WINNING PRACTICES
Maritime Award of the Americas
2023

"Integral Management for Port Sector Modernization in the Americas"

OAS More rights for more people

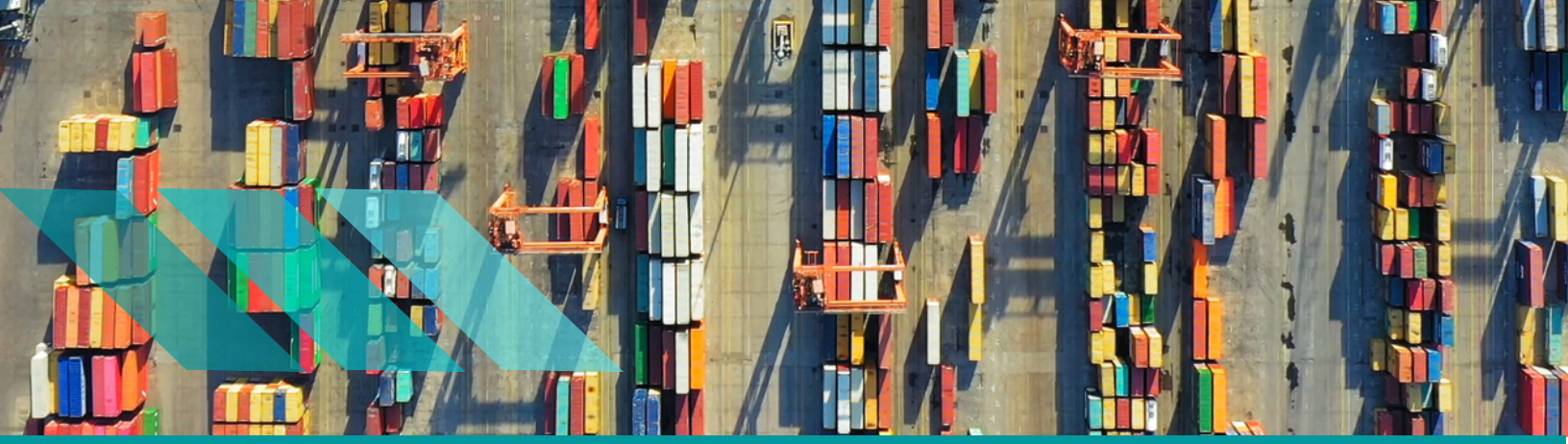
CIP Inter-American Committee on Ports

OAS CIM

North American Marine Environment Protection Association NAMEPA

SLOM Sociedad Latinoamericana de Operadores de Terminales Marítimo Petroleros y Monoboyas

DEPARTMENT OF SUSTAINABLE DEVELOPMENT

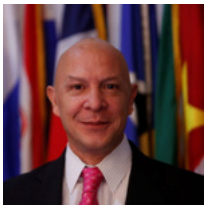


2023 Maritime Award of the Americas
9TH EDITION

The 2023 Maritime Award of the Americas is organized by the S/CIP, 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: Competitive Digitalization, Cybersecurity in Ports and/or Terminals, Green Port Operations and Sustainable Management, Empowerment and Equality and Outstanding Woman in the Maritime and Port Sectors 2023.

MESSAGE FROM THE SECRETARIAT



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

The 9th 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 modernization of the port and maritime sector in the region. Additionally, the CIP awards the Outstanding Women in the Port and Maritime Sector 2023, now in its 7th edition, with the sole purpose of recognizing the exceptional trajectory of women in the port sector. In this regard, we extend our most sincere congratulations to the winners of the Maritime Award of the Americas 2023.

Mona Swoboda
Program Manager
Inter-American Committee on Ports

The strategies that promote integral port management, including competitive digitalization, cyber security, sustainable port management, and empowerment and equality, among other aspects, are fundamental to the modernization of the maritime and port sector. In the same way, recognizing and making visible the fundamental role played by women in port development contributes significantly to the efficiency of the industry. Having received a record number of entries in this edition of the Award, it is an honor to congratulate our 2023 Maritime Award of the Americas winners for their invaluable contributions to the port and maritime sector in the Americas.

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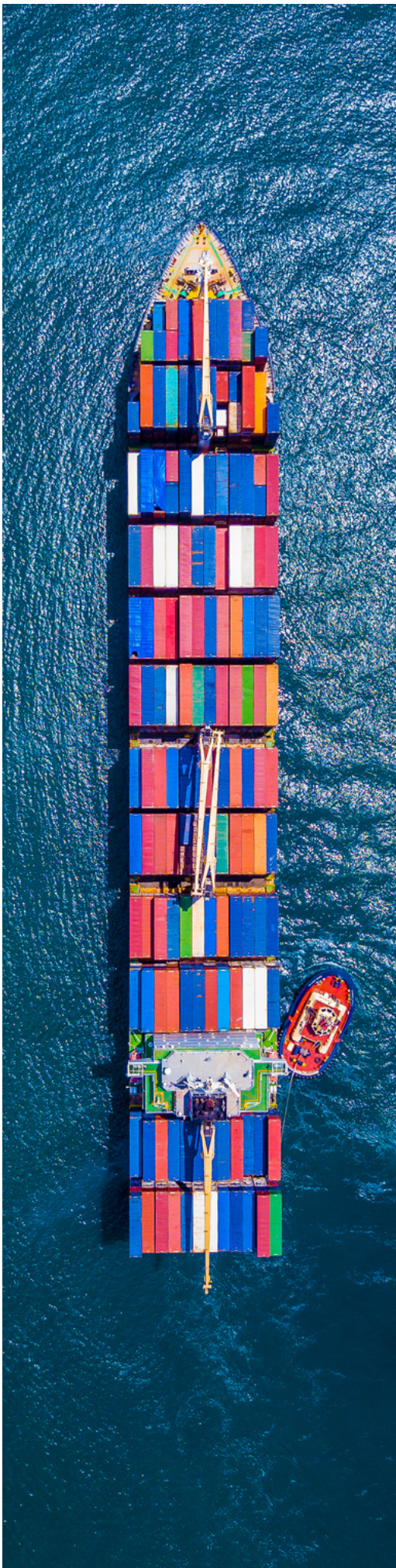

COMPETITIVE DIGITALIZATION

TC TRANSPORTADORA CALLAO

TRANSPORTADORA CALLAO S.A.

PERU

Transportadora Callao Sociedad Anónima (TCSA), optimized the flow of operational processes in the terminal, through the design, development and implementation of TCSA's Terminal Operation System (TOS), called Integrated Operations and GIS System (SIOPS).

Prior to the creation and implementation of SIOPS, the management of results and the verification of controls in field supervision consisted of: physical recording - digital processing - communication and a follow-up, reviews and the approval of the required documentation through e-mails, repeating this cycle as many times as necessary.

This resulted in longer execution times, poor accessibility of physical and digital information, difficult traceability, a 15-day delay in receiving the analyzed data and, consequently, a delay in the port operations.

Considering that the management system was predominantly oriented to supervise outsourced activities, the step for digitalization was the migration to the virtual modality of the operational controls of the processes executed by third parties and TCSA's supervision tools.

"SIOPS ALLOWS US TO CONTROL AND STANDARDIZE ALL OUR SECURITY, QUALITY, ENVIRONMENTAL AND PROTECTION OPERATIONS".

The virtual modality allows for real-time information on authorization management, access to activity documents, evidence of the execution of controls and statistics, through which monitoring, control and decision making is carried out, with this system providing important evidence of legal compliance.

Regarding innovation, to create SIOPS, operational modules were designed and developed for the registration of ships, integrating the functional requirements of the processes from planning, execution, control, correction and/or improvement, predetermining flows of communication between the parties involved, including specific alerts.

There was a 40% improvement in review and approval times of documentation sent by contractors. In less than 1 minute, both the customer service requests and delivery of information to authorities are processed, which used to take about a week. With SIOPS, there is strengthened personnel control that triangulates entry clearances, documentations and registrations.

As a positive externality, SIOPS helps create a more inclusive and fair organizational culture for everyone. As a digital tool programmed around job profiles, it allows the creation of users without discriminating between gender identity, age, religion, ethnicity, or disability. In terms of sustainability, SIOPS ensures regulatory compliance, setting environmental and occupational health and safety requirements for ships, third-party companies and workers.

CYBERSECURITY IN PORTS AND/OR TERMINALS

BARBADOS PORT INC.

HudsonAnalytix
Complexity Made Simple™

BARBADOS PORT INC. & HUDSONANALYTIX

BARBADOS & UNITED STATES

At the Port of Barbados, there was a lack of guidance and inconsistency in cybersecurity and cyber risk management because many internal processes did not exist or were not formalized with supporting documentation (written policies and procedures). For example, resources, spending and coordination of the cybersecurity program were fragmented. In addition, management of vendor agreements was de-centralized, with no formalized review/oversight process or contractual clauses defining cyber breach notification requirements.

The success of several cyber-attacks, particularly those perpetrated through social engineering, accentuated the need for increased cyber-security awareness and capacity.

The Port of Barbados' three weakest areas in terms of its cyber security capabilities were its tools, processes and human factors.

Barbados Port Inc. decided to implement the PortLogix tool, offered by the company HudsonAnalytix. The PortLogix tool is a cybersecurity portal that helps port members monitor and assess cybersecurity capabilities, discover gaps, identify solutions and evaluate the maturity of their cybersecurity capabilities.

PortLogix users have used the programme to inform where they can most efficiently allocate resources and assess progress in their cybersecurity capabilities over time. The system provides critical information to executives to inform decision-making regarding the efficiency of people, processes and tools that underpin risk management efforts.

The application has twelve functional domains, which are tailored to the port industry:

- Cyber Risk Management,
- Governance, Personnel and Training,
- Change management
- Situational awareness
- Information sharing
- Threat and vulnerability management
- Business and supply chain
- Information and communication technologies
- Incident response and business continuity
- Physical Security and Cybersecurity Program Management

PortLogix is capable of implementing a cyber security programme in as little as one day, and includes vendor-independent recommendations to inform users on how best to prioritise the application of resources.

In addition, PortLogix promotes organization-wide and Port Community System (PCS) engagement, fostering greater cyber awareness and an organisational/community culture that embraces cybersecurity as everyone's responsibility.

Barbados Port Inc. has significantly increased investment in its cyber security tools and has also implemented formalized processes relating to cyber risk management and improved cyber security awareness and culture throughout the organization. There is now greater awareness of potential cyber threats, and employees in all departments recognize that cyber security is also their responsibility. Prior to implementation, cyber threats or suspicious activities were rarely reported, but now there are multiple reports (phishing and other suspicious emails, unknown persons in port facilities, etc.) every day from a wide cross-section of users across the port.

"THE PURPOSE OF PORTLOGIX IS TO INSTITUTIONALIZE THE ADOPTION OF CYBERSECURITY CAPABILITIES AND BEST PRACTICES THROUGHOUT THE ORGANIZATION."

GREEN PORT OPERATIONS AND SUSTAINABLE MANAGEMENT

MARINA
SECRETARÍA DE MARINA

CGPMM
COORDINACIÓN GENERAL
DE PUERTOS Y MARINA MERCANTE

ENSENADA
ADMINISTRACIÓN DEL SISTEMA PORTUARIO NACIONAL
MARINA

ADMINISTRACIÓN DEL SISTEMA PORTUARIO NACIONAL ENSENADA

MEXICO

In view of the constant economic growth and the increase in the demand for logistics services, the Administration of the National Port System of Ensenada (ASIPONA Ensenada) designed strategic objectives to meet the needs of greater capacity with necessary environmental protection standards. Thus, ASIPONA Ensenada consolidates itself as the first Green Port in Mexico, through the design and implementation of environmental management strategies. The port has been certified under the Ecoports standard of the European Sea Ports Organization (ESPO).

Within the Port of Ensenada is the Port of Costa Azul, currently home to Energía Costa Azul (ECA), a Liquefied Natural Gas storage and regasification terminal. The Port of Costa Azul had the vision to establish an energy center for the development of infrastructure to ensure the secure and efficient supply of energy to the region.

The ECA implemented strategies through the execution of conservation activities, becoming the only terminal in the Mexican Pacific to propose and adopt measures for self-sustainability.

"THE PORT OF ENSENADA CONTINUES TO DEVELOP IN A CONTEXT OF SUSTAINABILITY, BEING AN EXAMPLE OF HOW ENVIRONMENTAL CONSERVATION AS A PILLAR OF DEVELOPMENT FAVORS THE GROWTH AND SOLIDITY OF THE PORTS."

To this end, it developed the Environmental Quality Monitoring Program (Programa de Seguimiento de Calidad Ambiental, PSCA), which has 11 conservation and environmental management sub-programs. Among them, the following can be mentioned:

A. The marine mammal monitoring sub-program: To date, there has been a 0% marine mammal accident rate due to the monitoring systems in place since the start of the program. For marine rehabilitation, 286,608 red urchins and 616,000 purple urchins were rescued and relocated to safe sites. The aforementioned monitoring system installed at the terminal keeps count of the different species of marine mammals sighted to study their migratory patterns, as any changes may indicate an increase or decrease in the environmental health of ASIPONA Ensenada's operations. So far 53,256 species have been counted as frequent transients, of which 95% are dolphins and 5% various whale species.

B. Sub-program for the rescue and rehabilitation of endemic flora: At the beginning of the rescue of native flora, only about 4,800 individuals were rescued. Today, more than 59,000 individuals have been successfully conserved and reintroduced into the wild, with a survival rate of 92%. This represents an increase of more than 1,229% since the development of this sub-program.

C. Water Quality Monitoring: The ECA also developed Seawater Quality Monitoring Technologies in response to the need to create historical records of Water Quality Indexes in the area to correlate the variation from the baseline levels established prior to the establishment of the project. 10 years after the start of the activities, the sea water's quality improved by 5%.

EMPOWERMENT AND EQUALITY

PORTONAVE

PORTONAVE S/A - TERMINAIS PORTUÁRIOS DE NAVEGANTES

BRAZIL

Located in Navegantes - SC, Portonave is the first private container terminal in Brazil and receives cargo from all over the world. Today the port has a total surface area of 400,000 m² and has a storage capacity of 30,000 TEU, a unit of measurement equivalent to a 20-foot container.

Portonave's maternity leave statistics reflected the national trend of women in Brazil not returning to work or resigning within a year. The company noted that readjustment problems influenced new mothers' decisions to leave.

Given that 17% of PORTONAVE's workforce is female, post-maternity resignations significantly affected the gender balance within the company.

Portonave decided to create The Maternity Support Program, which is an internal program operating in the wider context of a government tax initiative: Portonave's female employees enjoy 6 months maternity leave with the option to extend this to 7 months, including annual leave.

The national legal requirement is 4 months, which makes the program innovative in the region.

"THE PROGRAMME PROMOTES BETTER APPROACH BETWEEN THE NEW MOTHER, MANAGER AND COMPANY, MAKING BOTH PARTICIPATE MORE ACTIVELY IN THIS MOMENT. "

Participation in the program covers from the beginning of pregnancy until one year after delivery. Expectant mothers have the opportunity to discuss work expectations prior to returning, and receive information on how to reconcile motherhood with work, while also receiving support in a community setting for their return to the company after maternity leave.

The program has shown a clear upward trajectory over the years after implementation. To prevent readjustment difficulties, a formal dialogue between the employee, manager and a Human Resources psychologist are held on a monthly basis. These meetings serve as a basis for awareness-raising that facilitates the company's ability to meet the new mothers' needs during this period.

Since the program has been in place, it has proven effective in increasing employee retention after childbirth: In 2018, 62.5% of female employees chose to leave the company within one year of giving birth. In 2021 and 2022, 100% of female employees remained with the company beyond one year after giving birth.

Finally, since 2021, women on maternity leave have not only returned to work, but 100% of them have remained in the company for more than one year. When compared to the figures prior to 2019, a positive correlation between the program and the number of women who remain in the company after having children can be clearly identified. Women members of the Portonave team have testified to how important this resource has been for them at such a sensitive and critical time in their lives.

HONORABLE MENTION

RIGHTSHIP
UNITED STATES

RIGHTSHIP

RightShip is a company that provides the world's most comprehensive online environmental and marine risk management system.

The shipping sector is responsible for around 2-3% of global carbon emissions. Despite the industry's decarbonisation efforts, CO2 emissions from the global shipping fleet are still heading in the wrong direction.

Rightship believes that ports and terminals can be catalysts for change to help the sector move in the right direction. Whereas the main air pollutants generated by port activities not only damage the environment, they can also have harmful effects on health.

RightShip created the Maritime Emissions Portal (MEP), the first of its kind, as an innovative heat mapping and zoning technology, which provides a clear analysis of the port's environmental profile over any period of time. This allows the port to identify problem areas, seize opportunities to reduce environmental impact and make timely and practical decisions in managing air emissions and communicate with local communities, regulators or port tenants to influence their sustainable practices.

The Maritime Emissions Portal incorporates AIS data to determine the movements of each vessel in and around the area, allowing both GHG and pollutant emissions to be estimated. The PEM, as a product offered by RightShip, can be adopted by any port that decides to improve its environmental management in a cost-effective manner, as no teams of professionals are required to measure environmental impacts.

The PEM offers the port sector the opportunity to compare ship emissions with other local emission sources. In addition, it gauges incremental improvements in the quality of emissions that are likely to occur as a result of changes in the industry.

A significant success story from RightShip's use of PEM is in the Port Prince Rupert's "Greenwave" project, which offers rebates to the most environmentally efficient vessels. As a result, approximately 3,190 tonnes of GHG emissions were avoided, which is equivalent to taking 677 passenger vehicles off the road for one year.

Image rights correspond to the winning institutions.

This publication has been prepared by the Secretariat of the Inter-American Committee on Ports of the OAS.

CIP Secretariat
Jorge Duran, Chief of the CIP Secretariat
Mona Swoboda, Program Manager
Montserrat Ambriz, Program Coordinator
Sabina Malnis, Projects Manager
Mónica Blanco, Projects Manager

Editor
Secretariat of the Inter-American Committee on Ports

Assistant Editor
Lya Ayarza