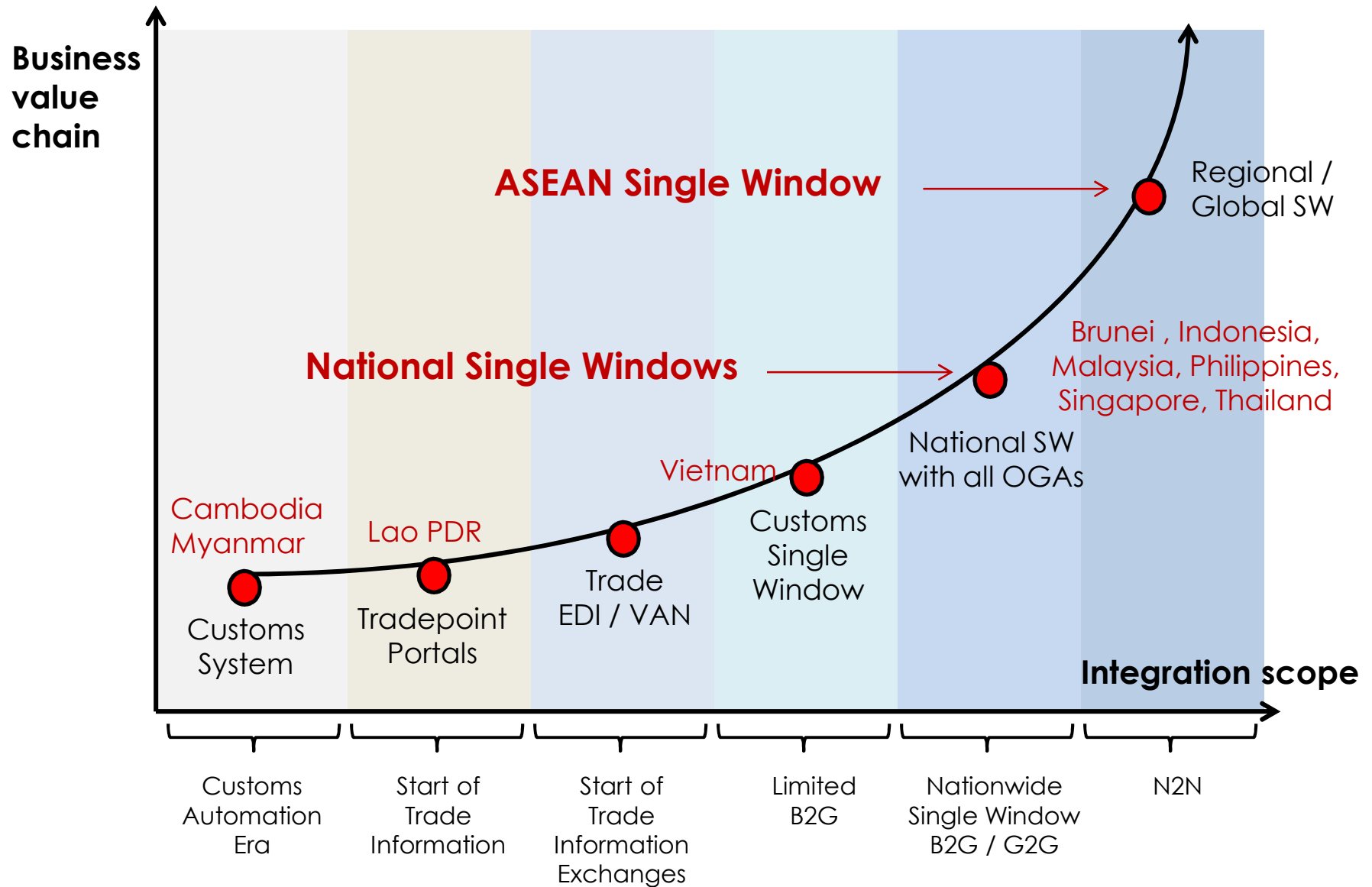
ASW CONNECTIVITY



ASW DEVELOPMENT ROADMAP



ASEAN NSWs



■ CHALLENGES

1. Implementation strategy plan needs to take into consideration **Member States' level of readiness** in terms of IT infrastructure , national policies and procedures
2. **Trust** could be lacking and view/recommendation from independent experts tend to be more acceptable by ASEAN Member States
3. **Financial constraint** remains an issue and implementation of projects is very much dependent on external funding

Regional Interoperability –
**UN Economic and Social Commission for
Asia and the Pacific (UN ESCAP)
Resolution 68/3**



OVERVIEW OF ESCAP RESOLUTION 68/3

- ❖ Invites member States to work towards the development of regional arrangements on the facilitation of cross-border paperless trade
- ❖ And, request the Executive Secretary to:
 - 1) support and facilitate the process for the development of regional arrangements on the facilitation of cross-border paperless trade, including by conducting studies, developing potential options, and and in this regard to present its results to the Committee on Trade and Investment at its third session
 - 2) ensure that the regional arrangements take into account and are consistent with the existing international and regional agreements, mechanisms, and undertakings...
 - 3) continue and further strengthen the secretariat's support for capacity-building activities

UN/ESCAP RESOLUTION 68/3

ESCAP Resolution 68/3: Enabling paperless trade and the cross-border recognition of electronic data and documents for inclusive and sustainable intraregional trade facilitation

- Adopted at the 68th ESCAP Commission Session: May 2012
- ESCAP develops a **Regional Arrangement** for the facilitation of cross-border paperless trade, and further strengthens its capacity building support to member states in paperless trade, in cooperation with other development partners.
- The objective of this Arrangement/Agreement is to promote cross-border paperless trade by enabling exchange and mutual recognition of trade-related data and documents in electronic form and facilitating interoperability among national and subregional Single Windows and other paperless trade systems.
- This Arrangement/Agreement applies to paperless trade between the Parties.

UN/ESCAP RESOLUTION 68/3

Key Features of the Regional Arrangement

- A set of Principles on which to base future cross-border paperless trade implementation efforts.
- A multi-layered institutional arrangement as an operating platform.
- A comprehensive action plan (to be developed jointly by the signatories):
- The collective implementation of the action plan is expected to result in the emergence of **practical standardized solutions and protocols for cross-border paperless trade**.
- Action plan would include development of:
 - technical and legal measures,
 - detailed actions for designing pilot projects and subsequent actual projects,
 - capacity building support and information and
 - experience sharing activities among members, etc.

Regional Interoperability – Private Sector Efforts by Pan Asia E-Commerce Alliance



PAN ASIA E-COMMERCE ALLIANCE (PAA)



- The first regional cross border paperless trading and customs clearance facilitation alliance in Asia
- Established in July 2000 by Trade-Van of Taiwan, Tradelink of Hong Kong SAR and Crimsonlogic of Singapore
- Currently 11 members

Current Members

1. CAT – Thailand
2. CIECC – China
3. CrimsonLogic – Singapore
4. Dagang Net –Malaysia
5. KTNET – Korea
6. InterCommerce - Philippines
7. NACCS – Japan
8. PT EDI - Indonesia
9. TEDMEV - Macao SAR
10. TradeVan - Chinese Taipei
11. TradeLink - Hong Kong SAR

PAN ASIA E-COMMERCE ALLIANCE (PAA)

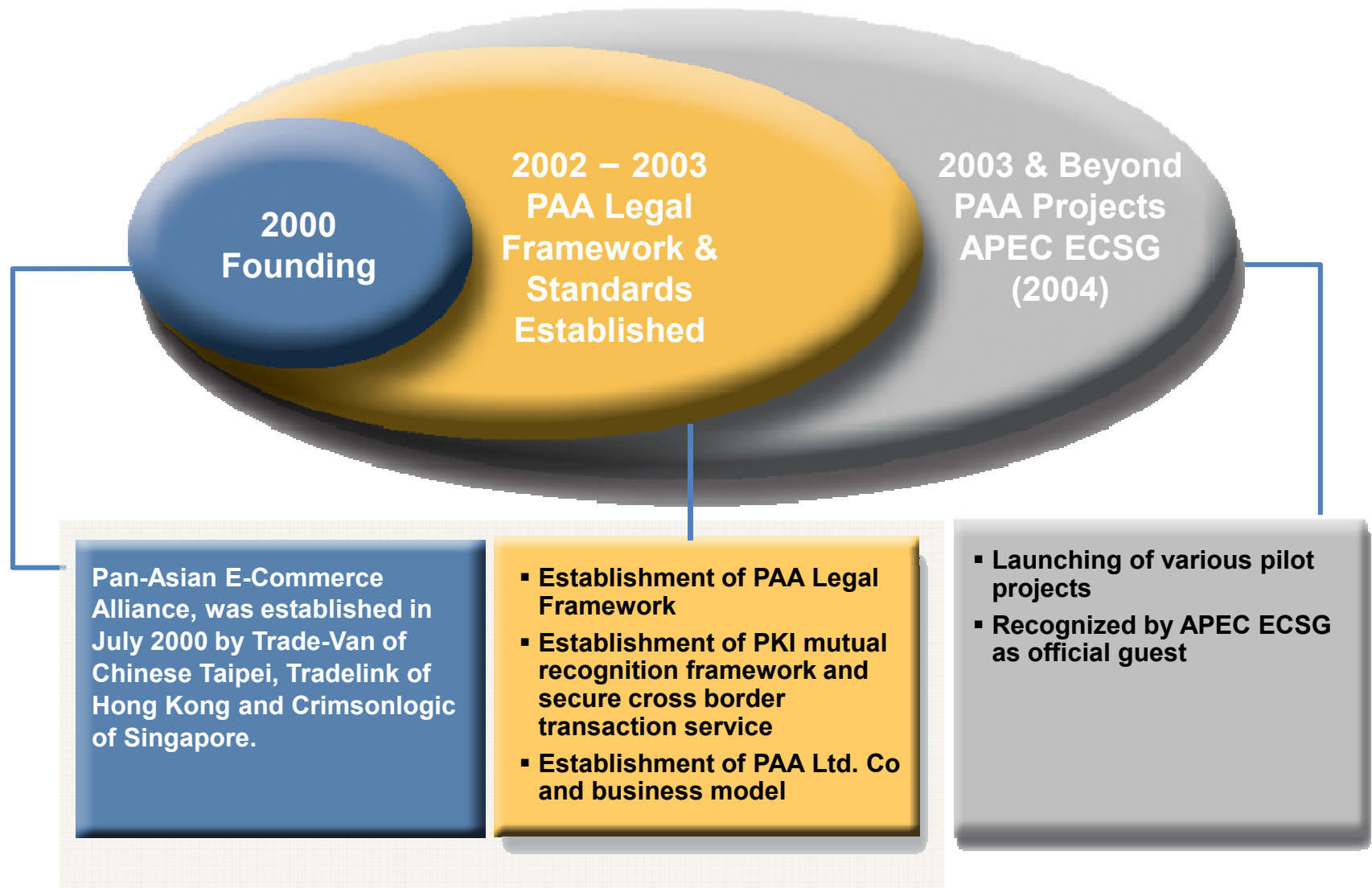
PAA Mission

- To enable secure and reliable transmission of trade and logistics documents.
- To allow inter-connection of network services to provide e-Commerce transaction application services for the business community.
- To create a Pan-Asian portal to enable global B2B connection and communication.

PAA Members' Common Strengths

- PAA members are local market leaders in e-commerce
- Strong & close relationship with local government
- Mass customer base
- Long years of experiences on electronic document exchange
- Cross border document exchange can go through PAA network and be input into domestic government system

PAA MILESTONES

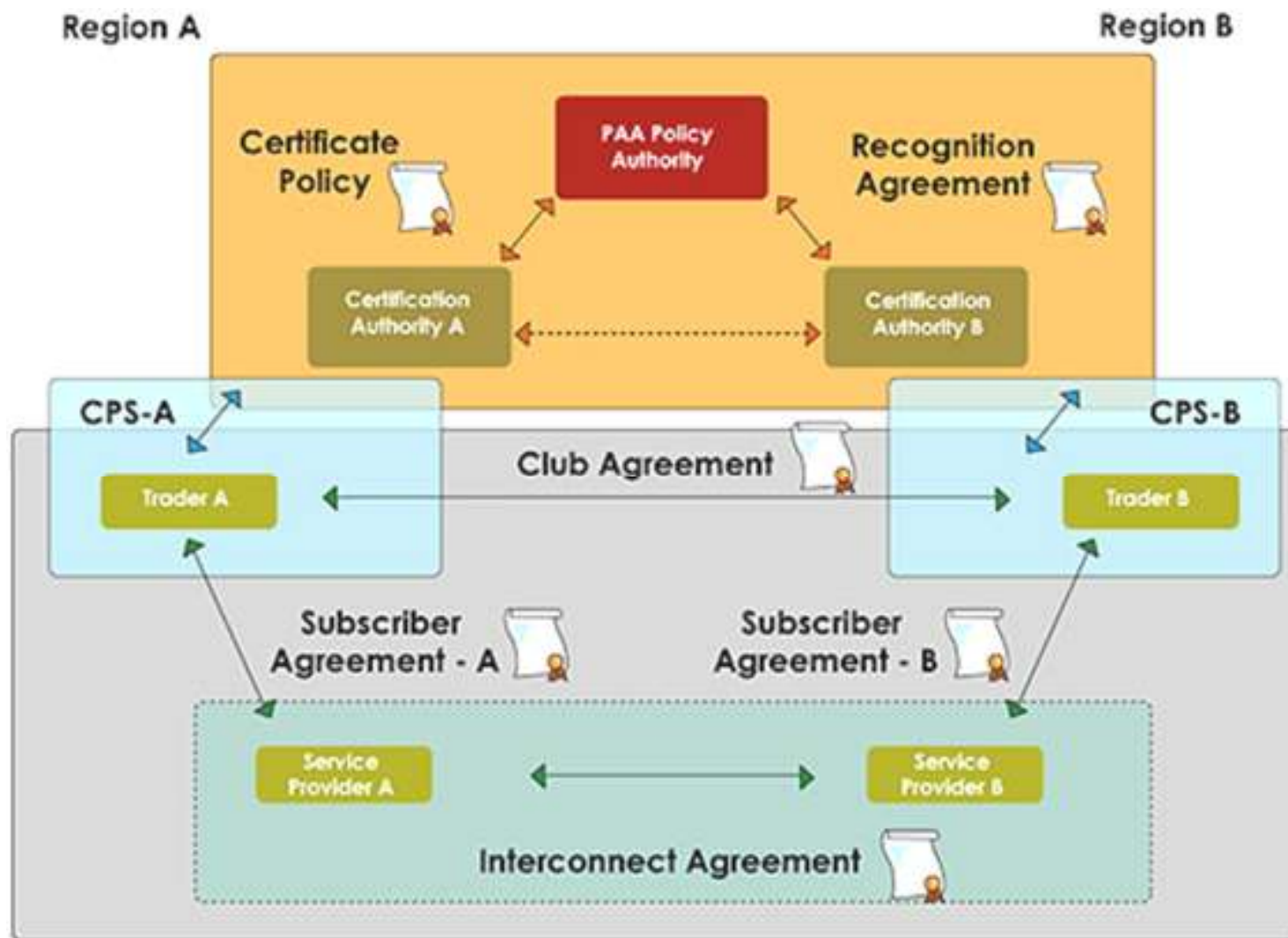


PAA LEGAL FRAMEWORK

PKI Mutual Recognition

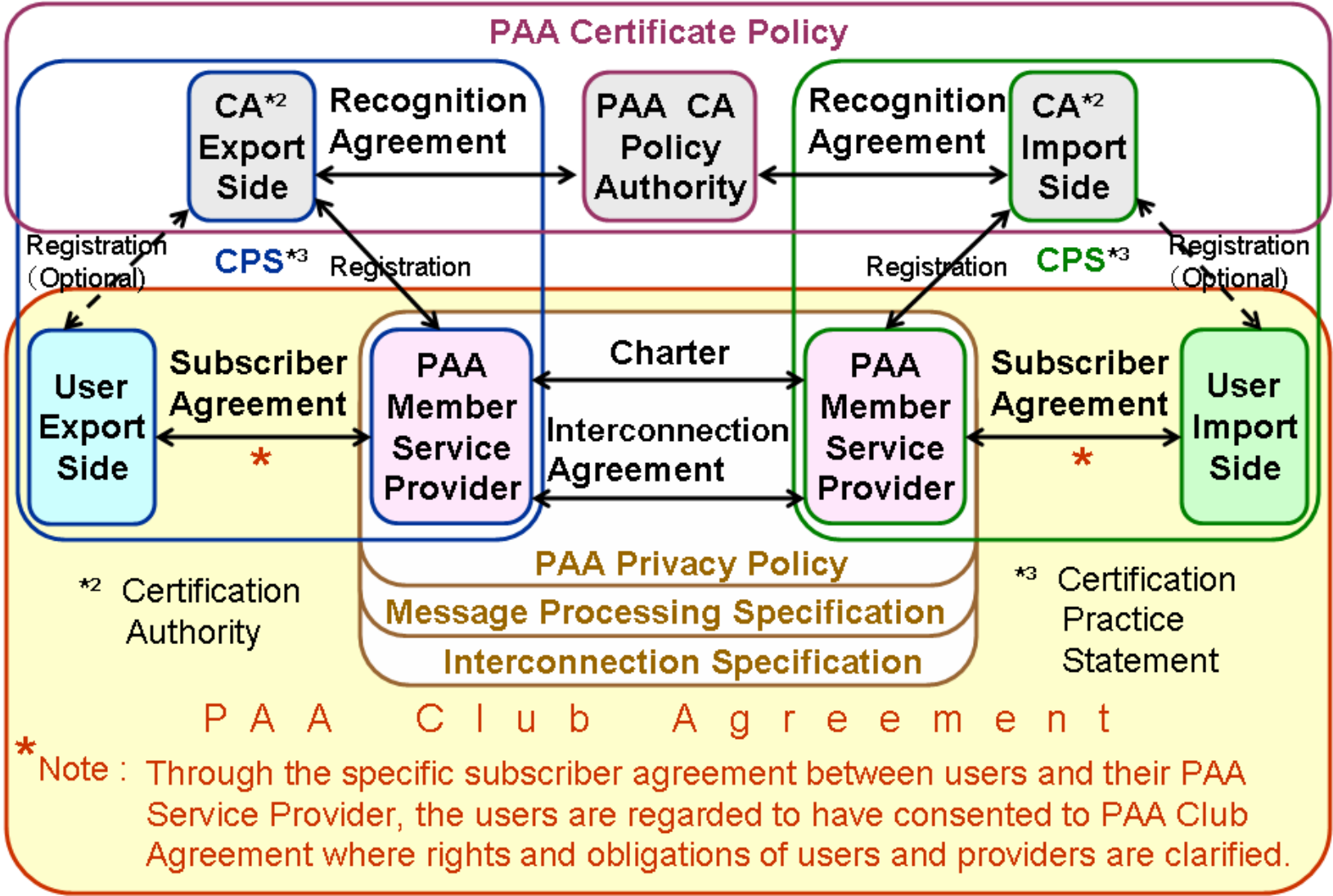
CA Service

Secure Cross-Border Transaction Services



PAA LEGAL FRAMEWORK

↔ Signed Agreement



PAA LEGAL FRAMEWORK

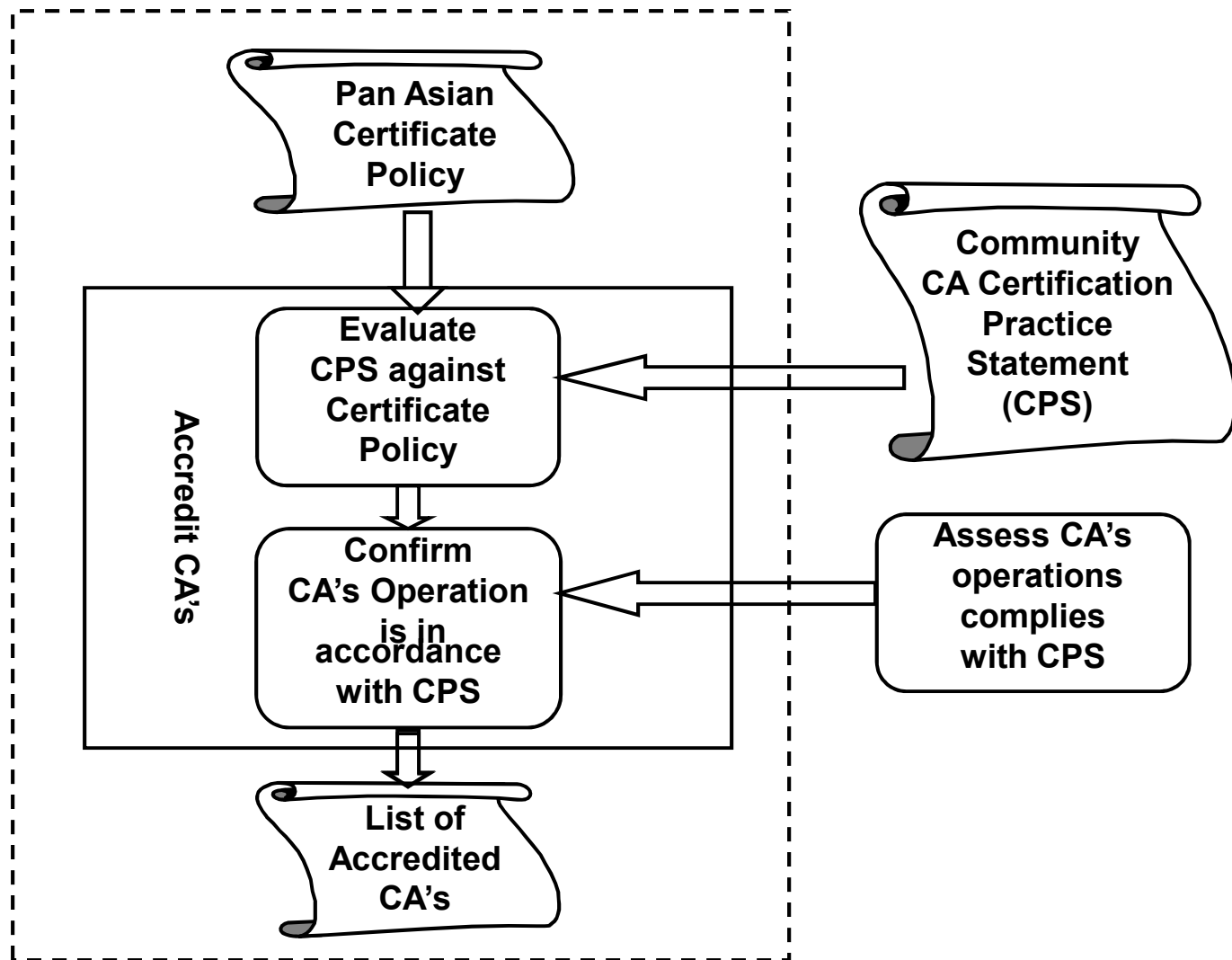
Topics covers by **PAA Club Agreements** are as below:

- Ownership of Data Messages or Electronic Records
- Translation and Conversion of Data Messages and Electronic Records
- Data Messages and Electronic Records
- Standard Document Templates
- PAA Club Member Register
- Subscriber's Obligation & Indemnity
- Confidentiality
- Security
- Data Privacy

Topics covered by the **PAA Interconnection Agreements** are :

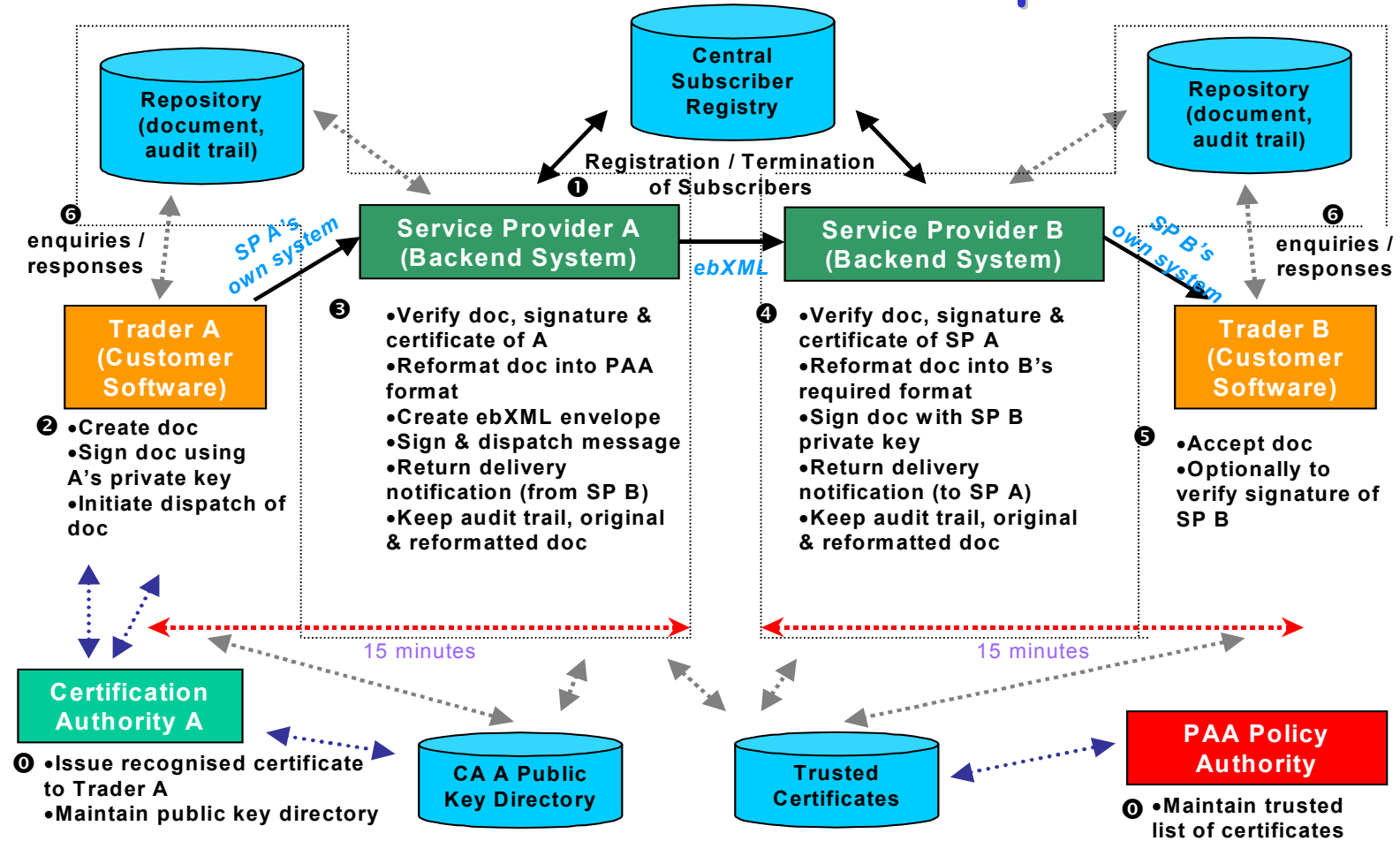
- Security of Data
- Transmission and Authenticity of Message
- Integrity of messages
- Confirmation of Receipt of Messages
- Storage and Retrieval of Data
- Data Ownership
- Revenue Sharing and Payment
- Liability
- Audit
- Technical specification and requirements

PAA MUTUAL PKI RECOGNITION – CERTIFICATE POLICY AUTHORITY

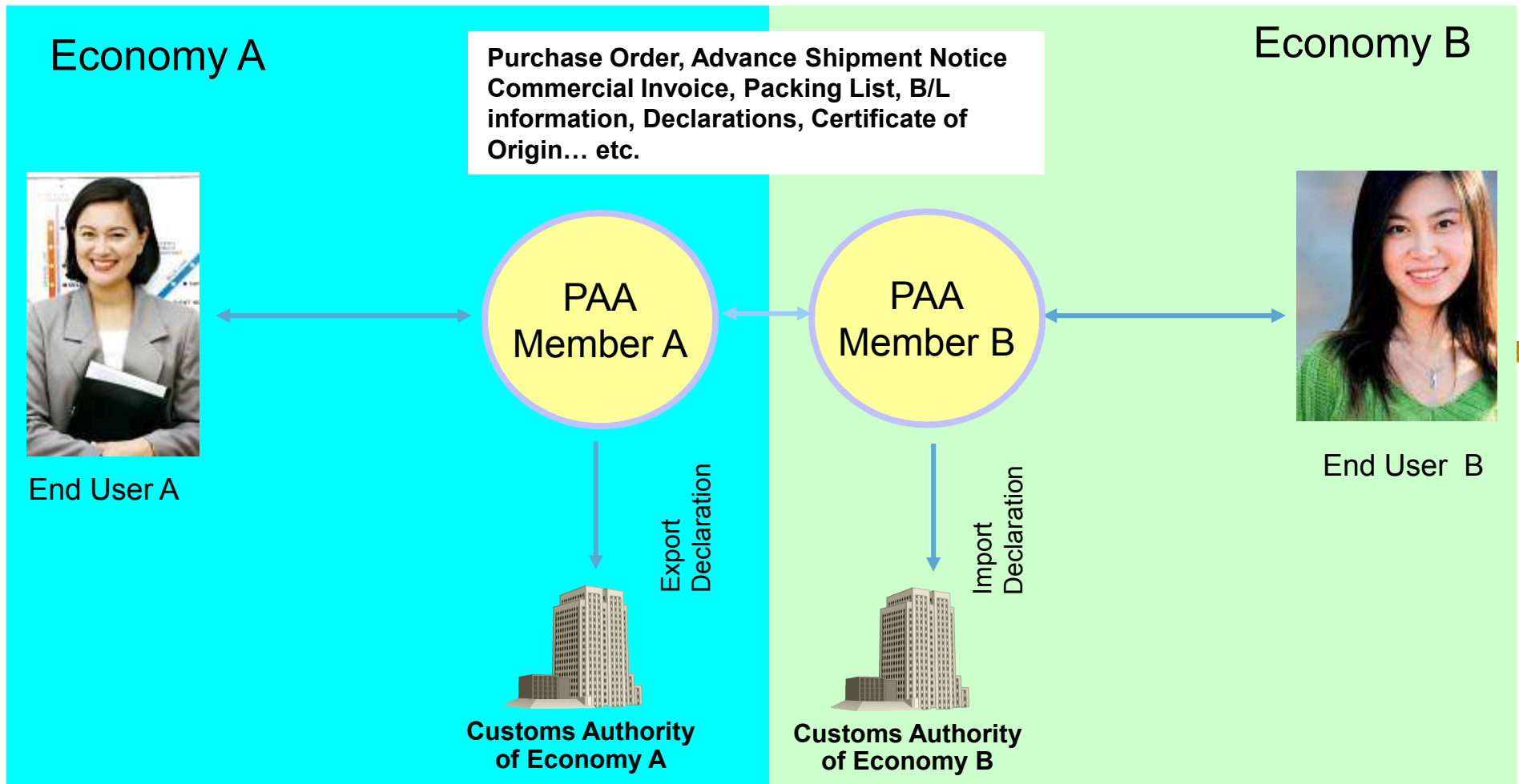


PAA TRANSACTION SERVICE OPERATION

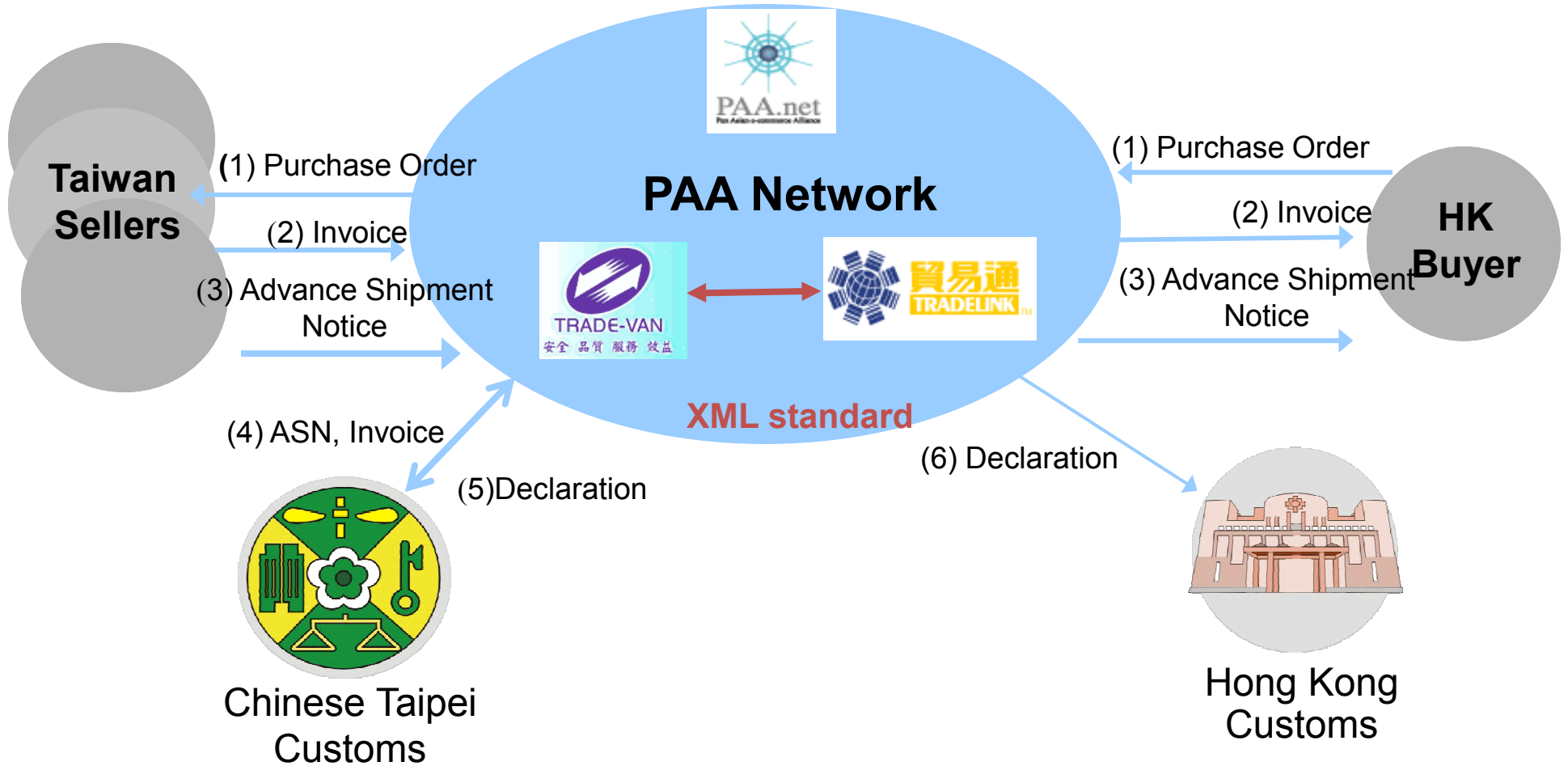
PAA Transaction Services Operation



PAA CROSS BORDER TRANSACTIONS



PAA CROSS BORDER TRANSACTIONS – B2B TRANSACTIONS

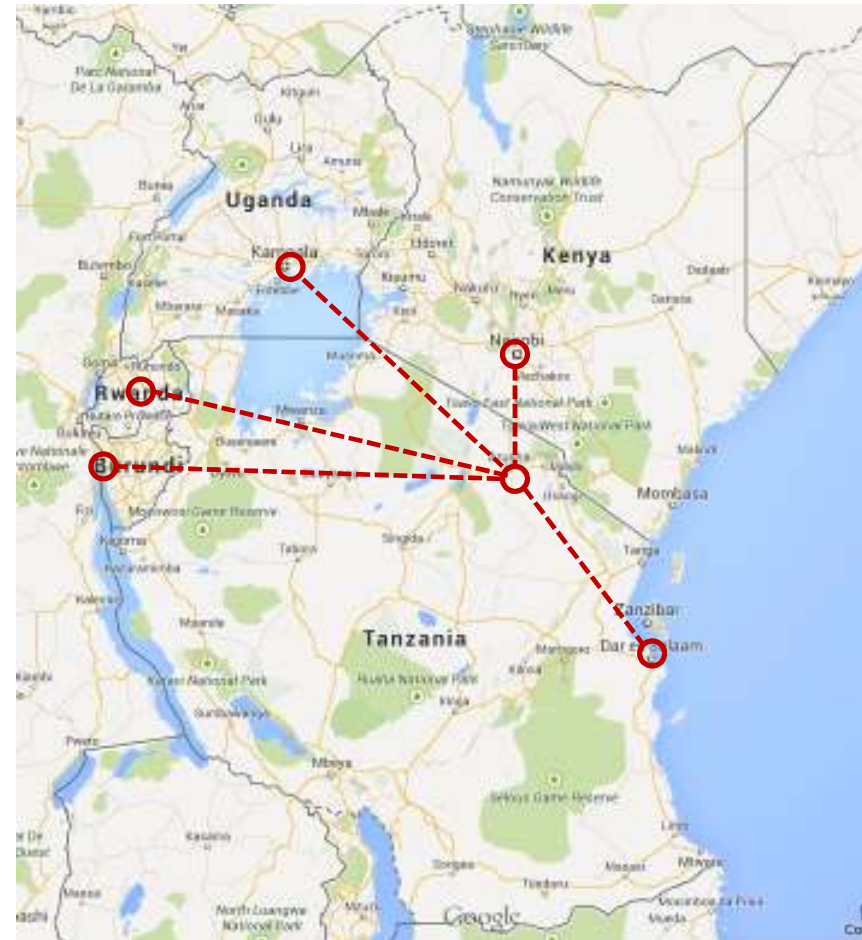


Regional Interoperability – Examples of Customs to Customs Connectivity

REVENUE AUTHORITIES DIGITAL DATA EXCHANGE (RADDEX)

Who are involved:

1. The 5 countries of East African Community – Burundi, Kenya, Rwanda, Tanzania, and Uganda.





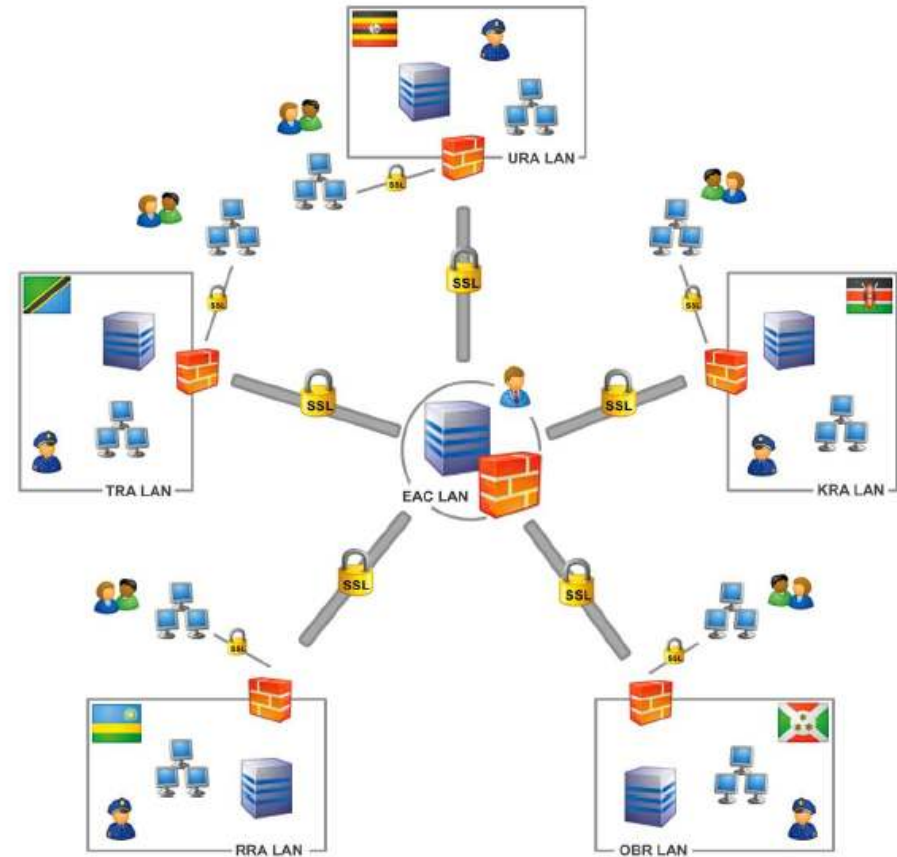
REVENUE AUTHORITIES DIGITAL DATA EXCHANGE

1. The Revenue Authorities Digital Data Exchange (RADDEx) 2.0 is a regional customs information exchange platform. It allows near real-time transmission of customs documentation to authorized public and private sector users that are working at key transit border posts and cities across the five countries of the East African Community (EAC).
2. This regional connectivity in customs greatly contributes to more efficient and paper free processes at borders as well as creating a transparent trading environment. As a result of increased efficiencies in customs clearing processes through the use of this system, private sector shippers are anticipated to save over US \$ 50 million per year in reduced transit times at borders.

REVENUE AUTHORITIES DIGITAL DATA EXCHANGE

What is exchanged:

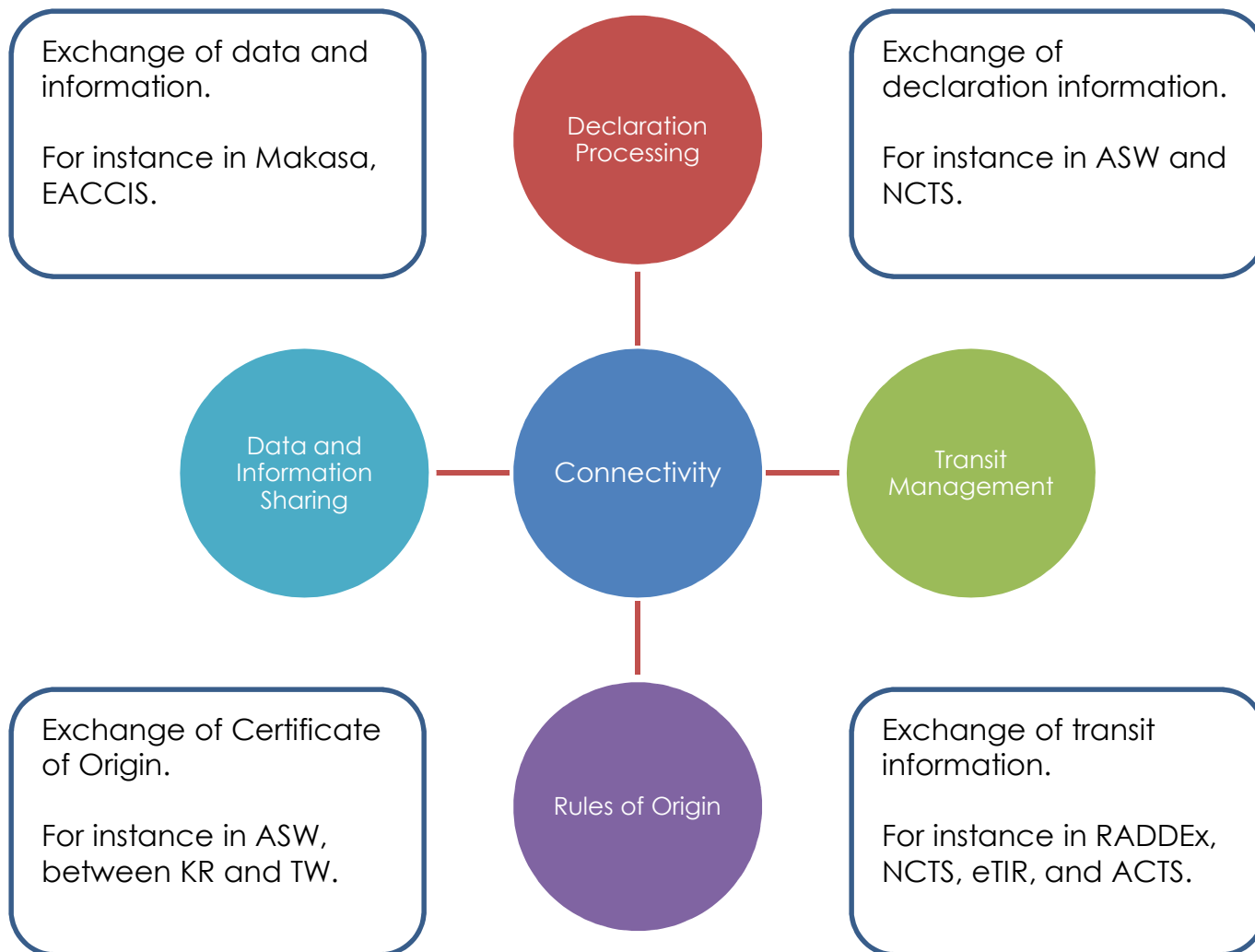
1. Goods declaration information for goods that are in transit between the EAC member countries.



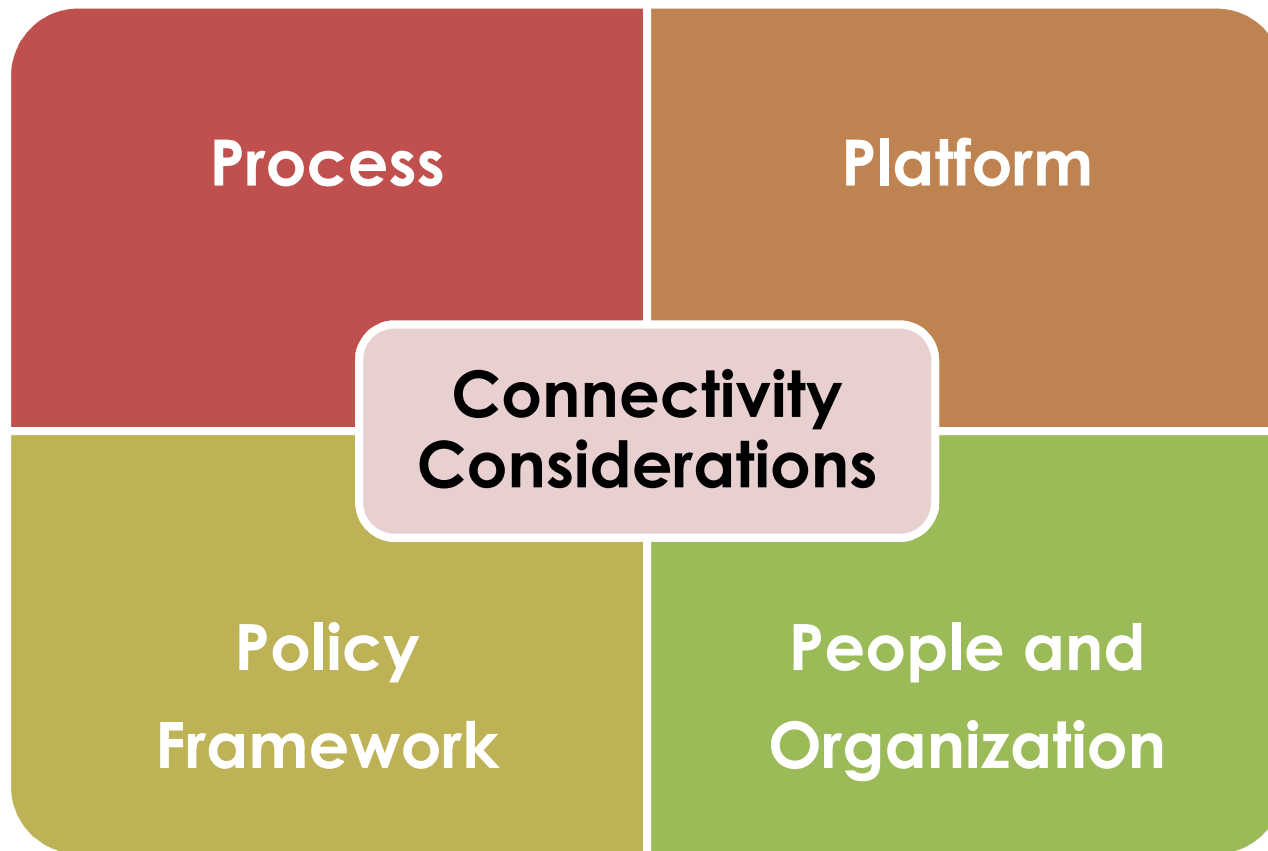
The Way Forward
- Considerations / Suggestions for
Red VUCE



KEY AREAS OF CONNECTIVITY



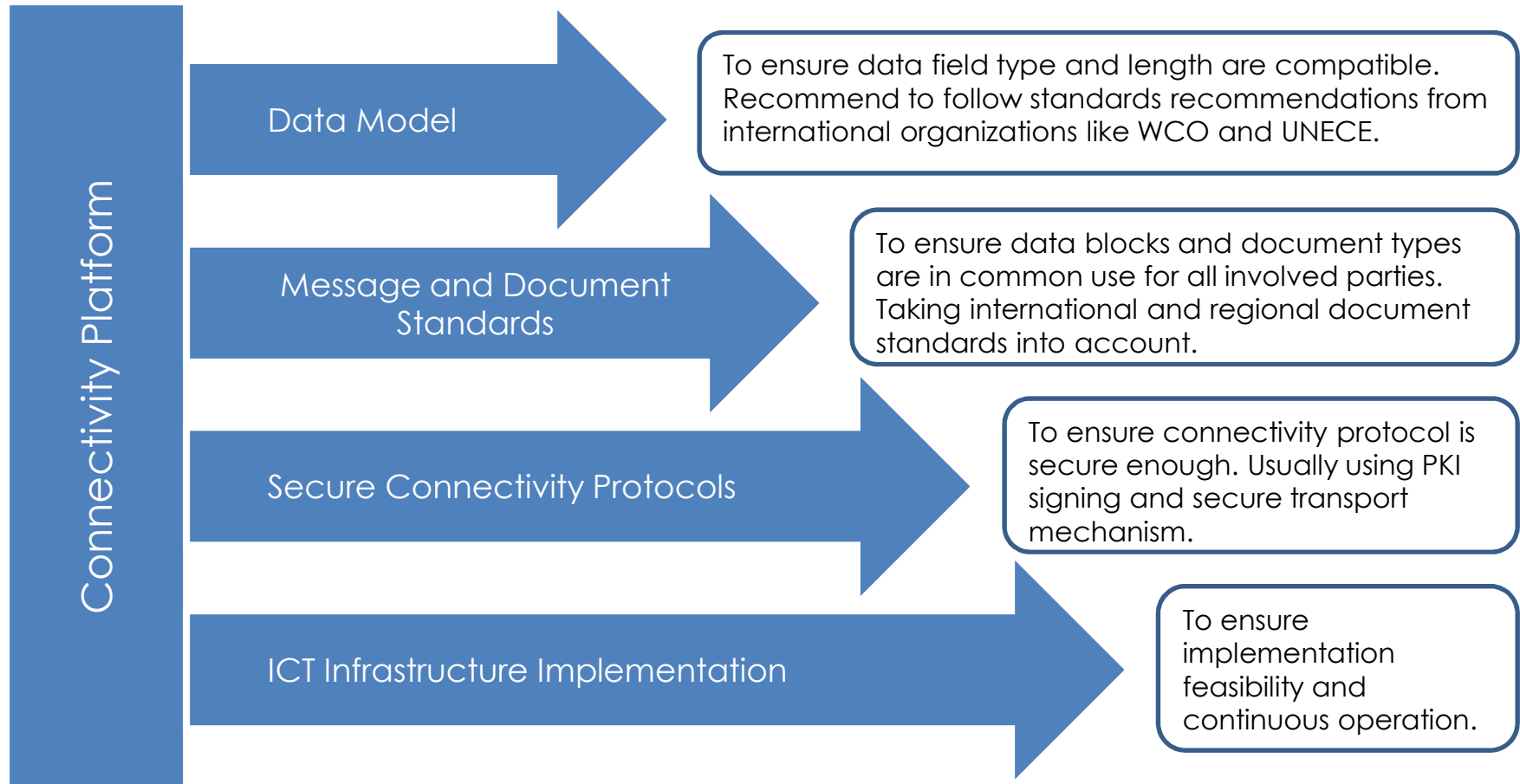
■ AREAS FOR CONSIDERATIONS



PROCESSES

| Considerations | |
|---|---|
| What data or document to exchange? | In ASEAN Single Window (ASW), although a number of documents was considered for cross border exchange, only the Preferential Cert of Origin Form D was put in pilot trials. |
| How does the connectivity take place? | Centralised (Federated) or (Decentralised) Peer-to-Peer? In ASW, connectivity is between National Single Windows. |
| How will connectivity fit into the existing trade process for traders and for authorities on all sides? | Facilitate the cross border trade, and leverage ASEAN Free Trade Area (AFTA) |
| Goals - How will this benefit traders and authorities? | Reduces cost and time. |
| What is the cost, time and process savings? | One of the goals is to reduce average time to import to ASEAN to 14 days by 2017 (was 17.5 days in 2013) |

PLATFORM



POLICY FRAMEWORK

| Considerations | |
|---|--|
| How to ensure connectivity is in line with the law among the parties of the exchange? | <p>ASEAN member states agreed to develop an ASW Legal Framework Agreement (LFA)</p> <p>A Working Group on legal and regulatory matters was formed that reports to the ASW Steering Committee.</p> <p>One of the goals is to identify the legal framework gap in ASW vs each NSW.</p> |
| What is the legal framework of cross-border connectivity? | <p>Example :</p> <p>PAA Legal Framework</p> <p>Inter-operability</p> <p>Security – Mutual PKI Recognition</p> |



Thank you

for further information, contact:

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