The background image is a composite of three scenes: an airplane in flight against a clear blue sky, a port with large cranes and ships at sunset, and a highway with light trails at night. The text is overlaid on the right side of the image.

AVIATION: IN FOCUS

**CLEARED FOR TAKE-OFF:
A FRESH AND UNIQUE
APPROACH FOR THE US
AVIATION INDUSTRY.**

Currie & Brown and daa International are reimagining the airport experience. Our combined operational and construction experience allows us to offer smart, innovative, and effective ways to solve the challenges faced by the US aviation industry.

AVIATION: IN FOCUS

Factors shaping and challenging the US aviation industry range from increasing passenger demand and airfare costs to greater sustainability requirements, aging infrastructure, and a lack of technological investment. The need to invest while maintaining a live operation in an environment of ongoing uncertainty and rising costs adds complexity. Business as usual is no longer feasible, and the traditional approach to problem solving is no longer fit for purpose.

It's time for a radical approach. From inception to construction and into live operations, the aviation industry needs to focus on building infrastructure with the passenger experience in mind.

Together, we bring a new and unique perspective, providing guidance on capital build solutions that are cost effective, productive, and best practice operationally. The combination of our global construction experience and operational expertise gives us deep insight into the problems the industry faces, and the tailored solutions required to solve them. We bring this approach to life in our four golden rules for the US aviation industry:

The four golden rules



1. Think operationally.

Consider the challenge from an operational perspective. A critical take on the nature of the problem based on direct on-the-ground operational experience will shape an innovative, long-term solution that may not always be the most immediately obvious. This also includes early operational design review of schemes and plans. This ensures designs are operationally feasible and optimized and mitigates against costly variations and retrofitting.



2. Passengers first.

In-depth analysis of the passenger experience is vital and should be considered at the pre-design stage of any project. The most fruitful investment in aviation infrastructure should positively impact and even be driven by the passenger experience. Aviation clients should consider the passenger/customer psychology which examines passengers' perceptions, beliefs, feelings, and thoughts and considers all of them when examining orientation, wayfinding and purchasing behaviors.



3. Early, well-informed planning.

We recommend a fully integrated approach to planning with realistic, comprehensive cost forecasts, careful project management and strategic procurement. This will reduce risk and help deliver projects on time, on budget and in scope. Benchmarking costs against other sectors and projects will help provide a firm position for negotiation and minimize costs from the outset.



4. Look up and out to learn.

Many of the challenges faced by the US aviation industry have been successfully tackled elsewhere. Working with partners who have direct, global experience across multiple sectors in shaping proven, effective solutions will be extremely valuable.

We bring a new and unique perspective, providing guidance on capital build solutions that are cost effective, productive, and best practice operationally.



AVIATION: IN FOCUS

The combination of daa international's operational expertise with Currie & Brown's extensive experience of capital build cost forecasting and project management yields real benefits in terms of passenger experience, operational efficiency, and project viability.

Currie & Brown combines market intelligence with estimates and benchmarks drawn from a comprehensive, proprietary in-house data library. This database enables comparisons between projects with similar elements across multiple locations and sectors to provide accurate, indicative budget information.

Results can be impressive. For example, a small hub airport in the Caribbean saved 10% on a \$30 million improvement program, thanks to using this cost model and reconciliation methodology. This represents a return on investment of >45:1.



10%

A small hub airport in the Caribbean saved 10% on a \$30m improvement program






Currie & Brown's proprietary in-house data library enables comparisons between projects with similar elements across multiple locations and sectors to provide accurate, indicative budget information.

AVIATION: IN FOCUS

A fresh approach in action

The following examples show how the US aviation industry may be able to solve pressing challenges through Currie & Brown and daa International's unique combined approach. Here we show how you can incorporate the four golden rules for cost effective, operationally practical solutions that deliver improved passenger experience.

Example challenge 	Increasing passenger demand causes capacity constraints at check-in.	Increased passenger numbers combined with older TSA (security) infrastructure result in delays and passenger complaints.	Increased passenger volumes cause risk of bottlenecks, delays, and complaints from car parks to check-in, security, and retail. Inability to accurately predict passenger volumes across the airport site make it harder to optimize the passenger experience.
Traditional solution 	<p>Construction of a new terminal or significant extension of existing terminal buildings to increase airport capacity and provide space for new airlines. However, this approach requires significant investment and relies on the availability of adjacent real estate which is often limited.</p>	<p>Create additional TSA space and construct more security lines. However, this will require additional real estate within the airport which will be expensive and will limit space that could be used for commercial / retail opportunities. It will also require increased headcount with associated costs.</p>	<p>Expand existing infrastructure and headcount of staff across the site to deal with increased passenger numbers.</p> <p>Request time-consuming data analysis of passenger flow from across the site to attempt to predict volumes.</p>
A fresh approach 	<p>In other parts of the world airlines share check-in space which enables increased throughput with no additional significant infrastructure.</p> <p>By considering the passenger experience alongside cost forecasts for various solutions, an airport operator may choose to:</p> <ul style="list-style-type: none"> Switch to adaptable common use check-in kiosks which allow multiple airlines to operate from the same terminal. Introduce automated self-service check-in. This will speed up the check-in process, increase passenger capacity, and reduce passenger wait times. A reduced need for staff means employees can be positioned in other areas of need across the business. Automated check-in desks also take up less floor space. Space savings can be repurposed for commercial / retail opportunities. 	<p>Thinking differently about the practical, financial, operational and passenger experience implications of this issue and the various solutions available an airport operator may choose to:</p> <ul style="list-style-type: none"> Increase the number of preparation areas for each existing security lane rather than building new lanes. This allows for multiple passengers to sort belongings into the trays provided at one time in each lane. Faster passengers will be able to immediately move forward while those who need more time are not holding up the entire line. Ensure minimal disruption to existing operations, reduced delays, increased passenger satisfaction and increased dwell time for passengers in airport commercial and retail areas airside leading to increased revenue. 	<p>Rather than jumping directly into construction we recommend consulting with operational experts. Airport operators may suggest making optimal use of the existing infrastructure through investment in new technology. For example, they may choose to:</p> <ul style="list-style-type: none"> Invest in cutting edge tech that covers the entire airport eco-system to provide real-time insight across retail, car park, and overall airport operations. This technology will provide a highly accurate prediction of passenger volume at any given time across the airport with an average of 97% accuracy. This will provide direct insight into the exact routes that the airport is gaining and losing passengers at the touch of a button. Such technology can provide actionable data that enables measurable improvements in operational efficiency and the passenger experience.

ABOUT US

This year, Currie & Brown created a partnership with daa international. Bringing together the unique combination of skills across the two companies, we can support airlines, airport operators, and partners to reduce cost and efficiencies while ensuring quality, security, and safety remain paramount. The union offers the aviation market a one-stop shop for co-guidance on capital builds by a world class operator in daa International and a leading construction consultancy in Currie & Brown.

To get in touch and explore how we can help, please reach out to either Paul Fitch, Senior Director at paul.fitch@curriebrown.com or David Wilson, Managing Partner, at dwilson@daai.ie.

About Currie & Brown

Currie & Brown is a world-leading provider of project management, cost management, and advisory services, covering the full range of public and private sectors. With our global outlook and local delivery approach, our purpose is to add value that makes building a better future possible. We help clients navigate volatility and unpredictability, providing the certainty that enables better, more sustainable built environments for all.



About daa International

daa International provides comprehensive advisory, management, and investment services, encompassing the entire spectrum of airport-related needs for clients and partners. As owner-operators, daa International possess a deep understanding of the technical, regulatory, and commercial challenges airports encounter. With over 80 years of experience in operating and developing airport infrastructure daa International is dedicated to optimizing airport assets, unlocking value, and fostering positive transformation within the industry. We manage over 100 million passengers and have access to a network of more than 3,500 airport industry leaders. Our commitment is to ensure the success of our clients through a flexible and adaptable approach in everything we do.



DISCLAIMER

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