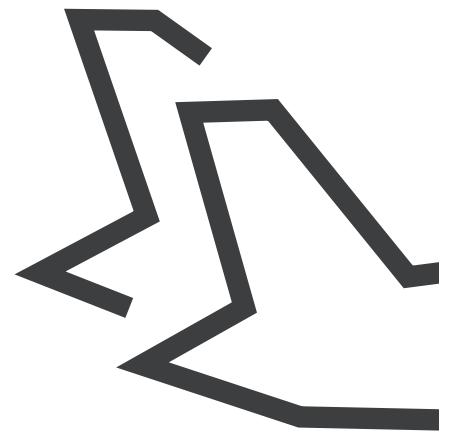




annual safety report

'24

/safety
department—**bucharest
airports**



BMSHC 282/19.03.2025



**bucharest
airports_**

General Manager
Gabriel BULGARU

Safety Manager
Cristian ALEXE

**Head of
LRBP Safety Office**
Radu BONDAR

**Head of
LRBS Safety Office**
Mircea CIUCA

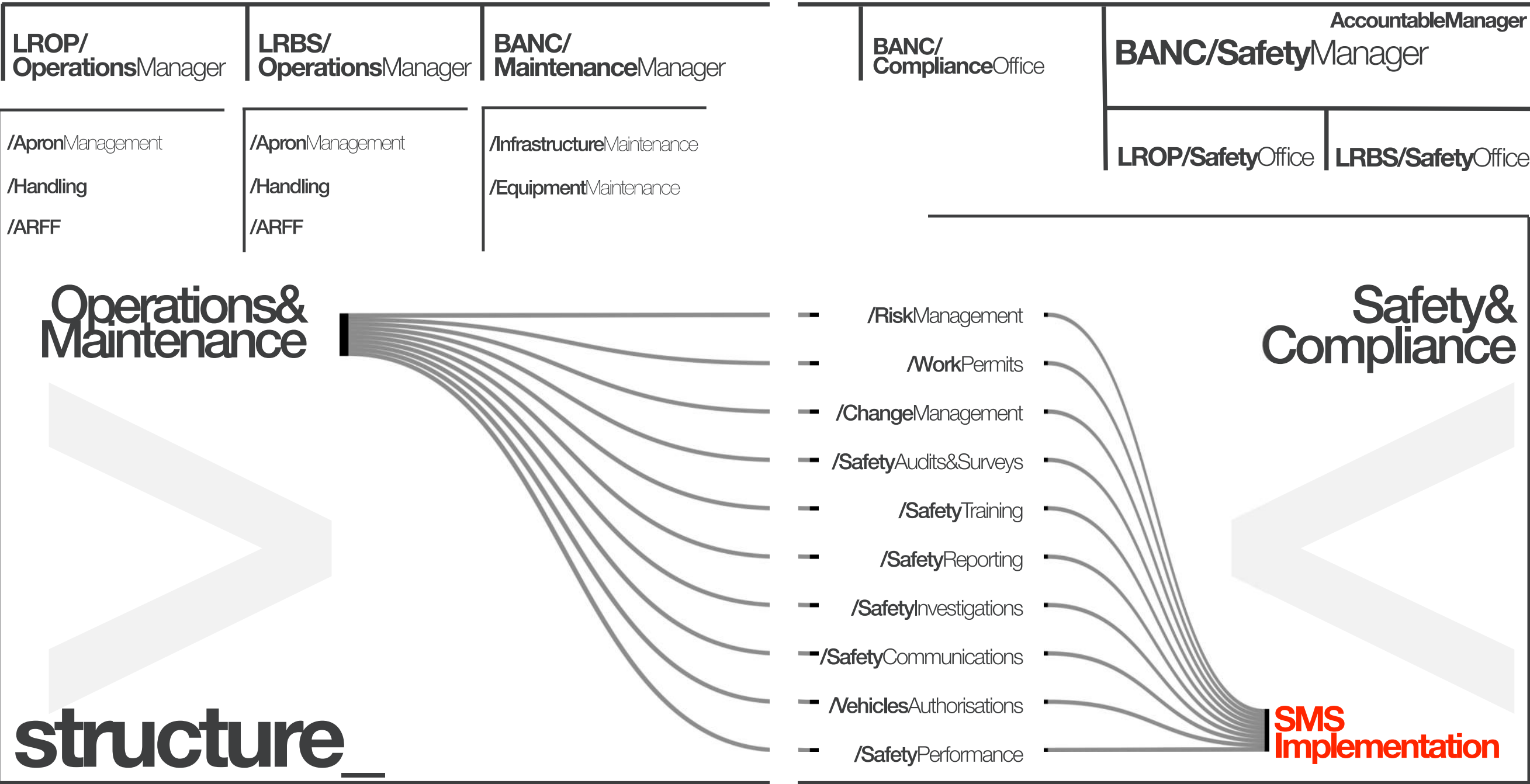


**annual
safety
report**

24
**/safety
department**

Our Airport Safety Management System (SMS) is a comprehensive framework designed to improve safety performance through systematic processes that identify, assess, and mitigate safety risks. The SMS is crucial for developing a culture of safety within the airport environment, encompassing all aspects of airport operations.

One key feature of an effective SMS is its organizational structure, which emphasizes separation from operational and maintenance functions. This separation ensures that safety oversight is independent, allowing for unbiased safety assessments, risk management and investigations without conflicts of interest. The SMS operates under direct subordination to the General Manager who is designated as the Accountable Manager.

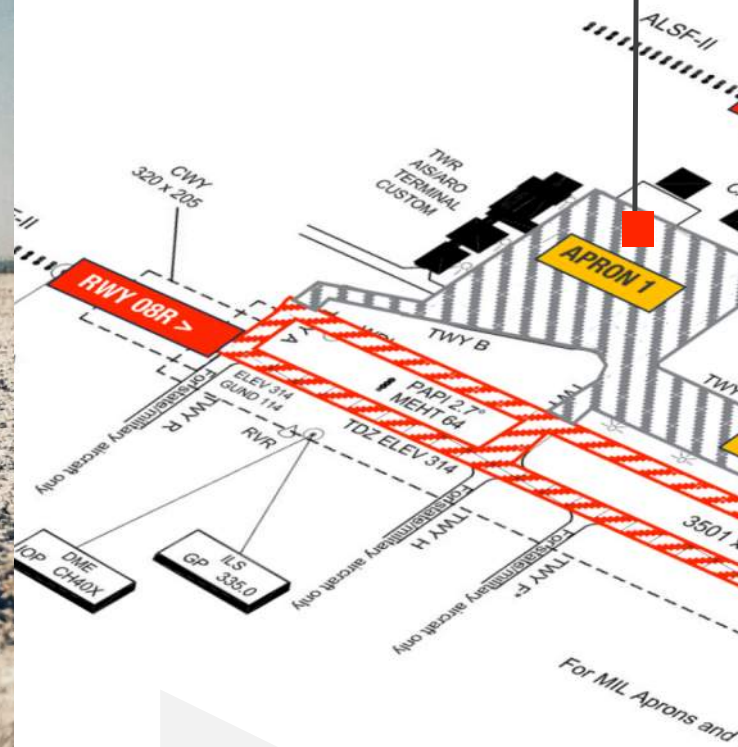




context
1

next_

During the upcoming phase, we will undertake the refurbishment of Apron #1 and its connecting taxiways, further enhancing airport functionality and safety.

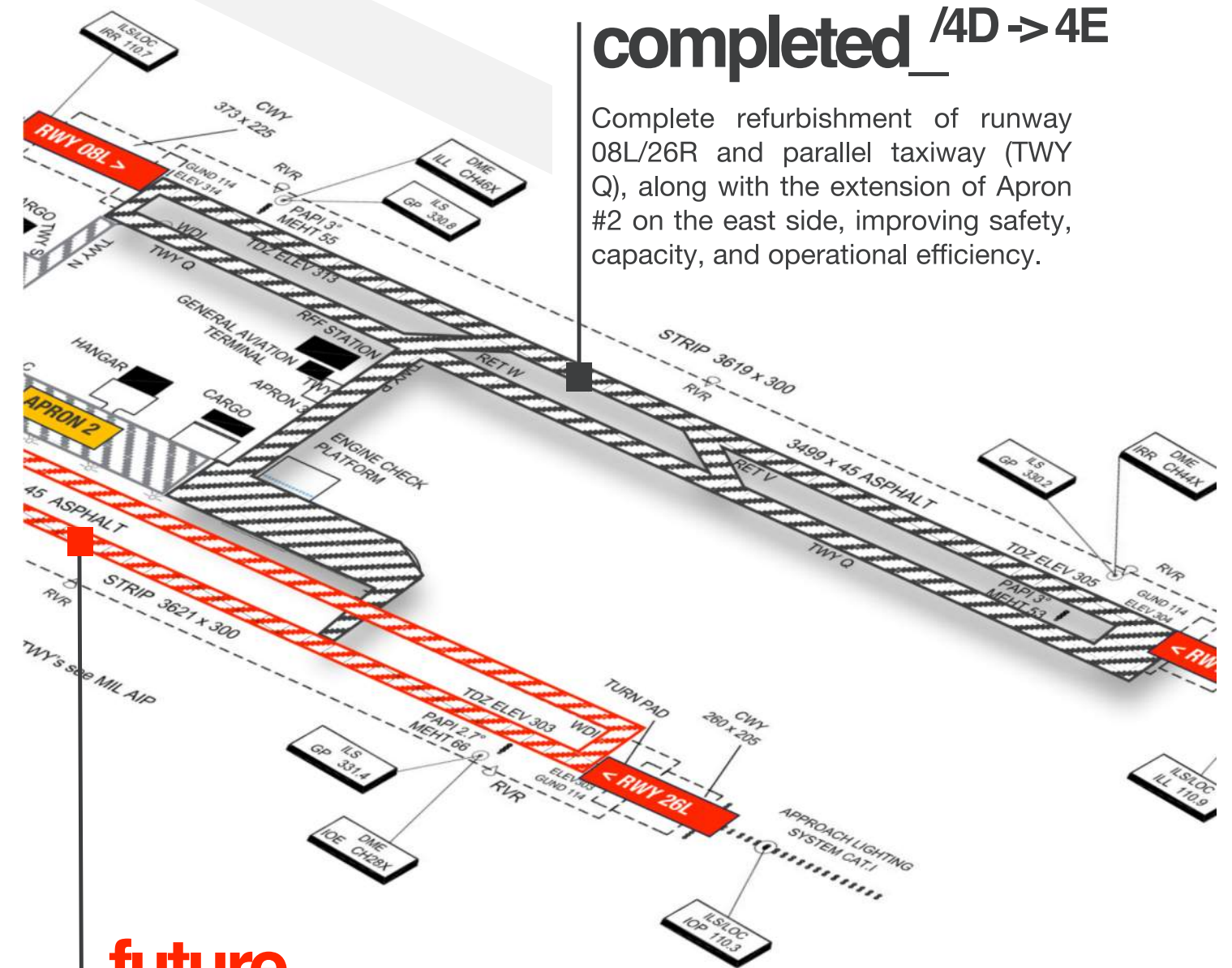


The project's goal is to achieve full infrastructure compliance with Regulation 139/2014 while enhancing capacity to accommodate anticipated airside traffic growth.

LROP

completed_ /4D -> 4E

Complete refurbishment of runway 08L/26R and parallel taxiway (TWY Q), along with the extension of Apron #2 on the east side, improving safety, capacity, and operational efficiency.



future_

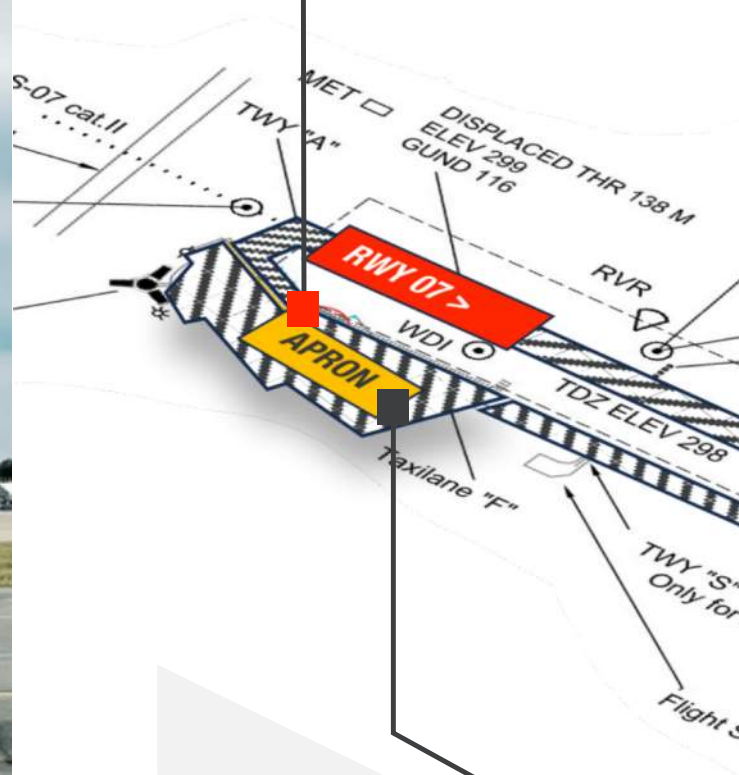
The continuation of the project includes the refurbishment of Runway 08R/26L and the construction of a new parallel runway, aimed at enhancing operational capability and safety. This phase will finalize the refurbishment of the existing infrastructure and ensure Code E operations across all surfaces.



context
2

future_

New STOPBAR on
for RHP on TWY A
& NOENTRY
barlights.

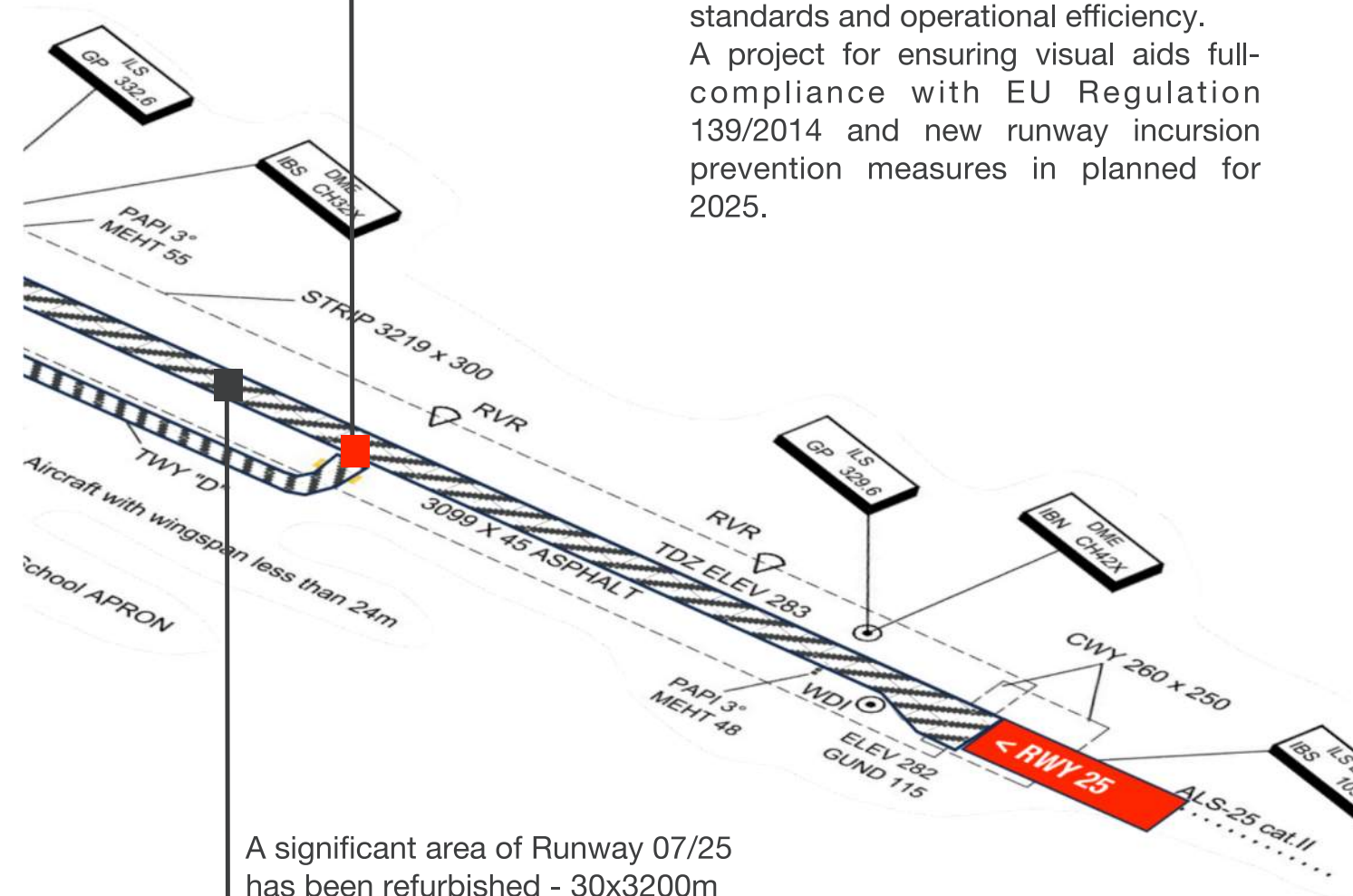


Partial refurbishment of
runway 07/25 and taxiways A
and D.

completed_ TWY

future_

New RWY guard-
lights for RHP on
TWY D



A significant area of Runway 07/25
has been refurbished - 30x3200m
(67%)

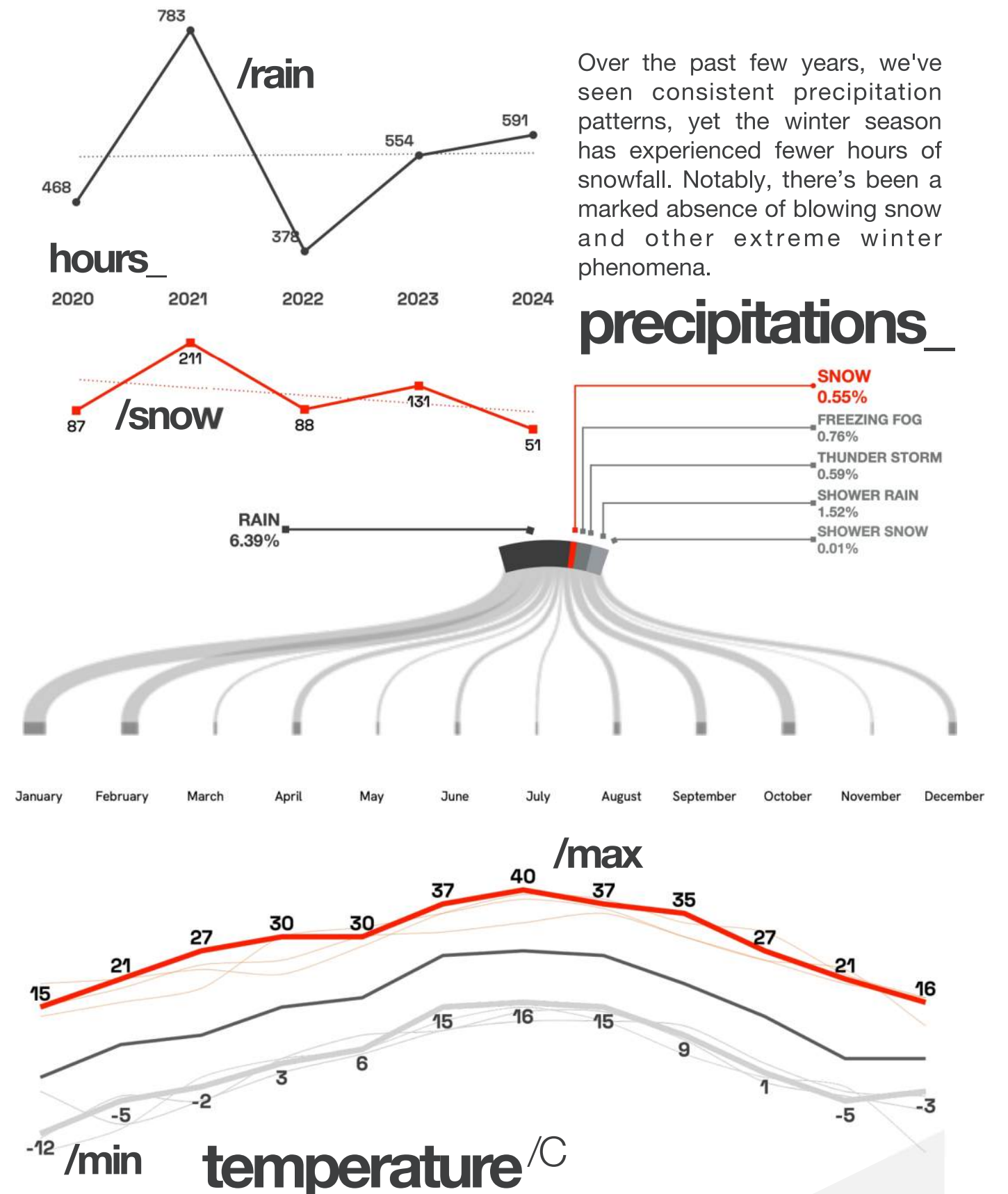
RWY completed_

LRBS

The continued implementation of the Surface Maintenance Program at Bucharest Băneasa Aurel Vlaicu Airport (LRBS) proves the commitment towards operational and safety performance. This program focuses on the regular inspection, repair, and enhancement of runway, taxiway, and apron surfaces to ensure they meet the highest safety standards and operational efficiency. A project for ensuring visual aids full-compliance with EU Regulation 139/2014 and new runway incursion prevention measures is planned for 2025.



Precipitation and temperature are critical factors influencing airport operations and safety in aviation. Rain, snow, and other forms of precipitation can significantly impact visibility, runway conditions, and aircraft performance. For instance, heavy rain can lead to water on runways, increasing the risk of hydroplaning, while snow can create challenges in maintaining clear and safe landing and takeoff surfaces. Moreover, operational safety is also affected by temperature variations. Extremely high temperatures can reduce engine performance and affect the density of the air, thus making takeoffs and landings more complex. Conversely, low temperatures can lead to ice formation on runways and aircraft surfaces, necessitating de-icing procedures to ensure safety during flight operations. Our airport management incorporates real-time weather monitoring to make informed decisions on runway usage and snow removal. By understanding and responding to the impacts of precipitation and temperature, airports mitigate risks and enhance the safety of their operations.



The temperature fluctuated within typical limits this year, peaking at a maximum of 40°C in July and dipping to a minimum of -12°C in January.



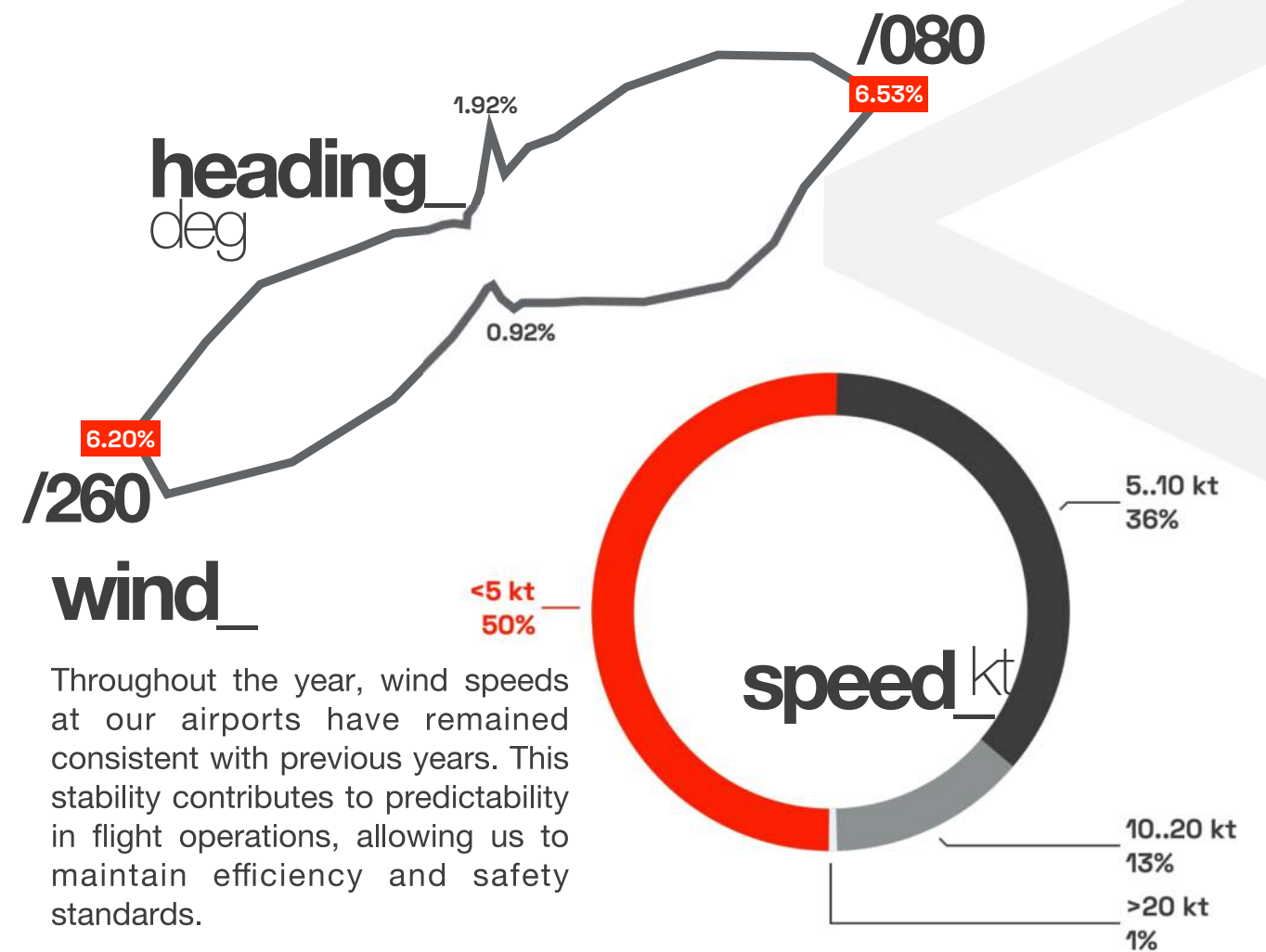
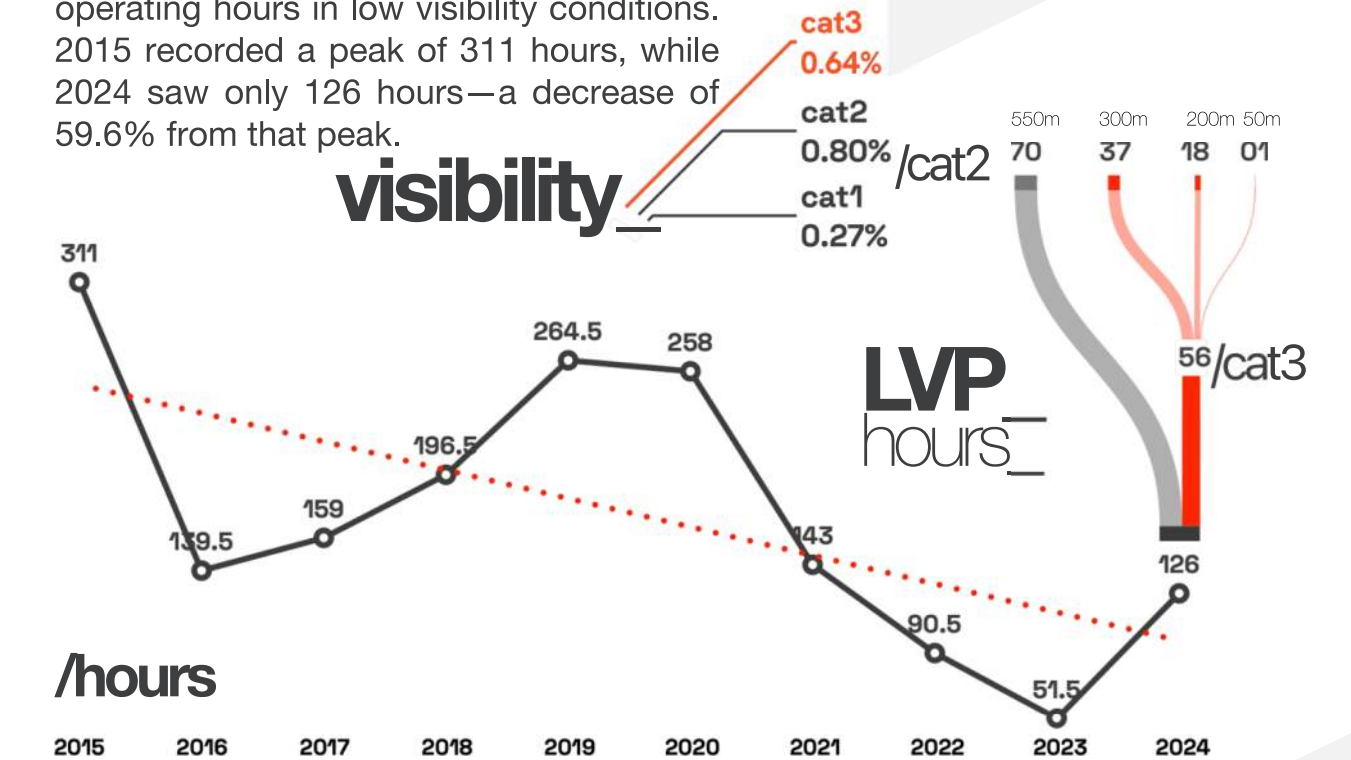


Low visibility and windy conditions significantly impact airport safety and operational efficiency. Low visibility, often caused by fog, heavy rain, or snow, restricts the ability of pilots and air traffic controllers to see runway markings, other aircraft, and potential hazards. This leads to increased decision-making time and reduced operational capacity, as flights may be delayed or diverted. Consequently, flight schedules can be disrupted, resulting in delays and increased costs for airlines and passengers alike.

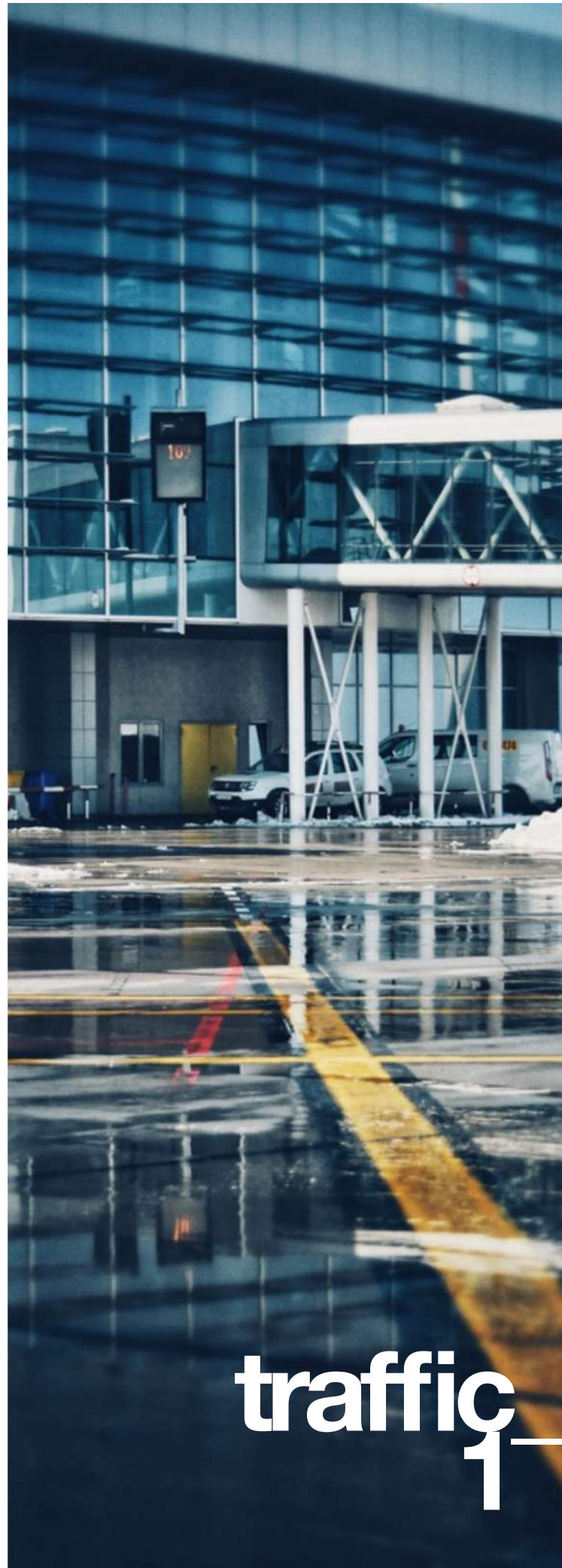
Windy conditions often add further challenges and may interrupt the flow of operations. Strong winds can induce turbulence during takeoff and landing, complicating these critical phases for pilots. Additionally, wind can affect ground operations, making it difficult to maneuver aircraft or equipments.

Together, low visibility and windy conditions require strict adherence to operating procedures. Our airports are equipped with advanced technologies, such as Instrument Landing Systems (ILS) and ground radar, to enhance operational efficiency in these challenging weather conditions. Overall, while safety is paramount, the impact of these environmental factors highlights the need for ongoing assessment, training, and investment in infrastructure to maintain operational integrity and passenger confidence.

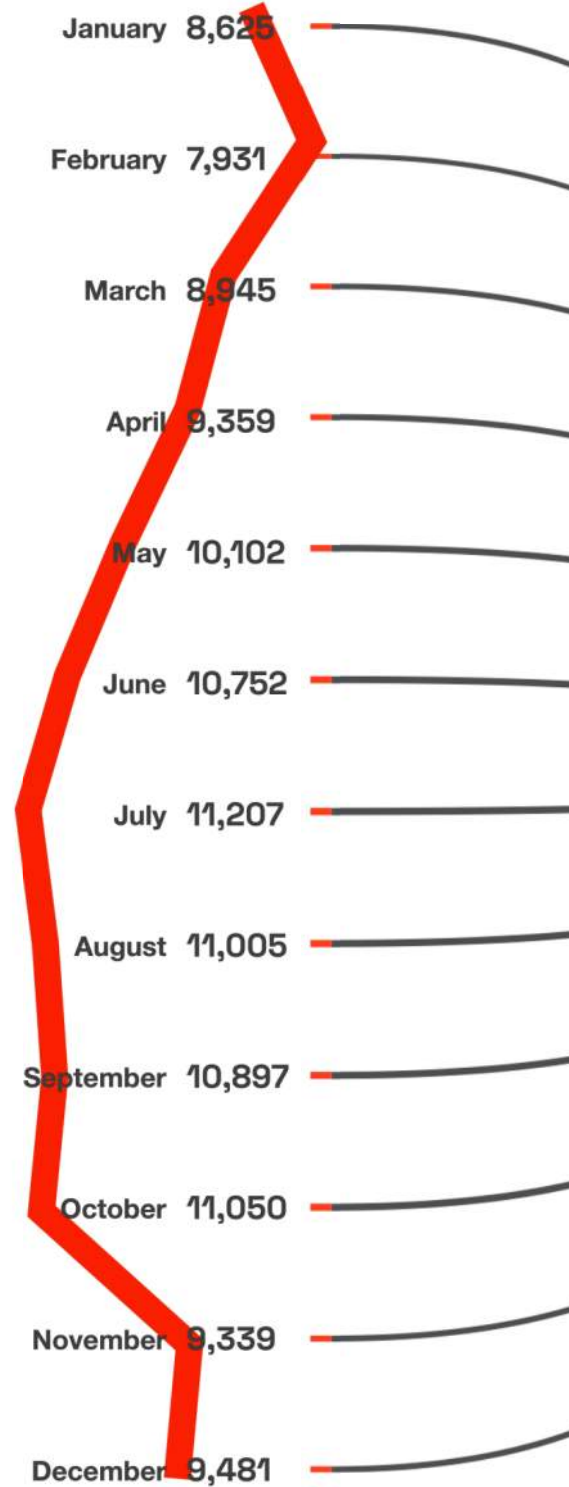
From 2015 to 2024, the airports experienced a notable decline in total operating hours in low visibility conditions. 2015 recorded a peak of 311 hours, while 2024 saw only 126 hours—a decrease of 59.6% from that peak.



Throughout the year, wind speeds at our airports have remained consistent with previous years. This stability contributes to predictability in flight operations, allowing us to maintain efficiency and safety standards.



monthly_mvmnts



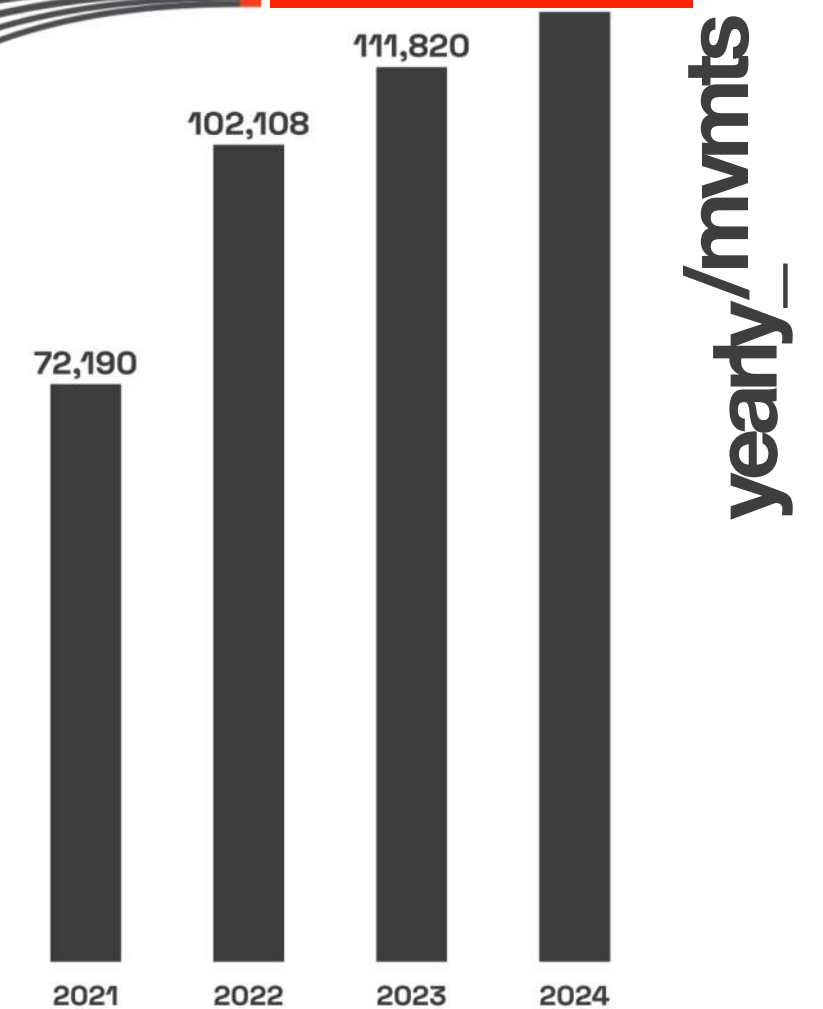
LROP

15,9 Mil pax

38.1% 41.4% growth

Henri Coanda Airport has experienced remarkable growth in air traffic over the past few years, with flight movements increasing from 72,190 in 2021 to an impressive 118,693 in 2024. This significant surge underscores the necessity for ongoing surveillance and enhancement of our safety measures. As we continue to accommodate this rising volume of air traffic, it is imperative that we prioritize safe and efficient operations at all levels. Our commitment to safety remains paramount, ensuring that every traveler and crew member can rely on a safe flying experience as we welcome more air traffic to our facilities.

9.5% 6.1% /LROP 118,693



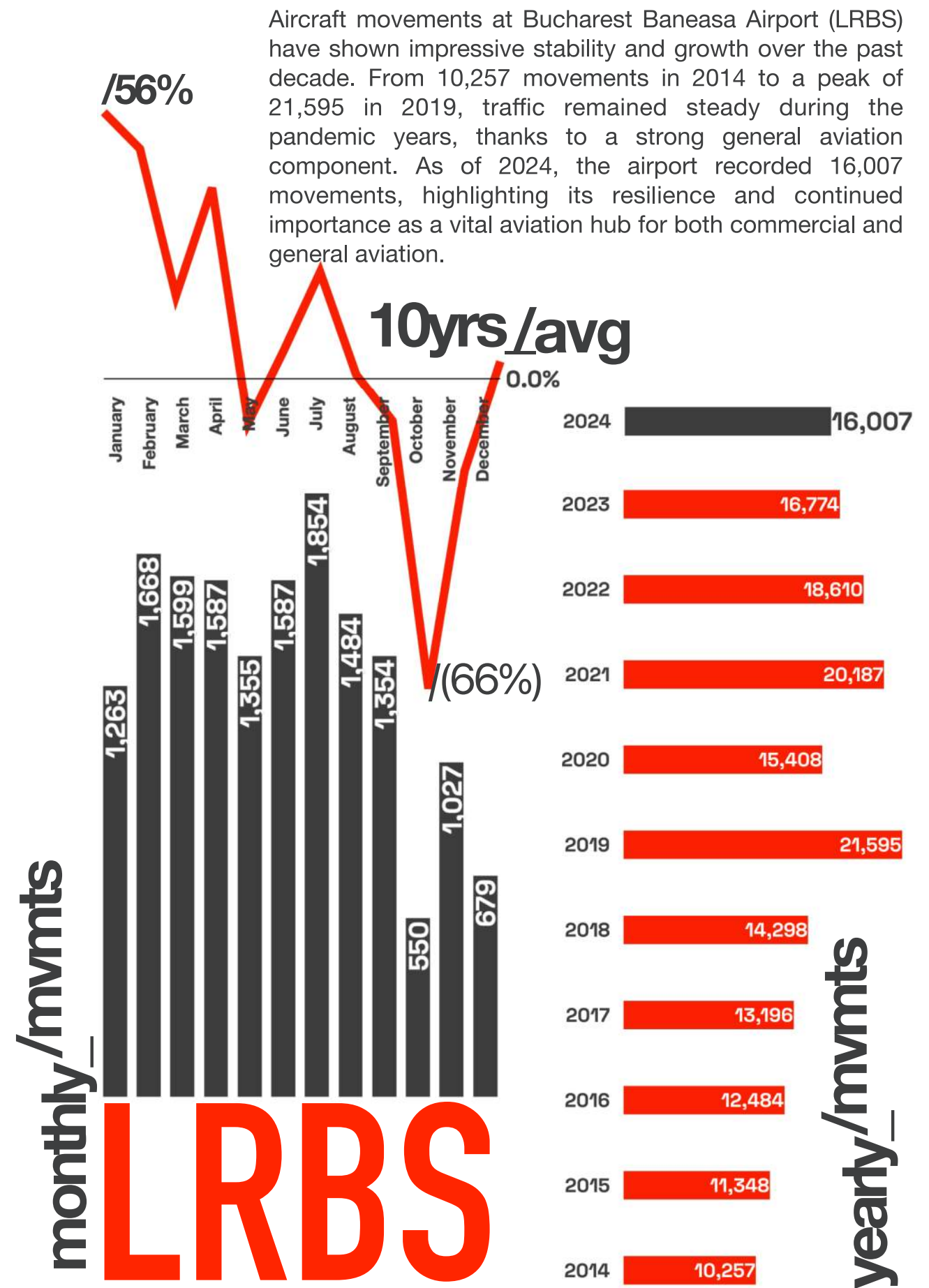


traffic
2

Bucharest Baneasa - Aurel Vlaicu International Airport (IATA: BBU, ICAO: LRBS) is one of the oldest airports in Romania, located approximately 8 kilometers from downtown Bucharest. Opened in 1910, it has a rich and storied history that reflects the evolution of aviation in the region. Originally serving as a military airfield, Baneasa transitioned to civilian use and quickly became a major hub for both passenger and cargo flights, playing a crucial role in the early development of commercial aviation in Romania.

As the second airport serving the Romanian capital, Baneasa Airport holds significant importance in facilitating travel and commerce, particularly for smaller aircraft and regional flights. It primarily caters to flights within Europe and to neighboring countries, providing travelers with a convenient alternative to the larger Henri Coandă International Airport (OTP). The airport's proximity to the city center makes it especially popular among business travelers and tourists seeking quick access to Bucharest and its vibrant cultural and historical attractions.

Despite facing challenges over the years, including a reduction in larger commercial traffic due to the expansion of Henri Coandă International Airport, Baneasa continues to play an essential role in Bucharest's transportation and tourism infrastructure.





BucharestAirports@Grupo Aeroportuario del Pacifico

2024/SafetyWeek

BUCHAREST AIRPORTS

AERODROME WORKS

SAFETY PERSPECTIVE

SAFETY DEPARTMENT
cristian alexe/Safety Director

GRUPO AEROPORTUARIO DEL PACIFICO
SAFETY WEEK 2024

/AERODROME WORKS

BUCHAREST AIRPORTS

AERODROME PERSONNEL TRAINING

SAFETY PERSPECTIVE

SAFETY DEPARTMENT
radu bondari/Head of UROP Safety Office

GRUPO AEROPORTUARIO DEL PACIFICO
SAFETY WEEK 2024

/PERSONNEL TRAINING

The poster grid for Aerodrome Works Safety Week 2024 includes the following sections:

- Intro:** Overview of aerodrome works, stakeholders, and project phases.
- Regulatory:** Overview of regulations, standards, and compliance.
- Planning:** Overview of planning, project lifecycle, and risk assessment.
- Implementation:** Overview of implementation, work permits, and safety evaluation.
- Workflow:** Overview of workflow, actions, and outputs.
- Projects:** Overview of projects, safety management, and risk assessment.
- Completion:** Overview of completion, monitoring, and risk assessment.
- Experience:** Overview of experience, lessons learned, and best practices.
- Thank You!** Acknowledgment of participants and sponsors.

The Bucharest Airports Safety Department specialists participated in the Grupo Aeroportuario del Pacifico Safety Week 2024, showcasing its commitment to aviation safety and operational excellence. During the event, the department engaged in knowledge sharing, best practice discussions, and collaborative workshops with industry professionals from across the globe. This participation not only highlighted Bucharest's dedication to enhancing safety standards but also promoting valuable connections with other airport authorities, contributing to a collective effort toward advancing safety practices in the aviation sector.

The poster grid for Aerodrome Personnel Training Safety Week 2024 includes the following sections:

- Analysis:** Overview of analysis, human factors, and performance.
- Intro:** Overview of introduction, environment, and personnel.
- Objective:** Overview of objectives, depth of learning, and competence.
- Initial:** Overview of initial training, weaknesses, and training volume.
- New method:** Overview of new method, strengths, and training approach.
- Roadmap:** Overview of roadmap, milestones, and training program.
- Matrix:** Overview of matrix, safety competence, and training matrix.
- Delivery:** Overview of delivery, training, and training volume.
- Program:** Overview of program, new perspective, and training approach.
- Experience:** Overview of experience, challenges, and training program.
- Competency:** Overview of competency, role-based, and training approach.
- Thank You!** Acknowledgment of participants and sponsors.



Bucharest Airports actively engage in various initiatives led by Airports Council International (ACI), showcasing the commitment to enhancing aviation safety and operational excellence.

Through participation in the APEX in Safety Program, the Safety Department has contributed to peer reviews worldwide, sharing expertise and best practices while learning from global counterparts.

Additionally, Bucharest Airports hold membership in the ACI Technical Operational Safety Committee (TOSC), a forum dedicated to facilitate knowledge exchange among member airports at an expert level.

This involvement reflects Bucharest Airports' dedication to raising safety standards and fostering collaboration within the aviation industry, ultimately aiming for continuous improvement in safety and operational effectiveness.

**Technical
Operational
Safety
Committee**



The Bucharest Airport Safety Department is proudly a member of the Airport Council International (ACI) Technical Operational Safety Committee (TOSC). This prestigious committee serves as a forum designed to enhance knowledge exchange among member airports at an expert level.

**Apex in
Safety
Program**



Bucharest Airports have established themselves as a promoter of aviation safety through its active role in the Airports Council International (ACI) APEX in Safety Program, which has been in operation for over a decade. Representatives from the Safety Department have participated for the past 12 years in various peer reviews globally, enhancing their own practices while contributing valuable insights to the international community.

Last year, ACI recognized Bucharest Airports' expertise by inviting our safety specialists to join again review teams within the program. This collaboration not only reflects the airport's commitment to safety but also helps us elevate our safety practices through information and expertise sharing across the aviation industry.

**/AMSTERDAM
47th_**

**/MANCHESTER
48th_**

/MEDINAH



/LOS MOCHIS



/MANZANILLO





activities_1

245 /safety
surveys&audits_

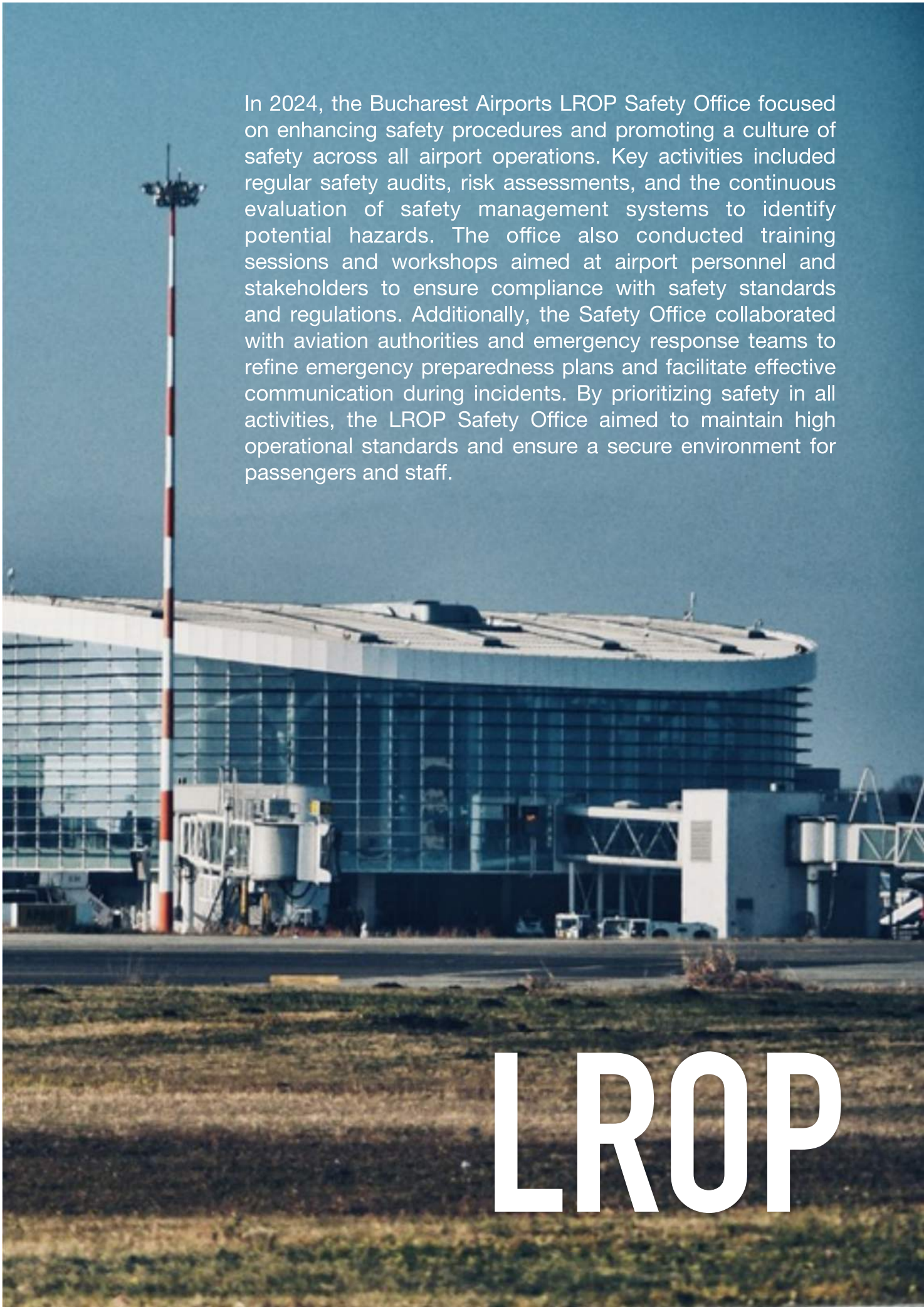
5 /safety
investigations_

29 /work permits
assessments_

3 /change
management
assessments_

860 /vehicle
authorisations_

57 /safety
bulletins_



In 2024, the Bucharest Airports LROP Safety Office focused on enhancing safety procedures and promoting a culture of safety across all airport operations. Key activities included regular safety audits, risk assessments, and the continuous evaluation of safety management systems to identify potential hazards. The office also conducted training sessions and workshops aimed at airport personnel and stakeholders to ensure compliance with safety standards and regulations. Additionally, the Safety Office collaborated with aviation authorities and emergency response teams to refine emergency preparedness plans and facilitate effective communication during incidents. By prioritizing safety in all activities, the LROP Safety Office aimed to maintain high operational standards and ensure a secure environment for passengers and staff.

LROP



activities
2

216/safety
audits&surveys_

49/safeguarding
inspections_

10/work permits
assessments_

37/risk
assessments_

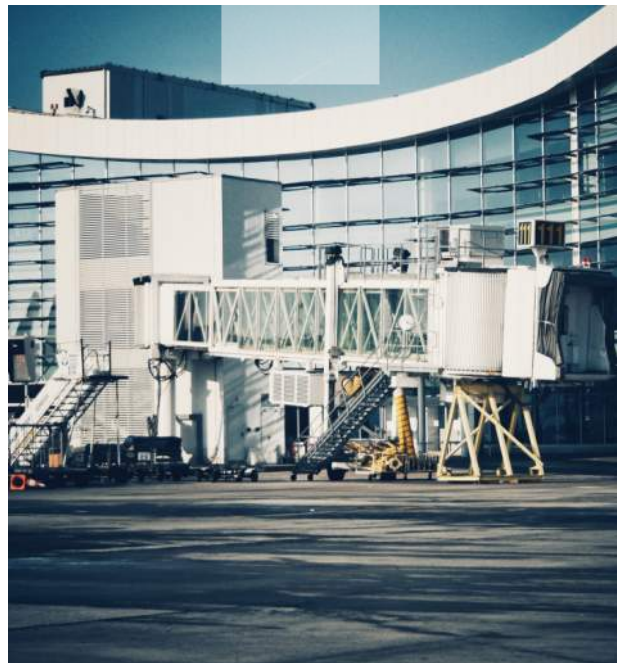
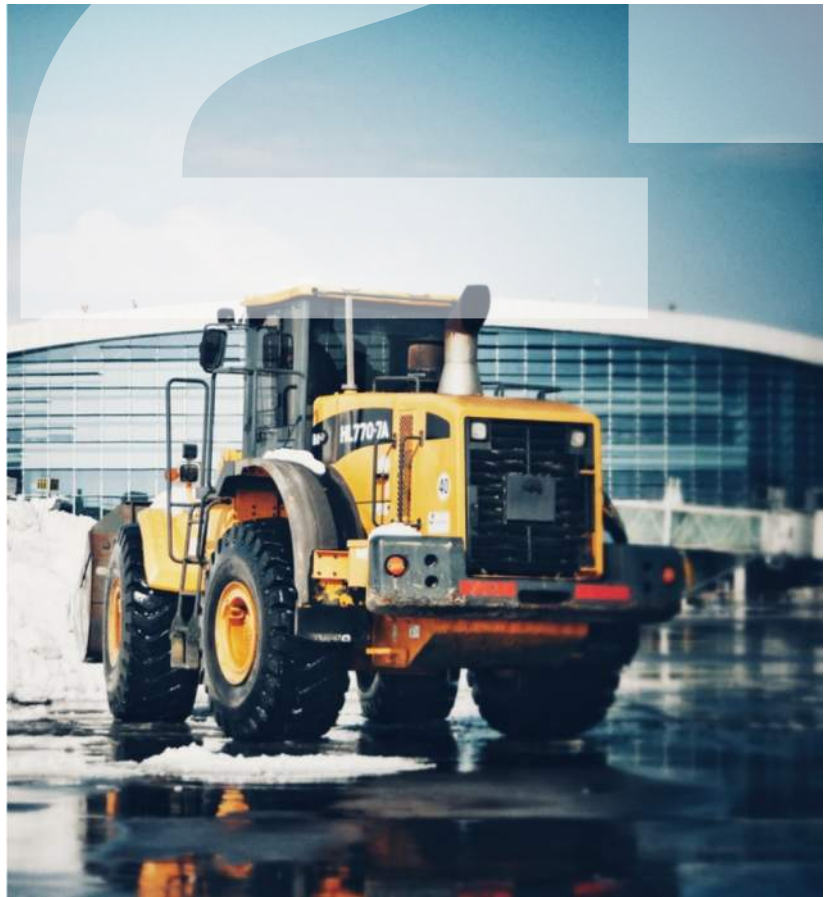
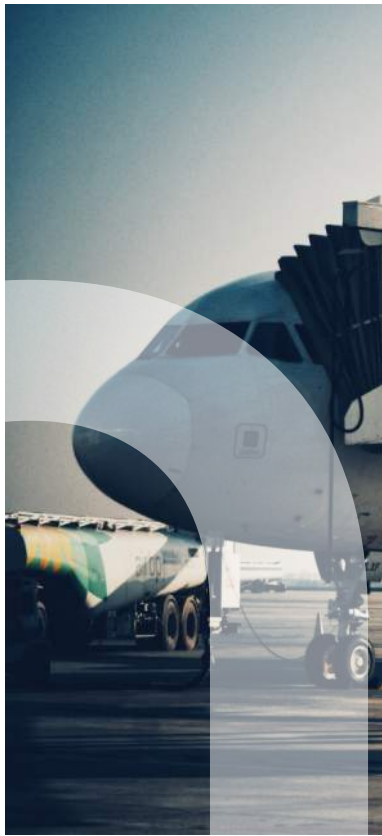
79/vehicle
authorisations_

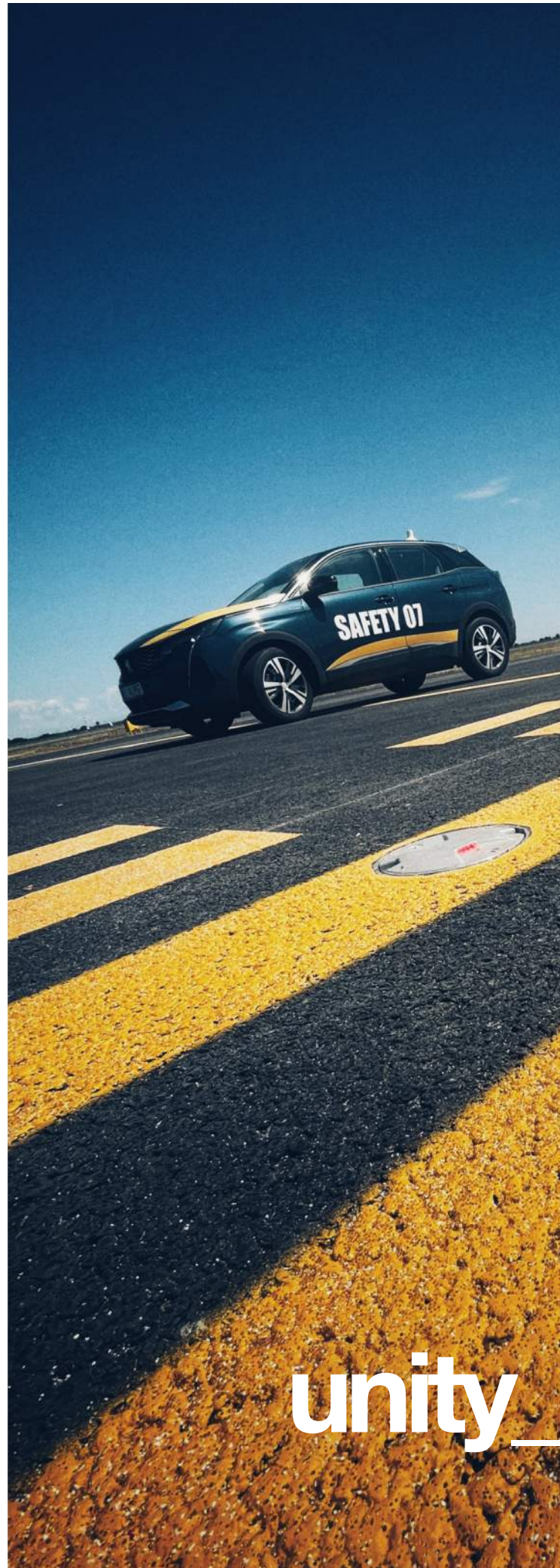
21/safety
bulletins_



During 2024, LRBS Safety Office has worked closely with airport personnel to ensure all safety measures are consistently followed and to promote awareness of best practices. The LRBS Safety Office aims to ensure the aerodrome's compliance with safety standards during operations. Over the course of 2024, the Safety Office facilitated several risk assessments and evaluations to support aerodrome maintenance works and operations

LRBS



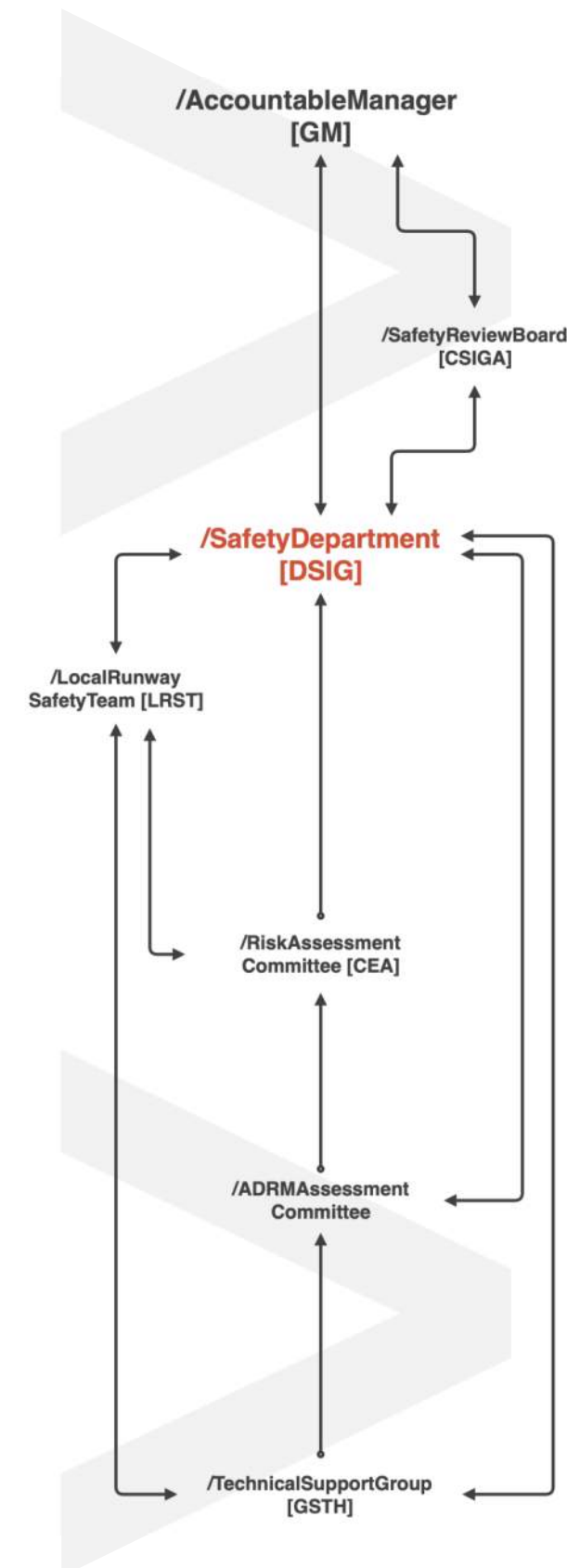


/cooperation_

Collaboration and coordination among various stakeholders ensures seamless communication and data sharing, which leads to an enhanced, real-time safety monitoring and incident response.

/integration_

The airport interconnectivity within the safety management system ensures seamless communication and data sharing among various stakeholders, including airlines, ground services, and regulatory bodies, enhancing real-time safety monitoring.



/Safety_Review Board_

Oversees the entire safety management system, ensuring compliance and strategic direction

/Local Runway SafetyTeam_

Focuses on operational challenges and safety issues specific to runway operations and manouvering area.

/Technical_Support Group_

A subset of the LRST that meets more frequently to address practical matters and technical details.

/ADRM_Assessment Committee_

Works collaboratively with external entities to assess the implications of changes to common managed processes.

/Risk_Assessment Committee_

Evaluates potential risks and develops mitigation strategies based on the input of safety department experts and operational managers.



/runway safety_

The Runway Safety Program at Bucharest Airports is a comprehensive initiative designed to enhance safety and operational efficiency on the runways. This program focuses on two critical components: the Runway Incursions Prevention Plan and the Runway Excursions Plan, both aimed at mitigating risks associated with runway operations.

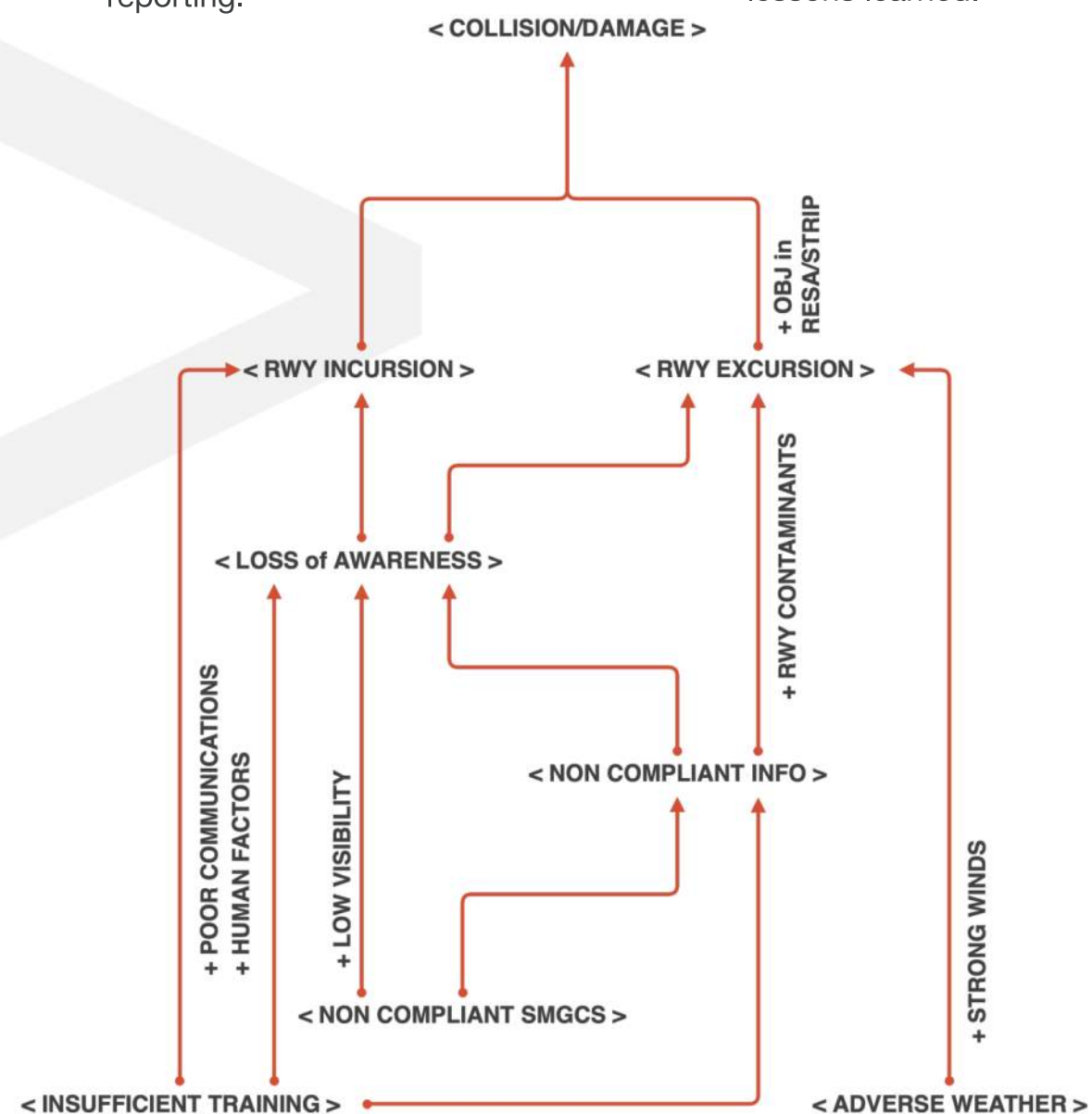
programs
2

/RWY incursions prevention plan

The Runway Incursions Prevention Plan addresses the potential for unauthorized access to runways, ensuring that all personnel and vehicles adhere to strict protocols. Through rigorous training and regular safety audits, the program seeks to minimize incidents that could jeopardize aircraft operations. Collaboration with pilots, air traffic controllers, and ground personnel is essential, fostering a culture of safety awareness and proactive incident reporting.

/RWY excursions prevention plan

The Runway Excursions Plan focuses on preventing and managing situations where an aircraft exits the runway during takeoff or landing. This includes the standard operating procedures for runway condition reporting and runway maintenance to ensure optimal conditions. The program also emphasizes post-incident analysis, enabling continuous improvement based on lessons learned.

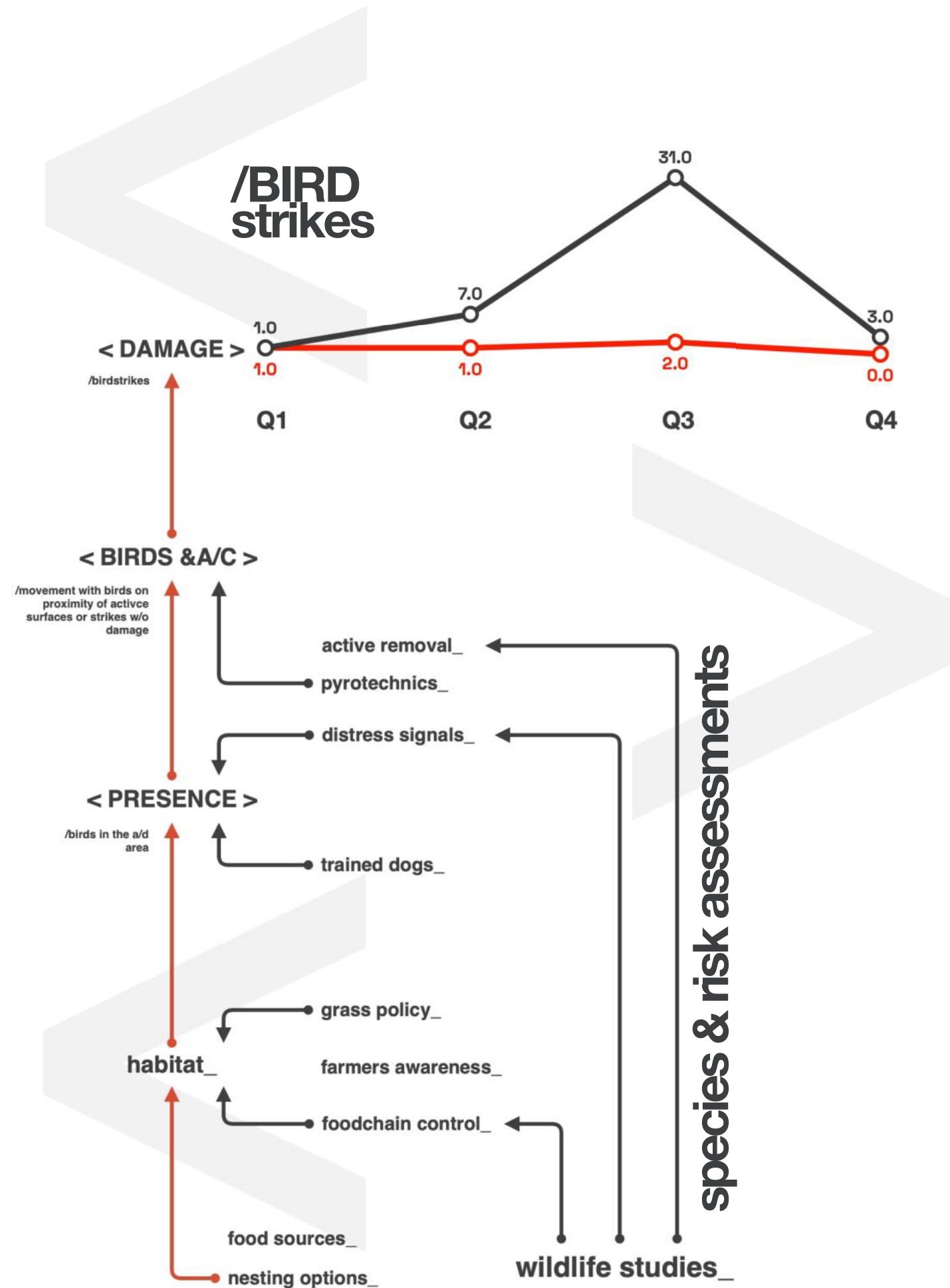




/wildlife management_

The Wildlife Management Program at Bucharest Airports is a proactive initiative aimed at ensuring the safety of aircraft operations and passengers by mitigating wildlife-related hazards. Recognizing the potential risks posed by birds and other wildlife near airport environments, the program employs a combination of habitat monitoring, deterrent measures and management strategies.

Through regular wildlife assessments and surveillance, the program identifies and tracks animal activity in and around the airport. This data informs targeted actions such as habitat management, the use of deterrents, and collaboration with local authorities to ensure appropriate landuse. Additionally, the program emphasizes public awareness and employee training, developing a culture of vigilance among staff and stakeholders.





/resources_

By attending various courses and participating in different working groups, Safety Department specialists significantly enhanced their knowledge, skills, and attitudes towards safety management. The courses provided them with comprehensive insights into the latest safety regulations, risk management strategies, and innovative practices essential for maintaining high safety standards in the aviation industry.

Engaging in collaborative working groups allowed specialists to share experiences, gain diverse perspectives, and contribute to the development of best practices. This collaborative approach not only fostered teamwork but also instilled a proactive mindset towards safety challenges. Overall, their participation in ongoing education and collaborative efforts reinforced their commitment to enhancing safety outcomes and promoting the well-being of all stakeholders.



/the european organisation for the safety of air navigation

In 2024 Safety Department representatives have joined the EUROCONTROL's AOT meetings related to implementation of the A-CDM processes.

AICH WG /airport integration
coordination & harmonisation
working group

ADCH UG /airport data exchange
coordination &
harmonization user group



/airports council international

In 2024, the Safety Department specialists engaged in a series of specialized training courses aimed at enhancing their competencies in various areas of aviation safety management. These courses covered a broad spectrum of topics, including advanced risk assessment methodologies, safety auditing techniques, incident investigation processes, and the integration of technology in safety management systems.

/managing aerodrome
works

/accident& incident
investigation

/aeronautical studies&
risk analysis

/emergency planning &
crisis management

/runway incursions
awareness & prevention

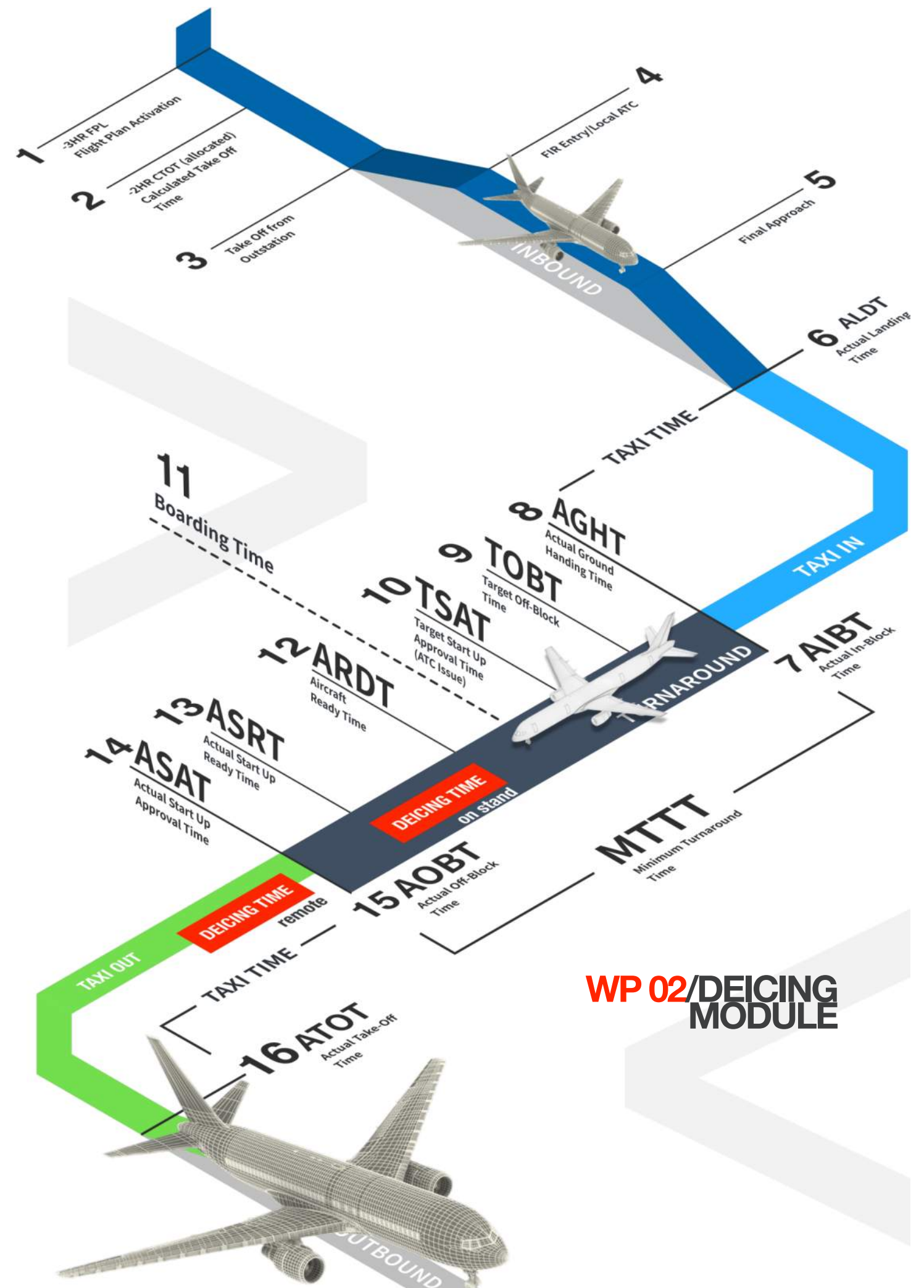


/PEACOCK_

23-EU-TG-PEACOCK

PEACOCK is a EU funded project and aims to connect the Network Manager with 20 additional airports across Europe, including regional hubs in countries including Belgium, France, Romania, the Netherlands, Czechia, and Poland. The project will also implement a semi-automatic process to monitor turn-around milestones, improving the predictability of flight departure times. Additionally, it will facilitate the exchange of departure planning information and traffic flow data within the air traffic management network.

Through the Safety Department, Bucharest Airports is actively involved in this project, contributing with information and expertise to the development of several work packages.



WP 02/DEICING
MODULE



/KPI@100k
mvmt

LROP

/ACCIDENTS
#ACC 00,00

/INCIDENTS
#IG 00,00

The airport (LROP) successfully achieved its primary objectives for 2024. All key performance indicator (KPIs) recorded below accepted thresholds, except ramp damage events. This accomplishment highlights the effectiveness of our safety protocols and risk management strategies, demonstrating a strong commitment to maintaining high safety standards. In the next period we will focus our efforts and our collaboration with our partners to ensure that all targets are met.

RUNWAY safety_

/RWY_incursions
#RWS.RI 00,00

/RWY_excursions
#RWS.RE 00,00

/UAS_incident
#ADR.DRN 00,00

/BIRD_strike
#RWS.BRD 35,39

/WLD_strike
#RWS.WLD 00,00

/FOD_presence
#RWS.FOD 52,24

GROUND ops_

/GROUND_collision
#GOP.GCL 00,00

/RAMP_damage
#GOP.RMP 01,69

/VEHICLES_collision
#ADR.AUT 09,27

/TWY_incursions
#GOP.TWI 00,00



/KPI@10k
mvmt

LRBS

/ACCIDENTS
#ACC 00,00

/INCIDENTS
#IG 00,00

The airport (LRBS) successfully achieved its primary objectives for 2024 regarding accidents and serious incidents, but some indicators had values above the planned thresholds. The main concern is focused on RWY incursions generated by the configuration of the obstacle free zone. Although all incursions were type D (without immediate safety consequence) measures to increase the control on this risk are planned.

RUNWAY safety_

/RWY_incursions
#RWS.RI 00,62

/RWY_excursions
#RWS.RE 00,00

/UAS_incident
#ADR.DRN 00,00

/BIRD_strike
#RWS.BRD 02,50

/WLD_strike
#RWS.WLD 00,00

/FOD_presence
#RWS.FOD 19,37

GROUND ops_

/GROUND_collision
#GOP.GCL 00,00

/RAMP_damage
#GOP.RMP 00,00

/VEHICLES_collision
#ADR.AUT 00,00

/TWY_incursions
#GOP.TWI 01,25



nextgen_

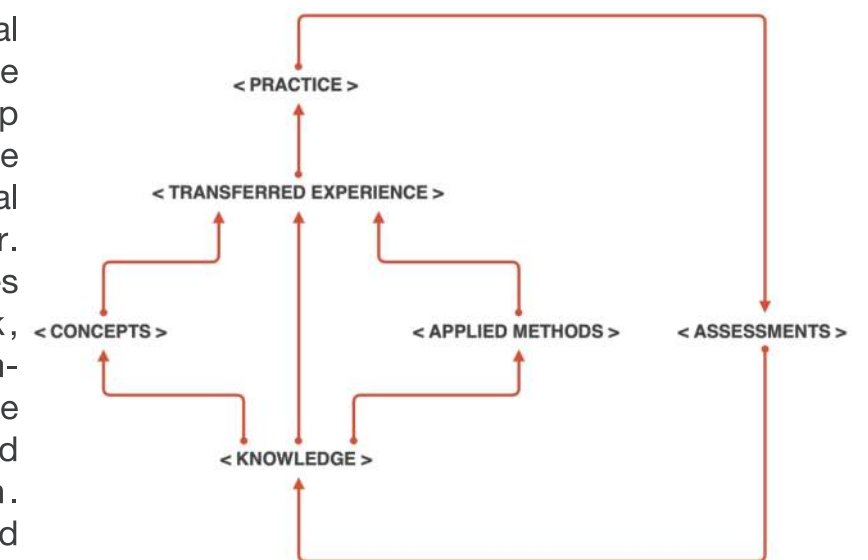
/internship program_

The Bucharest Airports internship program offers an exceptional opportunity for students from the Faculty of Aerospace Engineering to gain hands-on experience in the aviation industry. This program is designed to bridge the gap between academic knowledge and practical application, allowing students to work alongside industry professionals of Romania's major airports. Interns will engage in various projects related to airport operations, safety management, and aerospace technology, enhancing their skills and understanding of the aviation sector. Through this collaboration, students will not only develop their technical expertise but also build valuable professional networks, setting a solid foundation for their future careers in aerospace engineering.

faculty of aerospace engineering_

As alumni of this faculty, we believe that establishing an initiative aimed at providing a collaborative environment where students can share ideas, work in teams, and contribute to ongoing real-world projects is crucial for their skills development. Mentorship from seasoned professionals will guide them in their tasks, ensuring they receive personalized feedback and support for their career advancement. By the end of the internship, participants will emerge not only with enhanced technical skills but also with a comprehensive understanding of the aviation industry, making them competitive candidates for future job opportunities in the field of aerospace engineering.

In addition to the professional and technical skills gained, the Bucharest Airports internship program emphasizes the importance of soft skills crucial for success in any career. Interns will engage in activities that promote teamwork, communication, and problem-solving abilities, which are essential in the fast-paced environment of aviation. Networking events and collaborative projects with fellow interns and airport staff will further enhance their interpersonal skills, giving them the confidence to navigate complex workplace dynamics. As a result, participants will leave the program not only with enriched technical knowledge but also as well-rounded individuals prepared to face the challenges of the evolving aerospace industry. This holistic approach ensures that interns are equipped not just for their next role, but for a successful lifelong career in aviation engineering and beyond.





/development_

The future development of Bucharest Airports' Safety Management System (SMS) is a vital initiative aimed at enhancing the overall safety and efficiency of airport operations. A key component of this development is the integration of artificial intelligence tools designed for safety assessments, which leverage data analytics to identify potential hazards and improve decision-making processes.

Further, the continued integration of SMS procedures ensures that safety measures are seamlessly embedded within daily operations, promoting a culture of safety across all levels of the organization. The establishment of the Bucharest Airports SafetyNet represents another significant advancement, facilitating cooperation and information sharing with other safety management systems, thereby creating a unified approach to risk management in the aviation sector. Additionally, the completion of a new training system equips staff with the necessary knowledge and skills to effectively implement safety practices and respond to emergency situations. Collectively, these initiatives reflect Bucharest Airports' commitment to maintaining the highest safety standards and fostering a proactive safety culture within the aviation industry.

**/development of AI tools
for safety assessments_**

**/further integration of SMS
procedures_**

**/development of bucharest
airports safetynet_**

**/completion of the new
training system_**

**/develop safety promotion
by new channels_**

safety_initiatives



extras_

/BIAS2024_

Bucharest Air Show & General Aviation Exhibition

The Safety Department at the Bucharest International Air Show played an important role in ensuring a secure and risk-free environment for participants and spectators alike. The department is responsible for developing and implementing comprehensive safety measures dedicated to this event. It works closely with various stakeholders, including aviation authorities, emergency services, and participants, to ensure compliance with safety regulations and industry best practices. By prioritizing safety measures, the Safety Department aims to create a seamless and enjoyable experience for all attendees while showcasing the exciting world of aviation



LRBS
12th edition_



In conclusion, the annual safety report of Bucharest Airports' Safety Department highlights a year of significant progress and proactive initiatives aimed at enhancing the safety and efficiency of airport operations. Through the development and integration of advanced tools, comprehensive training programs, and robust safety management procedures, we have reinforced our commitment to creating a safe and secure environment for all passengers, staff, and stakeholders.

The collaborative efforts across departments, along with our engagement with external safety management systems, have promoted a culture of awareness and accountability within our organization. Importantly, we are pleased to report that all identified risks were maintained at acceptable and tolerable levels throughout the year, ensuring that safety continues to be our top priority.

conclusions.

As we move forward, we remain dedicated to continuous improvement, adapting to the evolving safety landscape, and embracing innovative solutions that further mitigate risks.

Together, these strategies will ensure that Bucharest Airports meets industry safety standards, supporting our mission to provide a safe, reliable, and enjoyable travel experience for everyone. We look forward to another year of commitment to safety excellence and the positive impact it brings to the aviation community.

We thank you for supporting safety.

SafetyTEAM





Mar/2025

Annual Safety Report

BUCHAREST AIRPORTS NATIONAL COMPANY



Airport Safety Department

Henri Coanda International Airport/LROP
Safety Office

Bucharest Baneasa International Airport/LRBS
Safety Office