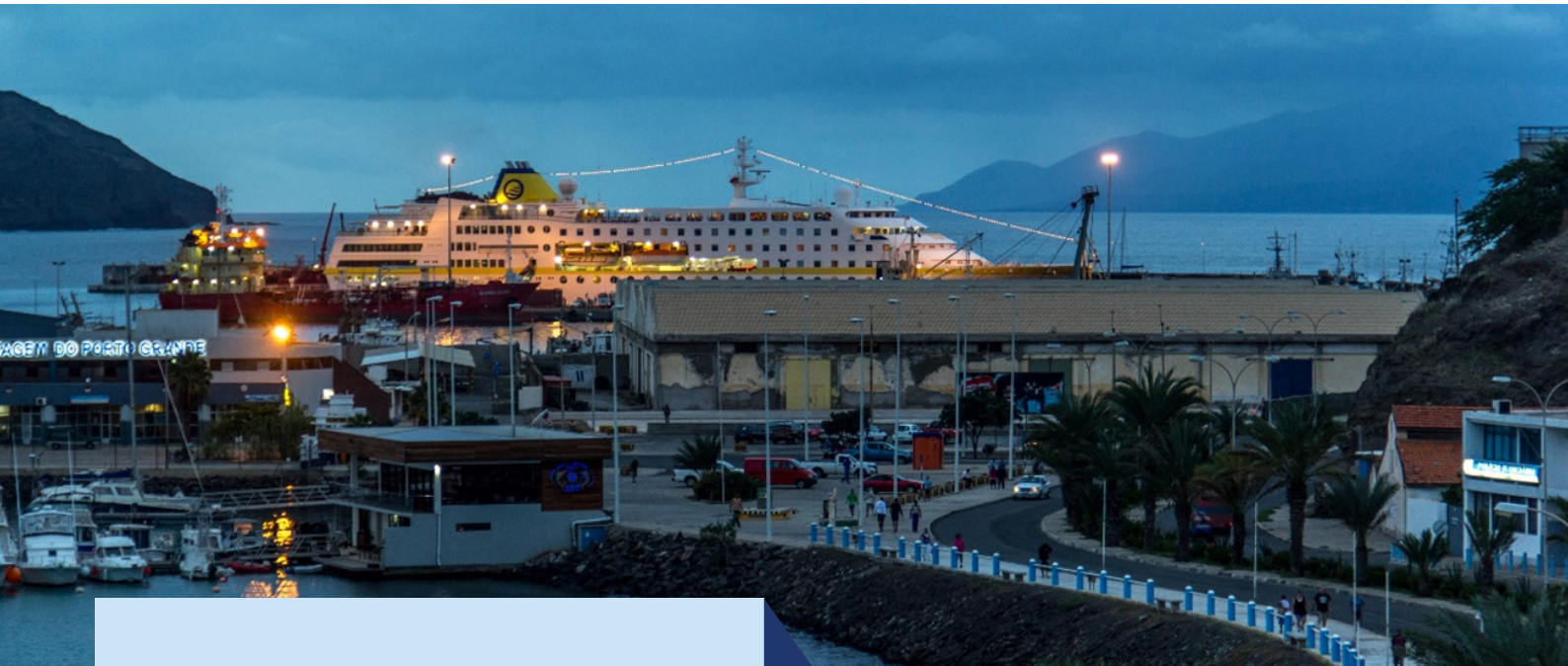




PREVENTION IS SAVING LIVES. INVESTIGATION IS AVOIDING IT FROM HAPPENING AGAIN.

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Safety in air and maritime transport is an essential element to ensure the protection of passengers, crews, cargo, and the means of transport themselves. It is based on a strict set of standards, procedures, and technologies designed to prevent incidents, reduce risks, and ensure the effectiveness of operations. Collaboration among competent authorities, operators, and sector professionals is crucial to maintaining high safety standards, especially in the face of challenges such as adverse weather conditions, technical failures, or human error.

03

THE IMPORTANCE OF SAFETY IN TRANSPORT

Safety is a fundamental pillar in any transport system, whether land, maritime, or aeronautical. Its main function is to prevent accidents and incidents that could put human life, the environment, and the involved infrastructure at risk.

04

PRINCIPLES OF AERONAUTICAL AND MARITIME INVESTIGATION IN CABO VERDE

Decree-Law No. 6/2023, of January 23: Defines the principles of technical investigation of aeronautical accidents and incidents under the responsibility of the State of Cabo Verde, and approves the applicable regulation on communication and technical investigation.

Decree-Law No. 7/2023, of January 23: Establishes the principles governing the technical investigation of accidents and incidents in maritime transport, also under the responsibility of the Cape Verdean State.

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IPIAAM RECOMMENDS

Safety is a shared responsibility among operators, professionals, and the general public.



MESSAGE OF THE BOARD OF DIRECTORS

It is with great pleasure that we share another edition of our newsletter, a communication space that reflects our institution's commitment to safety and its continuous improvement in the aeronautical and maritime sectors.

This 4th edition of the IPIAAM newsletter covers the period from January 2023 to December 2024.

The safety of transport systems is an essential public good, requiring rigor, independence, and a continuous commitment to improving safety. Our actions are guided by principles of transparency, technical competence, and institutional cooperation, with the goal not only of determining the causes of accidents and incidents but also of identifying and promoting preventive measures to avoid their recurrence.

Each investigation represents an opportunity to strengthen collective knowledge, promote a safety culture, and consolidate citizens' trust in air and maritime operations. Our commitment is to transform the information obtained into concrete and effective

safety recommendations, capable of generating sustainable changes and value for society as a whole.

We would like to thank all the professionals, partner organisations, and entities who, with their dedication and commitment, make the fulfillment of this public service mission possible.

The Board of Directors



INSTITUTO DE PREVENÇÃO E INVESTIGAÇÃO
DE ACIDENTES AERONÁUTICOS E MARÍTIMOS

THE IMPORTANCE OF SAFETY IN TRANSPORT

Safety is a fundamental pillar in any transport system, whether land, maritime, or air. Its main function is to prevent accidents and incidents that could jeopardize human life, the environment, and the involved infrastructure. Without a systematic and rigorous approach to safety, transport systems become vulnerable to failures that can have severe consequences.

of rigor in this sector can lead to ecological disasters, human losses, and significant economic damages.



In the air sector, safety is ensured through highly standardized procedures, continuous training of professionals, and rigorous aircraft maintenance. Airlines are required to comply with international regulations aimed at ensuring that each flight operates within the highest safety standards. Any deviation from established procedures can compromise not only the passengers but also the control of airspace and the reputation of civil aviation.

Another important aspect is the continuous training of professionals involved in transport. Pilots, captains, maintenance technicians, and operators must be constantly updated on the best safety practices, current legislation, and risk management. A safety culture must be promoted across the board, from management to operational staff, encouraging communication, prevention, and shared responsibility.

In maritime transport, safety is equally vital, especially considering the size and complexity of the vessels and the routes they navigate. Navigation on the high seas requires a deep understanding of weather conditions, the maintenance of onboard systems, and adherence to international regulations, such as those imposed by the International Maritime Organization (IMO). A lack

Finally, it is important to highlight that safety is not an optional investment, but rather an ethical and legal obligation. In addition to protecting lives, it contributes to public trust, the reputation of companies, and the sustainable operation of transportation systems. In an increasingly interconnected world, where mobility is essential, ensuring safe transportation is key to guaranteeing the progress and stability of societies.

PRINCIPLES OF AERONAUTICAL AND MARITIME INVESTIGATION IN CABO VERDE



AERONAUTICAL ASPECT

The entry into force of Decree-Law No. 6/2023, of January 23 grants IPIAAM the authority to regulate the entire technical process for investigating serious aeronautical accidents and incidents, with the full awareness of the responsibilities assumed by Cabo Verde as a State Party to the Chicago Convention, adopted under the framework of the International Civil Aviation Organization (ICAO), and as a member of the Agency of the of the Accident Investigation

Agency of the Banjul Accord Group (BAGAIA), whose headquarters were established in Praia.

The aforementioned decree establishes the principles governing the technical investigation of aeronautical accidents and incidents – which fall under the responsibility of the Cape Verdean State – and also approves the Regulation that defines the communication and technical investigation framework to be applied.



MARITIME ASPECT

As a member of the IMO (International Maritime Organization), Cabo Verde has assumed international obligations regarding the investigation of maritime accidents and incidents occurring within its territory, as well as outside its area of responsibility, whenever vessels flying the Cape Verdean flag are involved. These investigations are conducted exclusively for the purpose of preventing future accidents and must be carried out in accordance with the procedures established in the Code of International Standards and Recommended Practices for a Safety Investigation of a Maritime Accident or Maritime Incident (CIC – Casualty Investigation Code), approved by IMO Resolution MSC.255 (84), adopted on May 16, 2008.

In this context, the procedures applicable to maritime accident investigations have been defined, particularly with regard to the allocation of responsibilities for the protection of the vessel and the accident site, as well as for the release of the vessel, its wreckage, or debris.

Thus, Decree-Law No. 7/2023, of January 23 establishes the fundamental principles governing the technical investigation of accidents and incidents in the maritime transport sector, under the responsibility of the Cape Verdean State. The decree also sets out rules aimed at strengthening maritime safety and preventing pollution caused by ships, contributing to the mitigation of the risk of maritime accidents and incidents in the future.



PROMOTION OF SAFETY

The promotion of safety, in both the aeronautical and maritime sectors, constitutes an essential imperative for ensuring the integrity, efficiency, and sustainability of activities carried out in both domains. In an increasingly interconnected global context, where transport, resource exploitation, and commercial operations play strategic roles, safety stands as a fundamental pillar for risk mitigation, the preservation of human life, and the protection of the environment.

During the course of 2023 and 2024, IPIAAM contributed to the promotion of safety through the conducting of various activities:



MARCH 2023 – MARITIME EMERGENCY EXERCISE

The Maritime Emergency Exercise (EMEX 23), conducted in partnership with ENACOL, ENAPOR, Vivo Energy, and IMP in Praia, aimed to provide training opportunities for coordinated action in the event of maritime incidents requiring the involvement of multiple stakeholders with specific and/or shared competencies.

EMEX 23 also sought to identify potential weaknesses in the joint performance of the various stakeholders in the field of maritime safety, as well as to propose measures intended to establish or enhance coordinated procedures among the competent institutions.



NOVEMBER 2023 – HOSTING OF THE CONFERENCE ON MARITIME SAFETY

The conference, organized in partnership with the Maritime and Port Institute (IMP), aimed to provide national, regional, and non-African institutions with a valuable opportunity to discuss key aspects of maritime safety in operations.

The specific objectives were to promote a cross-cutting debate on essential topics in Maritime safety in transport; contribute to the capacity-building of institutions with specific competencies in this area; raise awareness among all stakeholders about the importance of adopting best practices in operations as a method of preventing accidents and incidents; strengthen synergies between national and regional actors in the field of maritime safety; equip institutions for the prevention and investigation of accidents and incidents; and position national institutions as regional references in the field of maritime safety.

The participation of the invited institutions was highly active, resulting in a fruitful debate on cross-cutting aspects of maritime safety. Notable outcomes included the significant sharing of experiences among institutions, the identification of opportunities for bilateral institutional cooperation in maritime safety, the development of inter-regional cooperation partnerships, as well as the definition of effective policies for the prevention of maritime accidents and incidents. The conference also enabled the creation of an international network of contacts, facilitating the continuous exchange of experiences and the provision of targeted technical support in the event of serious accidents.

A total of 20 institutions participated in the conference, including 11 national institutions (Cabo Verde Shipyards – CABNAVE; Conchave/Vivo Energy; Cabo Verde Inter-islands – CVI; National Fuel and Lubricants Company – ENACOL/ENAMAR; National Port Administration Company – ENAPOR; Armed Forces of Cabo Verde/Coast Guard – FACV/GC; IMP; IPIAAM; Cabo Verde Tourism Institute – ITCV; Order of Lawyers of Cabo Verde – OACV; and Atlantic Technical University/Institute of Engineering and Marine Sciences – UTA/ISECMAR) and 9 international institutions (Agence Nationale des Affaires Maritimes – ANAM, Senegal; CAE Training and Services UK Ltd – United Kingdom; Directorate-General for Sea Policy – DGPM, Portugal; Maritime Accident Investigation Office – GAMA, Portugal; IMO – United Kingdom; National Institute for Transport Accident Investigation and Prevention – INIPAT, Angola; Marine Accident Investigators' International Forum – MAIIF, United Kingdom; and National Transportation Safety Board – NTSB, United States of America).



SEPTEMBER 2024 – WORK MEETING IN PORTO NOVO, SANTO ANTÃO

As part of the promotion of maritime safety and with a view to raising awareness on issues related to the prevention of maritime accidents and incidents, IPIAAM held a working meeting in Porto Novo with local representatives of institutions with responsibilities in the maritime sector. This was the first in a series of meetings that IPIAAM intends to organise on other islands of the archipelago.

Various entities were present, including the IMP, ENAPOR, the General Fisheries Inspectorate (IGP), the Coast Guard, ENACOL, the Maritime Police, the Agri-Fishing Association of Tarrafal of Monte Trigo, the Figueiras Community Association, and the National Civil Protection and Fire Service (SNPCB).

The agenda included: an institutional presentation about IPIAAM; an overview of Decree-Law No. 7/2023, of January 23; a presentation on the characteristics of Porto Novo Port; and a discussion on maritime safety.

During the meeting, several opportunities for improvement were identified, namely: the need for expansion and certification of the port; strengthening of the maritime authority; proper training of personnel handling hazardous cargo; enhanced surveillance; and a more proactive approach in raising awareness among fishing communities.

BROADENING OF THE PARTNER NETWORK



Following up on one of its strategic objectives – the establishment and expansion of the partner network – IPIAAM signed two cooperation agreements in 2023. On March 13, it signed a Memorandum of Understanding with the National Institute for Transport Accident Investigation and Prevention (INIPAT), its Angolan counterpart; and on May 23, it entered into an Institutional Cooperation Agreement with the Armed Forces of Cabo Verde (FACV).

These agreements aim to promote mutual cooperation through the exchange of experiences, provision of staff, technical assistance, collaboration on safety investigations, joint training activities, and other initiatives of common interest.

Within the scope of its institutional partnerships, IPIAAM participated in the 30th Meeting of the Marine Accident Investigators' International Forum (MAIIF 30), which took place in London, United Kingdom, in October 2023.



**Marine Accident
Investigators'
International Forum**

MAIIF is a non-profit international organization dedicated to advancing maritime safety and preventing marine pollution, through the exchange of ideas, experiences, and information gained from maritime accident investigations. Its goal is to promote and improve

maritime accident investigation, as well as foster cooperation and communication among investigators in this field.

As part of its program to strengthen institutional relationships with international organisations, with a focus on maritime accident investigations, IPIAAM received a visit from the Director-General of the Nigerian Safety Investigation Bureau (NSIB) on June 20, 2024, in Praia, Cabo Verde.



During the meeting, topics such as the functioning of the maritime sector, the establishment of investigator pools, as well as training processes and on-the-job training, were discussed.

PARTICIPATION IN TRADE FAIRS AND EVENTS



IPIAAM has a tradition of participating in the EXPOMAR fair, maintaining its presence in both 2023 and 2024. Additionally, IPIAAM regularly participates in the Cabo Verde Ocean Week (CVOW) event. In 2023, the Maritime Safety Conference, organized by IPIAAM in partnership with IMP, was included in the CVOW program.

Regulatory instrument for the behaviour of operators in terms of conduct and the process execution for the sustainability of activities in the maritime sector.

Code of Conduct for the Fishing Sector

As part of its responsibilities and with the aim of enhancing safety in the maritime sector, IPIAAM has decided to move forward with the development of the Code of Conduct for the Fisheries Sector

(CCFS). This code is a crucial instrument for the prevention of maritime accidents and incidents, and should, among other things, prioritise the safety of fishermen, minimise environmental risks, and ensure the sustainability of operations.



The conception of this project arose from an accident that occurred in February 2022, involving two fishing vessels, Djesone and Ponta de Peça, which resulted in a fatality. One of the safety recommendations, included in the final investigation report of the accident between the two fishing vessels, was addressed to all institutions with authority in the field of maritime

safety (Safety Recommendation No. 031-IAM/2022). This recommendation suggests the following: “To create, in close coordination among themselves and with the participation of APESC, a Code of Ethics for the Fisheries Sector, aimed at promoting good principles and practices among all operational stakeholders, with emphasis on issues of mutual respect, camaraderie, and effective contribution to the improvement of maritime safety in this sector.”

In June 2024, a contract was signed between IPIAAM and Maritime Training, Ship Surveying and Marine Casualty Investigation Consultancy (MTSSMCI CONSULTANCY), a Single-Member Limited Liability Company, for the development of the CCFS.

The CCFS aims to guide practices in the fishing sector by promoting responsible fishing, ensuring the safety of fishermen, and protecting marine resources. Adhering to these guidelines is crucial to ensuring the sustainability of fishing activities and the preservation of oceans for future generations.

The project for the development of the CCFS was funded by the Autonomous Fisheries Fund (FAP). Just like its development, the implementation of the CCFS will only be possible with the involvement and consultation of all stakeholders. This includes a wide range of Maritime sector participants, strategically engaged in the project, such as representatives from ministerial bodies, official entities, and relevant individuals and companies that contribute to the development of the fishing sector in Cabo Verde.

The reins of the project are transferred to the Ministry of the Sea, with the organisation of a workshop/ brainstorming session involving various stakeholders from the maritime and fishing ecosystem. The active participation of MTSSMCI Consultancy in presenting the Final Report and the Draft of the CCFS aims to gather inputs from different perspectives, comments, suggestions, and recommendations that add value to the proposed documents. This initiative stems from the need for in-depth considerations, grounded in specialised knowledge from competent entities, with the aim of enriching the documents with a technical perspective and ensuring the relevance and appropriateness of the inputs.

CAPACITY BUILDING

IPIAAM, as the national authority responsible for the prevention and investigation of aeronautical and maritime accidents, has among its duties the promotion of training, capacity building, and awareness-raising actions aimed at key stakeholders in the aeronautical and maritime sectors.

In this context, IPIAAM organised the following training sessions between 2023 and 2024:

July 2023 – Drone Piloting



The training on Drone Piloting provided an innovative approach to enhance the capabilities for investigating aeronautical and maritime incidents and accidents. Delivered by the company David Gomes|Photography, the training took place in Praia, from April 18 to 26, and in Mindelo, from July 21 to 26.

Through this training, participants gained the skills to safely pilot drones, with the aim of using specific techniques to collect data in aeronautical and maritime contexts.

March 2024 – Training on Human Factors



The training on Human Factors, recognised as a key element in people management and risk mitigation in the context of safety, was organised in partnership with the Autonomous Fund for the Development and Safety of Inter-island Maritime Transport (FADSTM) and delivered by CAE.

With a duration of 5 days, the training, initially scheduled for December 4 to 8, 2023, held its first session on December 4, with the remaining sessions taking place between March 11 and 14, 2024. The training consisted of 14 modules and was aimed at various participants from different entities within the maritime sector, many of whom are members of the Pool of Maritime Investigators (BIM).

CAE, a company with representation in the United Kingdom, has been at the forefront of Human Element-focused training for the maritime industry. It developed the world's first Bridge Resource Management (BRM) learning program and associated instructor training in the early 1990s (then known as SAS Flight Academy) and, more recently, programs on Maritime Crew Resource Management.

The aim of this action was to equip key stakeholders in the maritime sector with cross-cutting knowledge related to maritime safety, particularly regarding the understanding of factors associated with accidents

and incidents, as well as to raise awareness of the aspects inherent to the prevention of these events.

May 2024 – Training for Journalists on Aeronautical and Maritime Accidents and Incidents



The prevention and investigation of accidents are sensitive matters in both civil aviation and the maritime sector, due to various associated concerns, particularly regarding safety, technological complexity, strict regulations, legal responsibility, as well as the impact such events can have on both the aviation industry and the marine environment. Both areas require careful attention, guided by best practices, transparency, and cooperation among all parties involved.

In this context, IPIAAM organised a Training for Journalists on Aeronautical and Maritime Accidents and Incidents, serving as an important tool to ensure accurate, sensitive, and informative media coverage of these complex events.

The training lasted 2 days and was held in May at the IPIAAM headquarters in São Vicente. It was delivered in hybrid format by journalist Mário Caetano, from the Portuguese News Agency – LUSA.

Journalists from various media outlets participated in the training, including Rádio Televisão Cabo-verdiana (RTC), INFORPRESS, and Rádio Comercial.

October 2024 – Regional Workshop on the Casualty Investigation Code and Reporting



As part of its capacity-building efforts, IPIAAM participated in a regional workshop organised by the IMO, held from October 7 to 11, 2024, in Lagos, Nigeria, within the framework of its Integrated Technical Cooperation Programme.

The event focused on the Casualty Investigation Code and the preparation of corresponding reports, with the participation of representatives from various countries, including Cabo Verde, Sao Tome and Principe, Liberia, Sierra Leone, The Gambia and Equatorial Guinea, as well as several collaborators from the Nigerian Maritime Administration and Safety Agency (NIMASA).

The programme covered a wide range of topics, including legislation to maritime accident investigations, the Casualty Investigation Code, various types of investigation management, evidence collection, interview techniques, data analysis, human factors, and a case study on the *Makassar Highway* vessel, among others.



Statistical Analysis

During the years 2023 and 2024, within the maritime sector, IPIAAM received a total of 10 occurrence notifications – 8 related to 2023 and 2 to 2024.

Following the preliminary analysis of the available evidence, IPIAAM concluded that the initiation of formal investigation processes was not warranted in any of the reported cases.

The notifications generally come from various entities with responsibilities in the maritime sector, namely the maritime administration, port administration, shipping companies, shipowners, and the maritime police.



Year	No. of Investigated and Concluded Occurrences	
	Maritime	Aeronautical
2018	0	0
2019	3	0
2020	2	0
2021	4	2
2022	1	2
2023	0	1
2024	0	0

Most of the maritime occurrences investigated by IPIAAM resulted from groundings and collisions/allisions accidents. Of the 10 occurrences investigated, 6 were classified as accidents and 4 as incidents. There was one constructive total loss (accident involving the vessel *M/V Deimos*) and one fatality (collision between the fishing vessels *Djesone* and *Ponta d'Peça*).

As for the 4 aeronautical occurrences investigated, all were classified as incidents..

In the air sector, during the same period, 6 notifications were recorded – 5 relating to 2023 and 1 to 2024. These led to the opening of 1 investigation process, which has since been concluded. The notifications are generally submitted by the Civil Aviation Agency (AAC), airports, and operators.

2018 – 2024

Since its establishment in December 2018 until the end of 2024, IPIAAM initiated 10 maritime safety investigation processes, all of which were concluded and published on the Institute's website, as well as 4 aeronautical safety investigation processes, of which 4 have been concluded and made available in the same digital space.

Safety recommendations

The formulation of safety recommendations arises from the identification of causes and contributing factors during the investigations of accidents and incidents. Their purpose is to prevent the recurrence of accidents and incidents arising from the same causes and, more broadly, to contribute to the improvement of safety in aeronautical and maritime sectors.

Between 2018 and 2024, 10 maritime occurrence investigations and 4 aeronautical occurrence investigations were conducted and concluded, resulting in the issuance of 36 maritime safety recommendations and 7 aeronautical safety recommendations. All safety recommendations issued by IPIAAM are included in the final reports of those investigations.

IPIAAM RECOMMENDS

Safety is a shared responsibility among operators, professionals, and the general public. We share some key recommendations to protect lives and promote safer operations.



For Air and Maritime Operators:

- Promote a Safety Culture: Encourage open communication about errors and risks in an environment where information sharing is not unfairly penalised.
- Invest in Continuous Training: Technical updates, emergency simulations, and regular drills should be part of the organisation's routine.
- Maintain Equipment Rigorously: The maintenance of aircraft and vessels should follow the manuals, schedules, and procedures recommended by manufacturers and relevant authorities.
- Monitor and Anticipate Risks: Use safety management systems to identify hazards and implement effective preventive measures.

For Passengers and Users:

- Pay Attention to Safety Instructions: Information provided by the crew before departure is essential in case of an emergency.
- Always Follow Crew Instructions: Passenger cooperation is crucial to ensure the safety of everyone on board.
- Respect Rules and Restricted Areas: Do not carry prohibited items or interfere with operational procedures.
- Travel Responsibly: Notify in advance if you require special assistance, and avoid risky behaviour during the journey.



IPIAAM'S COMMITMENT IS TO PREVENT TODAY TO AVOID ACCIDENTS TOMORROW.

Each safe operation is a step forward in building
a safer environment in the aeronautical and maritime
sectors. Your attention and collaboration make
a difference.