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Smiths Detection has received Dutch certification for its iCMORE Automated Prohibited Items Detection System (APIDS) algorithm, which uses AI to automatically identify prohibited items at airport security checkpoints. Approved by the Netherlands' National Coordinator for Security and Counter-terrorism (NCTV), this certification follows rigorous testing by the Netherlands Organisation for Applied Scientific Research (TNO). The iCMORE APIDS algorithm meets the high standards of APIDS standard one and additional Dutch detection requirements, making Smiths Detection the first company to achieve this approval.

Cologne Bonn Airport (Germany) has deployed its first ten fully electric ground power units (eGPUs), replacing conventional diesel-powered units as part of its drive towards climate neutrality. These eGPUs, used to supply power to aircraft on remote apron positions, will reduce CO2 emissions, noise, and exhaust pollution. The initiative is supported by a subsidy of over EUR 2 million (USD 2.1 million) from Germany's Federal Ministry of Digital and Transport. Fifteen more eGPUs are set to be introduced next year. The airport aims to have all vehicles and equipment fully CO2-neutral by 2035, with a long-term goal of becoming carbon-neutral by 2045.

A Leonardo-led consortium, alongside Austrian company motion06, has signed a EUR 150 million contract to upgrade the Baggage Handling Systems at Zurich International Airport (Switzerland). Leonardo will manage the project design, system integration, and installation of its MBHS® cross-belt sorter technology, which improves sorting efficiency and reliability. The upgrade will involve extensive renovations across terminals, enhancing the airport's capacity to process over 16,000 bags per hour through a 23 km conveyor network. Featuring advanced IT, flow management, and IoT-based predictive maintenance, the system will be fully operational by 2025 as part of Zurich Airport's infrastructure expansion.

Iasi Airport (Romania) has advanced its safety and operational efficiency through recent investments, supported by European funds, acquiring a Volkan 6x6 Lion fire truck with a 12,000-liter water and 1,500-liter foam capacity and a Renault Master ambulance for emergency response. From its own funds, the airport added Romania's first 100% electric ambulift, the Bullmor, for passengers with reduced mobility, and a multifunctional Unimog U423 for surface maintenance.

Currently, Iasi Airport operates three fire engines, one ambulance, and twelve maintenance vehicles, with plans to modernise and replace older equipment with electric options in the coming years. #1229.GSE6

John F. Kennedy International Airport (New York, United States) has partnered with K2 Security Screening Group to install advanced security checkpoints in its upcoming Terminal One, set to partially open in 2026 and fully complete by 2030. The new security systems will feature Computed Tomography (CT) X-ray scanners that produce high-quality 3-D images, reducing the need for manual bag checks and expediting passenger flow. Enhanced Advanced Imaging Technology

(eAIT) and Credential Authentication Technology (CAT) will further improve efficiency by enabling simultaneous passenger screening and automated identity verification. Phase A of the 2.6 million ft² terminal will initially provide 14 widebody gates, with full capacity for 23 gates and projected annual passenger traffic exceeding 16 million by 2030.

Miami International Airport (MIA) has become the first test site for the Transportation Security Administration's (TSA) new perimeter intrusion detection system (PIDS), a cutting-edge security technology that detects and responds to potential breaches in real-time. The system, part of TSA's USD 6 million Airport Security Test Bed program, uses fibre-optic sensors, video surveillance, laser walls, and radar to monitor the airport's perimeter, aiming to improve the safety of passengers and employees. Miami-Dade County Mayor Daniella Levine Cava, alongside MIA and TSA officials, participated in a live demonstration of the technology on 22 October 2024.

The TSA has funded the installation of the system at 50% of MIA's perimeter, with the Miami-Dade Aviation Department planning to cover the remainder over the next two years. The lessons learned from MIA's participation could be implemented at airports nationwide as the TSA explores next-generation security solutions.

Honeywell Automation India Limited (HAIL) has secured a contract to provide its advanced Airfield Ground Lighting (AGL) system for Noida International Airport (India). This system will enhance visual guidance for aircraft, improving safety and operational efficiency, particularly in challenging weather conditions. Honeywell's intelligent lighting technology will assist pilots by automatically adjusting lighting based on real-time data from aircraft surveillance and tracking systems. The AGL system will be installed on runway 10L-28R and the associated taxiways, covering the supply, installation, commissioning, and maintenance. This project aligns with the airport's mission to ensure safety and seamless operations. Noida International Airport, in its first phase, will feature one runway and one terminal, with an annual capacity of 12 million passengers. Upon completion of all development phases, the airport is expected to handle up to 70 million passengers annually.

Carrasco International Airport (Uruguay) has partnered with Magzter to become South America's first "Smart Reading Airport," offering passengers free, contactless access to over 9,000 digital publications. Using the Magzter app within the airport's Smart Reading Zone, travellers can read a vast selection of magazines and newspapers, including Spanish-language titles and global favourites like Time and Vogue.

This initiative aims to enhance the passenger experience while promoting an eco-friendly, paperless reading option. Airport officials highlight this service as a step toward more personalised, technology-driven travel.

Singapore's Changi Airport has fully implemented a passport-free biometric clearance system across all four terminals, enabling residents to clear immigration using facial and iris recognition within an average of 10 seconds. The Immigration and Checkpoints Authority (ICA) states that Singaporean residents can now use facial and iris biometrics for arrival and departure without presenting passports while departing foreign visitors can also benefit from passport-less clearance. Foreign arrivals, however, must still carry passports. Idemia, the technology provider, has supported Changi's biometric systems since 2016 and collaborates with Singapore's Ministry of Home Affairs to enhance biometric and forensic technology for homeland security.

Publisher's note: The articles in this special report, compiled for **inter airport Europe**, are a few select samples from the biweekly **Momberger Airport Information** newsletter, published since 1973. The newsletter is an advertising-free, global airport news service that consists of 9 modules and allows subscribers to customize their own newsletter package. The modules that make up the biweekly newsletter are: Airport Development (DEV), Calendar of Events (CAL), and the subscriber-selectable modules Airport Operations (OPS), Management, Ownership & Finance (MGT), Ground Support Equipment (GSE), Air Traffic Services (ATC), Consultant & Contractor / Sustainable Aviation (CON), Airport Information Technology (AIT), and Maintenance Base & FBO (MRO). For more information, a sample of a complete newsletter issue, and to order an annual subscription, please visit www.mombergerairport.info