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Home-Grown Australian Innovation: Beonic and JFKIAT Setting New Standards for Intelligent Airports

JFK Airport, New York, March 2025 – Beonic, a home-grown Australian technology company with a global reach, is leading the charge in transforming airport operations worldwide. Partnering with JFKIAT, the operator of John F. Kennedy International Airport Terminal 4, Beonic has redefined passenger flow management at one of the world's busiest terminals. This collaboration tackles the challenges of post-pandemic travel surges and large-scale terminal redevelopment, setting a new standard for operational efficiency and enhancing the passenger experience.

Airports are dynamic, high-stakes environments where journeys begin, people reunite, and global connections are made. Behind this intricate process lies a sophisticated system of operations, technology, and human coordination. Beonic, driven by home-grown Australian innovation, has been at the forefront of applying cutting-edge solutions to streamline this complexity, turning operational challenges into opportunities for growth and improvement.

When Beonic partnered with JFKIAT five years ago, both teams shared a vision of transforming Terminal 4 into a data-powered hub. Together, they harnessed the capabilities of AI, LiDAR technology, and predictive analytics to reimagine how one of the busiest terminals in the United States operates. Today, Terminal 4 not only serves over 27 million passengers annually but also stands as a testament to what's possible when home-grown Aussie ingenuity meets global innovation.

A Global Vision Powered by Local Innovation

Beonic's success at JFK Terminal 4 is setting a new benchmark for airport operations globally. From New York's JFK to Adelaide, Wellington, Abu Dhabi, and London Heathrow, Beonic's AI-powered solutions are transforming how airports manage passenger flow, reduce wait times, and optimise resources. Beonic's scalable technology is helping airports around the world adapt to fluctuating passenger volumes, ensuring smooth operations during peak periods.

"As an Australian company, we've always embraced a global perspective and are driven by a passion for innovation," said Billy Tucker, CEO of Beonic. "To see our technology deployed at some of the busiest airports in the world is a testament to the vision and dedication of our team. We are proud to lead the way in revolutionising passenger flow management, from our roots in Australia to the global stage."

The success of Beonic's solutions has resonated with airport operators around the world.
Dermot O'Neill, Executive General Manager People, Culture and Customer

"Beonic's system has been pivotal in addressing complex flow challenges. By understanding the movement of passengers through check-in and security screening in real time, it's made a tangible difference to how we manage our airport and in helping to inform our terminal planning. We're excited to see its global expansion."

Matthew Palliser, Head of Operations at Wellington Airport, added:

"Beonic's system has been pivotal in addressing our complex passenger flow challenges. We have been closely monitoring two critical areas: the South West Pier security, implemented at the end of last year, and the international arrivals area, completed a few months ago. The most recent implementation encompasses baggage collection, secondary screening, the risk assessment processing times and the passenger overflow area. The system enables us to track queue times, wait times, and transaction times at various touchpoints, significantly enhancing our ability to manage airport operations. It has truly revolutionised our business."

Optimising Operations with AI, Data, and LiDAR

JFKIAT needed a solution that could address unpredictable passenger volumes, congestion at critical touchpoints, and the complexities of large-scale terminal redevelopment. Beonic's technology, including AI-driven queue management, predictive analytics, and LiDAR-based monitoring, has provided real-time insights that enable JFKIAT to:

- Reduce wait times at security, check-in, and border control.
- Optimise staffing and resource allocation with predictive analytics.
- Improve passenger flow by balancing traffic across the terminal.
- Enhance collaboration between TSA, U.S. Customs and Border Protection, airlines, and baggage handling teams.

Steve Tukavkin, Vice President of IT & Digital at JFKIAT, highlighted the impact of Beonic's platform:

"Beonic's technology has been instrumental in reducing wait times at U.S. Customs and Border Protection, improving safety, and enhancing the overall passenger experience. The ability to monitor dwell times and passenger movement in real-time is unlocking new use cases across retail, lounges, and beyond."

Partnership Built on Trust and Innovation

Beonic's AI-enabled sensing technology, including LiDAR-based flow management, offers airport operators real-time flow-balancing alerts, enabling rapid adjustments to ensure smooth passenger movement, even during peak times. This adaptability allows airports to efficiently handle fluctuating passenger volumes while maintaining operational efficiency. The system

integrates seamlessly with existing airport infrastructure, providing actionable insights that optimise operations without intruding on passenger privacy.

"The partnership with Beonic has been incredible," said Susana Desa, Vice President of Operations at JFKIAT. "No challenge has been too big or too small. Every problem we've faced, Beonic has worked with us to find a solution. The ability to rely on their innovation and expertise has been vital in transforming our operations and enhancing the passenger experience."

About Beonic:

Beonic is an Australian technology company and a global leader in advanced solutions for passenger flow management. Using leading AI sensing technology and real-time data analytics, Beonic helps airports optimise operations, reduce wait times, and improve the overall passenger experience. With successful deployments at JFK T4, Adelaide Airport, Wellington Airport, London Heathrow, and Zayed International Airport in Abu Dhabi, Beonic is pioneering the future of airport operations with innovative, data-driven technology solutions.

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