



# Smart Customs and New Technology Application in China Customs

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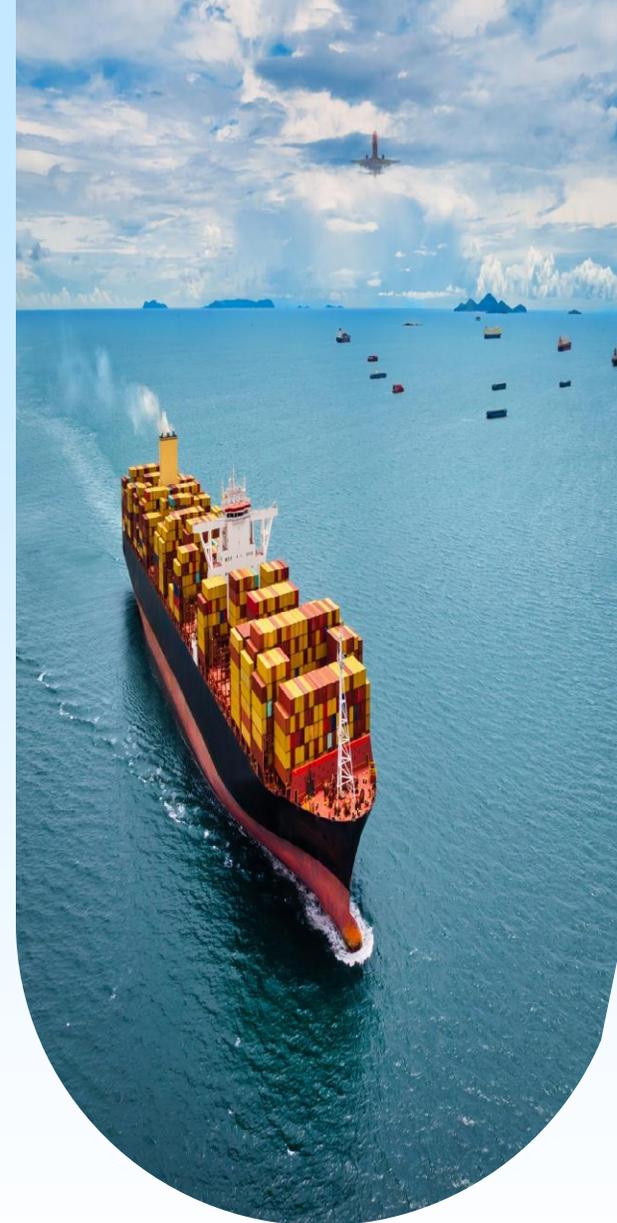


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# Concept and key elements of Smart Customs construction

# Concept and key elements of Smart Customs



Covering the four key areas of supervision, risk prevention, service, and collaboration

01

## End-to-end Flow-Based Supervision

Integrate customs supervision into corporate operations and international trade logistics to streamline customs clearance processes.

02

## Whole Process, Multidimensional and Unified Risk Management

Leveraging big data, it identifies, assesses, and addresses risks to ensure compliance and facilitation.

03

## Comprehensive, Efficient and Convenient Services

Drive the intelligent upgrade of the "Single Window" and integrate cross-departmental procedures.

04

## Coordinated and Smooth Operation Across All Domains

Conduct real-time, tiered and categorized oversight of operations, automatically analyzes data, monitors for anomalies, and enhances operational efficiency.



# Achievements in safeguarding national security and promoting development

# Safeguarding National Security



## Intelligent Security for Our Borders

1

Model clusters are embedded in the Customs Operational System, enabling rapid risk screening for 100% of customs declarations.

3

Utilizing AI-powered image analysis to recognize multiple commodity types and improve contraband interception rates.

2

AI-powered document and certificate verification, performing comprehensive logical screening of all data, with the capability to identify more than 100 types of certificates from 42 countries.



# Enhanced Trade Facilitation



**Multiple initiatives to enhance clearance efficiency**

1

One-stop-shop Service Platform

3

Promoting Port Logistics Information Sharing

2

Promoting the remote video-based inspection model to facilitate the clearance of fresh agricultural and food products

4

Introducing Smart Passenger Clearance to provide an imperceptible process backed by intelligent monitoring



# Deepen International Cooperation



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About | The WCO Smart Customs Project

## The WCO Smart Customs Project

World Customs Organization

### SMART CUSTOMS PROJECT

Empowering Customs through disruptive technologies

## 金砖国家“智慧海关”示范中心网

### BRICS SMART CUSTOMS CENTER OF EXCELLENCE

当前位置: 首页 > 金砖国家“智慧海关”实践

#### Best Practices of Smart Customs

- Using intelligent authentication devices to implement cross-border artwork supervision
- Automated whole-process supervision of bulk mineral imports through online inspection
- Using highly integrated radar detection technology to enhance the inspection of live exotic pets



# AI Application in China Customs



# From Technical Foundation to Business Implementation





# Customs Best Practice

## Real-World Applications in Shanghai Customs

# AI Powered Intelligent Risk Identification



1

## Digital Language Conversion

Customs laws, regulatory requirements, classification rules

2

## Train an AI Large Model for Customs Clearance

Declaration data

3

## Identify Risk Characteristics

Misclassification of goods, abnormal declaration entries

4

## Targeted Disposal

Automated release for low-risk declarations, while high-risk targets are subjected to precise control measures

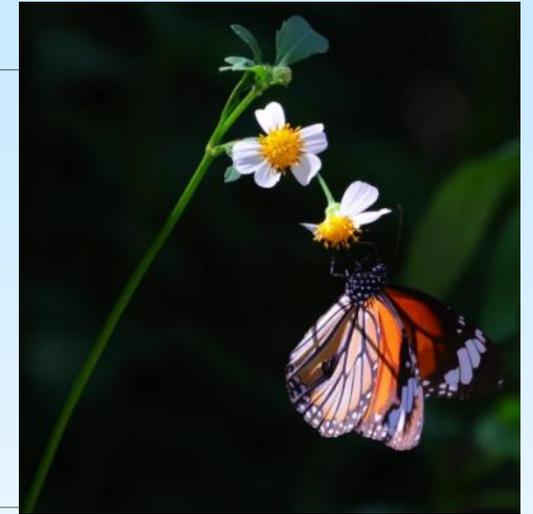
# Intelligent Identification System for Harmful Organisms



1 Macro+Micro Multimodal Training Set

2 Image representation vector

3 Building a network model



4 Biometric classification





# Thank you

**General Administration of Customs  
The People's Republic of China**