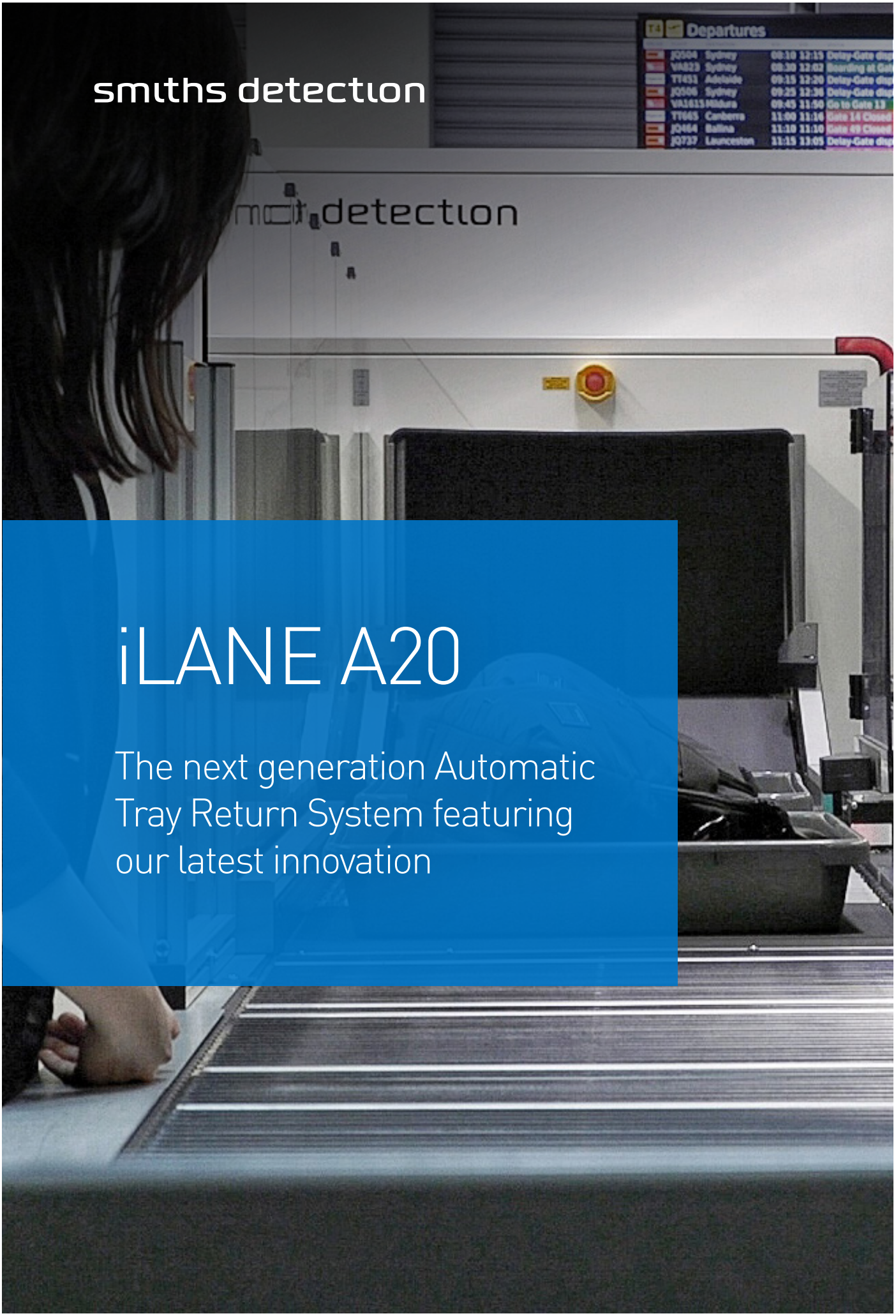
smiths detection



iLANE A20

The next generation Automatic Tray Return System featuring our latest innovation

A new fully Automated Tray Return System (ATRS) iLane A20 was designed to increase throughput, reduce queues and improve operational efficiency at aviation passenger checkpoints.

Innovation in lane design and function removes bottlenecks and keeps the process moving.

Seamless and efficient process

Having developed the first ever automated tray return system back in 2007, this intelligent lane has evolved from our extensive experience in integrated checkpoints and meets the most demanding operational requirements.

Parallel divest, automated tray return, empty tray verification and diversion of suspicious bags ensure effective throughput and support a seamless, passenger friendly screening process. iLane A20 improves staff productivity and reduces operational costs, while offering optimised ergonomics to operators.

Modular and customisable configurations

iLane A20 is modular and flexible, offering standard lane configurations which can be customised to suit individual throughput levels, aesthetics needs and space restrictions. Customers can choose between various cladding colors and LED lighting effects. Divest and reclaim are also available in different heights: 750 mm, 800 mm, or 850 mm.

Easy to add or change modules can accommodate varying requirements, reducing the cost of change or upgrade with no need to replace the whole lane.

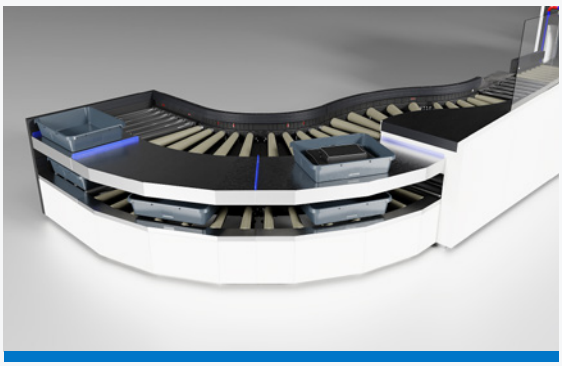
Marcus Pedersen design cladding is also available for a seamless passenger experience. The high-quality materials and intuitive, ergonomic design with clean lines and gently curved surfaces fits into any architectural environment and helps guide people through the checkpoint.

Streamlining the screening process

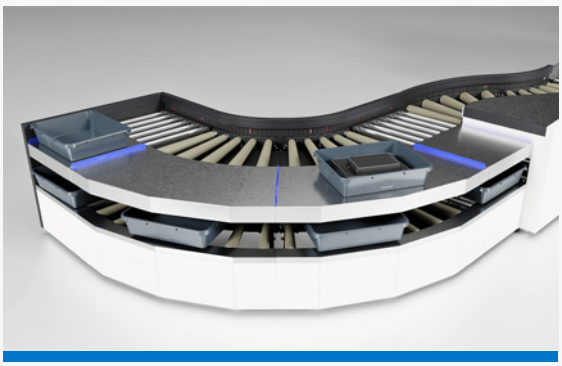
Delivering a steady flow of trays, the automatic tray return system iLane plays a critical role in streamlining the screening process and delivering the subsequent benefits of increased throughput; optimized operational costs; and an improved passenger experience.

Divest Options

iLane A20 comes with a choice of divest modules to suit individual needs and space restrictions.



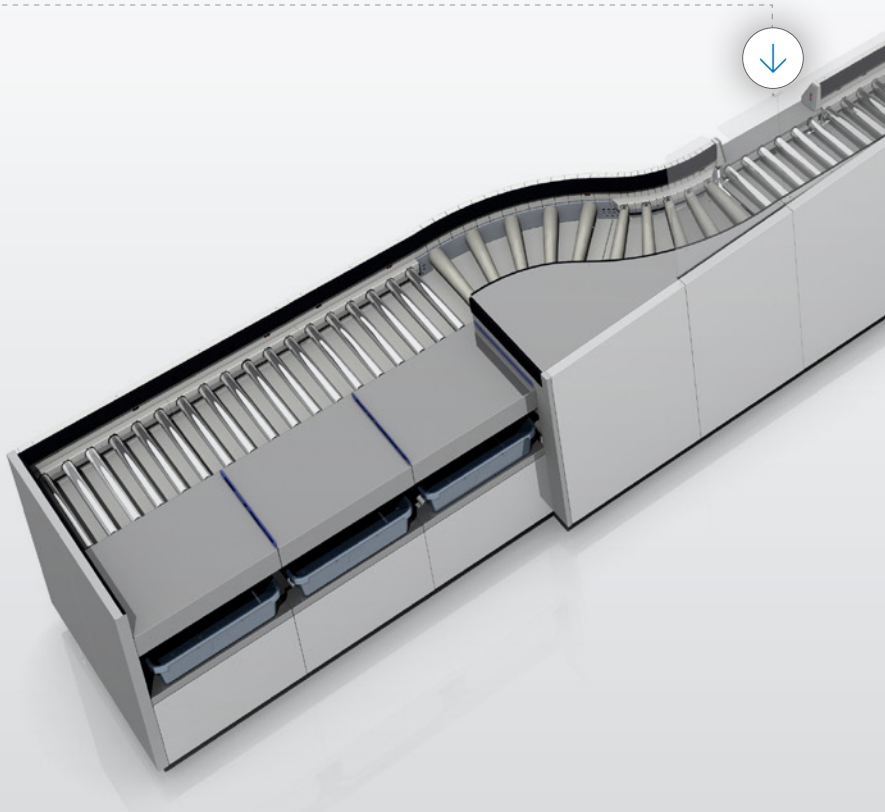
→ 90° curved divest



→ 90° curved divest with one straight module

Last Minute Insertion

The incline module in front of the X-ray system has a lower side profile and a shelf like structure with a light sensor. Trays that need to be re-scanned, can be put on the shelf by the operator and the module prior to the incline is automatically being stopped to allow for the tray to be inserted.

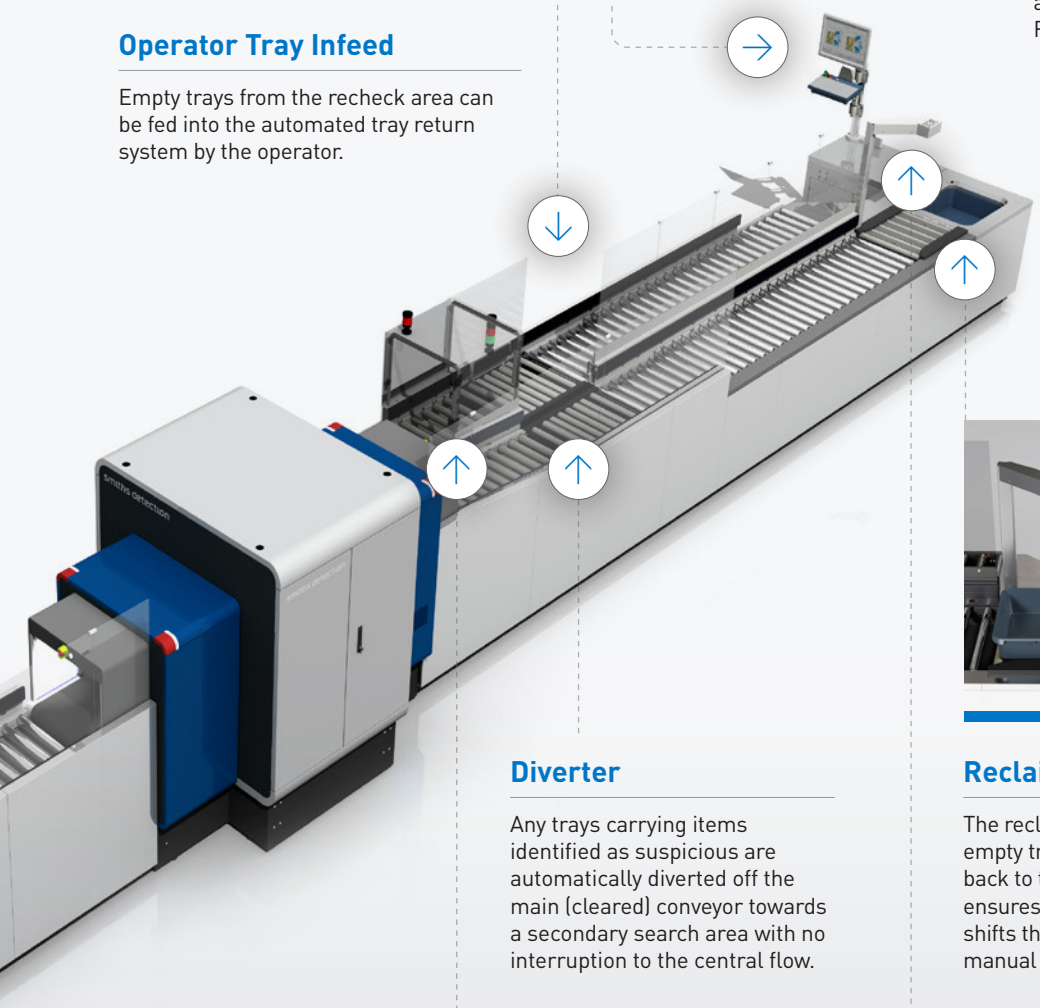


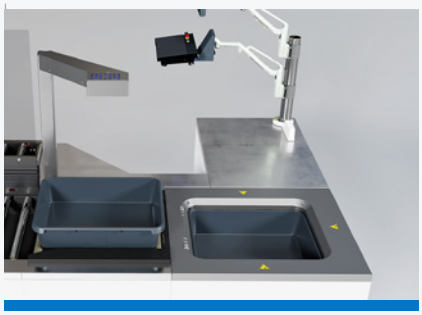
Operator Tray Infeed

Empty trays from the recheck area can be fed into the automated tray return system by the operator.

Recheck

Rejected bags are automatically forwarded to the recheck area for secondary screening. By adding Checkpoint.Evo^{plus}, suspicious areas in bags are electronically marked and classified by the remote operator. This allows for directed search by the on-the-spot operator and reduces waiting times. Customers can chose between different recheck tables and monitor posts. A stationary RFID reader is also available.





Diverter

Any trays carrying items identified as suspicious are automatically diverted off the main (cleared) conveyor towards a secondary search area with no interruption to the central flow.

Reclaim Unit

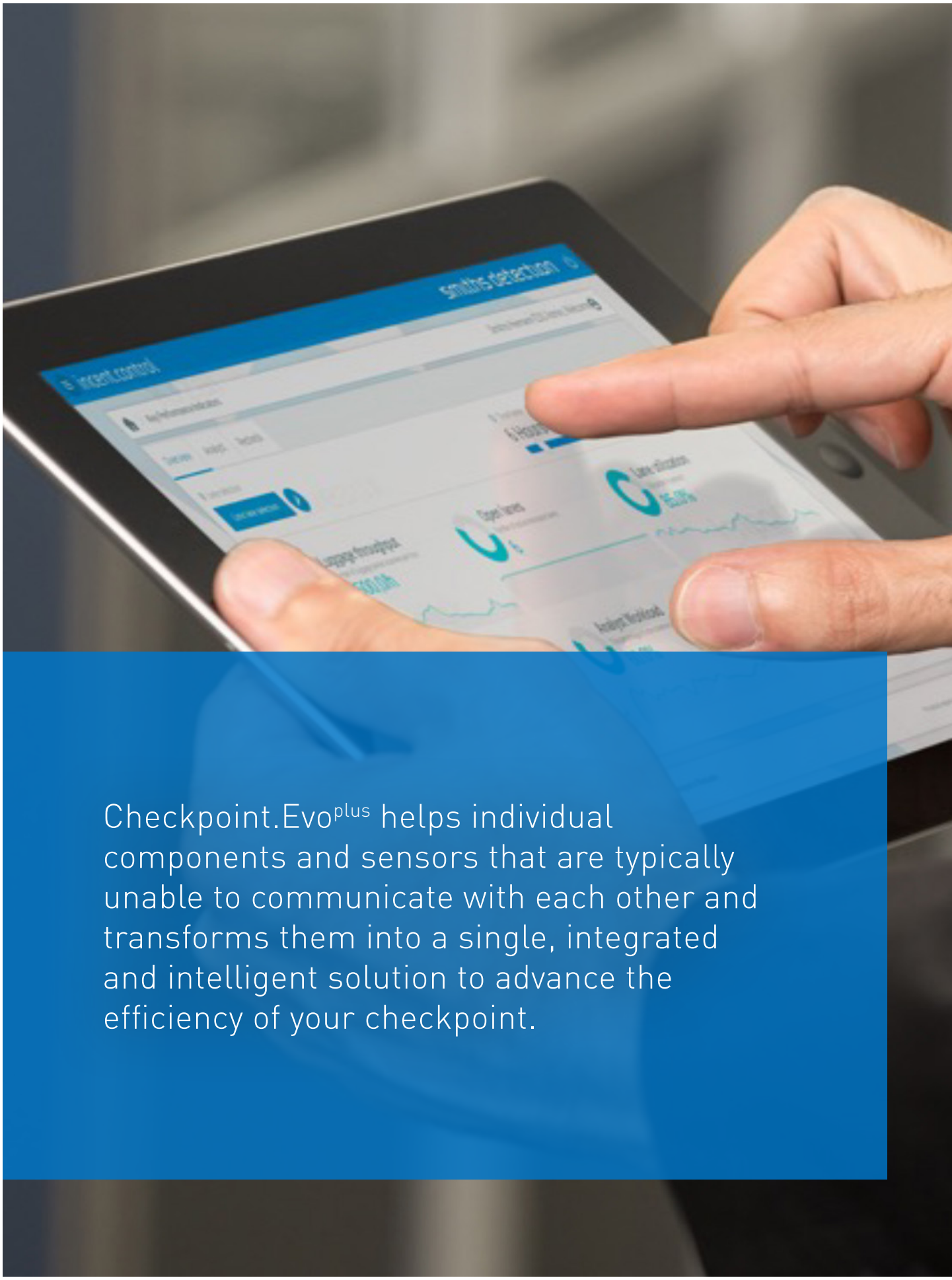
The reclaim unit automatically recirculates empty trays from the end of the checkpoint back to the divest station at the start. This ensures a continuous flow of trays and shifts the operator job functions from manual tasks to customer support.

High Threat Module

Highly suspect trays are automatically diverted into a lockable high threat module for inspection by authorised personnel. This does not disrupt the central flow at the checkpoint.

Empty Tray Verification

A camera is located in front of the reclaim unit, which checks the trays for objects every 0.5 second. Once the tray is detected as empty, it is automatically pushed into the RCU to be transported back to the divest area.



Checkpoint.Evo^{plus} helps individual components and sensors that are typically unable to communicate with each other and transforms them into a single, integrated and intelligent solution to advance the efficiency of your checkpoint.

Increase availability and operational efficiency through data insights

The latest functionality, including system performance data and health monitoring, result in a highly reliable and available system, reducing total cost of ownership. Local supervision displays with real-time error localisation and description as well as service settings at each lane enable quick identification and resolution of operational issues. Integration with Checkpoint.Evo^{plus} delivers even more valuable, central management information, the option for remote screening, plus visualisation and analysis across all system modules.

Risk based screening driving security, operational efficiency and passenger experience

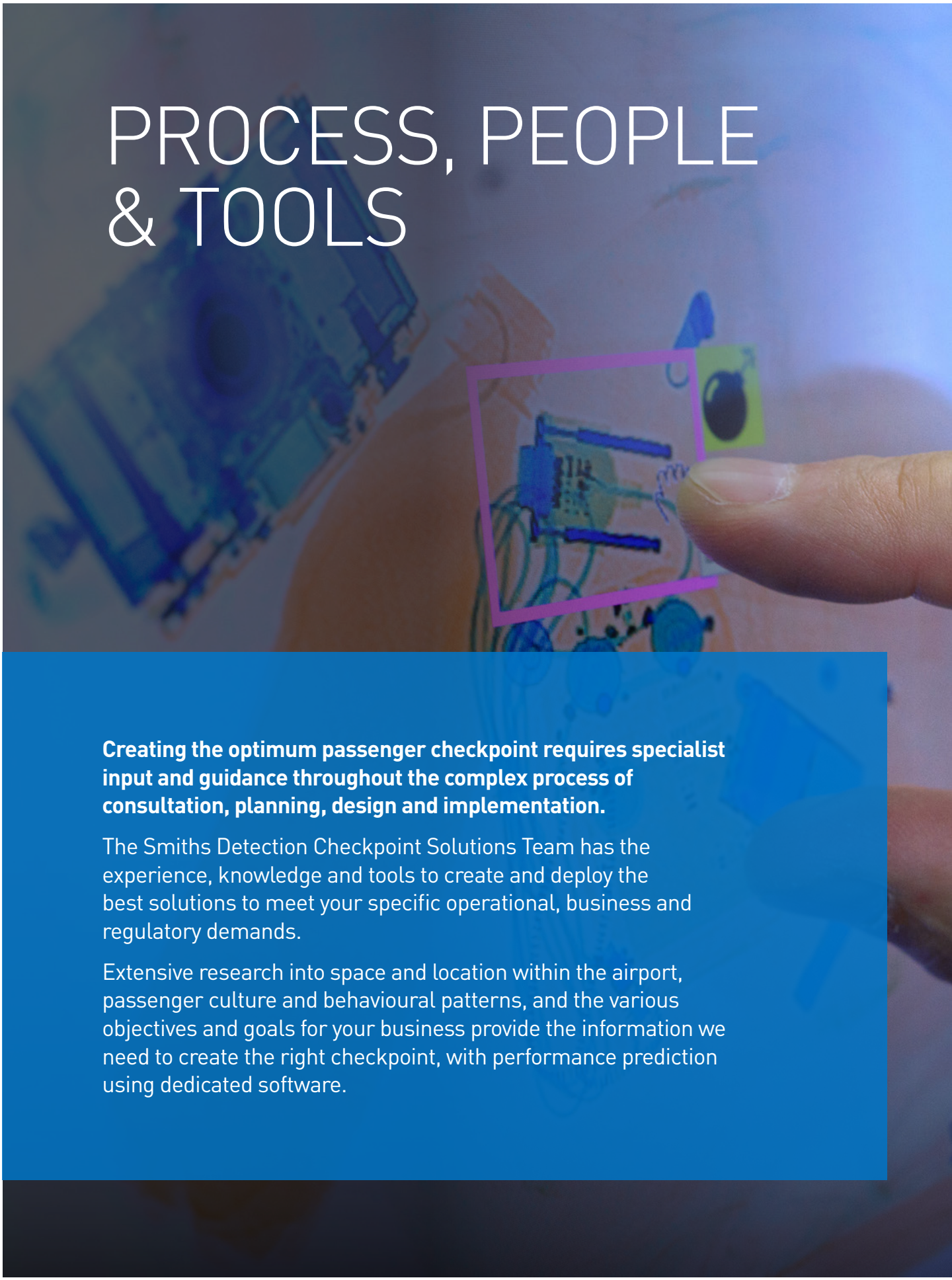
Matching passenger travel information such as API/PNR data (e.g. flight destination, flight number, passenger name, travel programme membership) with trays is a key enabler to apply different levels of security screening and processing. The benefits are significant for the entire industry – airports can leverage this capability to unlock valuable terminal footprint; regulators, governments and airport operators can ensure to redeploy resources to higher-value tasks and focus on high-risk targets; airlines are able to provide their customers with an enhanced and easier journey through the terminal. Biometrics is the key enabler for this capability, as identity is the cord that ties together the information collected at the several touchpoints along the passenger journey into an individual.

Designed for ease of integration, installation and maintenance

Leveraging our long-lasting experience in designing automatic tray return systems, iLane A20 has been designed for plug & play - for easier and faster installation, maintenance and servicing. For example, once the modules of the tray return system are connected, configuration is automatic. Using Smiths Detection's well established Universal Checkpoint Interface, the iLane A20 can also easily be integrated with third party X-ray systems, supporting the development of open architecture-based solutions.

> Our solutions are constantly evolving to keep up with the demands of both today and tomorrow, and to bring you the very latest in security screening technology.

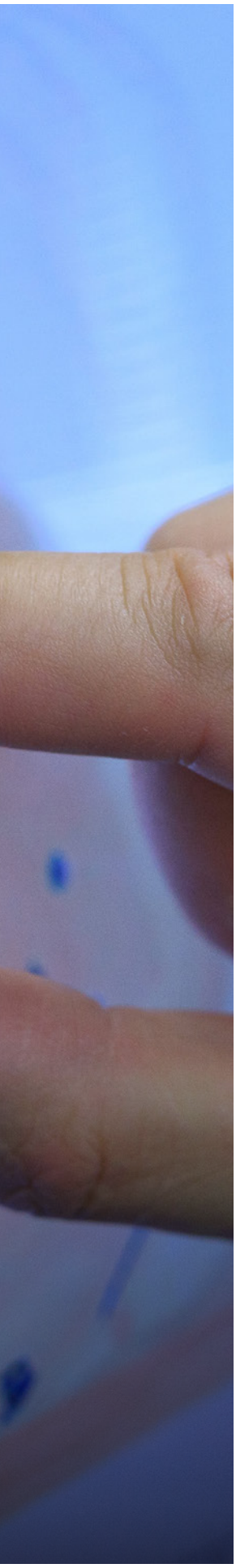
PROCESS, PEOPLE & TOOLS



Creating the optimum passenger checkpoint requires specialist input and guidance throughout the complex process of consultation, planning, design and implementation.

The Smiths Detection Checkpoint Solutions Team has the experience, knowledge and tools to create and deploy the best solutions to meet your specific operational, business and regulatory demands.

Extensive research into space and location within the airport, passenger culture and behavioural patterns, and the various objectives and goals for your business provide the information we need to create the right checkpoint, with performance prediction using dedicated software.



The 5 steps to success

01 UNDERSTANDING YOUR REQUIREMENTS

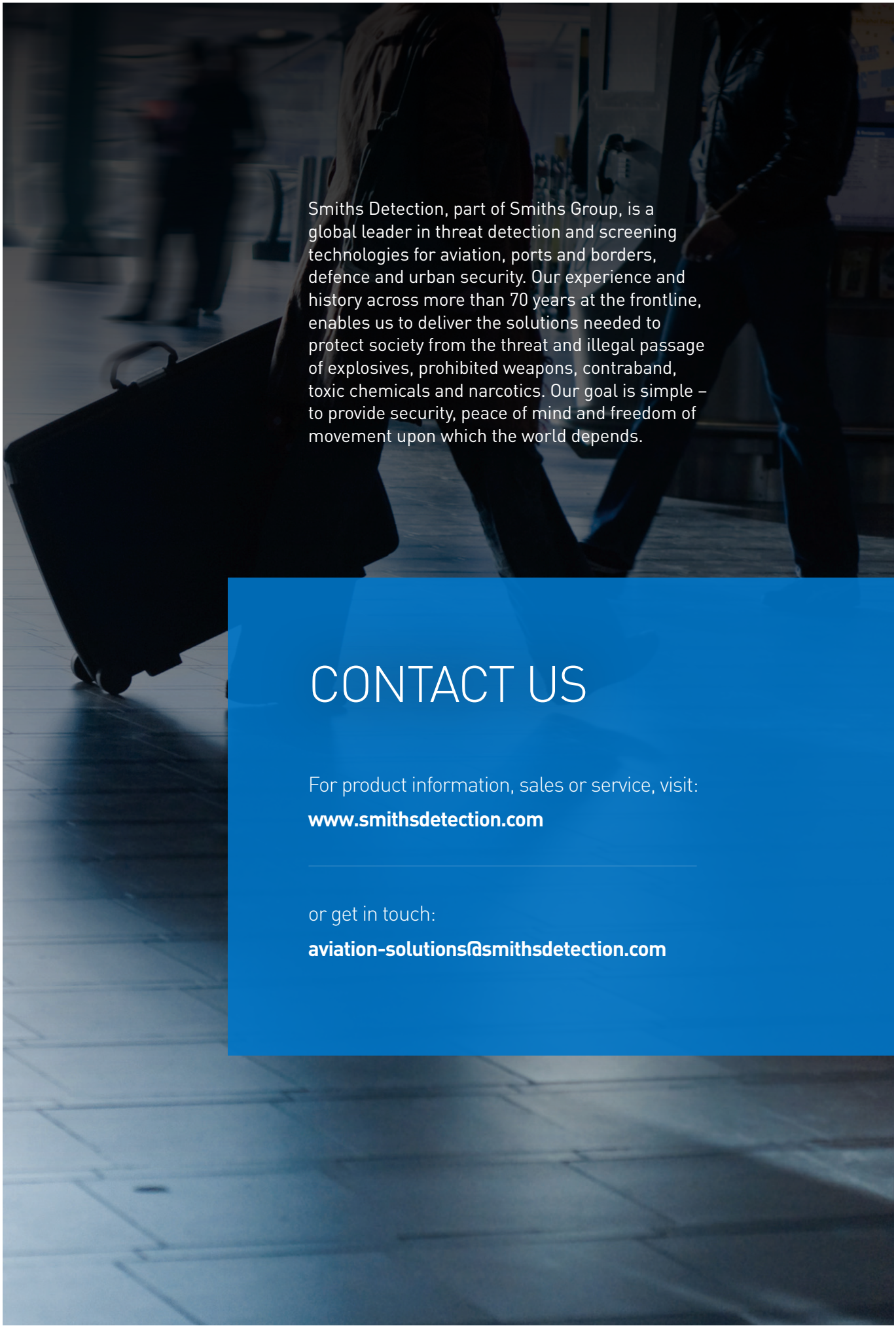
02 ONSITE DATA COLLECTION, PASSENGER SURVEYS

03 PERFORMANCE SIMULATION & SOLUTION MODELLING

04 IMPLEMENTATION

05 ONGOING SUPPORT

We understand the challenges and requirements of the checkpoint and will work with you every step of the way to meet your expectations.



Smiths Detection, part of Smiths Group, is a global leader in threat detection and screening technologies for aviation, ports and borders, defence and urban security. Our experience and history across more than 70 years at the frontline, enables us to deliver the solutions needed to protect society from the threat and illegal passage of explosives, prohibited weapons, contraband, toxic chemicals and narcotics. Our goal is simple – to provide security, peace of mind and freedom of movement upon which the world depends.

CONTACT US

For product information, sales or service, visit:

www.smithsdetection.com

or get in touch:

aviation-solutions@smithsdetection.com