

An air traffic controller is seen from behind, wearing a headset and working at a console with multiple monitors. The background shows a sunset over a landscape with mountains and an airport runway with several aircraft. The scene is bathed in the warm, golden light of the setting sun.

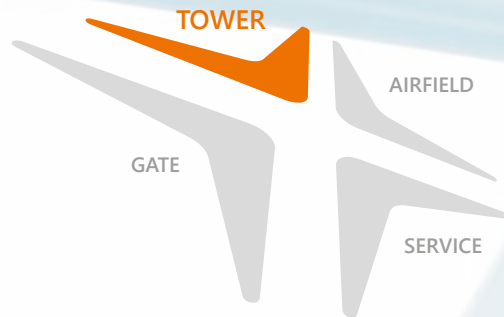
Raising safety and throughput with
smarter ATC systems

The logo for ADB Safegate, featuring a stylized orange and yellow starburst icon above the text "ADB SAFEGATE" in a bold, dark blue, sans-serif font.

ADB
SAFEGATE

Airport performance

delivered from approach to departure



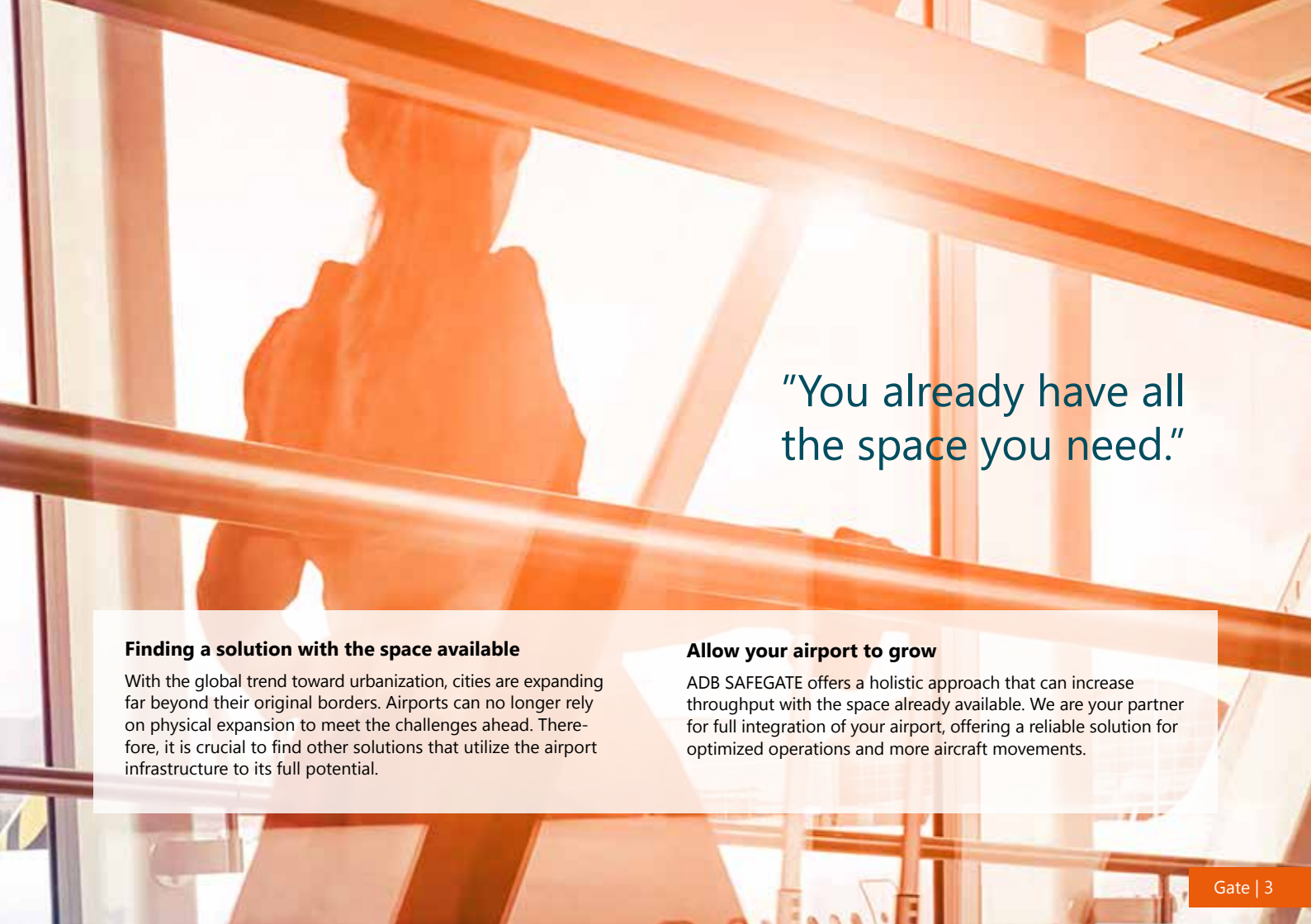
Are you prepared?

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 CO₂ 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 tower, where smoother operations can substantially improve performance and increase throughput.

A person is seen in silhouette, looking out of a window. The window has a strong orange tint, and the view outside is bright and hazy. The person's hand is resting on a horizontal railing or ledge. The overall scene is warm and atmospheric.

“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.

Is your tower used to its full potential?

Challenges in the tower

According to the Flight Safety Foundation, 85% of accidents are caused by human mistakes and most of them could be avoided through more automated and integrated systems. Air Traffic Controllers (ATCOs) at busy airports around the world still rely on outdated manual or semi-automated systems, having to keep multiple computer screens of information under constant observation.

The day-to-day operations faced by ATCOs are challenging, and the situation is getting increasingly complicated. The rise in traffic volumes puts a high workload on the controller who needs to maintain situational awareness and avoid mistaken identity and other safety critical situations. Operating under poor weather conditions may require reducing capacity, especially if technical infrastructure is not up to date. To maintain capacity and guarantee a smooth turnaround process, coordination between individual stakeholders needs to be improved. ADB SAFEGATE solutions play a critical role in the Airport Collaborative Decision Making (A-CDM) process and help reduce delays and unnecessary CO₂ emissions.



A lack of automated systems can lead to accidents, delays and unnecessary CO₂ emissions.

- ▶ Lack of situational awareness
- ▶ Increased workload for ATCO
- ▶ Traffic overload
- ▶ Lack of coordination/integration
- ▶ Inconsistent data representation caused by different vendors



An integrated tower

for increased predictability

Increasing predictability

The integrated system puts together all relevant information that the controller needs to make the correct decision and manage traffic flow. By harmonizing the operational process, the system takes on non-critical tasks to reduce the controller workload and improve safety. For congested airports, this frees up unused capacity where traffic expansion might otherwise not have been possible.

With ADB SAFEGATE's integrated tower solution, it is possible to draw the full benefits from A-CDM. With easy access to all necessary data, there is greater predictability and flexibility, allowing for increased throughput. The airport is used to its full potential through improved real-time information sharing between airlines, ground handlers and ATCOs.

Combine the correct information

Airport systems should serve the airport as a whole and integrate the different areas. Systems from ADB SAFEGATE can be combined with other solutions installed in the tower, allowing for one integrated system. Instead of tracking many separate systems, the functions are integrated in a single display surface.

Tracking of surface movements, electronic flight strips, integrated information systems and departure management allow for efficient streamlining of aircraft movements on the ground, from touchdown to departure. Digital clearance ensures correct communication between ATCO and pilots. In combination with automatic routing and visual airfield lighting guidance for pilots and vehicle drivers, this increases the safety level.



Our automated solutions will help you:

- ▶ Ensure safety from touchdown to gate and back into the air
- ▶ Handle traffic safely in all kinds of weather
- ▶ Allow for better flow of traffic during busy hours
- ▶ Keep track of flight progress
- ▶ Allow for effective planning

Let the tower stay in control

with our proven concept

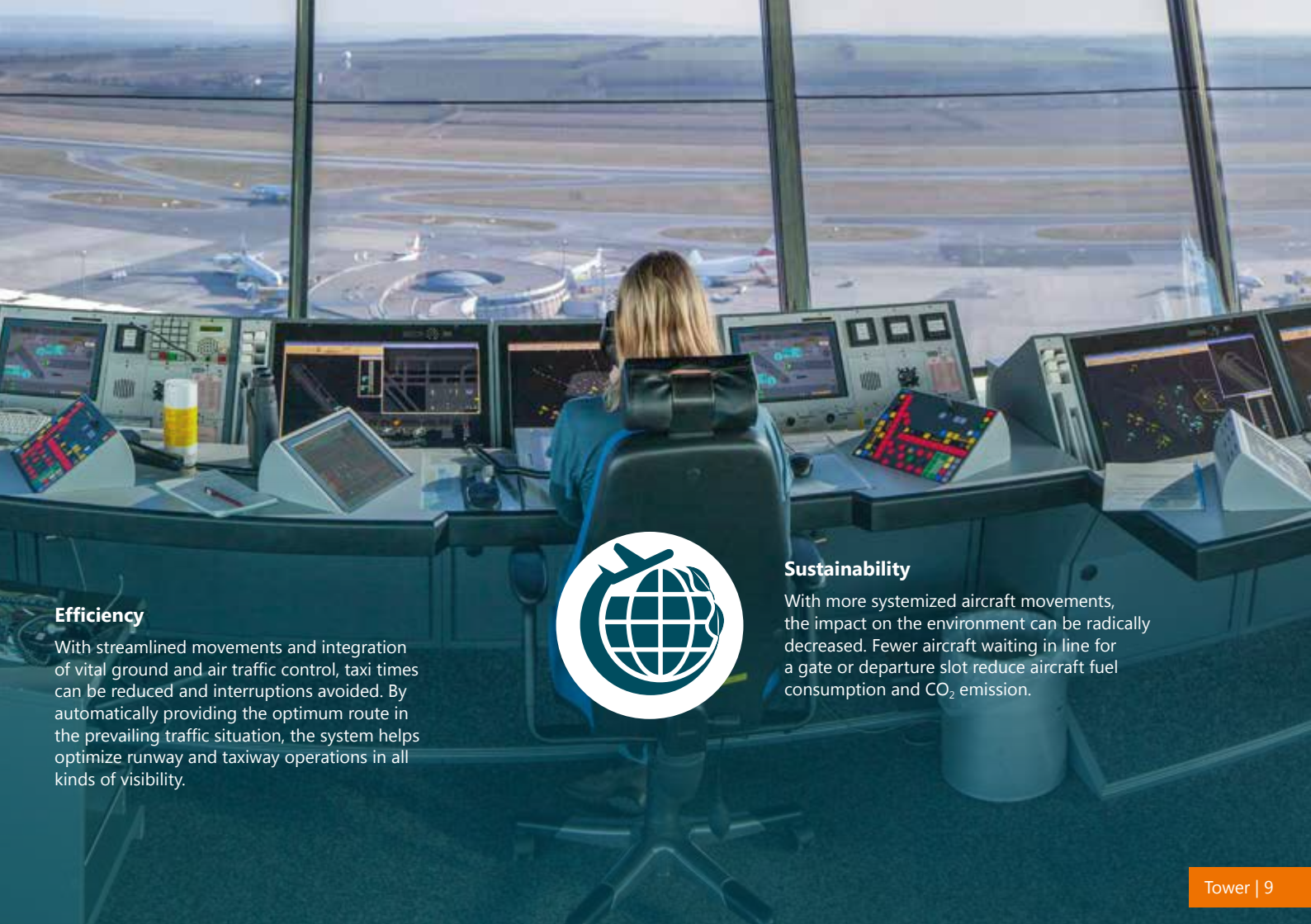
With our tower solutions you can maximize the level of safety and efficiency at your airport, while acknowledging environmental concerns.



Safety

By integrating multiple systems and enabling a complete awareness of ground and air traffic, the level of safety can be increased considerably.





Efficiency

With streamlined movements and integration of vital ground and air traffic control, taxi times can be reduced and interruptions avoided. By automatically providing the optimum route in the prevailing traffic situation, the system helps optimize runway and taxiway operations in all kinds of visibility.



Sustainability

With more systemized aircraft movements, the impact on the environment can be radically decreased. Fewer aircraft waiting in line for a gate or departure slot reduce aircraft fuel consumption and CO₂ emission.

Prepare the tower

for future opportunities

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 installations in more than 260 towers. ADB SAFEGATE has a portfolio that enables a fully integrated tower, i.e. one solution that includes A-SMGCS, E-STRIPS, INFO System, DMAN, radar systems, AFL, system integration, consulting and third-party systems.

**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.



“Together with our customers, we explore the current situation to see the bigger picture. Tower operations can often be a bottle-neck, but by integrating and automating the traffic control systems it is possible to substantially improve the flow of traffic in a safe and environmentally-friendly way. With our integrated solutions you get real-time information about all movements, from approach to departure.”

Christian Onselare 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.

adbsafegate.com

