Facilitation & Security

Customs-Port-Trade Single Window Development - Challenge and Good Practice

Directorate General of Customs, Chinese Taipei

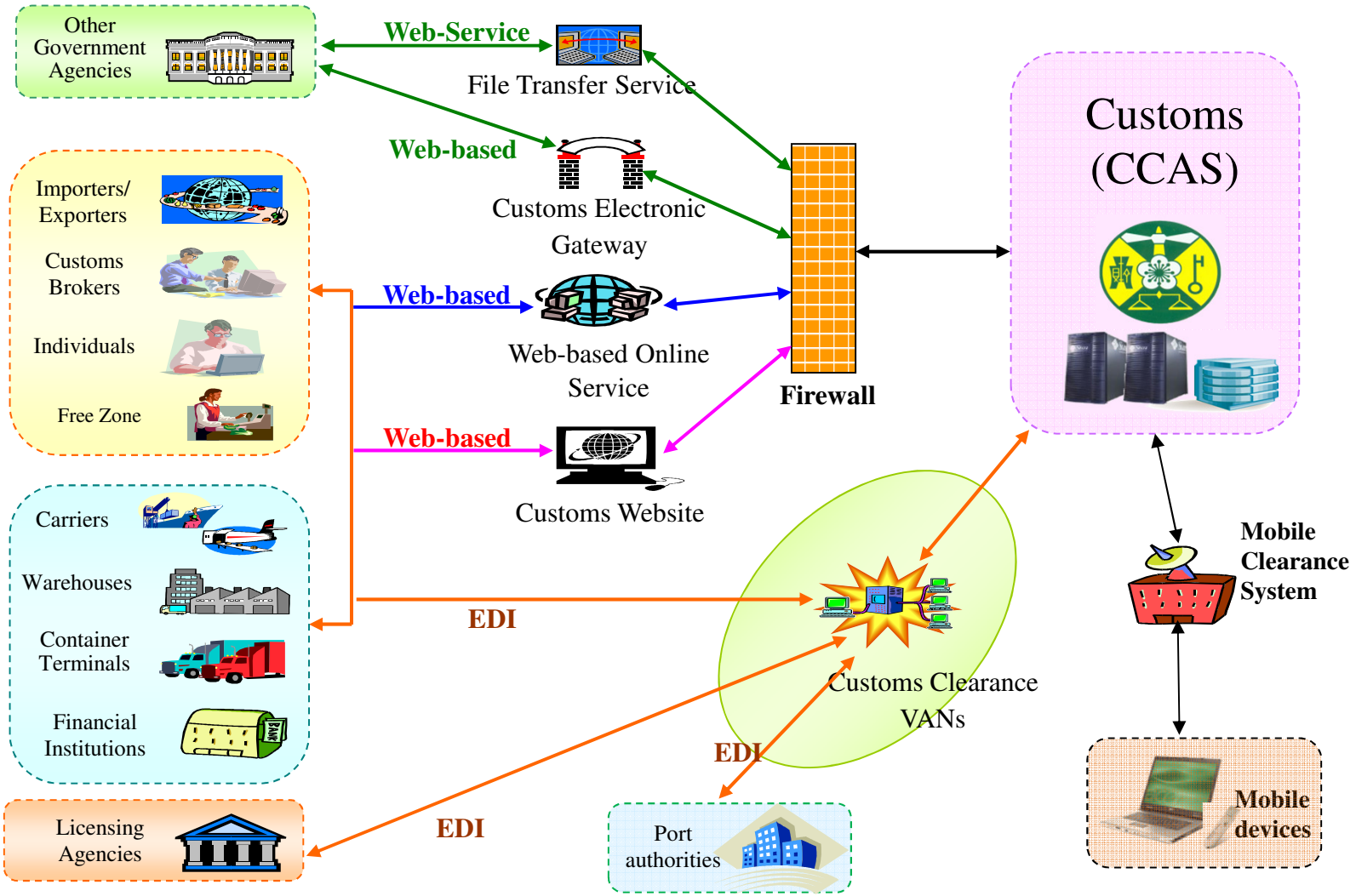
Oct 16-19, 2012

Outline

- Automation Journey
- CPT Single Window Development
- Challenge and Approach
- Conclusion

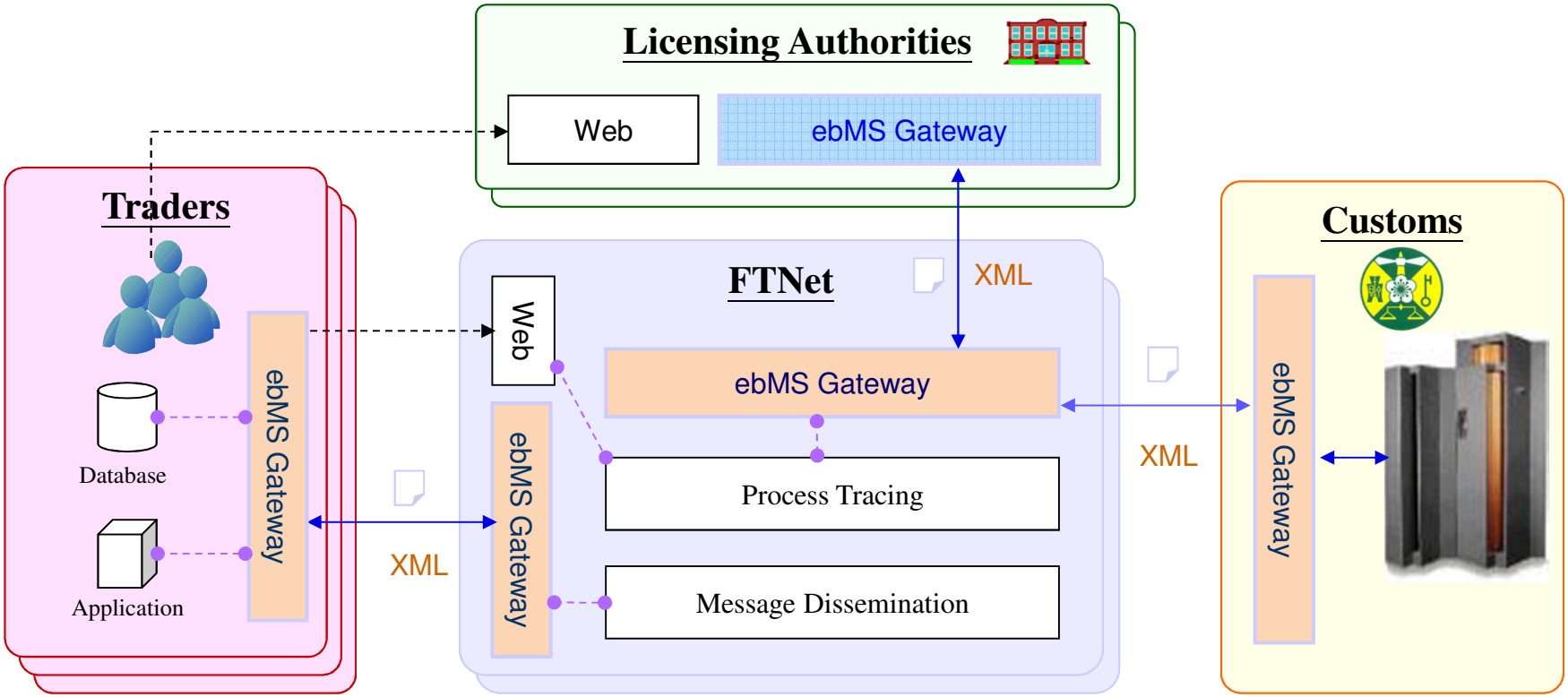
Automation Journey

Customs Clearance Automation



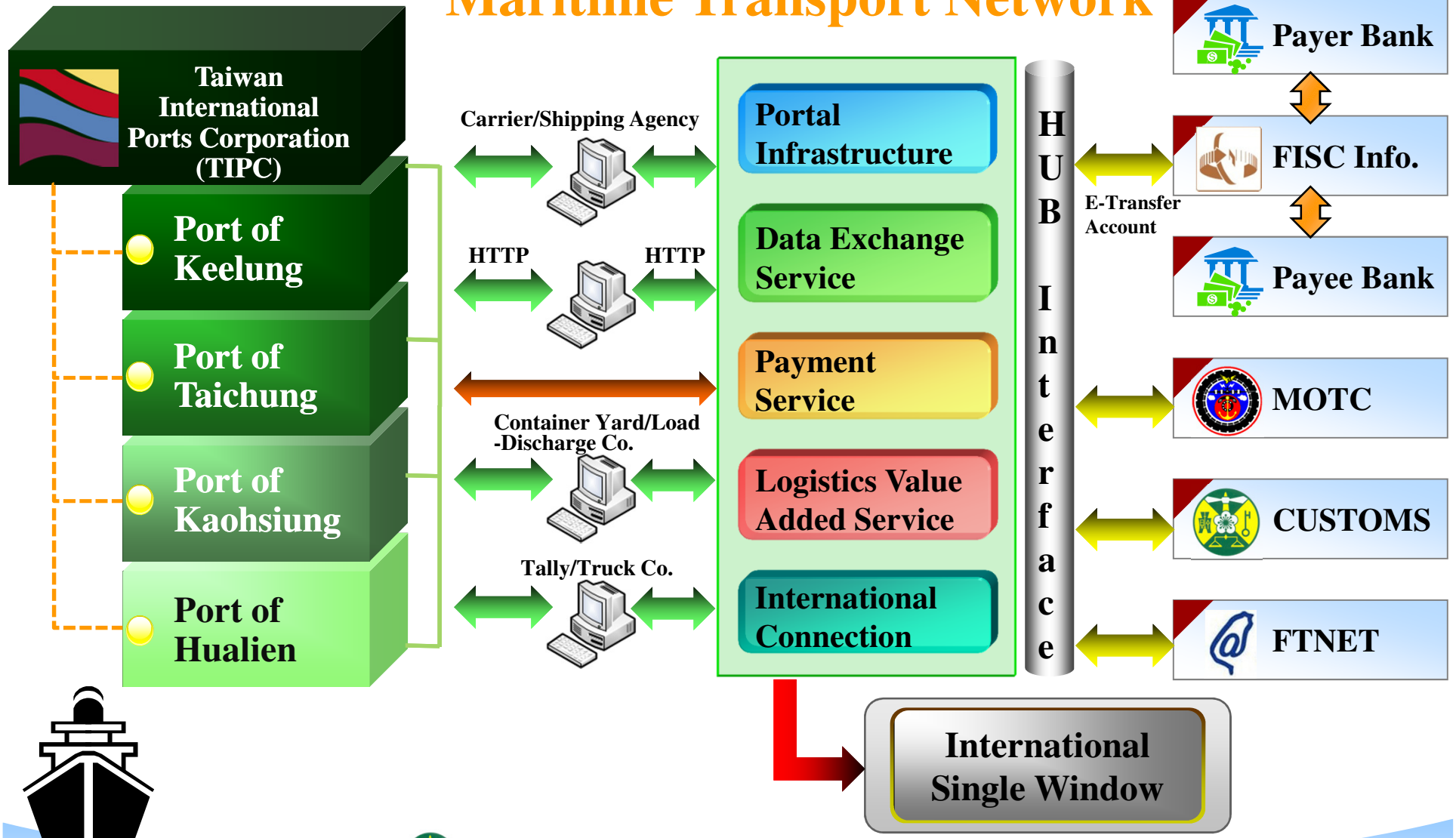
Trade Licensing Automation

Facile Trade Net

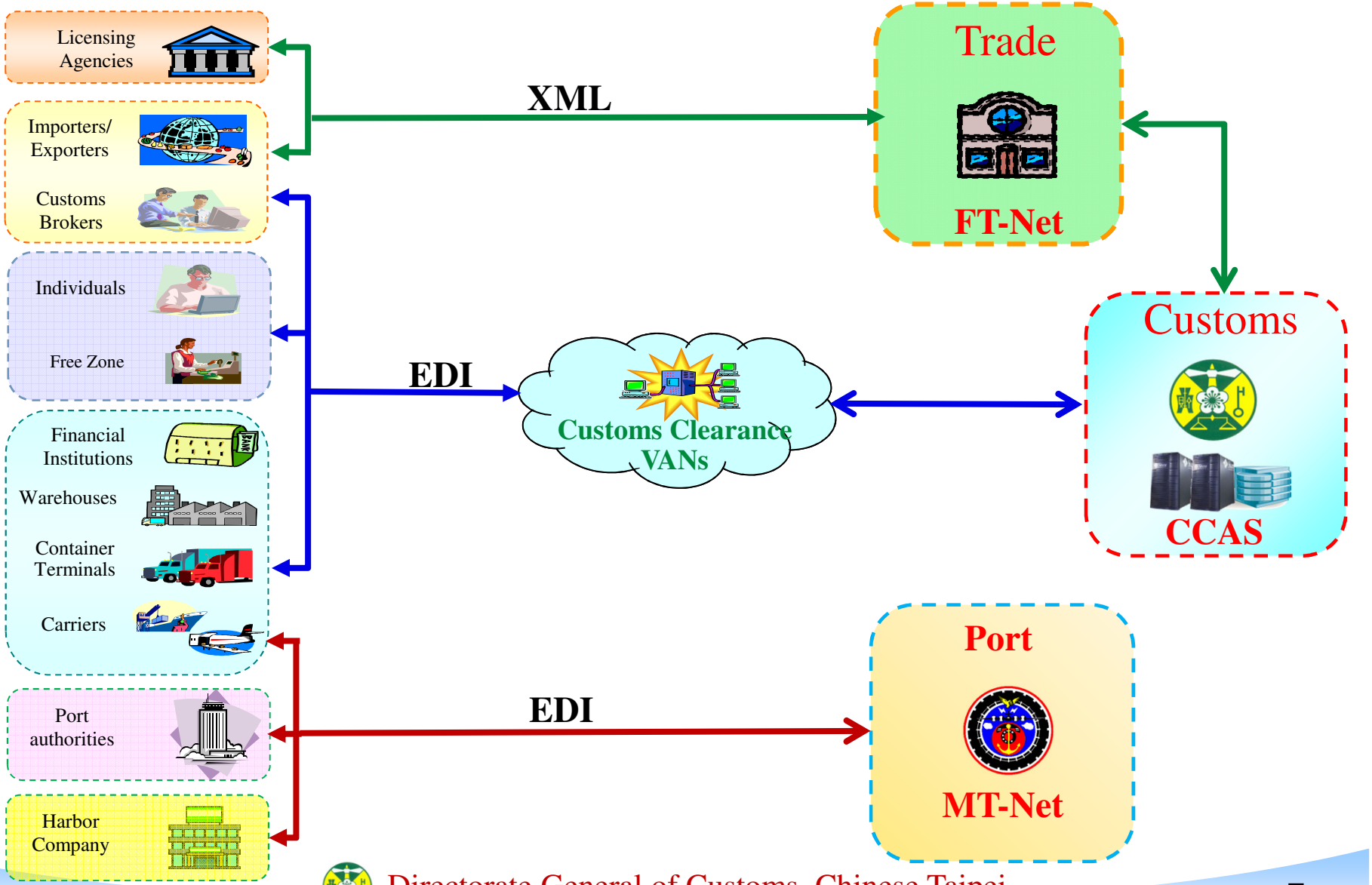


Maritime Transport Automation

Maritime Transport Network



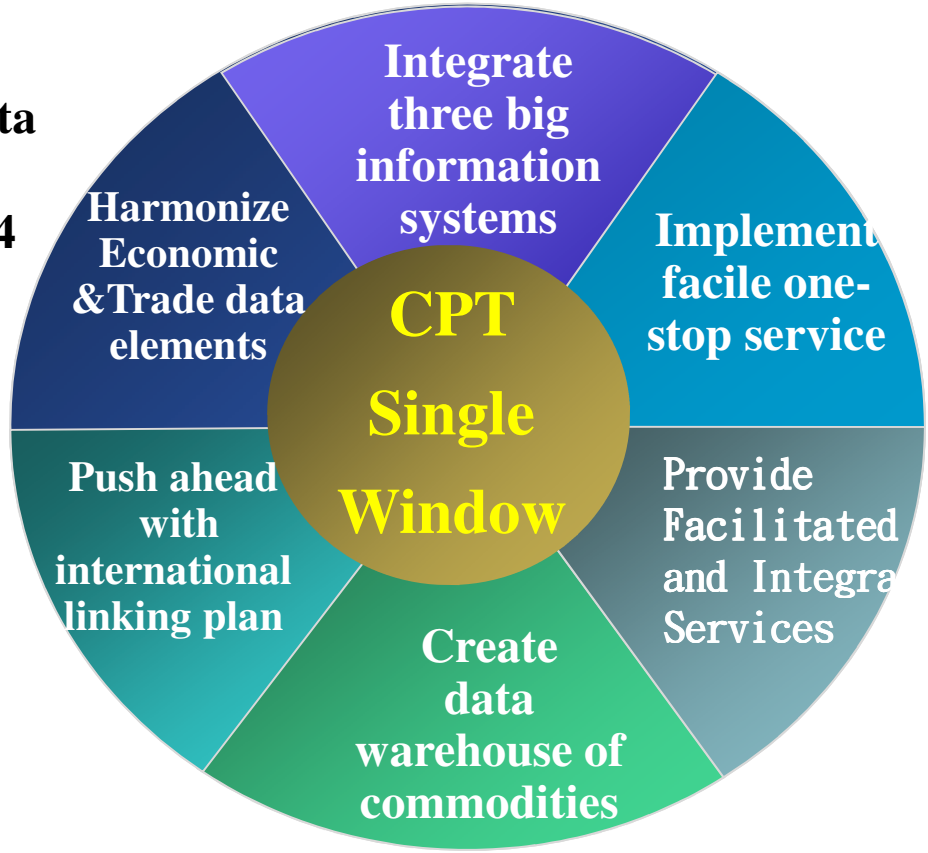
Whole Automation Framework



CPT Single Window Development

Objectives

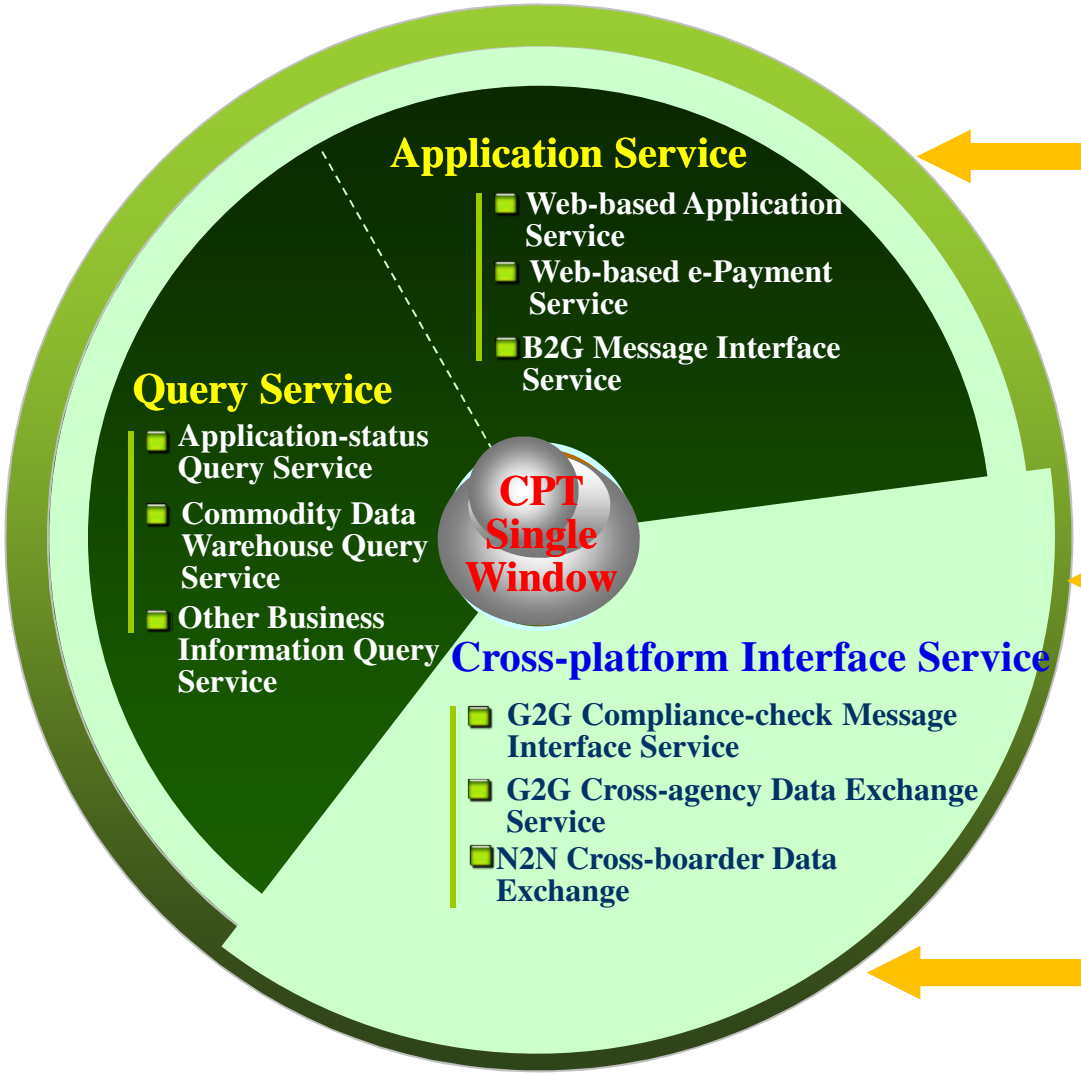
- Integrate Customs Clearance System, MT-Net and FT-Net
- Based on WCO Data Model and UN/CEFACT No.34 recommendation
- Offer " Submit once, service the whole course " service
- Create cross-border interoperability environment
- Develop cargo clearance integrated operation environment on cross-agencies
- Offer versatile inquiry services, such as whole course tracking and statistic analysis etc.



Information Convergent and Interface Platform

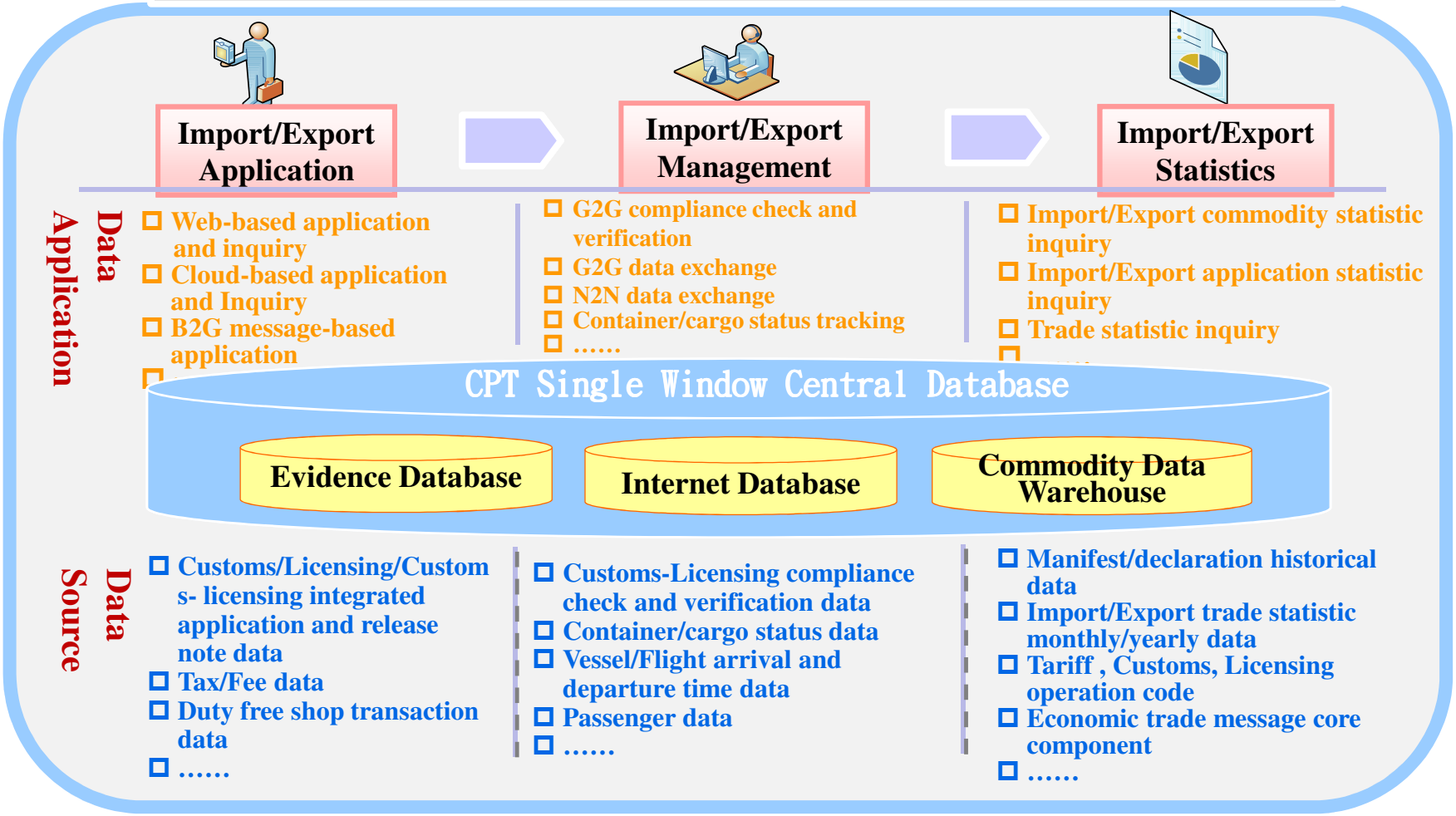
Projects for WCO SAFE Framework

Multiple Services



Central Database

Central Database and Import/Export Operation Relation Diagram



Integrate whole course and historical information on import/export/transit cargo clearance and licensing, and provide versatile and convenient inquiries for various stake holders.

System Framework

Web Application System

- Single window Portal
- Customs WEB Application etc.
- Commodity Data Warehouse Inquiry
- Cloud Computing Data Management
- Service Framework

Message Exchange Service

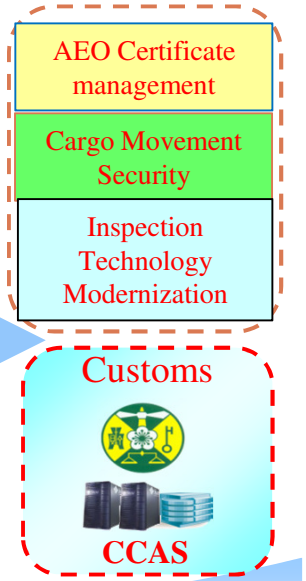
- B2G Application Message Interface
- G2G Compliance Check and Verification Message Interface
- G2G Data Exchange Interface
- N2N Data Exchange Interface

Common Service Platform

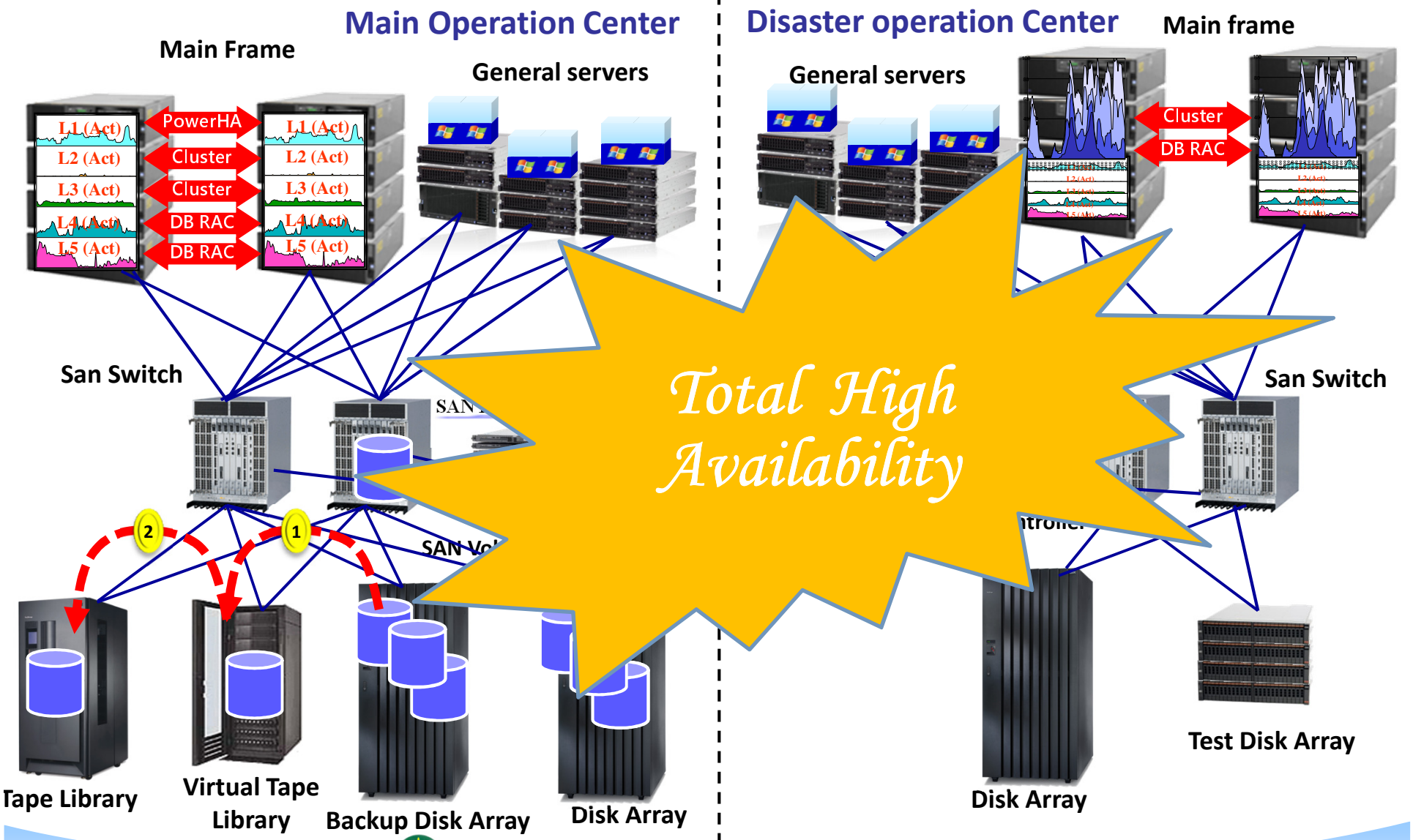
- Flow Integration Service
- Single Sign On
- Authentication
- Authorization
- Directory
- Registry
- Certificate Management
- Event Notification
- Chinese Transcode
- Recording Service
- Object Service

Message Exchange Platform

- Single Window Interface Gateway
- Message Dispatching/Routing Service
- Message Splitting/Packaging
- Message Signature and Verification
- Timing and Timestamp
- Message Test and Verification
- Information Transformation
- Platform Monitoring and Management
- Partner File Management
- Evidence
- Message Management Platform
- Message Queue



High Availability System



Expected Benefits

Private Sectors

- Provide single entry point of import/export services to reach "one entry application, the whole course service".
- Facilitate related industrials to master commodity status and proceed with logistic management. Expected data inquiries over 10 million times.
- Provide various B2G application, tracking, tax-paying and management etc. facilitated and integrated services to save application operation cost of related industrials about US$30 million annually.

Public Sectors

- Provide cross-agency and cross-border information exchange platform to expedite data sharing and international interoperability.
- Provide various cross-agency compliance check, verification and data exchange services to achieve common information sharing and use, and to promote business operation efficiency, management effectiveness and policy decision capability.
- Save government budget about US$ 25 million annually.

Challenge and Approach

Challenge

Budget constraints

Cope with economic environment, the government budgets have been restricted year after year. The resource of project fund has become uncertainty.

Difficulties in Inter-agency Integration and Coordination

Involving the harmonization and integration of existing data, systems, business flow and law and regulation of participating government agencies.

All messages renewed by new standard

The messages has been transformed from EDI messages into XML messages. Owing to customs and licensing messages change and business flow adjustment, all related industrials should upgrade their turnkey systems and internal ERPs.

Inadequate legal framework

Lack of legal infrastructure for promotion, operation and integration.

From Government Site

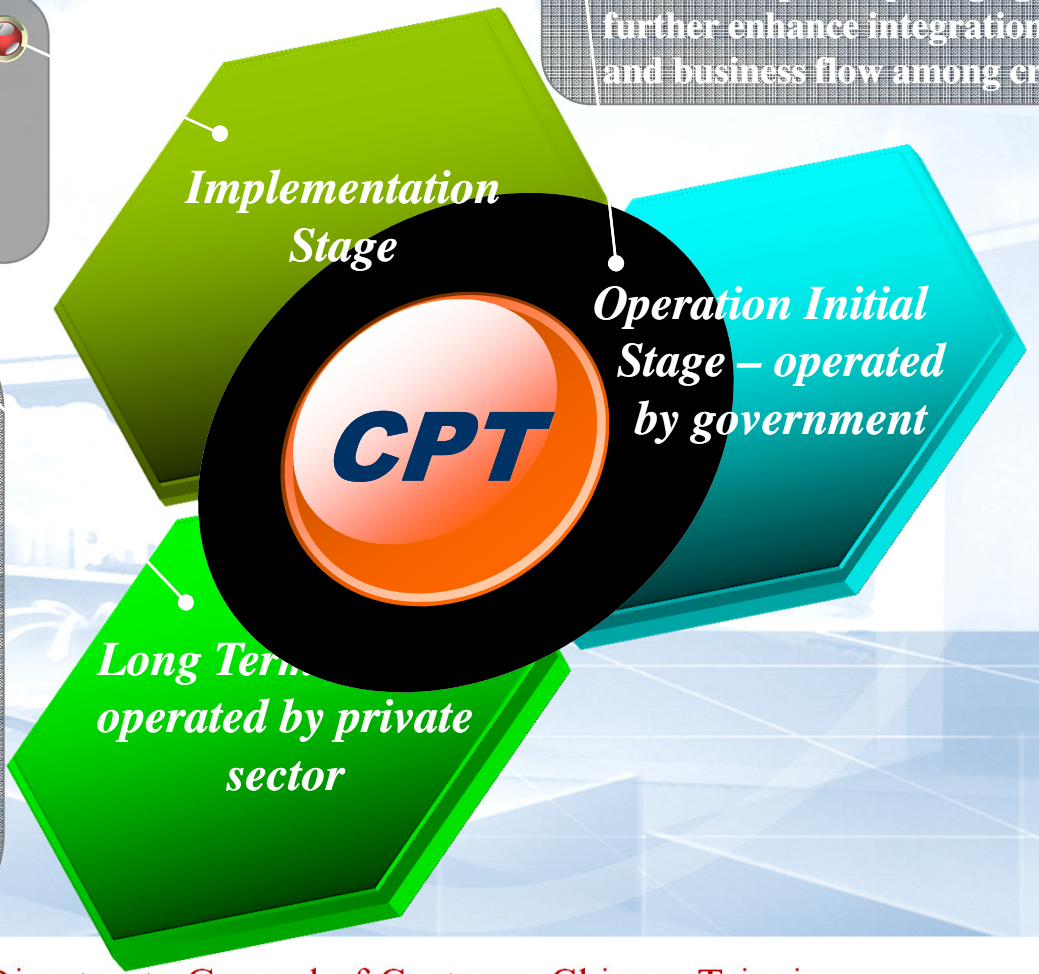
Approach

Budget constraints

Meet annual government budget, and make mobile adjustment on the project timeline and yearly planning jobs of following year.

Procure high-grade service provider doing operation services. The government will conduct evaluation of performance effects and the superintendence and management, meanwhile, extend the service fields to B2B, further to integrate trading flow to provide B2B and N2N data exchange services on commercial documents of import/export trade supply chain .

Single window maintenance will still be funded by government budget, but it should increase more services, enlarge the number of participating agencies and further enhance integration of messages and business flow among cross-agencies.

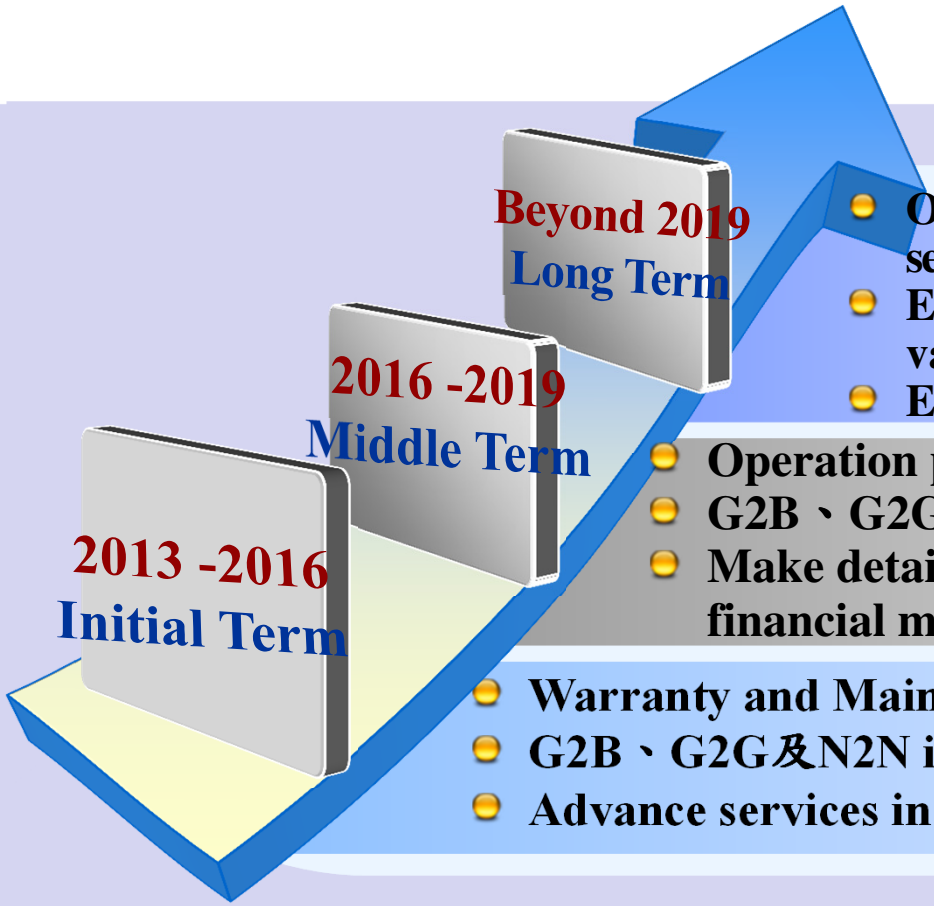


From Government Site

Approach

Budget constraints

Stage Strategy



- Operation and management period by self-sustaining
- Extend G2B、 G2G 、 N2N及B2B value-added services
- Economic and trade single window

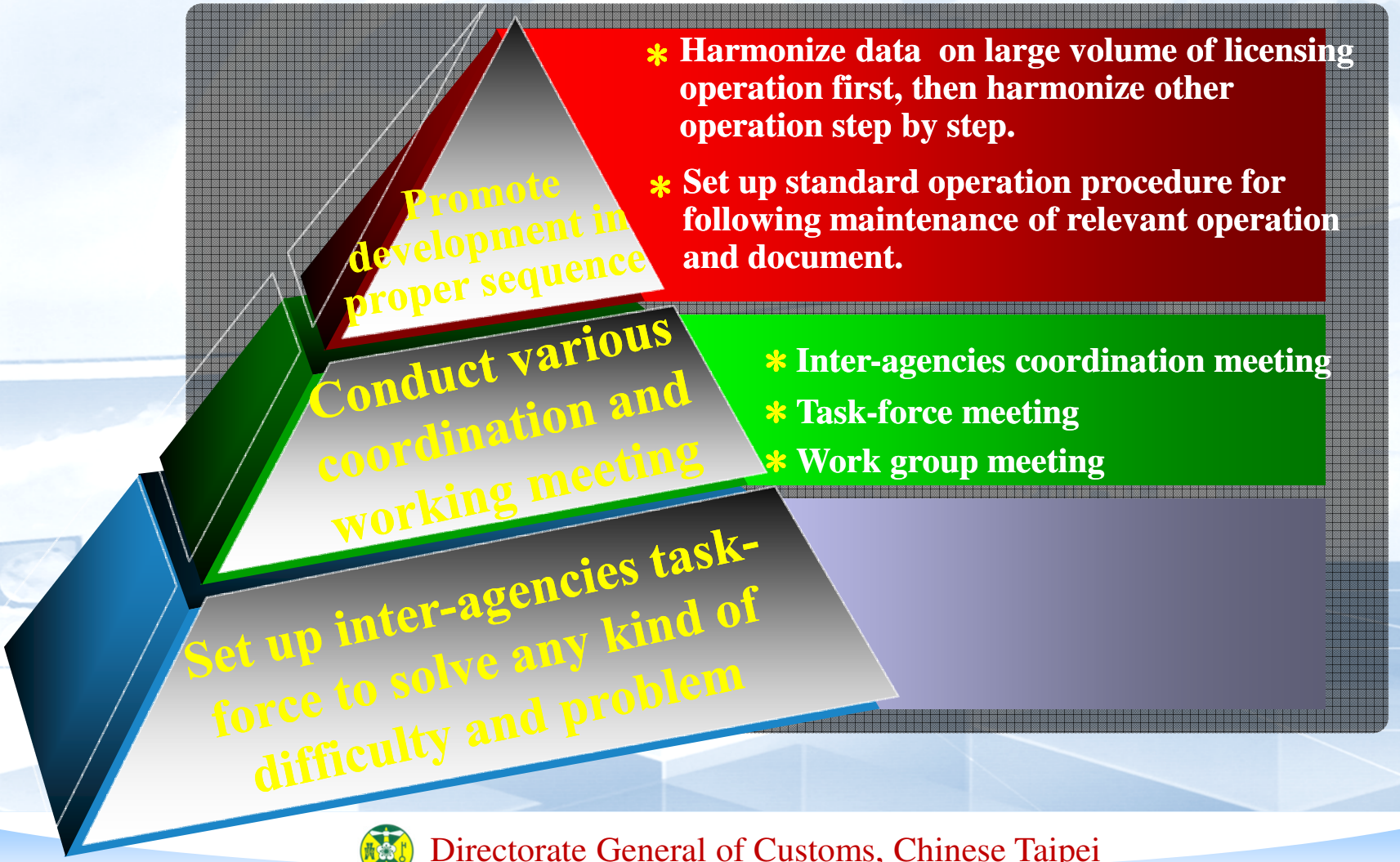
- Operation period by government budget
- G2B、G2G及N2N value added services
- Make detailed planning for operation and financial manipulation

- Warranty and Maintenance period by bid budget
- G2B、G2G及N2N import/export integrated services
- Advance services in meeting business requirement

From Government Site

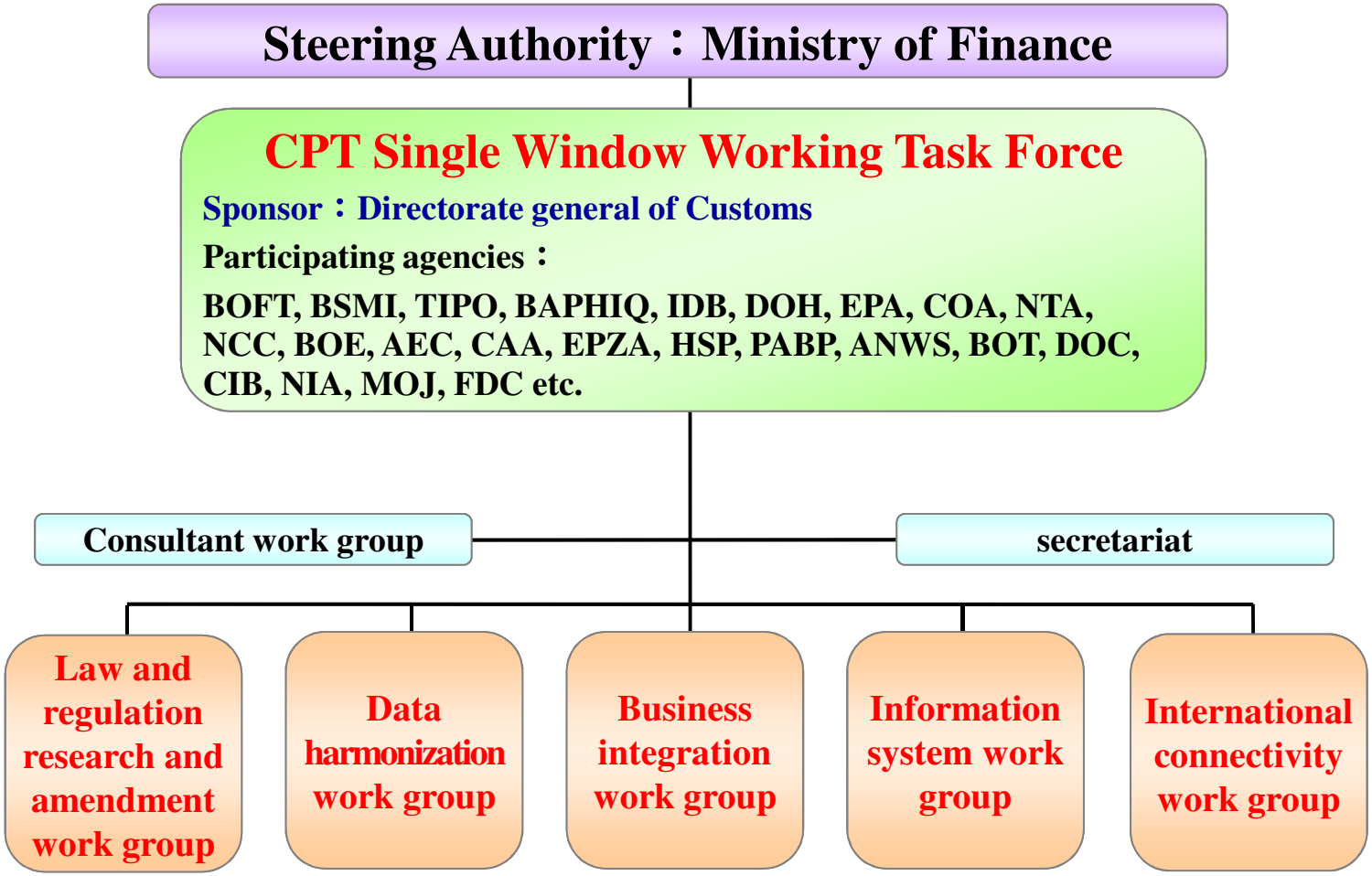
Approach

Difficulties in Inter-agency Integration and Coordination



* Harmonize data on large volume of licensing operation first, then harmonize other operation step by step.
* Set up standard operation procedure for following maintenance of relevant operation and document.
* Inter-agencies coordination meeting
* Task-force meeting
* Work group meeting

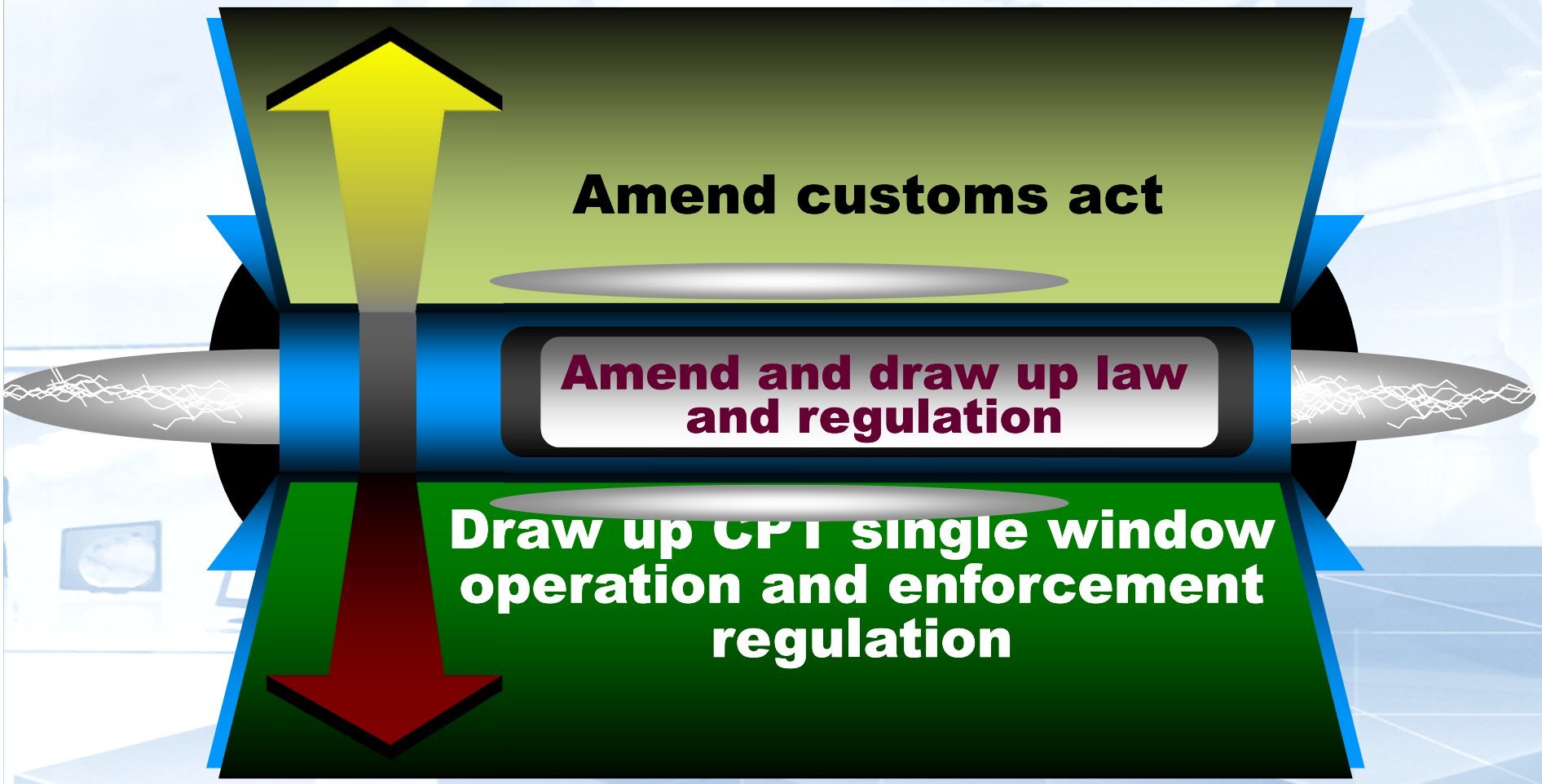
Promotion Organization



From Government Site

Approach

Inadequate legal framework



From Related industrials Site

Approach

All messages renewed by new standard

Provide public version turnkey system

- Create and release public version turnkey system, and offer any needed related industrials free to use the software to conduct future customs and licensing application.

Implement reward operation measure

- Draw up「Directions governing the DGOC reward policy for businesses adopting new turnkey system applicable to CPT Single Window System and Advance Cargo Information System」.
- Make related operation procedure and norm.

Renew fee collection measure

- Revise the collection criteria of the message transmission fee.

From Related industrials Site

Reward points spreadsheet

System category	Industrial type	Application message(point)	Response message(point)	Reward point
Sea/Air cargo import/export/transship declaration system	■ Customs broker ■ Self-declaration importer/exporter	NX5105(36) N5167(1) N5203(14) N5301(2)	NX5106(1) N5107(2) N5109(2) N5110(2) N5111(1) N5116(2) N5168(2) N5204(2) N5302(2)	69
Air cargo import/export master bill number manifest declaration and transship declaration system	■ Airline company	N5101(4) N5202(3) N5301(2)	N5108(2) NX5106(1) N5107(2) N5302(2)	16
Air cargo import/export house bill manifest system	■ Air cargo forwarder	N5101(4) N5202(3)	N5108(2)	9
Air cargo terminal management system	■ Air cargo warehouse operation industrials	N5102(2) N5201(2) N5117(1)	N5107(2) N5108(2) N5109(2) N5110(2) N5116(2) N5204(2)	17
Air express cargo import/export simple declaration	■ Air express cargo operators	N5135(5) N5205(3)	NX5106(1) N5107(2) N5116(2) N5204(2)	15
Sea cargo import/export/transship clearance message declaration system	■ shipper ■ shipping agents	N5101(4) N5202(3) N5162(2) N5262(3) N5301(2) N5151(1)	N5108(2) N5109(2) N5158(1) N5166(2) N5170(4) N5204(2) N5302(2)	30

Conclusion

Conclusion

Finishing establishment is just beginning, the development route is endless.

Integration and streamlining of business and system is necessary, well-coordination and well-cooperation is crucial for single window development.

Developing single window is the corner stone of reaching international interoperability.

Thanks for your attentions!