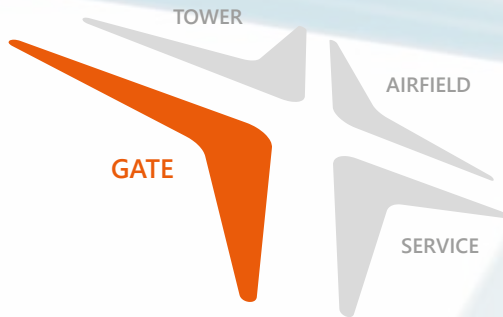Making turnarounds faster and
more predictable

ADB SAFEGATE

Airport performance
delivered from approach to departure
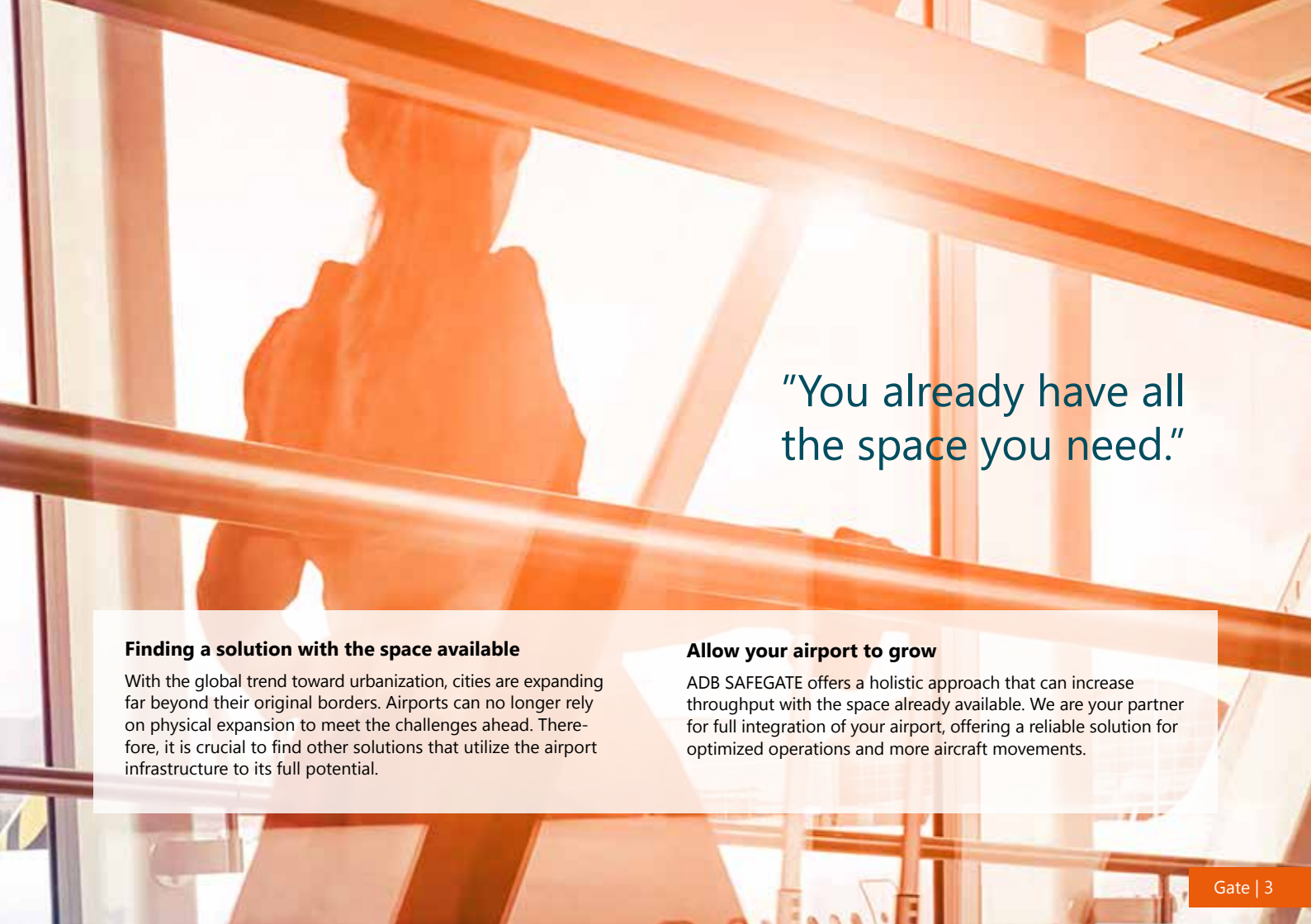
TOWER

AIRFIELD

GATE

SERVICE

Are you prepared?

Is your airport able to deal with the rapid increase of air traffic, which IATA predicts will double by 2034? Insufficient airport performance can seriously damage the possibilities to handle future air traffic expansion, affecting both customer satisfaction and cost negatively. At the same time, the industry must align with an ambitious set of global CO_2 targets to lower its footprint. Being able to handle the increasing air traffic in a safe, green and profitable way is a challenge that faces every airport and airline.

See the bigger picture

By harmonizing operations at the gate, on the airfield and in the tower, there will be a better flow of traffic, from approach to departure. ADB SAFEGATE offers solutions for an integrated system to reduce turnaround times and increase aircraft movements.

In the following we will take a closer look at the gate, where smoother operations can substantially increase capacity and improve performance.

"You already have all the space you need."

Finding a solution with the space available

With the global trend toward urbanization, cities are expanding far beyond their original borders. Airports can no longer rely on physical expansion to meet the challenges ahead. Therefore, it is crucial to find other solutions that utilize the airport infrastructure to its full potential.

Allow your airport to grow

ADB SAFEGATE offers a holistic approach that can increase throughput with the space already available. We are your partner for full integration of your airport, offering a reliable solution for optimized operations and more aircraft movements.

Can your gate operations
be made smoother and safer?

Challenges at the gate

Today, the majority of airport accidents occur at the gate and apron area – on average one per 1,000 departures according to IATA. In addition, 25% of all aircraft damage is the result of incidents involving the passenger boarding bridge (PBB).

Safety on the ground is important to every airport and airline, but a challenging task in the confined gate and apron area. The busy and complex flow of aircraft, vehicles and people, in all weather conditions, can cause accidents and lead to delays and dissatisfied passengers.

The lack of automation at the gate can lead to accidents, delays and unnecessary CO_2 emissions.

▶ Lack of situational awareness

▶ Inefficient docking procedures

▶ Inefficient information distribution

▶ Limited data collection during turnaround

An integrated system
for increased safety and efficiency

Systems from ADB SAFEGATE allow you to automate gate operations through integration and data sharing, thereby improving operational efficiency and the turnaround process, in addition to improving safety.

Automating the aircraft parking and turnaround process

Safedock Advanced Visual Docking Guidance Systems (A-VDGS) provide the fastest and safest way to park aircraft in all weather conditions. Automation reduces the risk of error and improves safety by ensuring aircraft/gate compatibility, verifying the position of the PBB and scanning the apron for vehicles or other objects.

Real-time data for collaborative decision making and increased predictability

SafeControl Apron Management software enables Airport Collaborative Decision Making (A-CDM) by connecting the A-VDGS to flight information systems and other equipment on the apron. Gate availability, equipment status and other milestone information is shared, allowing operators to manage in real-time to avoid disruptions.

ADB SAFEGATE's solutions for A-CDM optimize the use of resources and improve the predictability of events, with a focus on aircraft turnaround and pre-departure sequencing processes. They enhance both airport and airline performance by reducing delays and congestion and raising productivity and cost-efficiency.

Fully integrated system

Gate systems from ADB SAFEGATE can interface with other solutions in connection to gate operations, e.g. A-SMGCS surveillance systems, AODB and ground equipment, allowing for one integrated system. By collecting information throughout the process, and sharing it with tower and airfield in real time, the gate and apron area becomes a part of the integrated solution, from approach to departure.

Our automated solutions will help you:

▶ Ensure safety at the gate through shared real-time intelligence

▶ Improve on-time performance

▶ Reduce operational costs

▶ Increase predictability for more effective planning

▶ Stay operational in all weather conditions

Enjoy smooth gate operations
with our proven concept

Our integrated solutions for the gate and apron area
will make your gate operations safer, more efficient and
environmentally-friendly.

Safety

Our solutions provide awareness of
equipment status, as well as aircraft
and vehicle positions at the gate. By
securing a safe gate operation, you can
save time and money and increase the
number of satisfied passengers.

Efficiency

By enabling a fully integrated system for the fastest way from touchdown to gate, you will decrease the number of aircraft waiting in line on the ground or circling in the air. Aircraft are quickly and smoothly parked in a correct setup and the turn process is managed in real time. On time performance is significantly improved and gate capacity is increased for a fast return on your investment.

Sustainability

By providing the fastest way to park aircraft and the ability to streamline gate turns, our systems significantly reduce fuel burn and power consumption, leading to substantially lower levels of CO_2 emissions and reduced operational costs.

Open the gate
to future possibilities

If it is your ambition to expand to meet tomorrow's traffic demands in a safe, efficient and sustainable way, it is time to act today.

Our knowledge is based on thousands of system installations around the world. ADB SAFEGATE offers integrated solutions that automate the gate and apron area to optimize the turnaround process and maximize gate capacity. Our gate portfolio includes our Advanced Visual Docking Guidance System (A-VDGS) and SafeControl Apron Management.

Read more about our solutions or find the closest ADB SAFEGATE office at adbsafegate.com

Boost airport performance

Every airport is different. A solution must be tailored to the airport's capacity, environment and business objectives. Existing airport infrastructure often contains hidden and unused capacity that can be released with an operational view of the airport.

ADB SAFEGATE offers one of the most extensive product and service portfolios, where the gate, airfield and tower are the foundation for fully integrated solutions to support airport development and optimize operational procedures.

Working closely with airport stakeholders, we use our operational know-how to enable the different parts of an airport to work together as one. ADB SAFEGATE is your partner for increasing airport performance from approach to departure.

Gate: Shortening turnaround times, our automated platforms for aircraft docking and apron management improve predictability and efficiency while minimizing the risk of accidents.

Airfield: Providing active visual guidance, our solutions for intelligent airfield lighting allow pilots to land, taxi and take-off safely and efficiently.

Tower: Supporting Air Traffic Controllers (ATCO), our solutions offer an optimized throughput and the safest way from touchdown to take off.

Services and Maintenance: Airport operations require a variety of technical support services, including maintenance and training. Our portfolio meets these needs – from concept of operations to gate and airfield lighting design, and from audit and survey to project management and customizable maintenance packages that include full maintenance.

"Guiding an aircraft to its correct position by providing the pilot with intuitive information is critical. ADB SAFEGATE offers the automated solutions needed to improve traffic flow."

Christian Onselaere CEO, ADB SAFEGATE

ADB SAFEGATE is a leading provider of intelligent solutions that deliver superior airport performance from approach to departure. We partner with airports and airlines to analyze their current structures and operations, and jointly identify and solve bottlenecks. Our consultative approach enables airports to improve efficiency, enhance safety and environmental sustainability, as well as reduce operational costs. Our portfolio includes solutions and services that harmonize airport performance, tackling every aspect of traffic handling and guidance, from approach, runway and taxiway lighting, to tower-based traffic control systems and intelligent gate and docking automation.

ADB SAFEGATE has 900+ employees in more than 20 countries and serves some 2,000+ airports in more than 175 countries.

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