1 Regional Context

2 Global Context – Partnerships

3 Lessons learned – Way forward

4 Digital corridors (Air & Sea) 
Cross-border information exchange
Regional context

ASYCUDAWorld – Integrated Customs Information System

Western Balkans

3 CustomsAdministrations in Western Balkans are using ASYCUDA as their National Customs Information System:

- Albanian Customs Authority
- Indirect Taxation Authority of Bosnia and Herzegovina
- Kosovo Customs Department

CEFTA - 4 Customs Administrations

(above 3 + Moldovan Customs Service)

- Standard & nationally developed modules
- Movement of goods & persons
- Streamlined formalities & procedures
- Optimisation of processes & controls
- End-to-End electronic
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## Global Context

**Partnerships with International organisations for development and deployment of tools to support implementation of International Conventions**

<table>
<thead>
<tr>
<th>AGENCY</th>
<th>SIGNED</th>
<th>SCOPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Organization for Migration IOM</td>
<td>July 2019</td>
<td>Development of interface between ASYCUDA and MIDAS (Migration Information and Data Analysis System)</td>
</tr>
<tr>
<td>Universal Postal Union UPU</td>
<td>December 2015</td>
<td>Development of interface between ASYCUDA and UPU’s electronic system for real time data exchange</td>
</tr>
<tr>
<td>International Trade Center ITC</td>
<td>November 2015</td>
<td>Co-operation in improving transparency of data on trade and market access</td>
</tr>
<tr>
<td>World Trade Organization WTO</td>
<td>November 2014</td>
<td>Development of ASYCUDA toll for capturing and sending national data the WTO Integrated Trade Database</td>
</tr>
<tr>
<td>Convention on Int Trade in Endangered Species CITES</td>
<td>July 2014</td>
<td>Development and piloting of ASYCUDA module for monitoring trade in endangered species (eCITIES)</td>
</tr>
<tr>
<td>Office for Coordination of Humanitarian Affairs OCHA</td>
<td>February 2014</td>
<td>Development and piloting of ASYCUDA module for humanitarian relief consignments (ASYREC)</td>
</tr>
<tr>
<td>International Air Transport Association IATA</td>
<td>November 2013</td>
<td>Development of interface between ASYCUDA and IATA system for real time data exchange</td>
</tr>
<tr>
<td>Euro-Asian Economic Commission EAEC</td>
<td>May 2013</td>
<td>Collaboration in the areas of trade facilitation, Customs IT technology and Single Window</td>
</tr>
<tr>
<td>World Customs Organization WCO</td>
<td>March 2013</td>
<td>Development and piloting of ASYCUDA module for performance measurement (ASYPM)</td>
</tr>
<tr>
<td>Ministry of Economic Affairs of the Kingdom of the Netherlands</td>
<td>April 2010</td>
<td>Development and piloting of electronic phytosanitary certification system (ASYCER)</td>
</tr>
<tr>
<td>International Road Transport Union IRU</td>
<td>April 2010 Extension tbc.</td>
<td>Development and piloting of ASYCUDA-TIR module</td>
</tr>
</tbody>
</table>
Global Context

Partner-agency Modules / Components jointly developed

**eCommerce** - Effective and efficient management of cross-border E-Commerce

e-Commerce development in LDCs by addressing the need for the exchange of electronic advance data between Posts (CDS system) and Customs (ASYCUDA system) to enable an efficient customs clearance process and the timely delivery of postal items. The UPU sets the global postal strategy, regulations and standards, and provides technical assistance to member countries where needed to ensure a truly single postal territory in all dimensions of the postal service.

**Compliance and enforcement** - Prevent illegal cross-border trafficking of endangered species

Within the framework of the MOU signed between the CITES Secretariat and UNCTAD, and a project sponsored by the Government of Switzerland both organisations have jointly developed a cloud-based electronic permit system offering automated support for permit application, processing, issuance and reporting.
Global Context

Partner-agency Modules / Components jointly developed

**Business continuity** - Facilitate Humanitarian aid flows through efficient and managed coordination

Provides for coordinated, efficient and facilitated imports of humanitarian relief. This is a tool of the utmost importance for the humanitarian aid coordination mechanism, the Global Logistics Cluster, to ensure that the humanitarian response to an emergency crisis proves logistically efficient and effective.

**Business intelligence** - Performance Measurement for strategic decision

A BI (Business Intelligence) tool for promotion of efficiency and integrity within the Customs institution and its major stakeholders. It is composed of a statistical data warehouse and of 30 performance indicators. Performance measurement is a way to increase efficiency and identify gaps or areas with a need for a particular attention.
Global Context

Other joint UNCTAD - International Organisations developed **Permits management solutions**

**Permits management solutions**

- Endangered species
- Medicines, veterinary & medicinal products
- Dual use items and technologies, arms & similar
- Drugs precursors
- Protection of environment & dangerous chemicals
- Protection of environment ODS, POPs & WEEE
- Protection of environment & transboundary movement of waste
- Human health & medicines
- National treasures & cultural goods
- Veterinary, phytosanitary & food control
Global Context

Customs-centric Single Window solutions deployed in several countries

- Importers & exporters
- Carriers & freight forwarders
- Customs brokers
- Warehouse keepers & transit shed operators
- Commercial banks & financial institutions
- National railway company, port & airport authority
- Cash control
- Intellectual property
- Consumer goods & products safety
- Dual use items and technologies, arms & similar
- National treasures & cultural goods
- Technical controls
- Endangered species (CITES)
- Human health & medicines
- Medicines, veterinary & medicinal products
- Veterinary, phytosanitary & food control
- Protection of environment ODS, POPs & WEEE
- Protection of environment & dangerous chemicals
- Protection of environment & transboundary movement of waste
- Drugs precursors
1. Regional Context
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### Lessons learned – Way forward

#### How to distinguish SW from SSP and TIP

<table>
<thead>
<tr>
<th>National Single Window (NSW)</th>
<th>Single Submission Portals (SSP’s)</th>
<th>Trade Information Portal (TIP)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operation:</strong> Public Domain</td>
<td><strong>Operation:</strong> Private Domain</td>
<td>- Laws, regulations and other legal instruments relating to trade and compliance</td>
</tr>
<tr>
<td>- Tariff and non-tariff regulatory compliance (including duty/fee calculations and their e-payment or remittance control);</td>
<td><strong>Services:</strong></td>
<td>- Electronic forms and messages for applications for LPCO’s, Customs declarations etc.</td>
</tr>
<tr>
<td>- Application of sanitary, veterinary and sanitary-phytosanitary quarantine measures; Safety/security;</td>
<td>- Single entry &amp; Single submission</td>
<td>- List of codes used in electronic forms, messages, applications, declarations etc.</td>
</tr>
<tr>
<td>- Management of quota levels; intellectual property rights; submission of supporting documentation.</td>
<td>- Transport</td>
<td>- Information on how to connect to NSW, AW, etc.</td>
</tr>
<tr>
<td></td>
<td>- Logistics</td>
<td>- Tariff and Non-tariff measures, Advance rulings etc.</td>
</tr>
<tr>
<td></td>
<td>- Financial</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Types of SSP’s:</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Port Community Systems (PCS)</td>
<td></td>
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<tr>
<td></td>
<td>- Freight Forwarder Systems (FFS)</td>
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</tr>
<tr>
<td></td>
<td>- Cargo Community Systems (CCS)</td>
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</tbody>
</table>

**REC. 33**

**REC. 37**

**REC. 38**

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**Complementary & Interoperable Services**
Lessons learned – Way forward

Single Window Environment – Main features

The Trader Dashboard may contain:

- A section of **Notifications**, informing the Trader on a specific instance of a business process i.e. **Application registration** (assignment of unique application reference number and date), **Application accepted/rejected, Application Approved, License/Permit issued** etc. These notifications have no impact on the flow of the business process;
- A section of **Tasks** for which the Trader must provide an answer (i.e. Provide additional information/supporting documents). The actions related to these tasks have to be fulfilled by the Trader, in order to continue the business process;
- A section of **Applications in progress**;
- A section of **Valid Licenses, Permits and Certificates**;
- A section of **Payments**;
- A section of **Delegations**;
- A section of **Customs declarations using Licenses, Permits and Certificates**;
- In **My Profile**, the user should be able to **configure** the dashboard sections, notifications, alerts etc.
- **Chatbot** - The chatbot is a **smart interactive feature** that can be used by any user to get additional information about anything related to LPCOs.
The Trader Dashboard may contain:

- A section of **Notifications**, informing the Trader on a specific instance of a business process i.e. **Application registration** (assignment of unique application reference number and date), **Application accepted/rejected**, **Application Approved**, **License/Permit issued** etc. These notifications have no impact on the flow of the business process;

- **Create** Applications (24/7/365)
  - Capturing application data (Expert or Learning mode), or
  - Use permits as templates;

- **Save/Store** the information and complete the application over a number of sessions. Update and validate Application data before submission;

- **Attach** supporting documents;

- **Submit** Applications to the **Partner Competent Authority (PCA)**;

- Submit requests for **withdrawal**;

- **Receive Notifications** SMS/email (e.g. status of the Application, use of Permit, expiration of Permit, etc.);

- **View expected actions**;

- **Interact** with the **Partner Competent Authorities** (e.g. provide additional information)

- **Pay** License/Permit/Certificate issuance fees (e.g. using trader accounts)
Partner Competent Authority Dashboard:

- **Receive** the Application and supporting documents. The system will automatically verify whether some of the conditions are validated, based on the type and content of the application;
- **Review** Application data, *conditions and criteria* associated, *supporting documents*;
- When the PCA assumes that the information provided by the Applicant is not sufficient to take a decision, he can **request the trader to update the information** in the Application or **provide additional information/documents**;
  - The application status is changed to **PENDING_INFO** and an automatic notification is sent to the Applicant;
  - The status suspends the permit process until the applicant provides the required information;
- **Take decision** i.e. **Accept** or **Reject** Application;
- **Take decision** to **Grant/Issue** license, permit or certificate
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4 Digital corridors (Air & Sea)

Cross-border information exchange
Digital corridors (Air & Sea)  Cross-border information exchange

Air - IATA C-XML & EPIC in ASYCUDA

4 Fully Integrated Messages

- XFFM for Flight manifest
- XFWB, a complete set of data related to an Airwaybill to Customs
- XFZB will define the House waybills & specify
- XFNMR Response message is an acknowledgement to the airlines that customs will send when receiving & processing XFFM, XFWB & XFZB or transmitting the errors if any

Communication through

- Secure Email Exchanges (Asynchronous)
- Web services (Real-time responses)

Two Main filers / legal authorized filers

Airlines

- XFFM
- XFWB
- XFZB

Freight forwarders

- XFZB

ASYCUDA WORLD
Countries currently using C-XML

- **19 countries**, including Caribbean Community (CARICOM) Implementation Agency for Crime and Security (IMPACS)
- **5 more going live soon**, including **Albania (ACA), Bosnia and Herzegovina (ITA) & Kosovo Customs Department (KCD)**

Boosting Connection with EPIC

- Easy connect with cargo partners by using Enhanced Partner Identification & Connectivity (EPIC)
- **2 ASYCUDAWorld countries** running EPIC
- Quick Updates and follow up
- All new IATA Cargo XML Implementations in ASYCUDAWorld may involve EPIC
Partnership with UPU

- Development of interface between ASYCUDA (ASYPCD) & UPU’s electronic system (CDS) for real time electronic advance data exchange (CUSITM/CUSRSP)
- IATA XFHL message will be the link between UPU CUSITM & Master airwaybills XFWB
Digital corridors (Air & Sea) Cross-border information exchange

Maritime - Digitizing Global Maritime Trade

- Implementation of ASYHUB Data Exchange and Data Integration platform between National Customs Information Systems and ship data provider’s ICT systems to facilitate the processing of electronic Sea Cargo Manifest pre-arrival (Entry) and pre-departure (Exit)

- Enhancement of National Customs Information Systems to facilitate risk-based PaP/PdP
  Provide Customs authorities with richer information to support a more informed risk assessment for a better targeting and more effective decision on which shipments to inspect
  Facilitate submission and processing of declarations, notifications, supporting documents prior to the presentation of goods
Digital corridors (Air & Sea) Cross-border information exchange

Maritime – International Standards Entry & Exit formalities

1. UN/CEFACT
   - Core Component Library 20A
   - Standards on electronic documents e.g. Booking confirmation, Shipping instructions, Container list, Bill of Lading etc.
   - Smart Containers (TBD)

2. WCO
   - WCO DM 3.9.0 Derived Information Package (DIP) Advanced Electronic Information (based on SAFE Framework FoS),
   - WCO DM 3.9.0 MSW Derived Information Package (Customs formalities)

3. IMO
   - IMO Reference Data model, Compendium, Maritime Single Window

4. Digital Container Shipping Association (DCSA)
   - DCSA Information Model, Interface Standard for Track and Trace, etc.
Digital corridors (Air & Sea)  Cross-border information exchange

Maritime - Advance Cargo Information

Advanced Cargo Information

- Prior to the arrival at the first port in the country of destination vs
- Prior to the loading at the port of departure

Reporting of Container Status Messages

- Additional supply chain visibility provided by container status messages for real-time customs risk analysis

System-to-system interface

- Complementary way of submission of Advance Cargo Information to further simplify and automate the process of submission of Sea Cargo Manifest information
Digital corridors (Air & Sea) Cross-border information exchange

ASYHUB Global Architecture

ASYCUDA WORLD or National Customs Information System

Cargo Manifest, Vessel Registration, Container Management System and Cargo Dispatch Note

Events Manager

Secure Channel

ASYHUB

Extract Transform Load

Processing

Services

Message Producer

Ship-Data-Provider system

Transport and Trade data

API
Digital corridors (Air & Sea) Cross-border information exchange

ASYHUB Global Architecture

Ship-Data-Provider A
- Message Producer
- Message Consumer
- Transformer
- Event Handler

Ship-Data-Provider B
- Message Producer
- Message Consumer

Other Systems/Platforms
- Message Producer
- Message Consumer

Dashboard
- Security
- Logging
- Config
- Fault Tolerance
- Health Check
- Metrics

Secure Channel

Event Manager

ASYCUDA WORLD or National Customs Information System
Digital corridors (Air & Sea)  Cross-border information exchange

END-2-END Supply Chain Visibility

**Data/Event Flow**
1. Booking completed
2. Container stuffed
3. Bill of Lading issued
4. Gate-in/Gate-out export terminal (PLA / EST / ACT)
5. Container loaded onboard on Vessel
6. Manifested
7. Vessel departure (PLA / EST / ACT)
8. Vessel arrival (PLA / EST / ACT)
9. Vessel discharge import terminal (PLA / EST / ACT)
10. Import customs release
11. Gate Out full container
12. Notification of crossing frontier
13. Discharged from truck
14. Container stripped

**Locations**
- Origin
- Sea
- Destination

**End-to-End Supply Chain Visibility**

**ASY HUB**
- Goods Items
- Containers Information
- Supply Chain Actors
- Locations
- Transport Document
Risk analysis

• Enable full risk analysis pre-loading, pre-arrival and post-arrival phase;
• Enable risk analysis on all parties;
• Enable route-based risk analysis on containers (locations, logistic events, means of transport etc.)
Thank you for your attention!

QUESTIONS & ANSWERS

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