



TECHNOLOGY EMPOWERS DIGITAL TRANSITION OF CUSTOMS

WCO TECHNOLOGY CONFERENCE SHARE SPEECH

CHINA CUSTOMS
HONGYE WU
2024.11 BRAZIL



SMART CUSTOMS



Digital



Digital
Intelligence



Digital
Governnance

One

SMART PASSENGER INSPECTION



Two

SMART CERTIFICATE AUDIT

智能同屏比对

统一调用检验检疫证书模板资源，网站信息、准入资质、各类证书签字官备案信息等资源，依托智能模型。



对识别结果进行智能计算，实现同屏展示，避免繁琐操作。



CASE

1

SMART PASSENGER INSPECTION



PROBLEMS

- Slow clearance
- Excessive interference from customs supervision
- Low level of intelligent inspection
- Lacking sufficient precision



CASE

1

SMART PASSENGER INSPECTION



METHODS

- **"5G+AR glasses" & "Center + Site"**
- Achieved precise control and interception in luggage and item supervision
- Integrated intelligent equipment and facilities in our platform
- Data interconnection with external units, achieve "One code clearance"
- Utilize Intelligent Image Audit technology

CASE

1

SMART PASSENGER INSPECTION



RESULTS

SHANGHAI Passenger Inspection Port

300 Passengers



Clearance

98% exit within 5 minutes



Clearance time

Several hr.



30 min.

Saving 30-50% of human resources.

Over 10 times higher than that of manual drawing audit.

CASE

2

SMART CERTIFICATE AUDIT



PROBLEMS

- Some foreign inspection and quarantine certificates are submitted in unstructured formats like PDF and Image files, it requires manual verification on-site. The whole process is complex and labor-intensive.



CASE

2

SMART CERTIFICATE AUDIT



METHODS

- Using OCR, AI, and machine learning
- Developed a certificate text detection and recognition model and parameterized customs operational guidelines, achieving intelligent recognition and automated comparison of attached documents.

CASE

2

SMART CERTIFICATE AUDIT



RESULTS



An accuracy rate of over **95%**



Manual
comparison

More than **20 min.**



Smart Certificate Audit **2 min.**



THANKS

HONGYE WU, CHINA CUSTOMS

E-mail: wuhongye@customs.gov.cn