

2024 WINNING PRACTICES CIP MARITIME AWARD OF THE AMERICAS

ANNIVERSARY EDITION

A DECADE OF RECOGNIZING OUTSTANDING PORT MANAGEMENT



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North American Marine Environment Protection Association
NAMEPA



SLOM
Sociedad Latinoamericana de
Operadores de Terminales
Marítimo Petroleros y Monoboyas



2024 MARITIME AWARD OF THE AMERICAS

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*A DECADE OF RECOGNIZING
OUTSTANDING PORT
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The 2024 Maritime Award of the Americas - Anniversary Edition - "A Decade of Recognizing Outstanding Port Management" is organized by the Secretariat of the Inter-American Committee on Ports (CIP) of the Organization of American States (OAS), in collaboration with the Latin American Society of Marine Oil Terminal Operators and Single-Buoy Mooring (SLOM), the North American Marine Environment Protection Association (NAMEPA), and other strategic OAS entities.

The Award recognizes successful practices in the maritime and port sectors of the Hemisphere that demonstrate excellence, innovation, leadership, sustainability, and replicability. In this edition, successful practices are recognized for their positive contributions to the modernization of the port sector in the Americas in the following categories: Technological Transformation, Cybersecurity in Ports and Terminals, Green Port Operations and Sustainable Management, Empowerment and Equality, and Port Security and Risk Management.

MESSAGE FROM THE SECRETARIAT



Jorge Durán
Chief of the Secretariat
Inter-American Committee on Ports

The 10th edition of the CIP-OAS Maritime Award of the Americas was designed to recognize successful practices carried out by public or private institutions that promote the integral development of the port and maritime sector in the region. In this regard, we extend our most sincere congratulations to the winners of the Maritime Award of the Americas 2024.



Mona Swoboda
Program Manager
Inter-American Committee on Ports

The strategies that promote integral port management, including the use of new technologies, cyber security, sustainable port management, and empowerment and equality, among other aspects, are fundamental to the modernization and competitiveness of the maritime and port sector. It is an honor to congratulate our 2024 Maritime Award of the Americas Anniversary Edition winners for their invaluable contributions to the port and maritime sector in the Americas.

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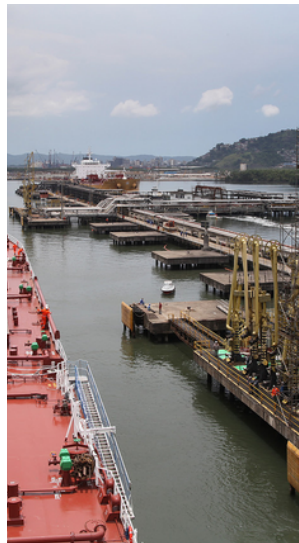


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PORT SECURITY AND RISK MANAGEMENT

Technological Transformation

Petrobras Transporte S.A. - Transpetro, Brazil



For successful practices that are technology driven and bolster secure, transparent, and competitive operations, as well as promote time and resource optimization, among other benefits.

Technological Transformation

The oil transportation industry and its derivatives are vital but also potentially risky. The need for effective preparation and training for emergency response teams is undeniable. In addition, maritime terminals, where critical loading and unloading operations take place, are exposed to a series of environmental and security risks that require a rapid and coordinated response in case of emergency. However, traditional training at sea presents significant challenges, from unpredictable weather conditions to legal restrictions on simulating oil spills in the water.

In response to these limitations, Transpetro, Brazil, has implemented an innovative solution that utilizes maritime simulators to enhance the training of its emergency response teams. This approach allows for realistic reproduction of port scenarios where they operate, providing a controlled yet immersive environment where teams can practice and refine their skills without being subject to the restrictions of weather or legal regulations.



Training on oil recovery boats.



Training on oil containment and recovery.

Its engine lies in the development of proprietary source code that allows customization of any training and simulation related to maritime activities, ensuring not only the adaptability of the program to Transpetro's specific needs but also marking a significant milestone in the field of training for the maritime industry in Brazil. Furthermore, collaboration with Technomar Engenharia and other institutions has further enriched the development and implementation of this initiative, strengthening alliances within the sector and beyond.

From a sustainability perspective, the use of simulators offers a range of additional benefits, reducing the risk of accidents by reproducing adverse conditions in a controlled environment, as well as resulting in lower operating costs compared to real exercises.

Additionally, eliminating the need to spend on fuel for boats and physical scenario preparation not only reduces financial costs but also contributes to the conservation of natural resources and the reduction of the environmental footprint of training operations.

Another fundamental aspect of the program is its focus on awareness-raising and capacity development, because, by providing accessible training environment throughout the year, Transpetro ensures that all its personnel are properly trained and prepared to act in case of emergency. Furthermore, the exchange of experiences during training fosters a collaborative learning environment where teams can share knowledge and best practices, further enriching their preparedness and skills.

In terms of gender equality and diversity, Transpetro's commitment is reflected in the composition of its emergency response teams, fostering an inclusive environment where gender, ethnicity, background, and experience diversity is valued and respected, making the teams stronger and more effective due to the range of perspectives and skills.

Although they have not yet faced real situations since the program's implementation, preliminary results and reaction evaluations show a high level of satisfaction and recognition from participants. This suggests that Transpetro's maritime simulators are fulfilling their goal of enhancing the preparedness and response capability of emergency teams, setting new standards of excellence in the Brazilian maritime industry.

Simulators Center

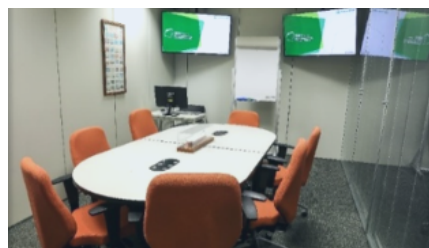
Part Task 1



Part Task 2



Debriefing Room



Full Mission



Engine Room

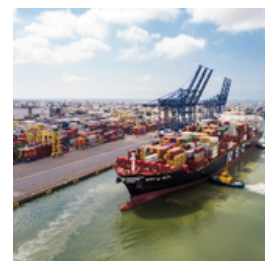




Cybersecurity in Ports and Terminals



Portonave S.A. Terminais Portuários de Navegantes, Brazil



For successful practices that enhance cybersecurity capacities and facilitate the detection, response, recovery, and general protection against cyberattacks.

Cybersecurity in Ports and Terminals



Portonave, Brazil's first port terminal, distributes production from the South, Southeast, and Midwest regions of Brazil, as well as from other countries in South America, receiving cargo from around the world. Currently, its total area is 400,000 square meters, divided into three docking berths, with a static storage capacity of 30,000 TEUs. Due to its size, the implementation of technology has played a fundamental role in port management, allowing for greater efficiency, security, and sustainability, and contributing to economic growth and international trade. However, its use entails a series of risks, prompting authorities to implement structured cybersecurity measures that connect people, processes, and technologies.

Thus, the Information Security Management System project emerged,

in which, through a series of steps, information security is managed properly and aligned with the organization's objectives and strategy. Its implementation seeks to structure a security management system based on the best global practices, guaranteeing the confidentiality, integrity, and availability of IT resources, and promote the maturity of Portonave's stakeholders in terms of cybersecurity.

Its relevance lies in the fact that, in most ports, activities related to information security are carried out by IT infrastructure professionals, putting the availability, confidentiality, and integrity of port technological resources at risk, making companies susceptible to cyberattacks. In response to this, since 2018, Portonave, along with its shareholder TIL, decided to develop a cybersecurity investment plan focused on raising awareness among individuals and implementing the most modern security resources available in the market.



The proposal involves the formation of a specialized cybersecurity team tasked with providing necessary attention to the subject, prioritizing important port activities and projects; the creation of a Corporate Minimum Requirements Policy with the shareholder that determined a series of specific cybersecurity issues to counteract; and the designation of the corporate mascot "Capivarildo" as a cyber guardian. Additionally, the 'HackerRangers' awareness program was implemented in 2020 with the aim of sensitizing the team through weekly training on cybersecurity-related topics in situations linked to Portonave's operation. This program allowed for the definition of action plans to review processes, implement solutions, and train all those involved.

The practice ensured significant progress in the implementation of projects and tools, raising Portonave's cyber maturity to the highest standards, providing positive quantifiable indicators regarding the participation in cyber training and phishing campaigns conducted, and their success rate. Additionally, the practice included inclusive strategic actions, such as training underprivileged youth in the cyber market. All of this ensured the effective and secure development of critical projects that needed to be implemented, such as the upgrade of the main network switches, full implementation of the SOC and Global SIEM, PAM, Microsoft E5, and the internal network segmentation firewall (OT/IT).

In conclusion, the implementation of the Information Security Management System at Portonave represented a significant step towards protecting its technological resources and mitigating cyber risks. The practice not only strengthened the company's security but also promoted awareness and capacity development within the team, contributing to the long-term growth and sustainability of the organization.



Corporate mascot "Capivarildo" as cybernetic guardian.



Green Port Operations and Sustainable Management



Compañía de Puertos Asociados S.A. - COMPAS, Colombia



For successful practices in sustainable port management that help reduce harmful environmental impacts and transform operations in an environmentally friendly manner.

Green Port Operations and Sustainable Management

Given the fact that water is a crucial natural resource, but it is critically endangered, COMPAS has implemented a practice that helps maximize water use efficiency in the Colombian port sector, reducing reliance on surface water sources, and minimizing costs; taking advantage of the fact that the organization operates terminals in locations with high rainfall, allowing for rainwater harvesting. This resulted in the development of diverse methods: in Barranquilla, a wastewater treatment system recycles water for washing vehicles, reducing environmental impact, achieving the recirculation of 1,440 m³ annually; while in Cascajal and Aguadulce rainwater is stored in tanks for various operations, mitigating reliance on conventional water sources, capturing 2,449 m³ and 16,951 m³ of water respectively in 2023.

Through this project, COMPAS aims to incorporate circular economy processes, reduce water demand pressure, utilize



Rainwater fire fighting network storage tank 397 M³.



Drinking water treatment plant and treated water tank, 13 m³ plant, and 2 tanks of 5m³.

unconventional water sources, and raise awareness about responsible water usage. This is all conceived thanks to its innovative characteristics, which include rainwater harvesting, wastewater reuse, and water recirculation, tapping into non-traditional water resources for operational needs.

Thus, the project's relevance relies on different aspects, such as its profitability and how it aligns with Sustainable Development Goals (SDGs), through the utilization of local resources, ensuring economic viability and environmental conservation. In addition, there is a significant female workforce in environmental management roles, promoting inclusivity and diversity within the organization.

The results provided by the organization also help highlight the significance of what

has been achieved, primarily reflected on the cost savings that resulted from reducing the reliance on conventional water sources and increasing the use of rainwater for various operations, demonstrating tangible benefits in terms of cost savings and environmental conservation. For example, in Cascajal savings have been of \$431,196 COP per month, while in Barranquilla, the savings in 2023 equaled \$437,462,520 COP. Moreover, all water used for operations and domestic purposes in Aguadulce comes from rainwater, making the savings from water purchases \$854,000,000 COP.

In summary, the water management strategies implemented by COMPAS across its terminals, including rainwater harvesting and wastewater recirculation have successfully reduced reliance on conventional water sources, enhancing sustainability, and raising awareness about responsible water usage. These initiatives have resulted in significant cost savings, increased water capture, and storage capacities, aligning with environmental sustainability goals and promoting gender equality within the organization.



Dumpers with rainwater sprinkler system.

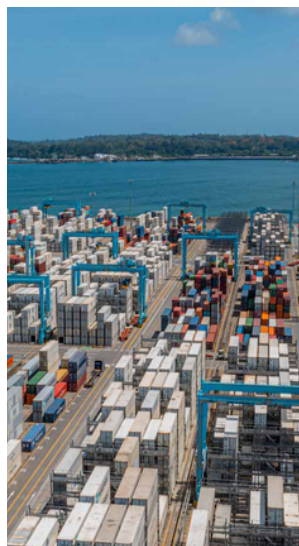


Side view of treatment plant, flocculation, filtration.



Women Empowerment and Equality

APM Terminals Moín, Limón, Costa Rica



For successful practices that promote the participation and visibility of women through the formulation and implementation of strategic actions and/or policies of inclusion, diversity, and equality.

Women Empowerment and Equality



The Hatching Program, implemented for the past two years since March 2022, embodies the concept of birth and growth (thus the chosen name), aiming to push entrepreneurs out of their comfort zones and provide them with the tools needed to succeed. It emphasizes personal and professional development for employees and their families, recognizing their importance within the community of Limón, a province rich in talent and potential.

The practice consists of the implementation of workshops for the community, focused on essential topics such as business plan development, financial management, and marketing communication. Based on their learning, the participants present their business strategies to a jury for the chance to win seed capital, while a concurrent fair allows them to showcase and sell their products.

Its relevance comes down to the adaptability it offers to participants' profiles, spanning from operational to administrative staff and catering to a wide range of entrepreneurial ventures. Each participant receives individualized mentorship to guide them through their journey, ensuring they have a greater chance at succeeding.

Impact metrics reveal that the program has reached 32 individuals, with a notable 72% representation of women. Sixteen entrepreneurial ventures have emerged, offering diverse products and services. The seed capital awards of \$3000, \$2000, and \$1000 for first, second, and third place respectively, incentivizing participation and growth. The investment of \$36,000 covers professional training and seed capital, benefiting approximately 5.43% of employees and their families.



Each participant in the program was awarded the Made in Limón Seal.

APM Terminals developed this practice seeking to reach the objectives of encouraging training and achieving gender equality promotion and economic development through entrepreneurship. It has also been proven highly innovative and creative because of the use of a "shark tank" style presentation of financial plans, as well as its use of training sessions and entrepreneurship fairs to support venture development. Moreover, the program fosters knowledge exchange and capacity building through practical application, encouraging collaboration and enrichment of projects, for example, by establishing partnerships with Lumi Consulting and Coopeande to enhance its effectiveness and reach.

Open to all employees of APM Terminals, the program encourages diversity in entrepreneurship across various sectors, promoting teamwork and individual efforts alike. Currently, 16 ventures are active in the market, contributing to the Limón community and generating income for their families. In summary, the Hatching Program is a comprehensive initiative that not only supports entrepreneurial endeavors but also fosters personal and professional growth, benefiting both participants and their communities.



Final presentation to the jury panel.



Port Security and Risk Management

Kingston Wharves Limited, Jamaica



For successful practices that demonstrate excellence and efficiency in mitigating physical threats and managing risks in an integral manner to promote business continuity.

Port Security and Risk Management



The proposal to implement the Security Enhancement Plan at Kingston Wharves Limited (KWL) arose from the vulnerability of Jamaica's ports to drug trafficking and smuggling, due to the country's geographic location in a strategic position in the Caribbean, with close proximity to global markets. In response, various operators have found the need to implement security measures to protect the facilities and the country. Because of this KWL decided to hire specialists to assess and improve security. As a result, the Security Enhancement Plan (SEP) was created six years ago, leading to the implementation of an Integrated Electronic Security Management System (IESMS), the involvement in various international security programs, and the certification of the institution according to the ISPS Code.

Since 2020, the IESMS has been developed in three phases, strengthening security in various areas through the expansion of the CCTV network and aiming to achieve the risk management objectives, closing vulnerability gaps, and improving productivity and efficiency as outlined by KWL. Also, its effectiveness was ensured through implementing a rigorous training program through drills, awareness sessions, and publications for employees.

KWL's proposal is characterized by its innovation through the use of advanced technologies such as thermal cameras, license plate recognition, and drones; the implementation of security monitors for the Command and Control Center, and the integration of security management systems for greater effectiveness.



Access control system: ilock Iris.

Sustainability was also ensured through the formulation of policies and procedures with annual budget allocation for maintenance and updates, while gender equality was promoted by assigning a high percentage of women to security and leadership roles.

All of this, combined with close collaboration with international partners to conduct specialized training, as well as the establishment of public partnerships with the Port Authority of Jamaica, the Jamaica Customs Agency, the United States Coast Guard, and the Jamaica Constabulary Force, ensured the effective implementation of the program. This can be observed as KWL has seen an increase in policy and procedure compliance and has achieved greater detection of security breaches, a reduction in security incidents, and an increase in the rate of closure of security investigations.

As a result, KWL has successfully implemented a practice with the capacity to ensure port security, based on the inherent challenges of the country but leveraging the institution's alliances and capabilities, utilizing technological innovation while addressing social and environmental needs, making the Security Plan not only effective but also holistic and replicable.



This publication has been prepared by the Secretariat of the Inter-American Committee on Ports of the OAS based on the information received in the call for applications for the Award.

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