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Integrated Design for Aviation Security System



同方威视技术股份有限公司
NUCTECH COMPANY LIMITED



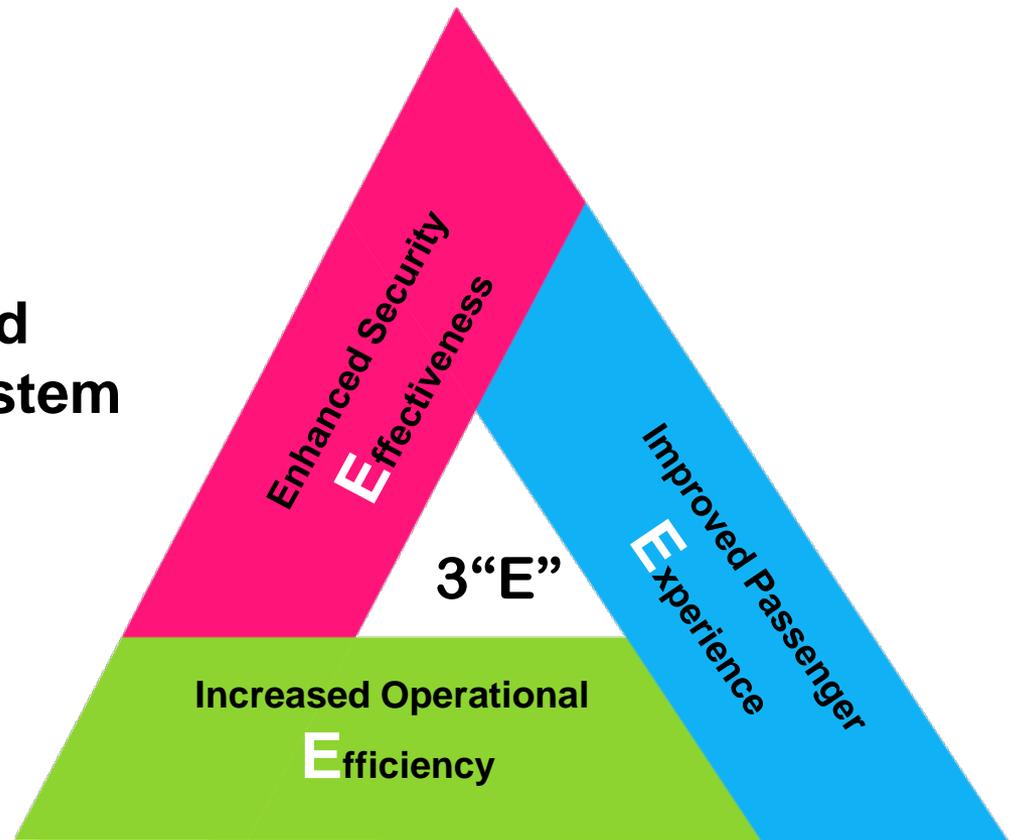
About NUCTECH

- ❑ Founded in 1997.
- ❑ Top 4 EWC detection system supplier in the world
- ❑ Owns all intellectual property rights to the core technologies.
- ❑ Products sold to over 120 countries and regions worldwide.

Mind the Gap - Vulnerabilities & Challenges in Aviation Security

Goals of improving aviation security

Successful Integrated Aviation Security System



Design Response



Security should be proportionate to threat

Design Response

No “One-Size-Fits-All” Solution



Design Response

Passenger data collection & risk assessment

Security design - layered approach

Integrating new technologies

Reducing human impact and cost

Integrated Design for Aviation Security System

AVIATION
Security Solution

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Checked Baggage
Security Solution



Passenger & Baggage
Security Solution



Air Cargo
Security Solution



Perimeter Access
Security Solution





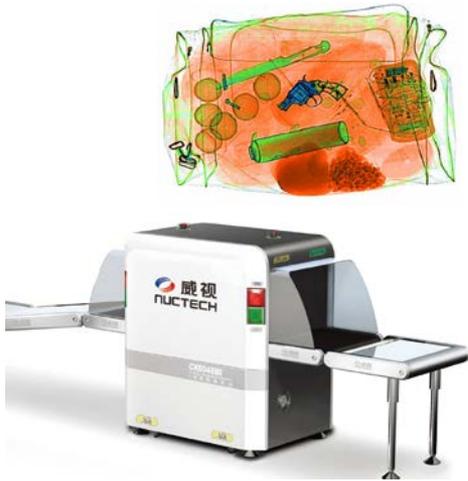
Design for Checkpoint Security

Risk based security requires data integration`
Layered security approach



Design for Checkpoint Security

Technologies for baggage screening



Conventional X-ray



Dual-View AT



CT Technology

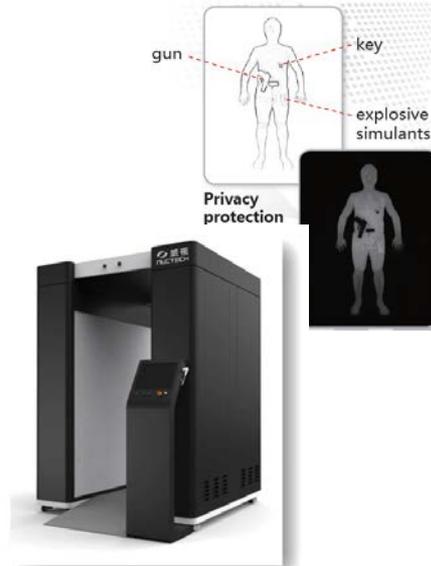
Design for Checkpoint Security

Technologies for advanced body screening

All in non-intrusive way & Leave coats on without divesting metals



Active Millimeter Wave



X-ray Backscatter



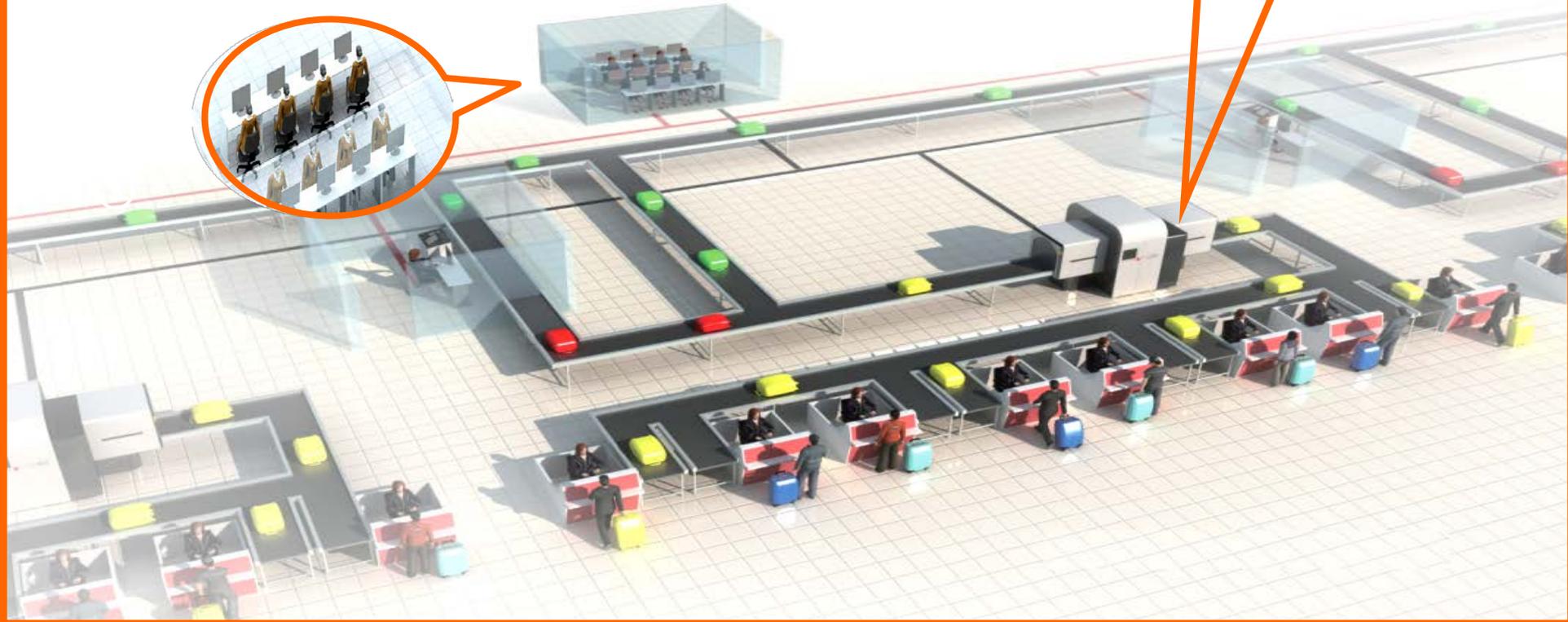
X-ray Penetration

Design for Checked Baggage Security

High speed in-line CT type EDS

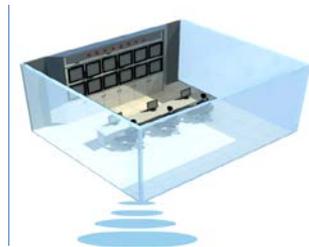
Centralized image analysis with automatic decision algorithms

High speed CT type EDS



Design for Air Cargo Security

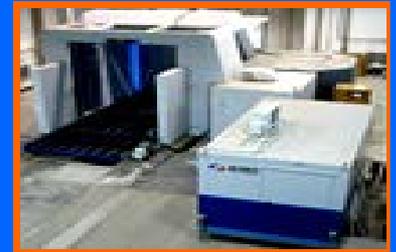
Technologies tailored to the cargo being shipped for maximum efficiency



Network



Container screening



Pallet cargo screening



Baggage screening

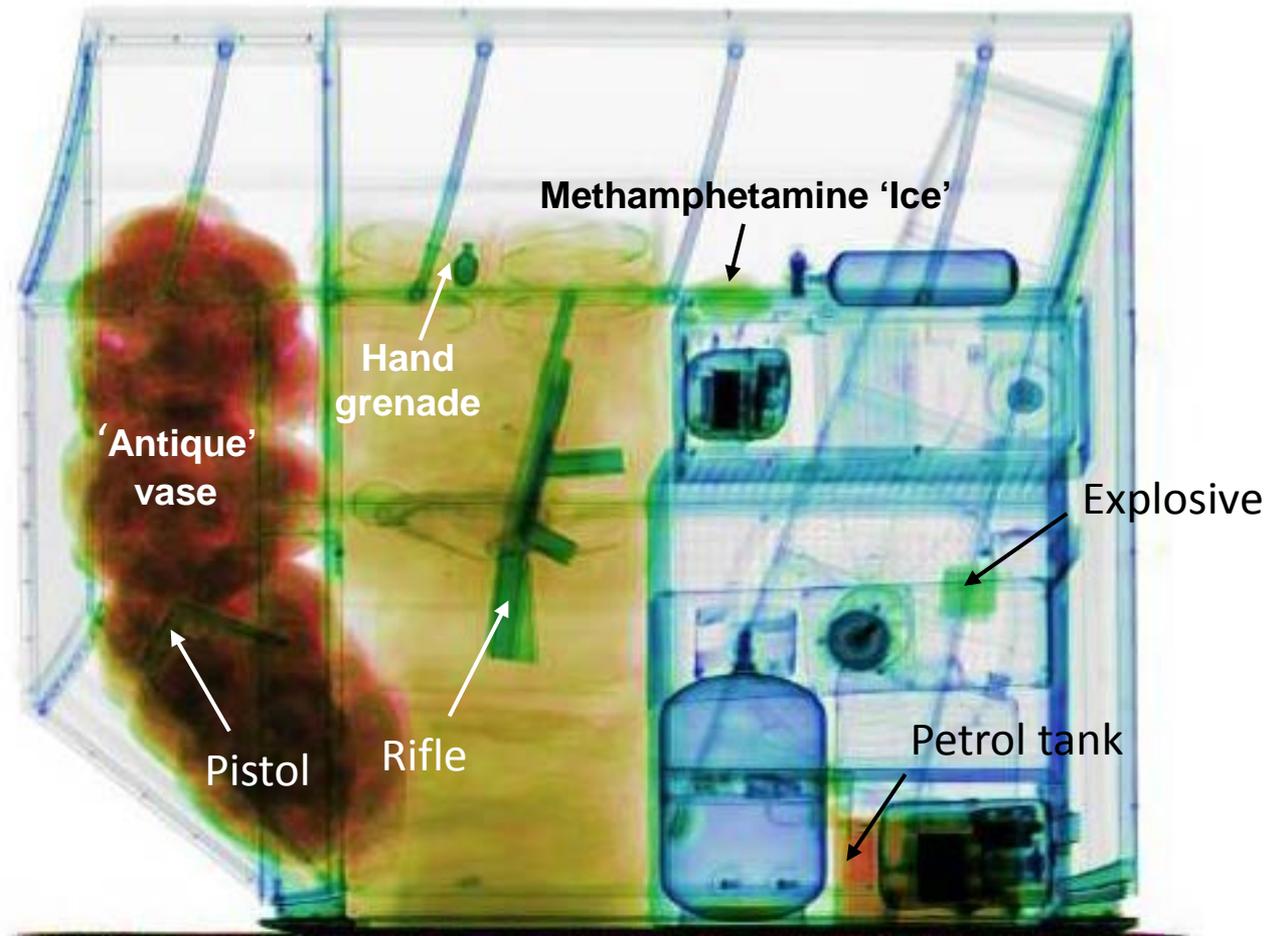


Design for Air Cargo Security

Fast Interlaced Neutron and Dual-Energy X-ray Imaging (FINDEX)

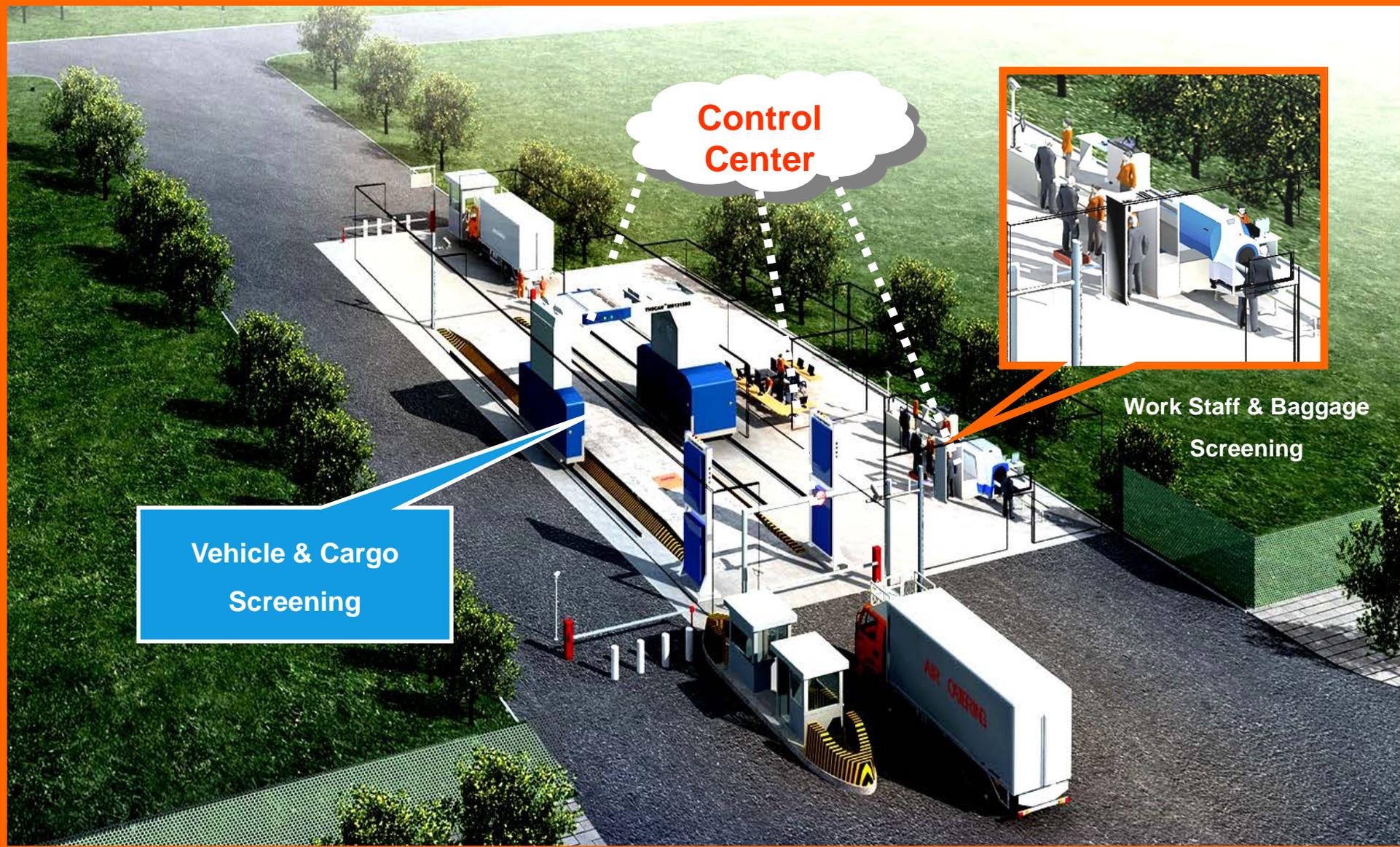
Developed by NUCTECH CHINA and CSIRO AUSTRALIA

- Enhanced material discrimination
- Automated detection for SNM and explosives



Design for Perimeter Access Security

Increase layer of perimeter access security



Control Center

Vehicle & Cargo Screening

Work Staff & Baggage Screening

NUCTECH Rooted in Aviation Security Market in China

Covering 90 airports including top 50





Thank you!



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