

Solving Tomorrow's Hold Baggage Screening Challenges

Smart. Efficient. Sustainable.



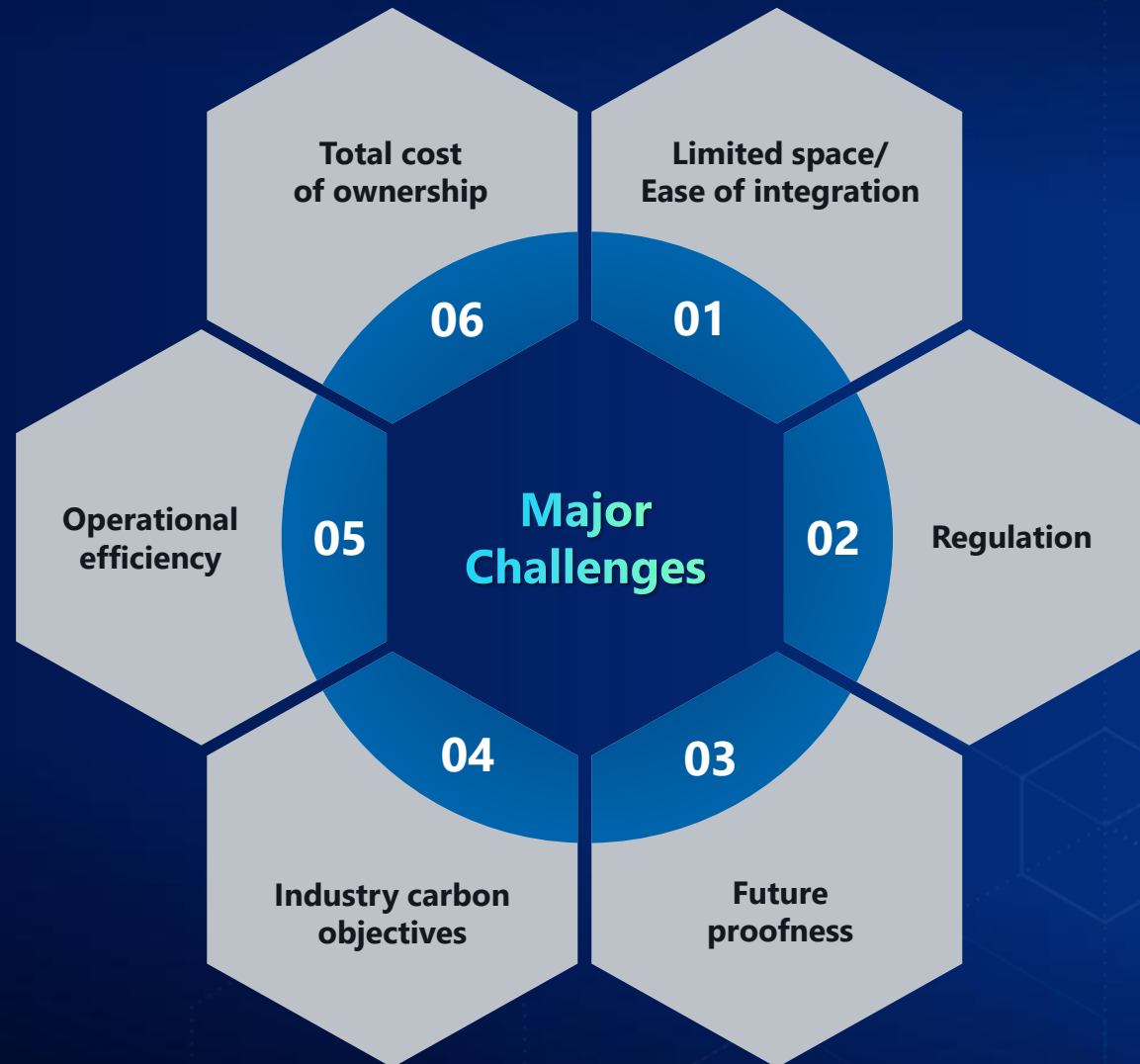
Susanne Kruppa

Senior Product Manager
Hold Baggage Screening

7 October 2025, Munich



Hold Baggage Screening | Major Challenges



The SDX 10080 SCT | Modular by Design

SDX 10080 SCT - CT-only

SDX 10080 SCT LS - with Line Scanner (LS)



Field upgradeable



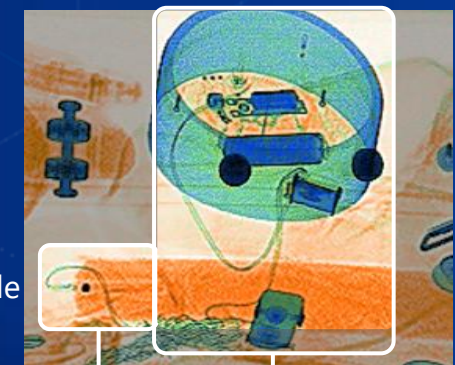
Compact & cost efficient

- > **Compact solution**
Minimised footprint, weight and energy consumption
- > **Same footprint as CTX 9800**
Easy drop-in replacement



Increased operational efficiency

- > **High-resolution 2D images**
Shorter and more reliable on-screen resolution
- > **Self-redundancy**
CT-only or LS-only mode, in case of failure in one module
- > **Same footprint as HI-SCAN 10080 XCT**
Easy drop-in replacement



Detonator

Wires &
Trigger

smiths detection

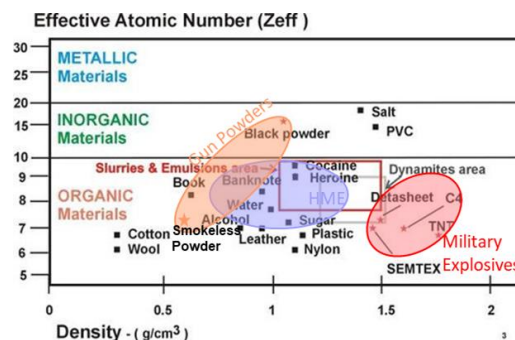
The SDX 10080 SCT | Meeting Current and Future Standards

Quality of detection algorithms (POD and FAR)

SDX 10080 SCT: Dual-energy CT delivering maximum data

Quality of data

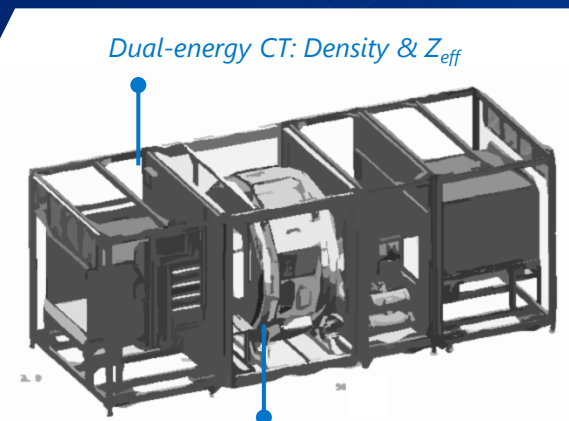
1. Density
2. Z_{eff} : Material Discrimination



Dual-energy CT scanner

1. Density and Z_{eff} in 3D volume
2. Generating more than 1200 views per rotation

Optional Line Scanner, not relevant for explosives detection



Dual-view, dual-energy Line Scanner: 2D image

Quantity of data

- > Maximised views
 - > Thin-layered explosives detection
- Industry assumption: **min. 400 views**

Systems which accurately measure both parameters (Density & Z_{eff}) outperform others

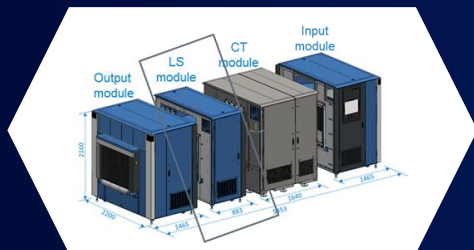
Future-proof system which is designed to meet ECAC 3.2 & TSA 7.3

The SDX 10080 SCT | Technology that Keeps Pace with Change

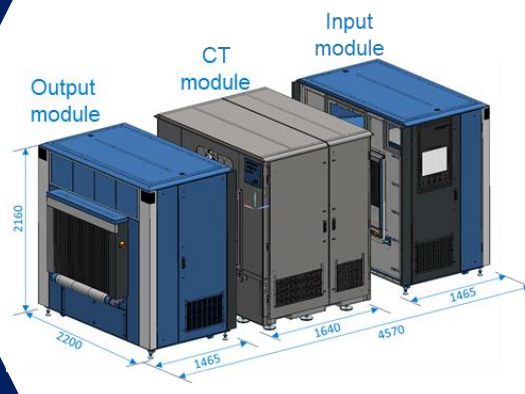
Field upgrade to SCT LS

Operational efficiency:

- > 2D image for quickest and most reliable OSR
- > Self-redundancy



Platform strategy



CT only version:
0.5m/sec

System of systems

Detection of emerging threats



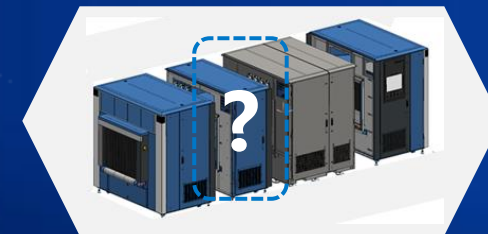
Designed for field upgradeable belt speed

e.g. 0.7m/sec



System of the future

- > Integration of new technologies
- > Expand product capability based on the existing platform



The SDX 10080 SCT | A Sustainable Solution



Reduced energy consumption

- > **Lower carbon footprint |**
Meets environmental targets



Higher conveyor speeds

- > Scaling with PAX / cargo volume growth

- > **Expand product lifecycle**



Re-use of core: Future-proof against evolving standards

- > Software upgrade only for upcoming standards (ECAC 3.2, TSA 7.3)
- > Expand product capability based on the existing platform (e.g. X-ray Diffraction)

- > **Expand product lifecycle**



Additional item detection

- > Expand capabilities through algorithms (e.g. dangerous goods)

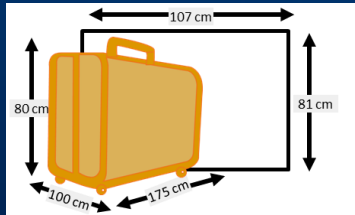
- > **Multi-use of images to reduce demand of additional systems**

Reduce consumption of resources through smart system design and expanding capabilities

The SDX 10080 SCT | Maximised Operational Efficiency

Maximise in-gauge screening:

Large rectangular tunnel



Maximise throughput: >1,800bph

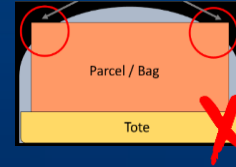
- > Uninterrupted operation (No stop for calibration)
- > Minimised object spacing: +3% to theoretical standard and 6-8% to market
- > Cut-less image processing

Support in-tote screening:

Clear Passage



!Potential Jam Areas!



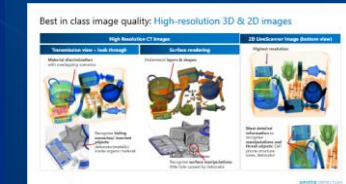
Minimise interference of curtains:

Empty suitcase screening & packages <1kg



Best-in-class image quality:

Shortest and most reliable on-screen resolution



Level 1

Level 2

Level 3

On-screen resolution

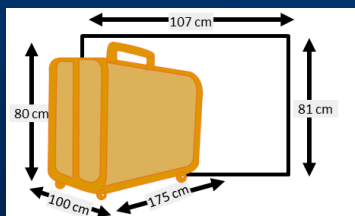
Recheck



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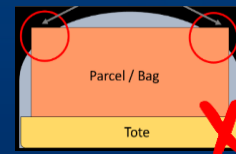
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Level 1

Level 2

Level 3

On-screen resolution

Recheck



SDX 10080 SCT | Lowest total Cost of Ownership

Air based cooling system: no air-con, no external cooling required

- > Significantly reduced energy consumption
- > Well proven cooling concept based on mature products (EDX-2is, CTiX)



Benefit:

- > Less complex & simplified cooling system
- > No construction works
- > Higher reliability

Smart Design

- > Bearingless design
- > Reduced complexity, less components
- > Self Redundancy (CT and LS)



Benefit:

- > Increased reliability & availability

The SDX 10080 SCT | Solving Tomorrow's Hold Baggage Screening Challenges

Smart.
Efficient.
Sustainable.



Thank you for your attention.

Visit our stand.
Hall B5 | Stand 1410



Susanne Kruppa

Senior Product Manager
Hold Baggage Screening

