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Agenda Item: 5.4

Customs and Border Protection (CBP): Artificial Intelligence (AI)-Powered Supply Chain Management

Purpose: Information

Submitted by: United States



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Customs and Border Protection (CBP): Artificial Intelligence (AI)- Powered Supply Chain Management

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- CBP's mission is to protect the American people, safeguard our borders, and enhance the nation's economic prosperity, and by utilizing AI and automation, CBP is advancing its ability to meet these goals with **greater efficiency, accuracy, and adaptability**.
- Under Department of Homeland Security (DHS) Secretary Noem, the Trump administration's commitment to government efficiency and technological modernization through initiatives further strengthened by the integration of AI underlying an Intelligent Custom Framework which **streamlines operations, enhances decision-making, and ensures that modernization efforts deliver measurable improvements in public service**.





1. Explosive Growth in Trade Volume

- Global trade volumes are increasing rapidly, overwhelming traditional customs processes.
- AI enables smarter, scalable solutions to manage higher transaction loads efficiently.



2. Evolving Threats Require Advanced Detection

- Smuggling, trafficking, and other illicit activities are becoming more sophisticated.
- AI-powered analytics and machine learning enhance threat detection and risk assessment.



3. Automation streamlines Processes

- Automated document processing and data analysis reduce manual workloads.
- AI-driven automation accelerates customs clearance, minimizes errors, and improves compliance.



4. Cost Reduction and Efficiency Gains

- AI optimizes resource allocation and reduces operational costs.
- Enhanced efficiency allows customs agencies to focus on high-priority tasks and improve service delivery.

AI Applications in CBP's Supply Chain Management

AI in Action: Revolutionizing Supply Chain Security



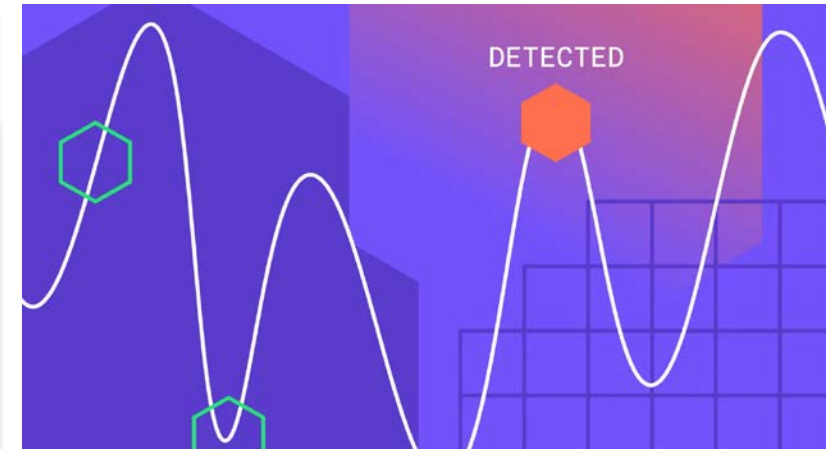
AI-Powered Risk Assessment

AI analyzes vast datasets to identify high-risk shipments with greater accuracy than traditional methods.



Predictive Analytics for Targeting

AI predicts potential smuggling attempts and helps CBP target inspections more effectively.



Automated Anomaly Detection

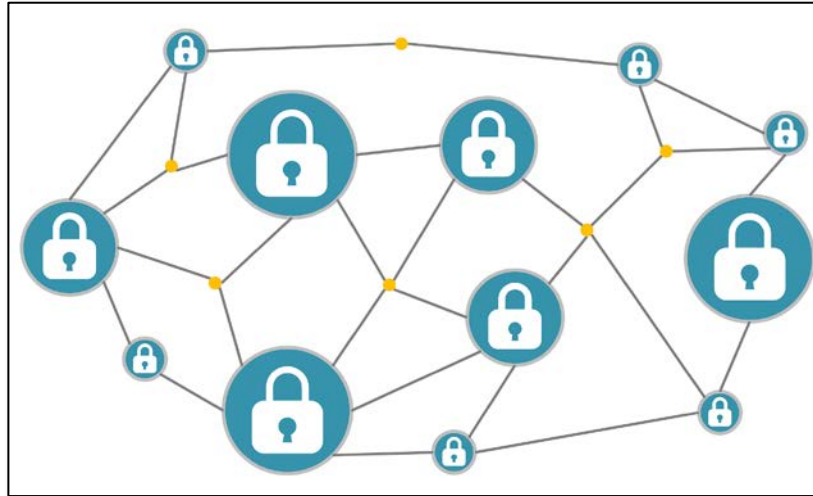
AI identifies unusual patterns in trade data that may indicate illicit activity.

AI Applications in CBP's Supply Chain Management



Electronic Documentation & Paperless Processing: (ACE/ Single Window)

Automating customs forms and documentation reduced paperwork, speeded up processing times, and minimizes errors.



Supply Chain Transparency with data interoperability:

AI technology enhances transparency and security by providing a tamper-proof record of transactions.



Automated Border Clearance:

Utilizing AI technologies to automate border clearance processes for trusted traders.

The Payoff: Efficiency, Security, and Economic Growth



Enhanced Security and Reduced Risk of Illicit Trade

- AI-powered analytics improve detection of contraband, illegal goods, and security threats.
- Real-time data analysis enables faster response to emerging threats.

Faster and More Efficient Processing of Legitimate Trade

- Automated document review and risk assessment speed up customs clearance.
- Improved accuracy in processing reduces errors and rework.

Cost Savings Through Automation

- Automation reduces paperwork, manual data entry, and overhead.
- Resource optimization allows CBP to allocate personnel to higher-value activities.

Support for Economic Growth

- Faster processing and reduced trade barriers facilitate smoother international commerce.
- Enhanced security and compliance build trust with global trading partners.

CBP: Leading the Way in AI-Powered Customs

CBP remains firmly committed to innovation, continually investing in advanced technologies to modernize customs operations.

As a recognized leader in AI-driven customs modernization, CBP seeks to set the standard for leveraging artificial intelligence to enhance security, streamline trade, and drive operational excellence.

