The Changing Role of Customs

Customs Processes

aligning with

Supply Chain and Information Management

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Pushing Boundaries Vision

mutual recognition

administration checks

system based approach & physical checks at destination

TRUSTED TRADER

TRUSTED TRADE LANE

declaration checks

physical checks
Automated Detection

Automated detection

- Aviation and maritime ‘virtual networks’: radar images
- Nuclear detection gates
- Non-intrusive scanning equipment and algorithms
  - Artificial intelligence systems that assess scanned images and signal irregularities
  - Predictive models for goods scans
- Infrastructure to store, collect and process sensor data

- Projects on X-ray scanning and detection technology Dutch Customs
  - C-BORD (Effective Container Inspection at Border Control Points)
  - ACXIS (Automated Comparison of X-ray Images for cargo Scanning

- Shifting (in parts) towards 100% inspections based on state of the art technology.
Risk selection

Various checking instruments
collect - validate - process
Data analyses

- Algorithms and filtering techniques
Selection

- Minimising the number of false positives
Pushing Boundaries

Layered enforcement model

The right steps in the right direction
Flow of goods

- Smart and secure trade lanes
- Proven reliable economic operators
- Goods from unknown businesses
3. Green, Yellow and Blue Flows

Data pipelines for the Yellow flows
(Data pipeline concept developed in a series of EU-funded innovation projects ITAIDE, INTEGRITY, CASSANDRA, CORE)

Hesketh/Heijmann (2010)
The Spot on the Horizon

Enablers
- Automated detection
- Intelligence
- Data Analytics / Algorithms
- Yellow, Green and Blue lanes
- Coordinated Border Management
- Blockchain?

Human Talent
Customs education:
- Master
- Bachelor
- Associate
- Minor
Skills:
Supply Chain – IT – Compliance - Legal

Smart Enforcement - Smooth Logistics
Thank you