


# SELFCAIR

Secure Flow  
TrAI System



*SMARTER LANE,  
SAFER JOURNEY, FASTER TRAVEL*

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# INTRODUCING INTELLIGENCE

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Introducing the Secure Flow TrAI System, an advanced security solution powered by cutting-edge technology in partnership with NW Pro, making it the most intelligent security lane available. Designed to enhance efficiency at any security checkpoint, it enables faster travel while maintaining the highest safety standards.

Leveraging AI-driven technology and real-time data analysis, the Secure Flow TrAI System optimises passenger and baggage flow, dynamically adjusting to the needs of each lane. It incorporates self-service principles, which accelerates the process without compromising security.

"Smarter Lane, Safer Journey, Faster Travel" captures the core benefits of this innovation. By merging two powerful technologies, the system offers significant time and cost savings for airports, while providing a seamless, stress-free experience for passengers. With reduced manual intervention, the system ensures faster, more consistent security, improving efficiency and enhancing the overall travel experience.

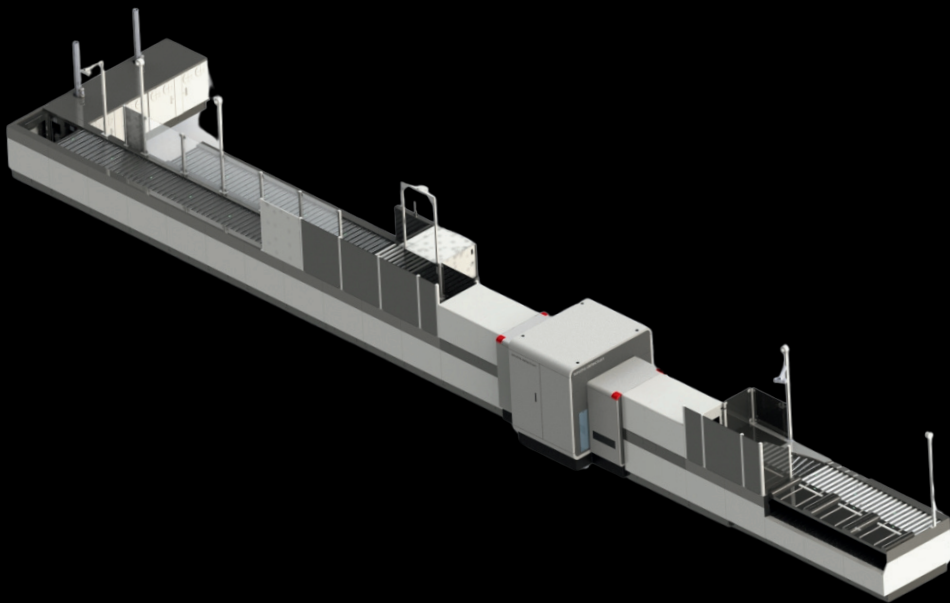
# T R A I S Y S T E M

With the Secure Flow TrAI System, real-time data collection is at your fingertips, providing management with actionable insights to optimise operations.

The data collected and reports generated include:

- Actual divest time and averages
- Transit time to screening and averages
- Dwell time
- Screening times and averages
- Repack time and averages
- Dwell times in repack
- Search times

In fact, every action on the lane can be tracked and reported, allowing for tailored reporting to meet different customer needs.



# TRAY HYGIENE

“Badly loaded trays” refer to trays that are improperly packed, often causing disruptions in the security process. These trays typically contain items that are not properly secured or arranged, such as luggage with items hanging over the edges, or loose accessories like scarves and belts. When these items extend beyond the tray’s edges, they are at risk of getting caught in the screening equipment, which can cause damage to the system and result in unnecessary downtime. For instance, if a scarf or belt hangs over the tray’s side, it could become entangled in the conveyor mechanism, leading to a halt in operations as the system either needs to be cleared manually or repaired.

To address this issue, our Secure Flow TrAI System is designed to detect these types of loading problems in real-time as the tray approaches the screening area. When it identifies that a tray is badly loaded it automatically halts the tray at the divest position, preventing it from entering the screening tunnel and potentially causing damage or delays. This prompt action alerts both passengers and staff that intervention is required, allowing passengers to quickly adjust the contents of the tray before it continues through the process.

By catching these issues early and providing real-time alerts, the system minimises the chances of costly downtime and operational delays. This not only helps maintain the efficiency of the screening process but also reduces the need for manual intervention, improving overall throughput and reducing disruptions. As a result, the system enhances the experience for both passengers and staff, ensuring that the security process is smoother and faster while protecting valuable equipment.



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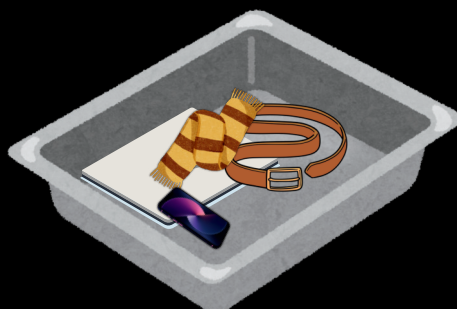
Red Cross will indicate  
to lane to hold tray at  
divest



Correctly loaded trays,  
processed without  
issues of items falling  
out saving downtime  
and reducing stress for  
passengers and staff  
alike



Delivering  
tomorrow's ideas as  
today's solutions



# EMPTY TRAY RETURN SYSTEM (ETRS)

The Empty Tray Return System is designed to significantly enhance the efficiency and flow of the security process in airports by addressing a common issue at the repack area. When passengers collect their belongings and walk away, they may inadvertently leave behind empty trays. These unattended trays can create bottlenecks in the lane, causing unnecessary delays as the system either has to pause, reset, or wait for an operator to manually remove the empty tray. These interruptions not only slow down the flow of the security process but also increase the workload on staff, further contributing to operational inefficiencies.

The Empty Tray Return System utilises intelligent sensors and automated technology to detect these empty trays as soon as they are left behind. Rather than relying on manual intervention, the system automatically drives the empty trays to the reclaimer. This automation ensures that the trays are quickly and efficiently removed from the lane without disrupting the flow of the security process.

By eliminating the need for manual tray collection, the system guarantees a smoother, uninterrupted operation, reducing the likelihood of lane stoppages. This contributes to maintaining a steady and efficient throughput in the security area, which is especially important during peak travel times. With empty trays no longer causing delays, the system enhances the overall experience for passengers by shortening wait times and increasing the speed of security checks.

Moreover, the Empty Tray Return System helps reduce operational costs. By minimising the need for personnel to constantly manage and remove empty trays, airport staff can be allocated to more critical tasks, such as assisting passengers or overseeing the security process. Additionally, the automation of tray retrieval ensures that the system remains efficient with fewer manual errors or interruptions, leading to more consistent and reliable operations.

# OVER HEIGHT DETECTION (OHD)

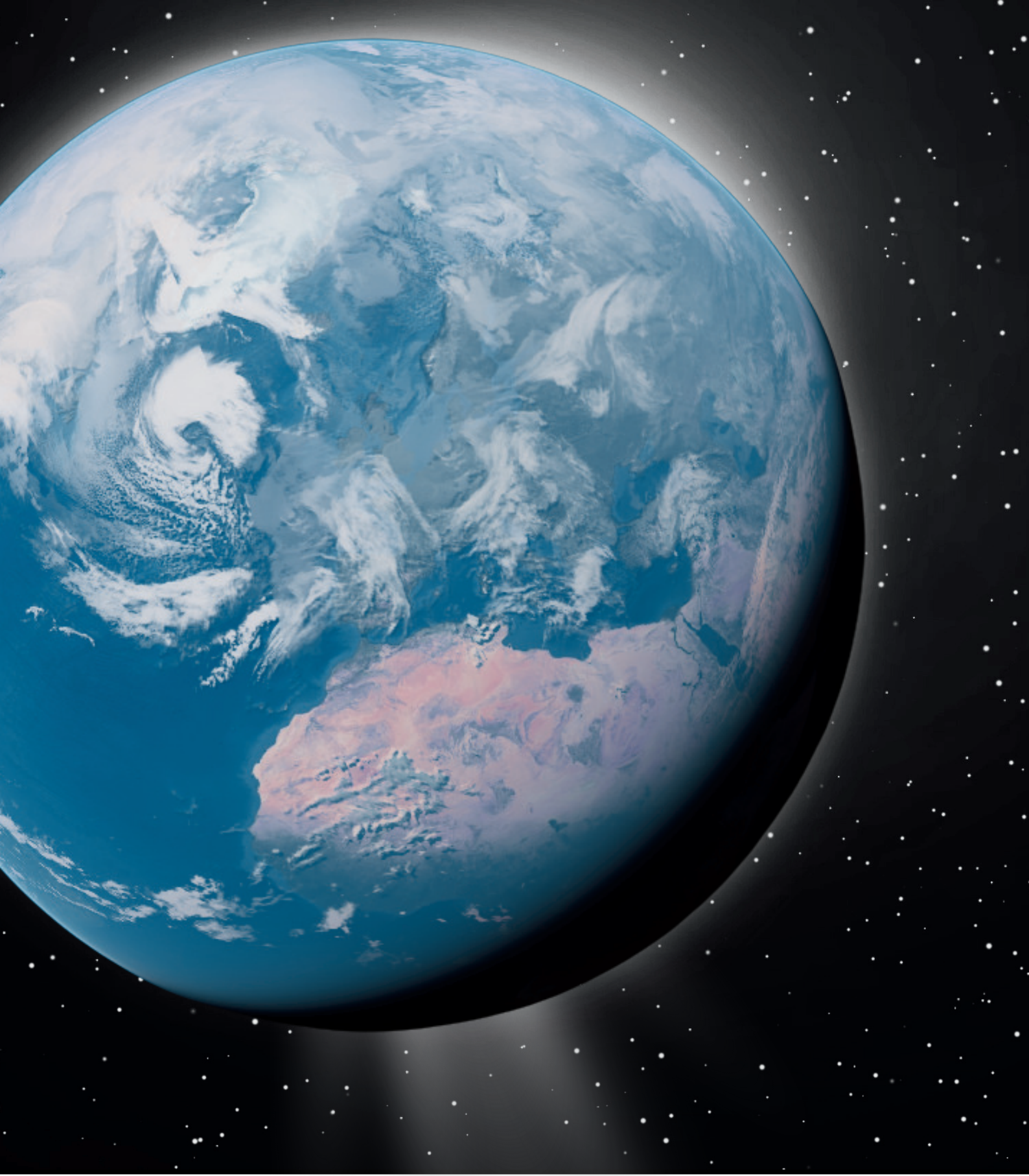
Trays with suitcases standing upright can cause significant challenges in screening systems. When improperly aligned, they obstruct the flow in the screening tunnel, leading to jams and delays. This misalignment can also damage both luggage and equipment, increasing wait times for passengers.

The Over Height Detection System solves this by detecting when items exceed the recommended height or are poorly positioned. It identifies these issues at the divest area, alerting operators before the tray enters the screening tunnel. This allows for quick corrective action, such as adjusting or rerouting the luggage.

By proactively reducing jams, the system enhances efficiency, minimises the risk of damage, and speeds up processing times, improving the overall passenger experience. Additionally, it reduces manual interventions and troubleshooting, streamlining security workflows and ensuring higher throughput with fewer delays.



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