Session 5: Use of IT

Information exchange, interoperability & regional Single Window
Observations

- Use of Information & Communications Technology
  - Increasingly commonplace

- Key enabler for Customs modernization
  - Electronic clearance
  - Exchange of certificates
  - Coordinated Border Management
  - Electronic Single Window Environment
Observations

• Regional Integration Projects
  • ASEAN
  • CEFTA
  • EAST AFRICA COMMUNITY
  • EURASIAN ECONOMIC UNION
  • EUROPEAN UNION
  • SOUTH AFRICAN CUSTOMS UNION
  • MERCOSUR
Interoperability

- **Interoperability**: “the ability of disparate and diverse organizations to interact towards mutually beneficial and agreed common goals, involving the sharing of information and knowledge between the organizations, through the business processes they support, by means of the exchange of data between their respective ICT systems”

  - Legal Interoperability
  - Organizational Interoperability
  - Semantic Interoperability
  - Technical Interoperability
## Globally Networked Customs

<table>
<thead>
<tr>
<th><strong>Layer</strong></th>
<th><strong>Description of Layer</strong></th>
<th><strong>Area of Interoperability</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of the Block</td>
<td>The name of the Utility Block being developed</td>
<td></td>
</tr>
<tr>
<td>Purpose</td>
<td>What the block is supposed to do.</td>
<td>Organizational</td>
</tr>
<tr>
<td>Legal Framework</td>
<td>The law, including the instrument providing the legal gateway.</td>
<td>Legislative</td>
</tr>
<tr>
<td>Entities</td>
<td>Those who can send/receive information, and the methods of identifying them.</td>
<td>Organizational</td>
</tr>
<tr>
<td>Business Rules</td>
<td>The specific rules for the UB. If not described elsewhere, includes relevant Protocols, Standards and Guidelines.</td>
<td>Organizational</td>
</tr>
<tr>
<td>Data Cluster</td>
<td>The list of data elements for the UB</td>
<td>Semantic</td>
</tr>
<tr>
<td>Triggers</td>
<td>Events that either start the data flow, or respond to data receipt</td>
<td>Organizational / Technical</td>
</tr>
<tr>
<td>Interface</td>
<td>How the parties in a GNC relationship are connected</td>
<td>Technical</td>
</tr>
<tr>
<td>Integration</td>
<td>How a GNC partner connects to its own systems</td>
<td>Technical</td>
</tr>
<tr>
<td>Communication</td>
<td>The electronic means of exchanging information</td>
<td>Technical</td>
</tr>
<tr>
<td>Advantages</td>
<td>Benefits delivered to: Customs, Business and Other Agencies</td>
<td></td>
</tr>
</tbody>
</table>
Globally Networked Customs

• Legal Toolbox
  • Article 1 Automatic exchange of information for risk management purposes
  • Article 2 Utility blocks
  • Article 3 Use of information
  • Article 4 Confidentiality and protection of information
Globally Networked Customs

- **Utility Blocks**
  - South Africa IT Connectivity Project: Exchange of information between South Africa and Swaziland;
  - INDIRA System: Exchange of information between Argentina and Ecuador and Mexico;
  - MRA Mutual Recognition: Exchange of information between EU and USA;
  - Mutual Recognition of Control: Exchange of information between EU and Switzerland;
  - SEED: Exchange of information between Serbia and Customs Administrations in the Balkans.
WCO Data Model

WCO Data Model Components

- WCO Class Library
  - ClassLibrary
  - Data Model; R1
- Code Lists
- WCO Information Packages
  - BaseInformationPackages
    - Declaration; R1
    - Intergov; R1
    - Response; R1
    - LPCO; R1
    - MetaData; R1
    - DerivedInformationPackages
      - DV1; R1
      - GuaranteeOperation; R1
      - IMO; R1
      - SAD; R1
      - Value; R1

Capture

Define

Analyze

Reconcile

EDIFACT

- GOVCBR; R1
- GOVCBR; R1; Response

XML
WCO Data Model

Data Harmonization

Capture
Define
Analyze
Reconcile
Regional Economic Competitiveness

**Strategic**
- Political Will
- Legal frameworks

**Operational**
- Coordinated border management
- International standards

**Technological**
- Process reengineering, realignment
- Data Harmonization
- Information & communication technology
Regional Single Window(s)?
WCO tools, instruments & guidelines

- Not a system, but an environment