

Exruptive Cabin Baggage Scanner

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So what? Who cares?

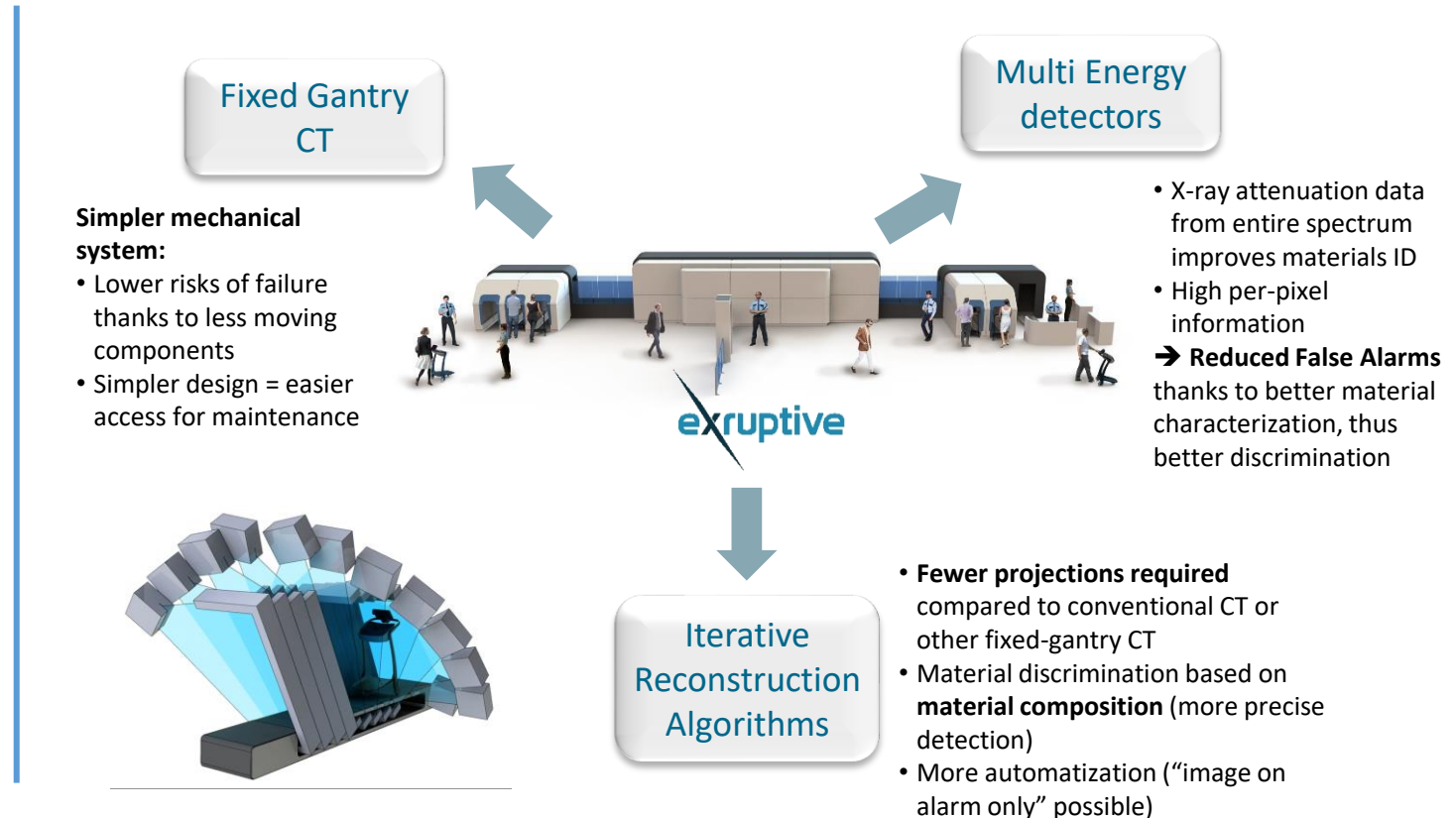
- **Space:** Scanning of Cabin Baggage
- **Problem:** Diversion into trays and totes takes time
- **Solutions:** 1) Cabin baggage are placed on trolleys that are scanned. 2) Scanning of entire trolley through use of multispectral detectors from multiple angles providing CT-like characterization
- **Integrated concept:** Passengers paired with trolley through scanning of boarding card. Preparation for security through on-screen instructions. Conventional bodyscanning/WTMD still required for passenger screening. Passenger can keep trolley after security for navigating all the way to gate.
- **TRL:** 6-7. Scanner concept confirmed in 2014-15, passenger and trolley flow in 2016-17. ECAC testing late 2021.

TECHNOLOGY AND PERFORMANCE

Scanner: Stationary gantry, 12 views, multienergy, arithmetic reconstruction. Material ID over shape. Possibility of future upgrading with diffraction module.

Trolley: "Integrated tray return system" Parallel in/output, single conveyor through core scanner.

Performance per line: 450 PAX/h, Footprint of ca. 32 m² per scanner, 168 m² per line



Thank You

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The Exruptive CT Cabin Baggage Security Solution

- Combining cutting-edge X-ray technology with an advanced design increases throughput to highest available i.e. 450+ pax/line/hour. Fixed gantry design further ensures reduced lifespan costs and lowest possible scanning cost per pax
- Innovative processing creates a smoother and less stressful airport security process with a significant non-aeronautical revenue potential



ITS turns the passenger trolley into a digital assistant

- Providing the passenger with individual flight & gate information, terminal map, and wayfinding services. Individual and intelligently selected advertising boost traffic into airport restaurants and shops.
- Hands-free while moving so no stress of juggling phone and trolley/kids/shopping bags/carry-on luggage while finding way to gate and commercial outlets



Automation of last and first mile baggage handling

- BBHS semi automation between airport BHS and aircraft yields operational and financial benefits