Session 5: Trade facilitation for e-commerce: Emerging innovations for seamless cross-border transactions

An Introduction of Applying New Technologies to Intelligent Customs

1. Exploration of the Application of the new Technologies in China Customs
   - “Single Window Application” to improve the Efficiency of Trade
   - “One–off Declaration, Phased Disposal” to accelerate Customs Clearance
   - Application of Automated Image Recognition to Improve Customs Control Efficiency
   - Application of Blockchain to Deal with Contradictions in Customs Control
   - CUSDEP Motivate Data Sharing between China Customs and its Counterparts
   - Establishment of Big Data Platform to Bolster Risk Analysis

2. Suggestions on the Application of New Technologies
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- Exploration of the Application of the new Technologies in China Customs
  - "Single Window Application" to Improve the Efficiency of Trade

- Single Window: declaring at any Customs through internet. Goods can be imported or exported at any ports in China.
- Both quarantine and customs declaration business
- Streamlined and Unified Nationwide Platform

- Paperless
- Accepting declaration
- Procedure traceable
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1. Exploration of the Application of the new Technologies in China Customs
   2. “One-off Declaration, Phased Disposal” to accelerate Customs Clearance

   Target: solving the problem that the goods have to be blocked in the checkpoint till the tax payment formalities are finished.

First Step: Whether the goods are legal

- Declaration form
- An order
- Feedback

Risk Control Bureau

Goods released

Second Step: How much tax should be levied

- Pay the tax
- Duty Collection Supervision Bureau
- Customs Clearance
- Evaluation: track record, credit etc
- Auditing
- Inspection

Declarant

Front-Line officer
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- 1. Exploration of the Application of the new Technologies in China Customs
- 3. Application of Automated Image Recognition to Improve Customs Control Efficiency
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Session 5: Trade facilitation for e-commerce: Emerging innovations for seamless cross-border transactions

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- 1. Exploration of the Application of the new Technologies in China Customs
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There are 120 iPhones in the following part of the truck.
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1. Exploration of the Application of the new Technologies in China Customs

   3. Application of Automated Image Recognition to Improve Customs Control Efficiency

   ![Smart Image Recognition](image)

   **Large-Scale Inspection Image**
   - Average Time per Image: 13 Seconds
   - Recognizable goods: 483 Kinds

   **Luggage Scanner Image**
   - Average Time per Image: 2 Seconds
   - Recognizable goods: 221 Kinds

   Take Shenzhen Customs as an Example

   - 98% of recognition ratio
   - reducing clearance time by 1/3
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- Exploration of the Application of the new Technologies in China Customs
  - Application of Blockchain to Solve Contradictions in Customs Control
  - CUSDEP Motivate Data Sharing between China Customs and its Counterparts
    - Conform to the Global Network of Customs (GNC) perception raised by World Customs Organization (WCO).
    - Compatible with different network transmission protocols, different security arrangements, different packet formats
    - Overcome the Downsides of the traditional software development model like waterfall development method etc.
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1. Exploration of the Application of the new Technologies in China Customs

6. Establishment of Big Data Platform to Bolster Risk Analysis

- A unified big data platform which contains three Big Data centers located in Beijing, Shanghai, Guangzhou.

- Data mining technology to make model building and verification.

- A lot of new algorithms including the newly findings from universities.
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Big-Data-based Risk-targeting

Customs National Targeting Center, GACC

Guidance

Intelligence

Second-Tier
Customs Targeting Center, Customs District
3 Suggestions on the Applications of New Technologies

- Advanced technologies will definitely bring profound innovations on customs control mode.

- As high technology is more practical and viable, we should follow the trend, catch the rare historic opportunity and take advantage of it.

- The specific route map to achieve it is to accelerate the research of new information technology, artificial intelligence, new equipment technology, new analysis and detection technology.

we look forward to it.