

JONATAS
LEITE
CCO
VMI SECURITY



World Customs Organization
Organisation mondiale des douanes



Challenges



Growth of global trade and e-commerce.



Transportation is getting **bigger and faster.**



Terminals with **limited size or technology.**



More **rigorous controls.**



Increasing rates in **international drug trafficking.**





AIR CARGO



CHALLENGES

Logistics vs. Security

1 Operational
Efficiency

2 Smart
Tax control

3 Security
Efficacy

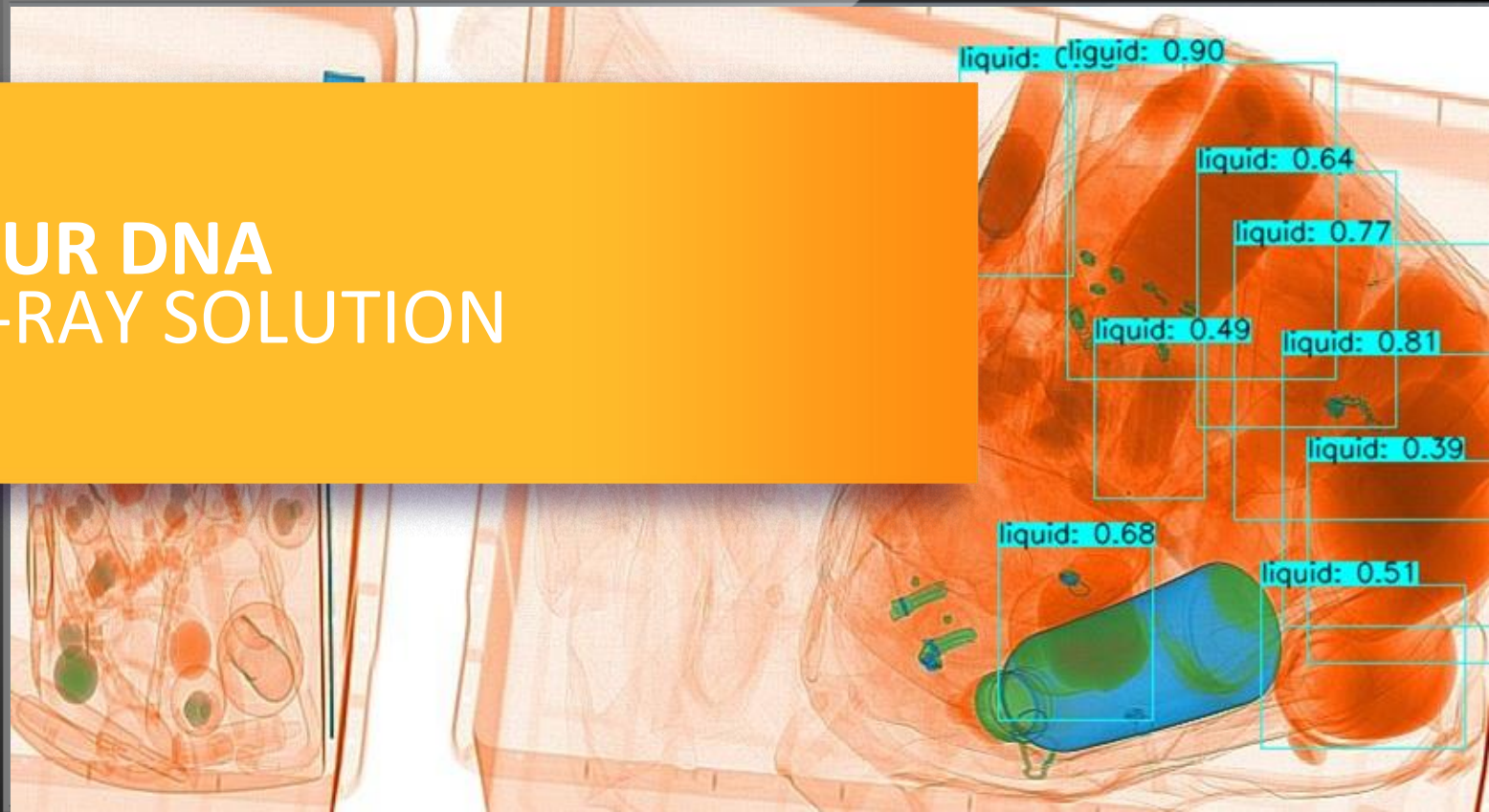
A large cargo aircraft is shown from a front-on perspective, positioned on a runway at night. The aircraft is illuminated by a bright light source, likely the runway lights, creating a strong glow around it. The background is a dark, cloudy sky. In the bottom right corner, there is a stylized geometric graphic composed of several overlapping shapes in shades of blue and yellow, resembling a large letter 'K' or a similar abstract design.

X-ray technology offers
Efficiency and Security
in the air cargo processing.

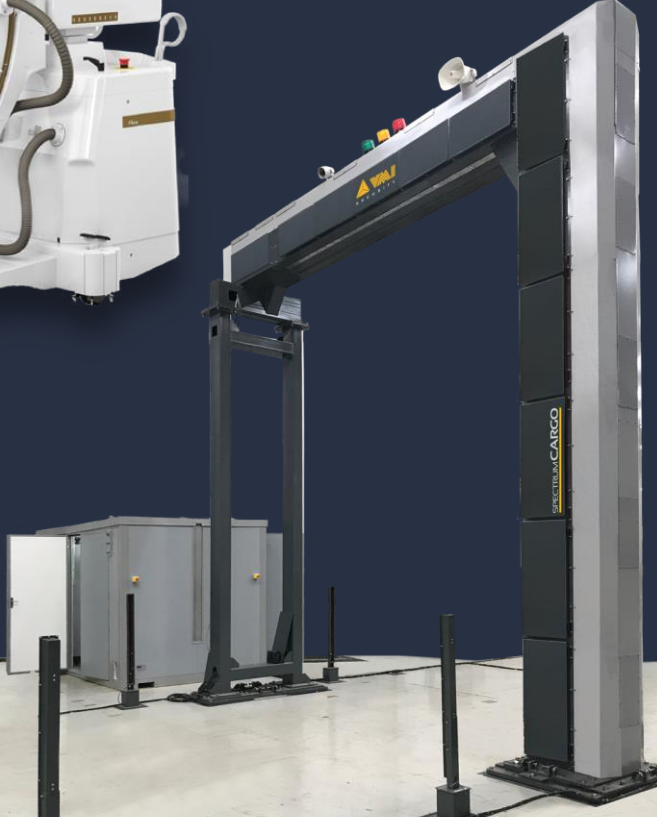
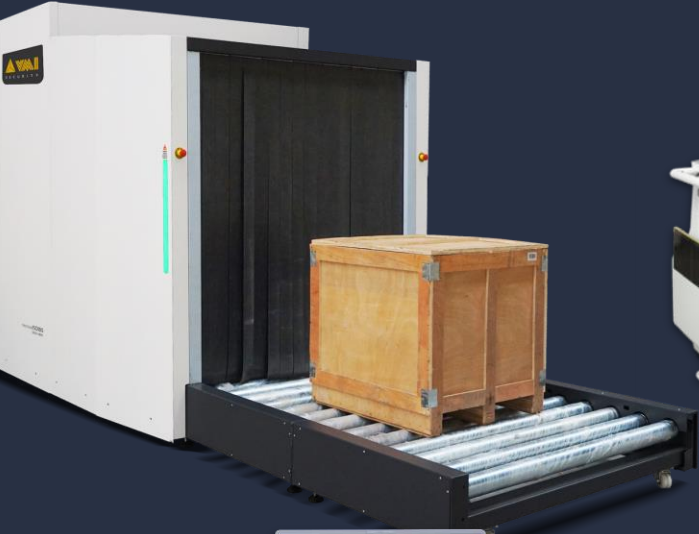


S E C U R I T Y

/// **OUR DNA**
/// X-RAY SOLUTION

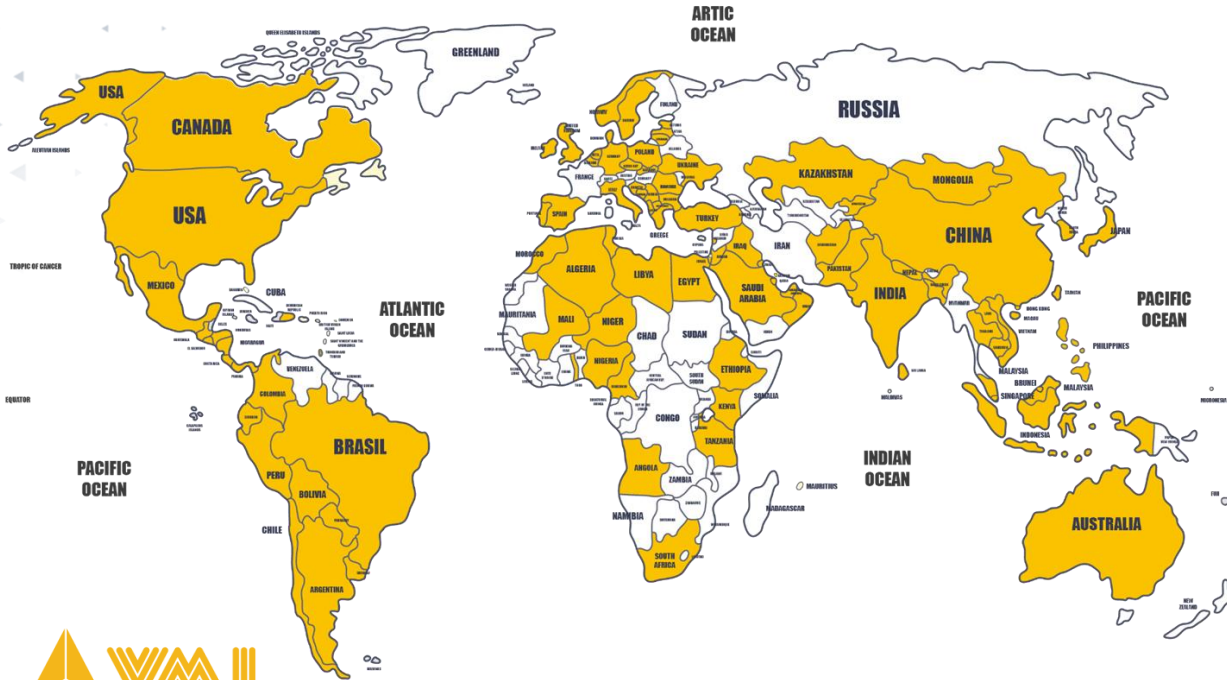
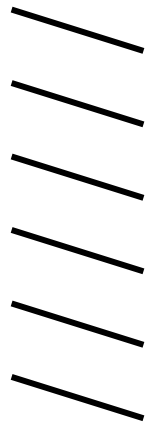


Biggest X-ray Portfolio



GLOBAL PRESENCE

+100
Countries





RESEARCH & DEVELOPMENT



WHAT WE HAVE DEVELOPED FOR **THE SECTOR**

A photograph of a clear plastic storage bin containing various tools and equipment. The image is overlaid with a semi-transparent orange border, representing the concept of image generation.

**Image
Generation**

A photograph of a clear plastic storage bin containing various tools and equipment. The image is overlaid with a semi-transparent orange border and a green dotted line, representing the concept of artificial intelligence.

**Artificial
Intelligence**

A photograph of a man in a white shirt sitting at a desk, looking at multiple computer monitors displaying data and charts, representing data integration.

**Data
Integration**

A photograph of a warehouse interior with blue metal shelving units and a yellow forklift, representing a customized solution.

**Customized
Solution**

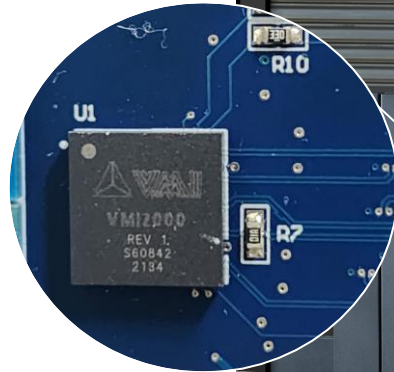
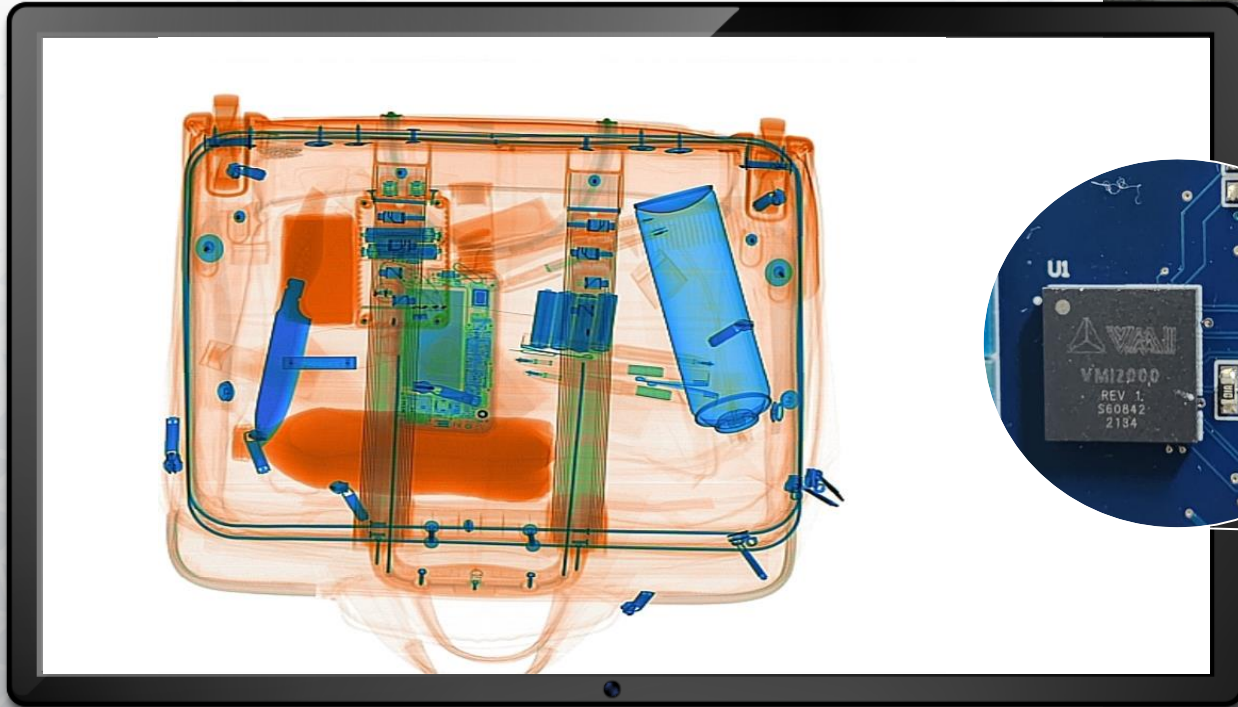


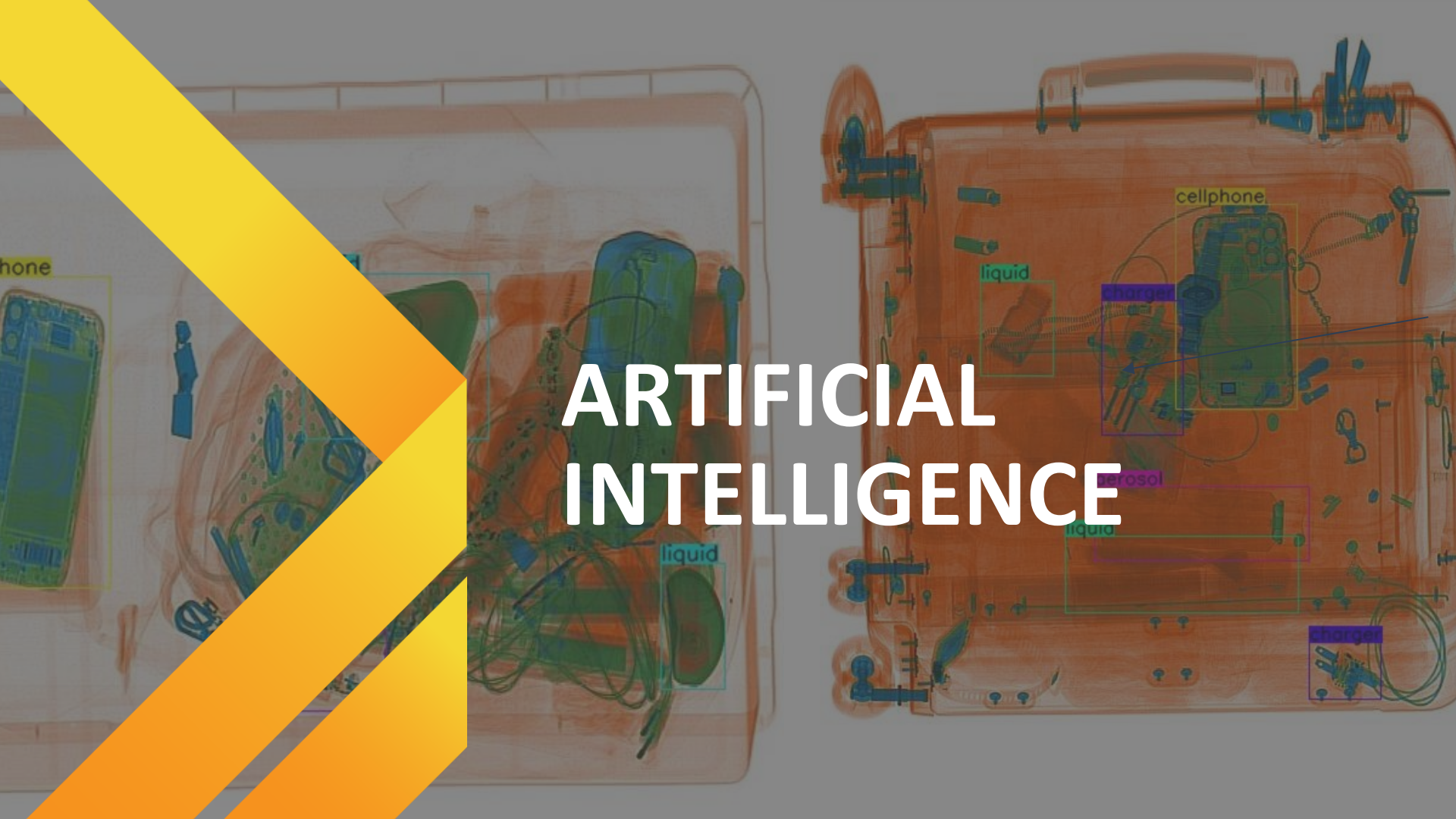
INNOVATION IN X- RAY IMAGE GENERATION

A NEW ERA OF GENERATORS AND DETECTORS



12
COLORS





ARTIFICIAL INTELLIGENCE

hone

cellphone

liquid

charger

aerosol

liquid

liquid

charger

ARTIFICIAL
INTELLIGENCE
**Operacional
efficiency**



AUTO-DETECTION



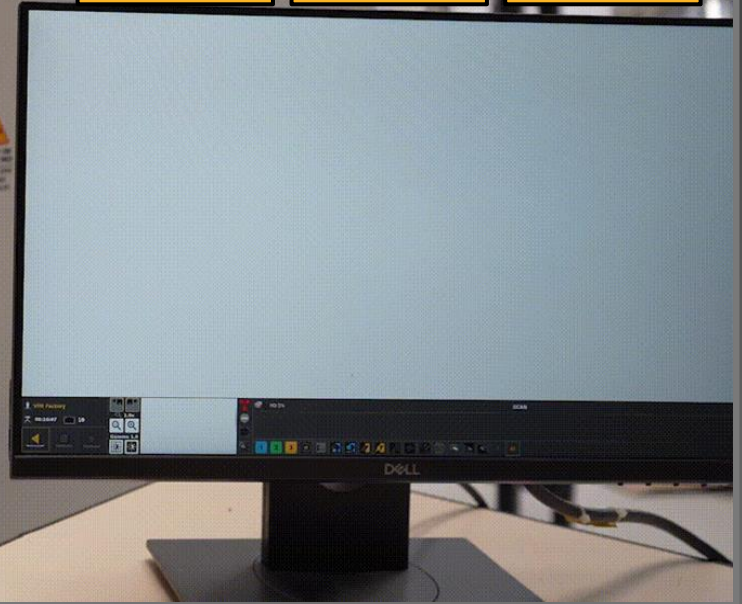
4 OPERATORS
24/7



>95%
accuracy



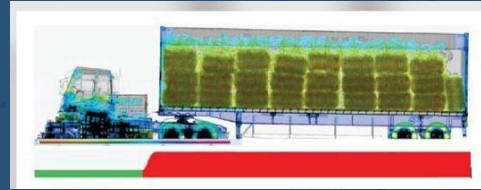
0.1ms
each inspection



ARTIFICIAL
INTELLIGENCE
**Smart
Tax control**



Artificial intelligence helping to identify tax evasion



AI uses invoice data to analyze images

DECISION SUPPORT:
suspicious cargo detected
on operator's screen



Estimated detection of potential tax evasion cases



John Smith

INVOICE

4490 Oak Drive
Albany, NY 12210

Bill To
Jessie M Home
4312 Wood Road
New York, NY 10031

Ship To
Jessie M Home
2018 Redbud Drive
New York, NY 10011

Invoice # INT-001
Invoice Date 11/02/2019
P.O.# 2412/2019
Due Date 26/02/2019

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
1	100 Cigarettes	100.00	100.00
2	100 Cigarettes	50.00	100.00
3	100 Cigarettes	50.00	150.00

Cigarettes

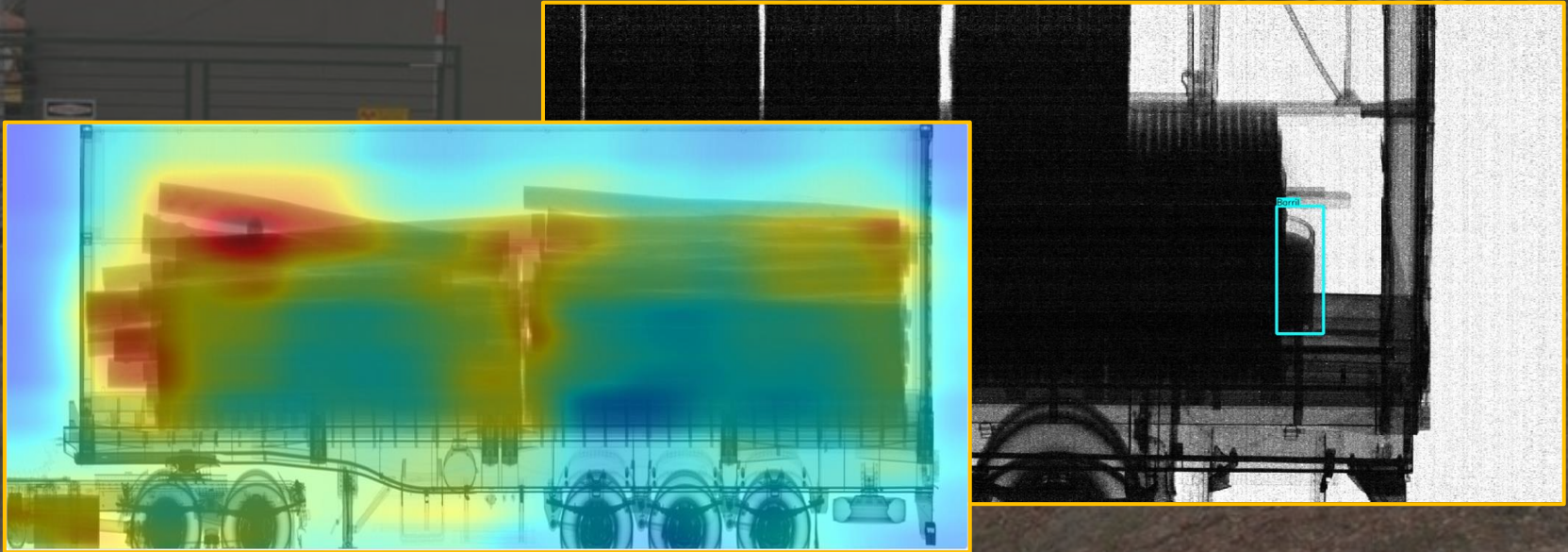
John Smith

Cigarette

Terms & Conditions
Payment is due within 15 days

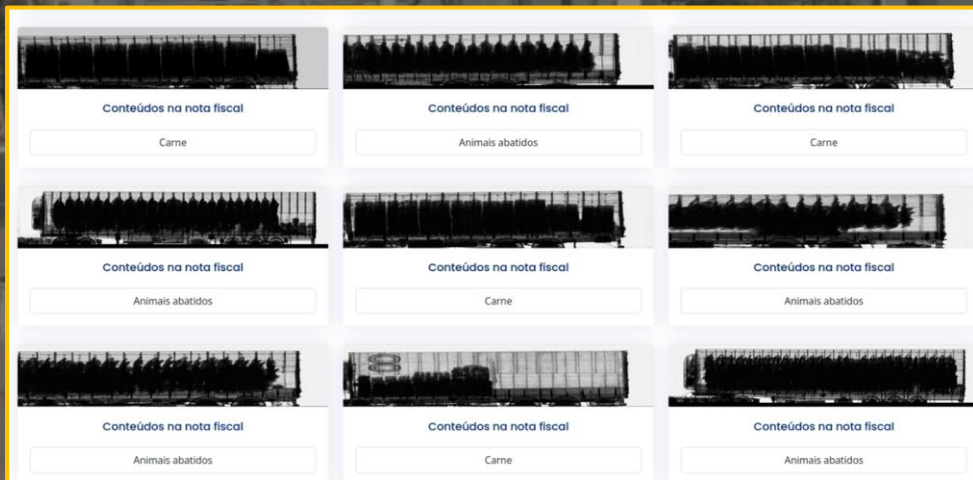
Name of Bank:
Account number: 1234567890
Routing: 098765432

Detection of anomalies

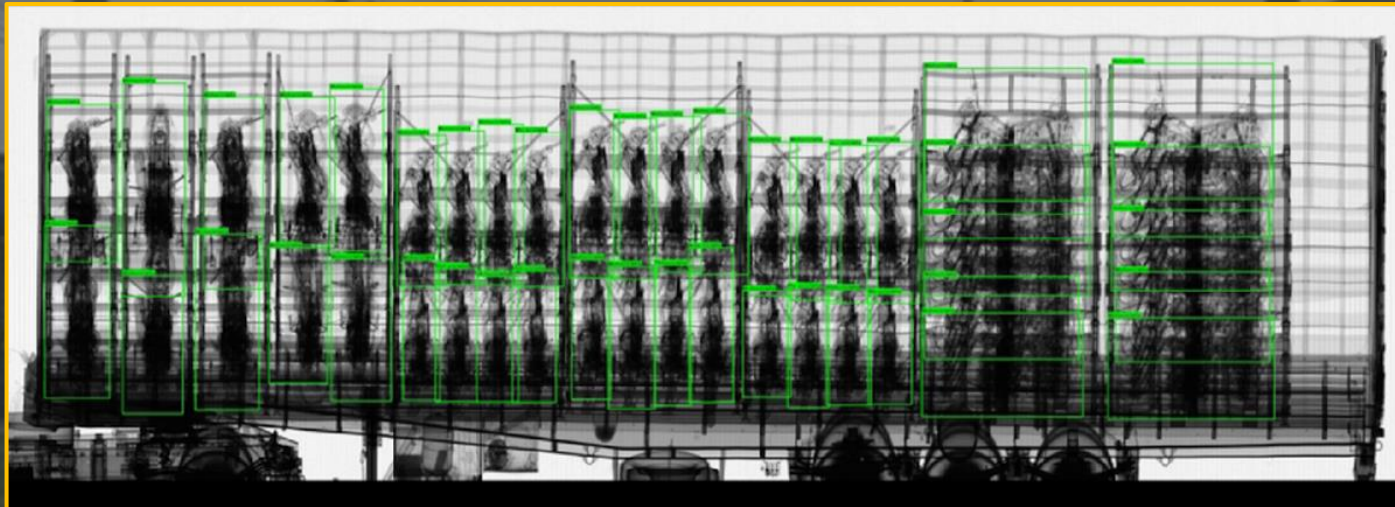




**Suggestion of images
by similarity**



Estimated count of objects and weight



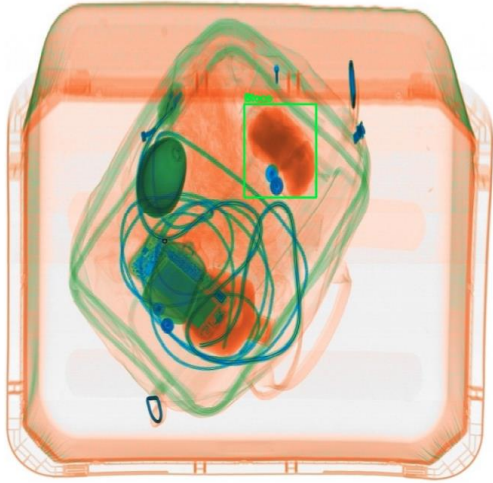
Empty container detection



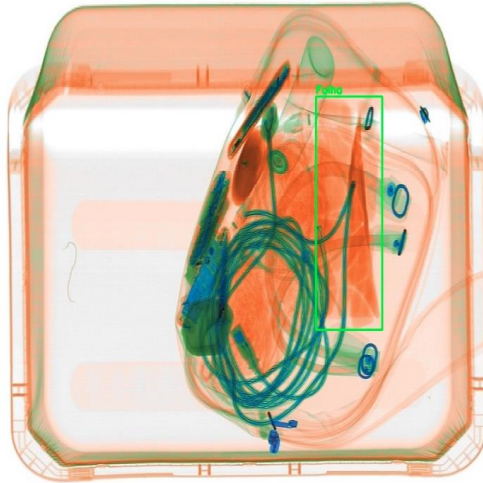
ARTIFICIAL
INTELLIGENCE
Security
Efficiency



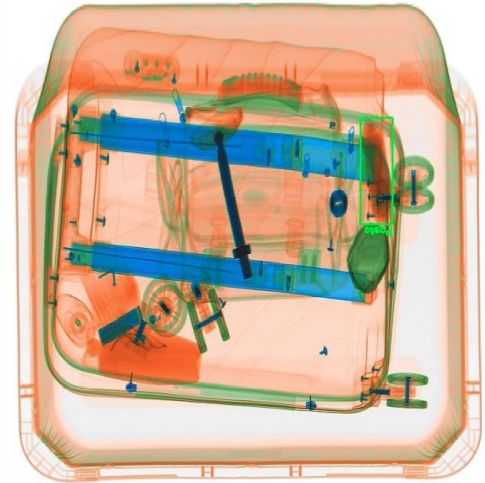
EXPLOSIVES



Block-shaped explosive test piece.



Sheet-shaped explosive test piece.

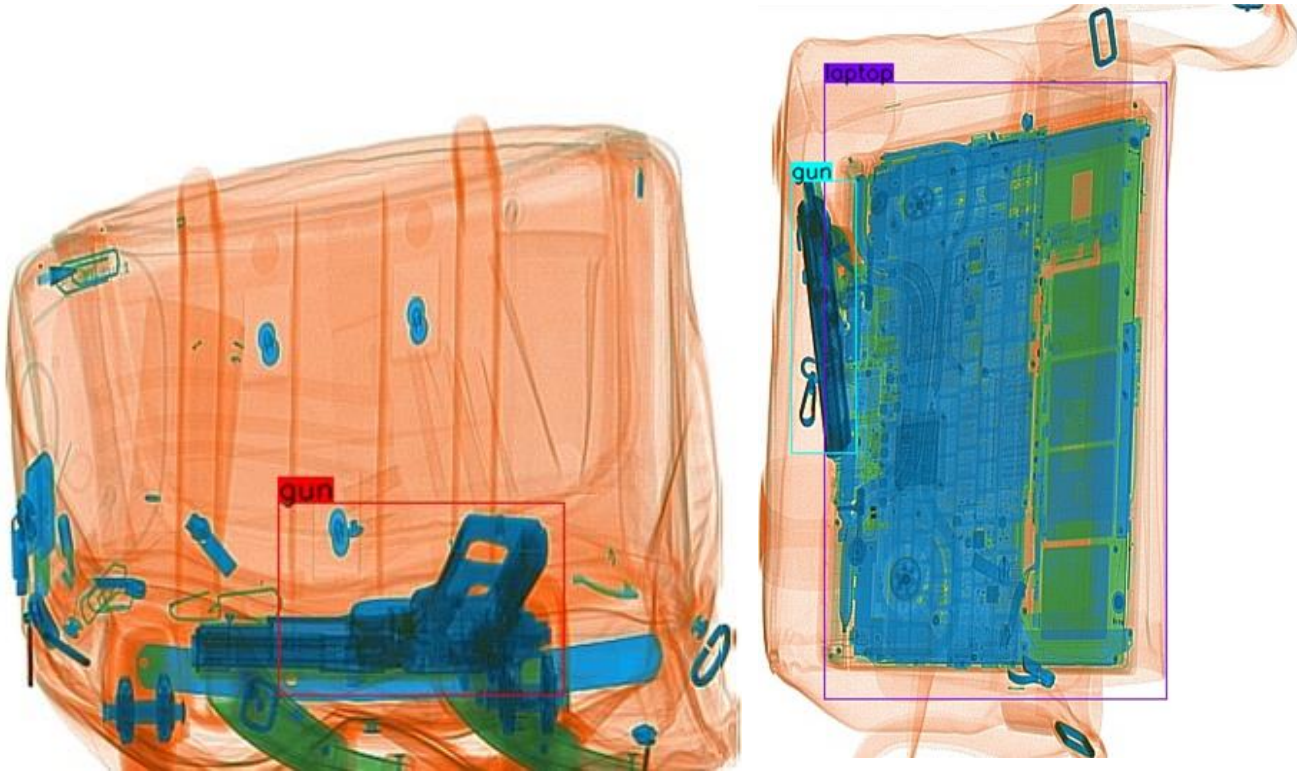


Explosive test piece in paste form.

NARCOTICS



FIRE GUNS



BATTERIES





DATA INTEGRATION



BIG DATA

CONNECTED FUTURE

AIRPORTS

PORTS

VSS/STVV

CARGO REGISTER

API / BI / APPS

X-RAY SCANNERS & WTMD

CT

INTEGRATED IMAGE CENTRE

QR CODE BOARDING GATES

X-RAY SCANNERS

OCR SYSTEM

RFID SEAL/TAG

ELECTRONIC SEAL

SCALE

FLOOR CAMERA


**CUSTOMS
AUTHORITIES
AND LAW
ENFORCEMENT**





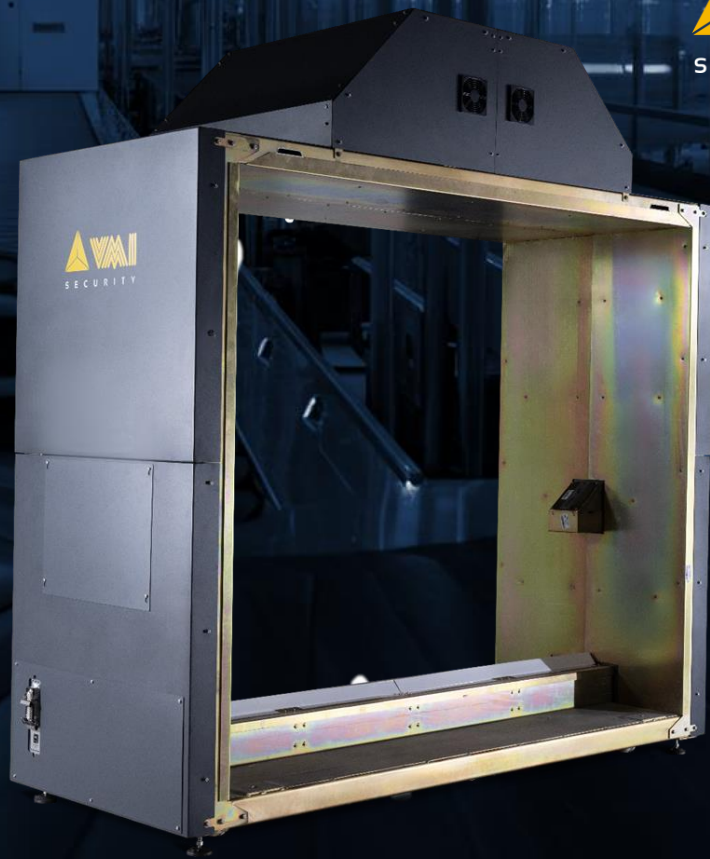
CUSTOMIZATION



SCANNER FOR CONVEYOR BELTS



2 m/s





THE SOLUTIONS YOU ARE
LOOKING FOR CAN BE FOUND
IN X-RAY TECHNOLOGY



JOINING
FORCES

THANKS



SECURITY

www.vmisecurity.com

