



# **Guide for Environmental Certification and for the Preparation of Sustainability Reports for Ports of the Americas**

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# AGENDA



- 1. Critical Elements of Environmental Management of Ports**
- 2. Catalogue of Green Port Management Best Practices**
- 3. Internationally recognized environmental standards and certifications**
- 4. Commercial, Social and Environmental Benefits and Advantages of Being a Green or Ecological Port**
- 5. Successful experiences of latin american ports with internationally recognized environmental certifications**

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- 6. Sustainability internationally standards, reporting guidelines**
- 7. Commercial, social and environmental benefits and advantages to a port with sustainability reporting**
- 8. Successful experiences of sustainability reporting in Latin American Ports**

# **CRITICAL ELEMENTS OF ENVIRONMENTAL MANAGEMENT OF PORTSC**



# CRITICAL ELEMENTS OF ENVIRONMENTAL MANAGEMENT OF PORTS

## ENVIRONMENTAL POLICY

Public document emanating from senior management => commitment to achieve proper environmental management and promotion of sustainable development

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Documented description in which the actions for the achievement and fulfillment of environmental objectives and goals are detailed, responsible parties are defined and the economic and technical resources are established for their achievement.

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## IMPLEMENTATION OF AN ENVIRONMENTAL MANAGEMENT SYSTEM

Structured system for continuous improvement: planning, implementing or doing, reviewing or verifying and action or performance, ensuring compliance with its environmental objectives.

# CRITICAL ELEMENTS OF ENVIRONMENTAL MANAGEMENT OF PORTS

Identification of  
Environmental Aspects

**SIGNIFICANT**

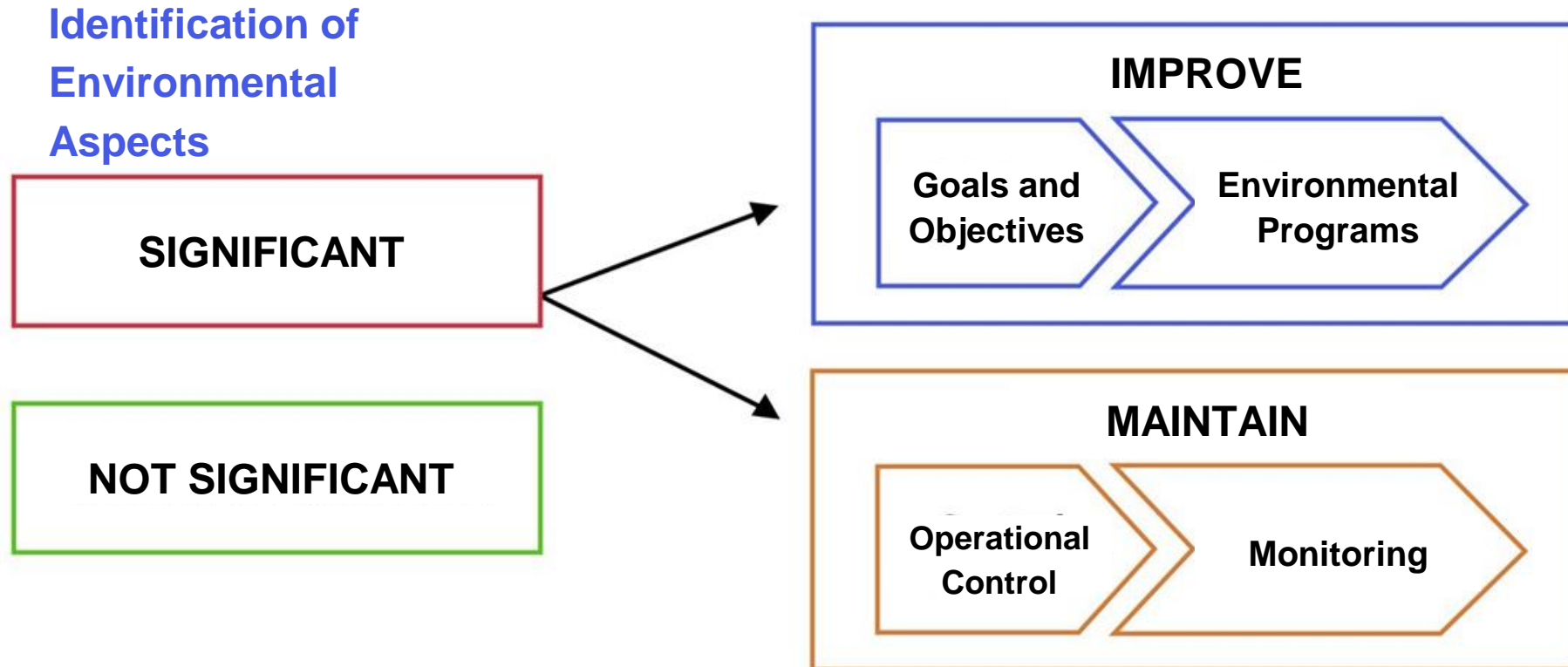
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## Identification of Environmental Aspects

**SIGNIFICANT**

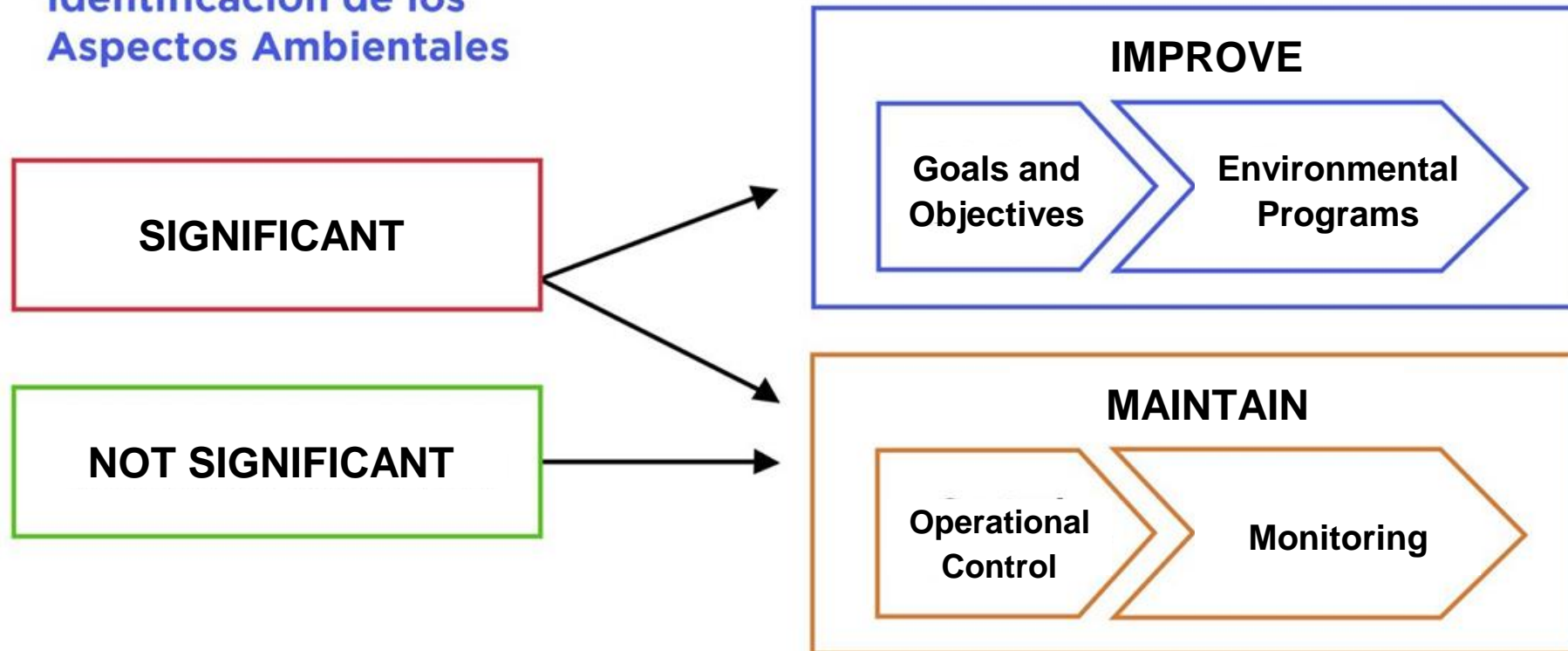
**NOT SIGNIFICANT**

# CRITICAL ELEMENTS OF ENVIRONMENTAL MANAGEMENT OF PORTS



# CRITICAL ELEMENTS OF ENVIRONMENTAL MANAGEMENT OF PORTS

Identificación de los  
Aspectos Ambientales





CURRENTLY, THERE ARE METHODOLOGIES FOR IMPLEMENTING AN EMS.

REQUIREMENTS	ISO 14.001:2015	EMAS III	ECOPORT PERS
Application	For all types of organizations.	For all types of organizations.	Specific for port terminals.
Initial Environmental Evaluation/Revision	Recommended, if you do not have an EMS.	Required, if you do not have an EMS.	Mandatory, called SDM (Self Diagnosis Method).
Audit Cycle	There is no established periodicity.	At least every 3 years.	At least every 3 years.

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Scope of the Audit	The Environmental Management System (EMS).	In addition to the EMS, the policy, the program and compliance with applicable legislation.	In addition to the EMS, the policy, the program and compliance with applicable legislation, to environmental reports and best practices.
Policy	Not a requirement.	It is a requirement and must be public.	It is a requirement and must be public.

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<b>Policy</b>	Not a requirement.	It is a requirement and must be public.	It is a requirement and must be public.
<b>Validity</b>	It is ideal that it be accredited by an external auditor.	Must be accredited by an external auditor.	Must be accredited by an external auditor, hired by EcoSLC.
<b>Registration</b>	Not necessary.	Registration required.	Registration required.

# CATALOGUE OF GREEN PORT MANAGEMENT BEST PRACTICES

# SPECIFIC ANALYSIS OF THE ENVIRONMENTAL IMPACTS RELATED TO PORT ACTIVITY<sup>1</sup>

COMPONENT	IMPACT	DESCRIPTION
LANDSCAPE	Aesthetic and recreational impact on the beaches	Impact on beauty and recreational perception of beaches.
	Landscape and visual alteration	Structural or functional impact on landscape, which causes a decrease in its environmental and visual quality.

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FLORA	Dust accumulation	Effects on vegetation and fauna
	Loss of vegetation cover	Total or partial removal of vegetation
FAUNA	Plague or invasive species	Ocupación de poblaciones biológicas, no propias de la región.
	Deterioration of water quality	Detrimento de las características de los ambientes.
	Reduction of fish species due to deterioration of water quality	Alteración de las diferentes comunidades biológicas.

(1) Port Terminals Environmental Guide. Agreement No. 370-2016 MADS-INVERMAR (2016), p. 105-107.

# SPECIFIC ANALYSIS OF THE ENVIRONMENTAL IMPACTS RELATED TO PORT ACTIVITY<sup>1</sup>

COMPONENT	IMPACT	DESCRIPTION
WATER	Pollution from bilge water	Increased concentration of oil residues in the water, caused by discharge of bilge water in vessel operations.
	Pollution by potentially hazardous and toxic substance spills	Changes in the quality of the sea floor or river bed sediments due to polluting agents.
	Pollution by solid and liquid discharges	



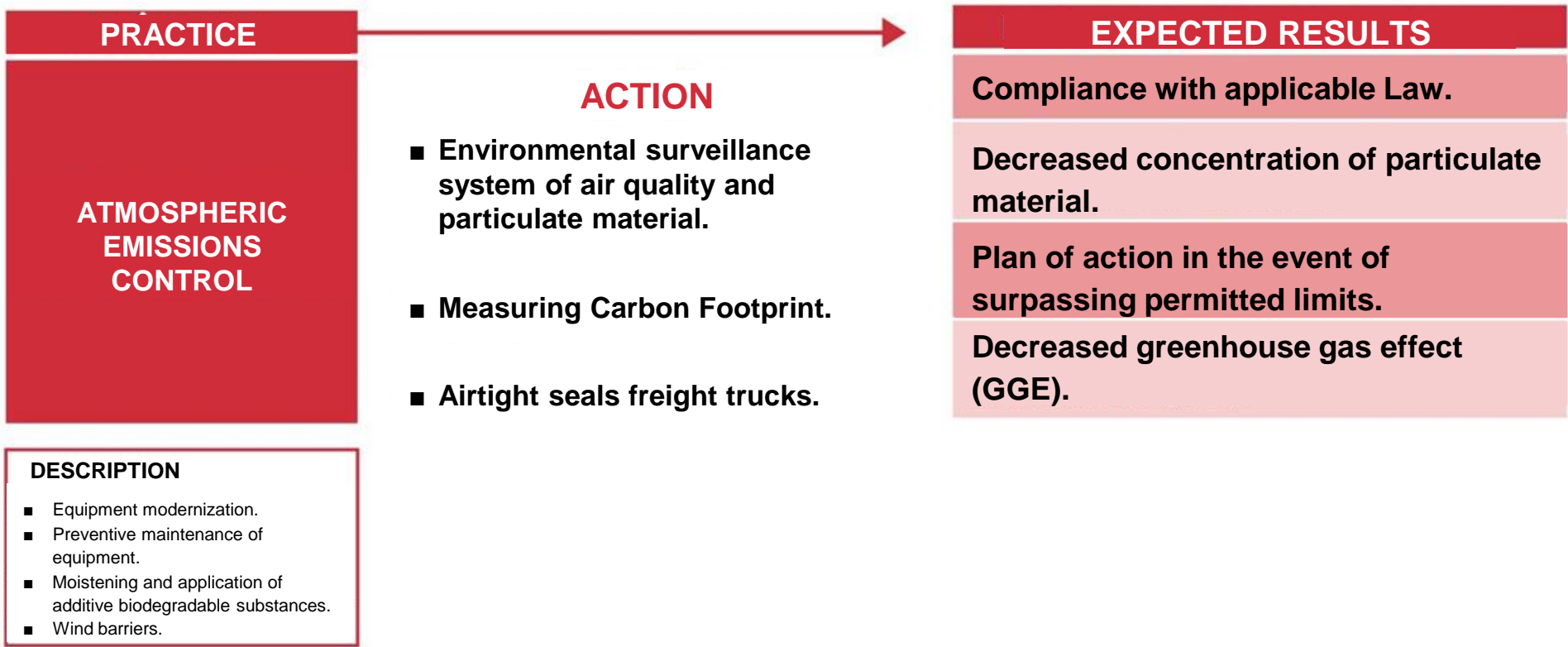
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	Pollution by solid and liquid discharges	Increased concentration of solid or liquid waste in the water
AIR	Pollution by increased gas concentration	Increased concentration of gases such as SO <sub>2</sub> , CO, volatile organic compounds, nitrogen oxide, CO <sub>2</sub> , methane (CH <sub>4</sub> ) and Chlorofluorocarbons (CFC) in the atmosphere
	Increased concentration of particulate matter	Increased concentration of particles suspended in the air

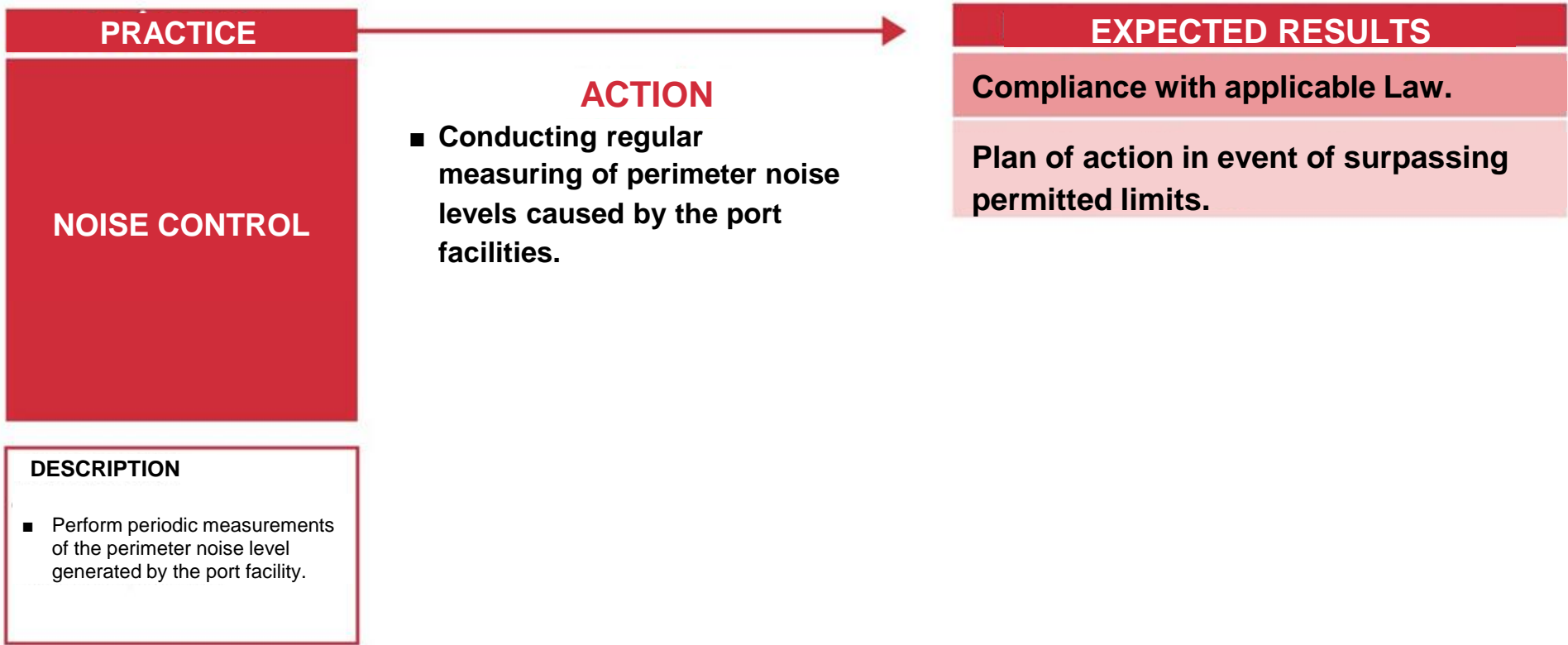
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	Increased concentration of particulate matter	Increased concentration of particles suspended in the air
SOIL	Silting, accretion, erosion, and undermining	Solid material building up on the sea floor or river bed, growth by addition of smaller objects, removal or wearing away of the soil and/or deep excavation caused by water.
	Pollution by potential fuel, grease, and oil spills	Change in soil quality due to increased concentration of fuel, greases, and oils.
	Solid waste generation	Presence of solid waste in the soil.

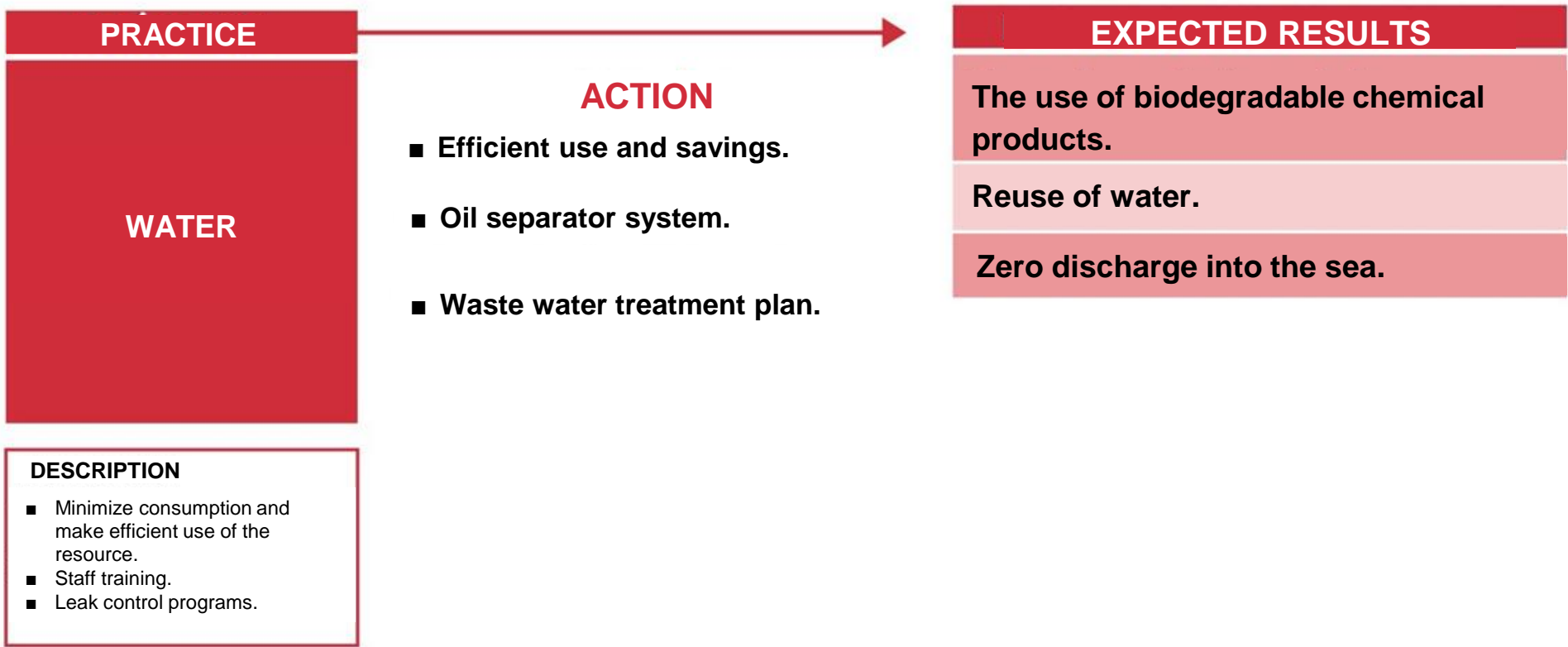
# BEST PRACTICES OBSERVED IN LATIN AMERICAN PORT TERMINALS



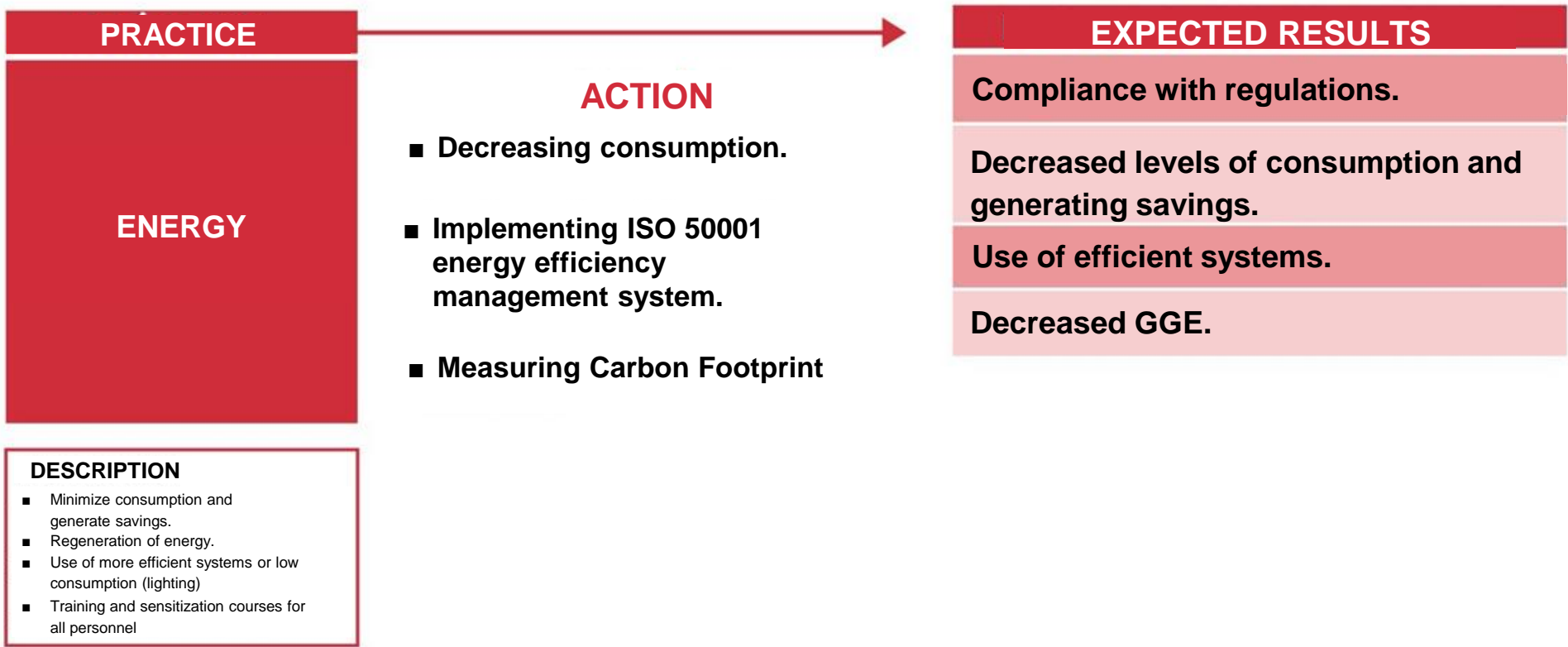
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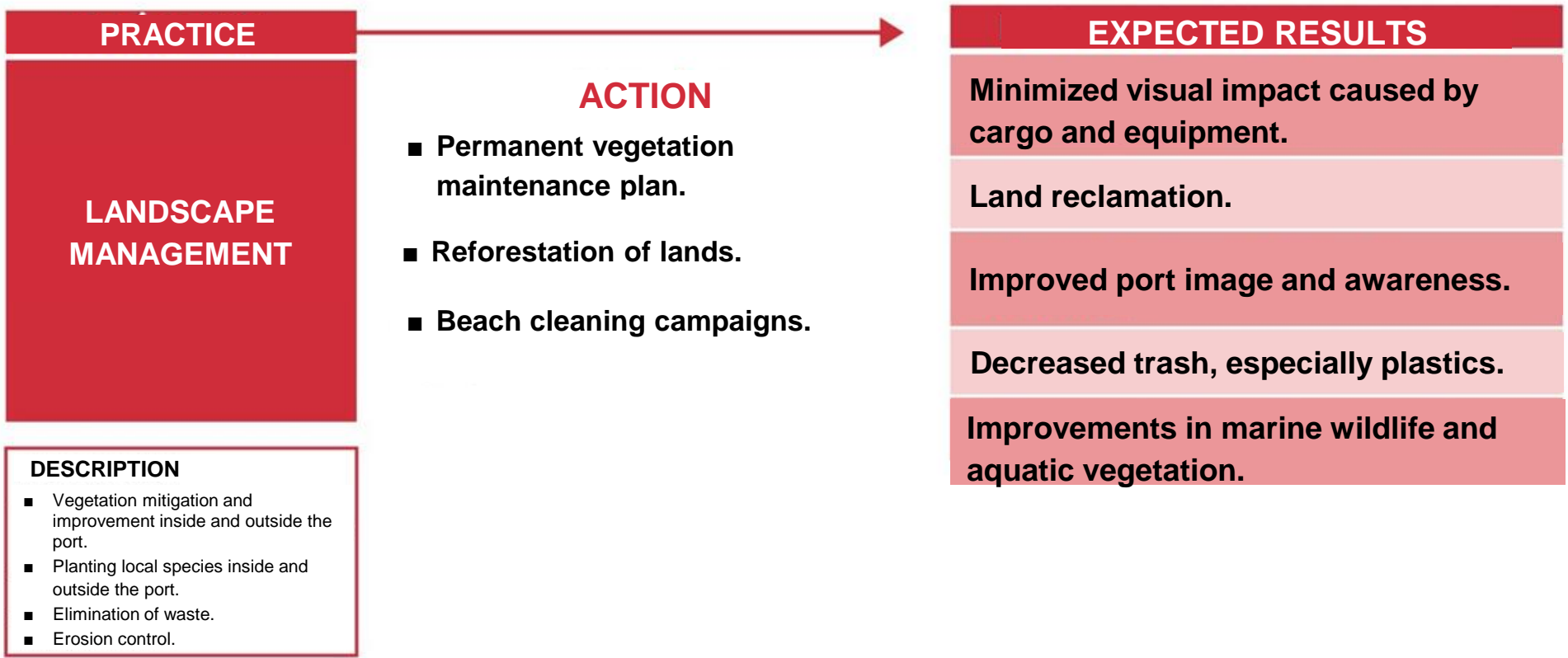
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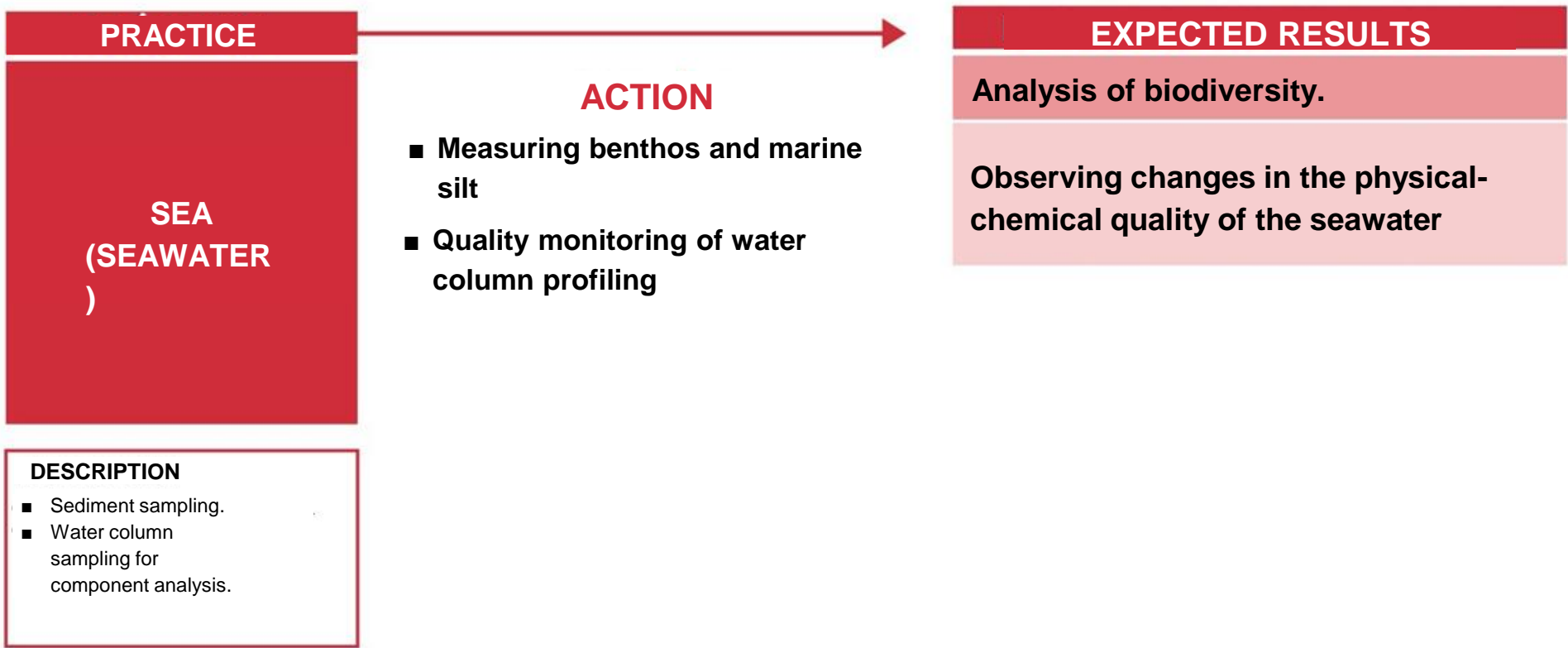
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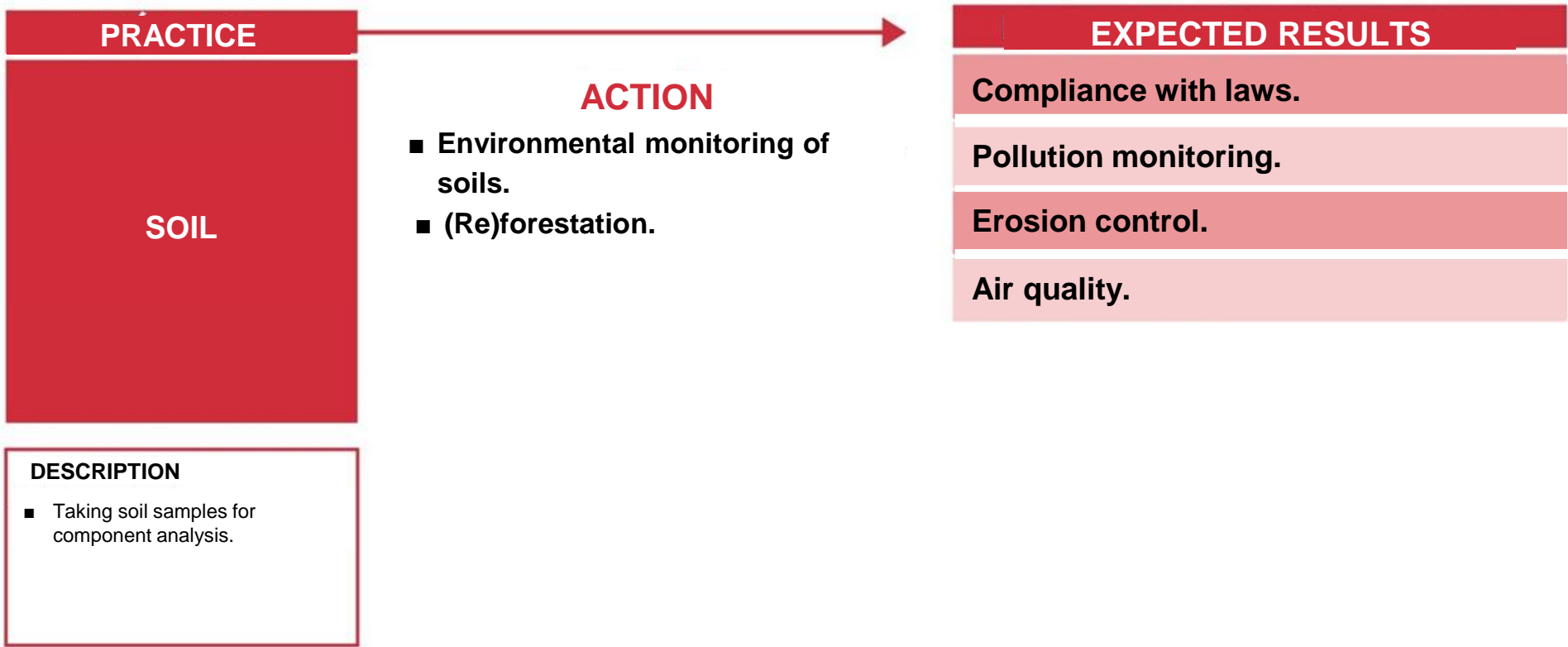




# BEST PRACTICES OBSERVED IN LATIN AMERICAN PORT TERMINALS



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# INTERNATIONALLY RECOGNIZED ENVIRONMENTAL STANDARDS AND CERTIFICATIONS

# **NORMA ISO 14.001**

## **ENVIRONMENTAL MANAGEMENT SYSTEM**

# ADVANTAGES OF IMPLEMENTING AN EMS IN A PORT.

## **Competition**

(improves the image)

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**Costs Reduction**  
(residue control and  
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**A Committed  
Organization**

## ADVANTAGES OF IMPLEMENTING AN EMS IN A PORT.

**Competition**  
(improves the image)



**Costs Reduction**  
(residue control and  
treatment)



**A Committed  
Organization**



**Risk identification  
and control**  
(regulatory compliance,  
communication)



# FACTORS THAT DRIVE THE IMPLEMENTATION AND CERTIFICATION IN A PORT.

Obtaining  
**Competitive  
Advantages**

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**Market and customer  
requirements**

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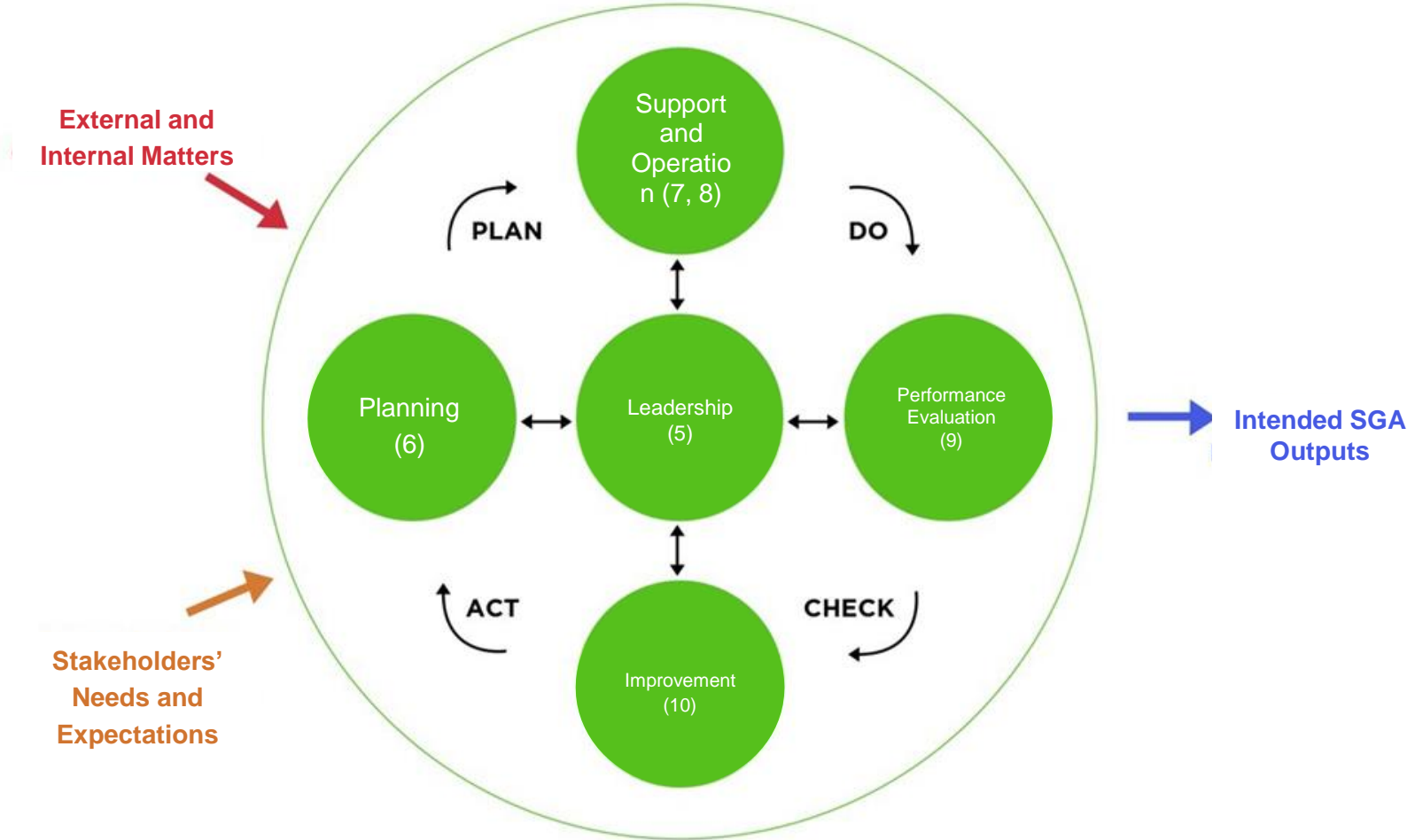


**Environmental awareness,  
surrounding community  
and society**

## BENEFITS OF OBTAINING AN ISO 14.001:2015

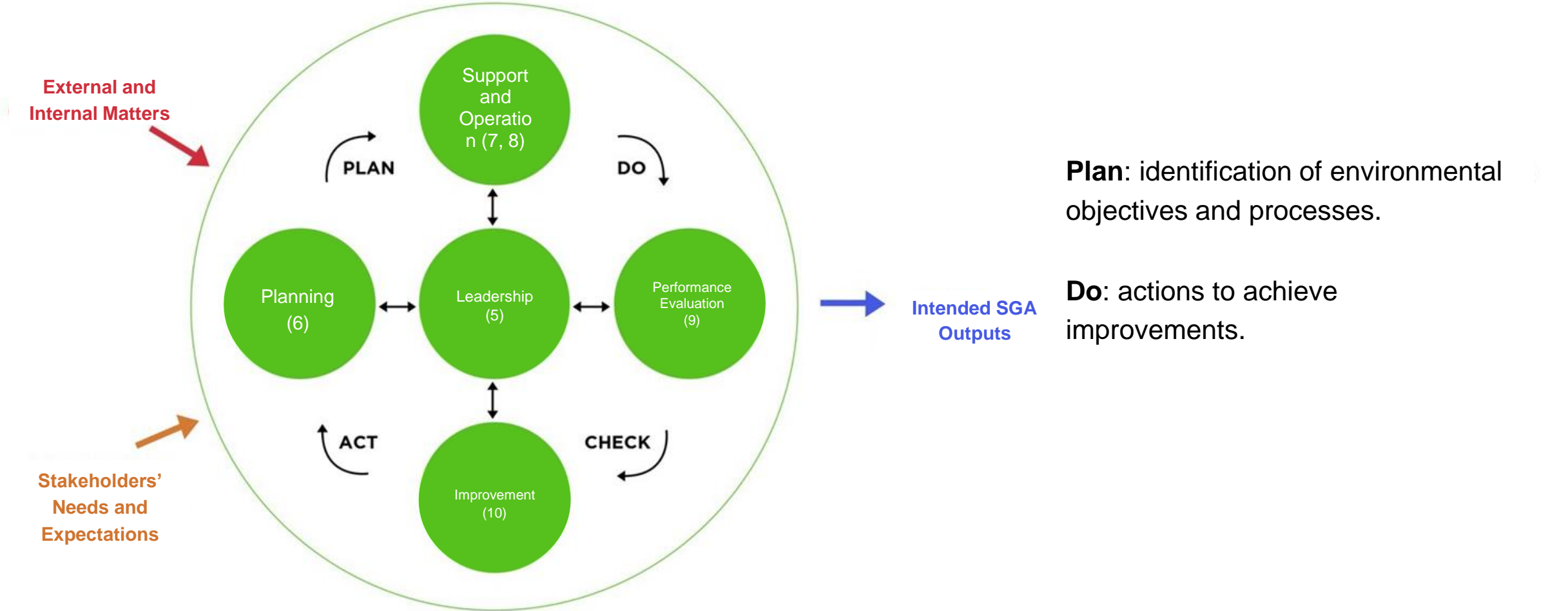
- Protecting the environment through prevention or mitigation of adverse environmental impacts;
- Complying with statutory requirements;
- Controlling how the organization designs, manufactures, distributes, consumes and carries out final provision of products and services
- Making it easier to gain financial and operational benefits that can result from implementing environmentally respectful alternatives that strengthen the organization's market position;
- Successfully communicating environmental information to stakeholders.

# SCOPE OF THE EMS 14.001.

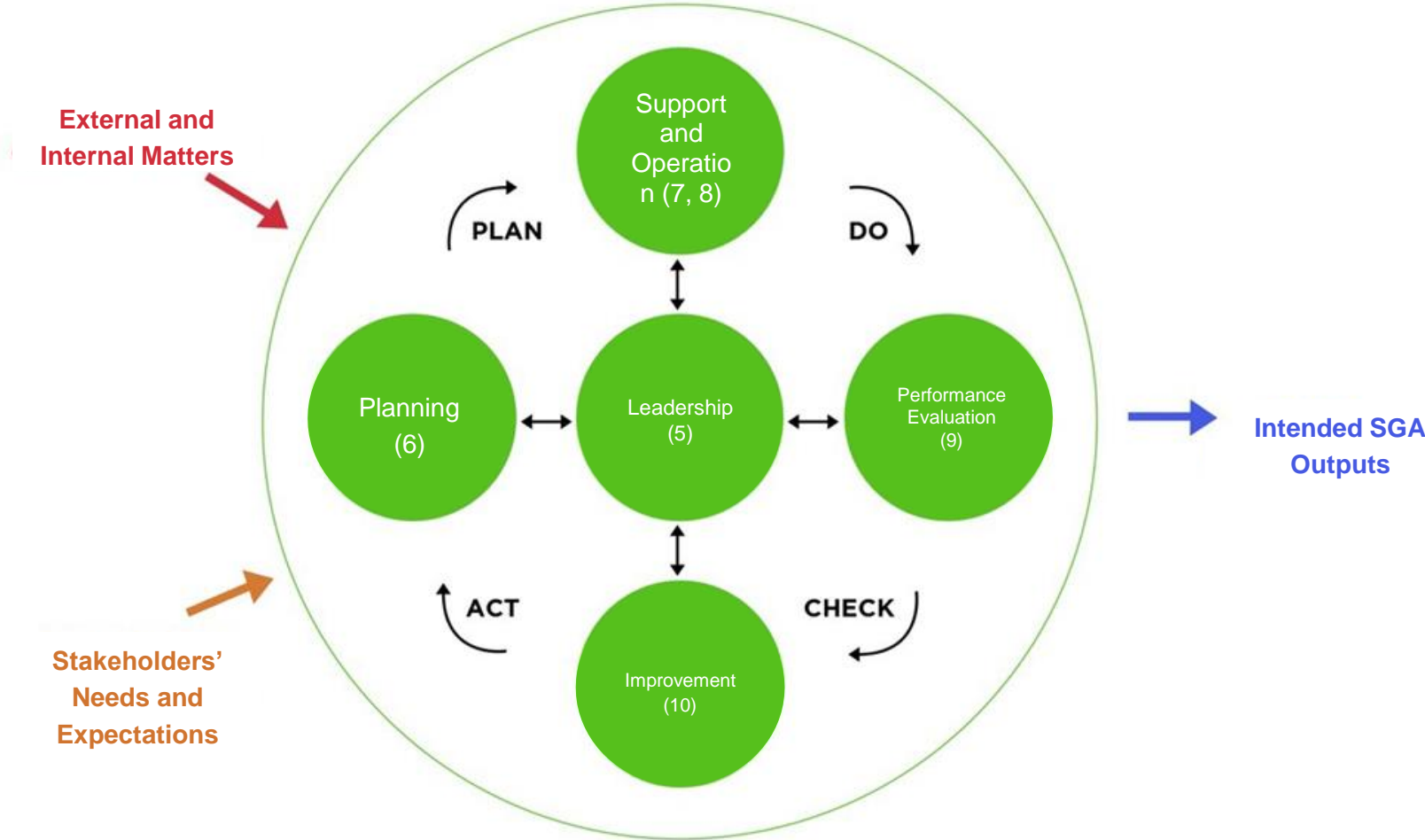


**Plan:** identification of environmental objectives and processes

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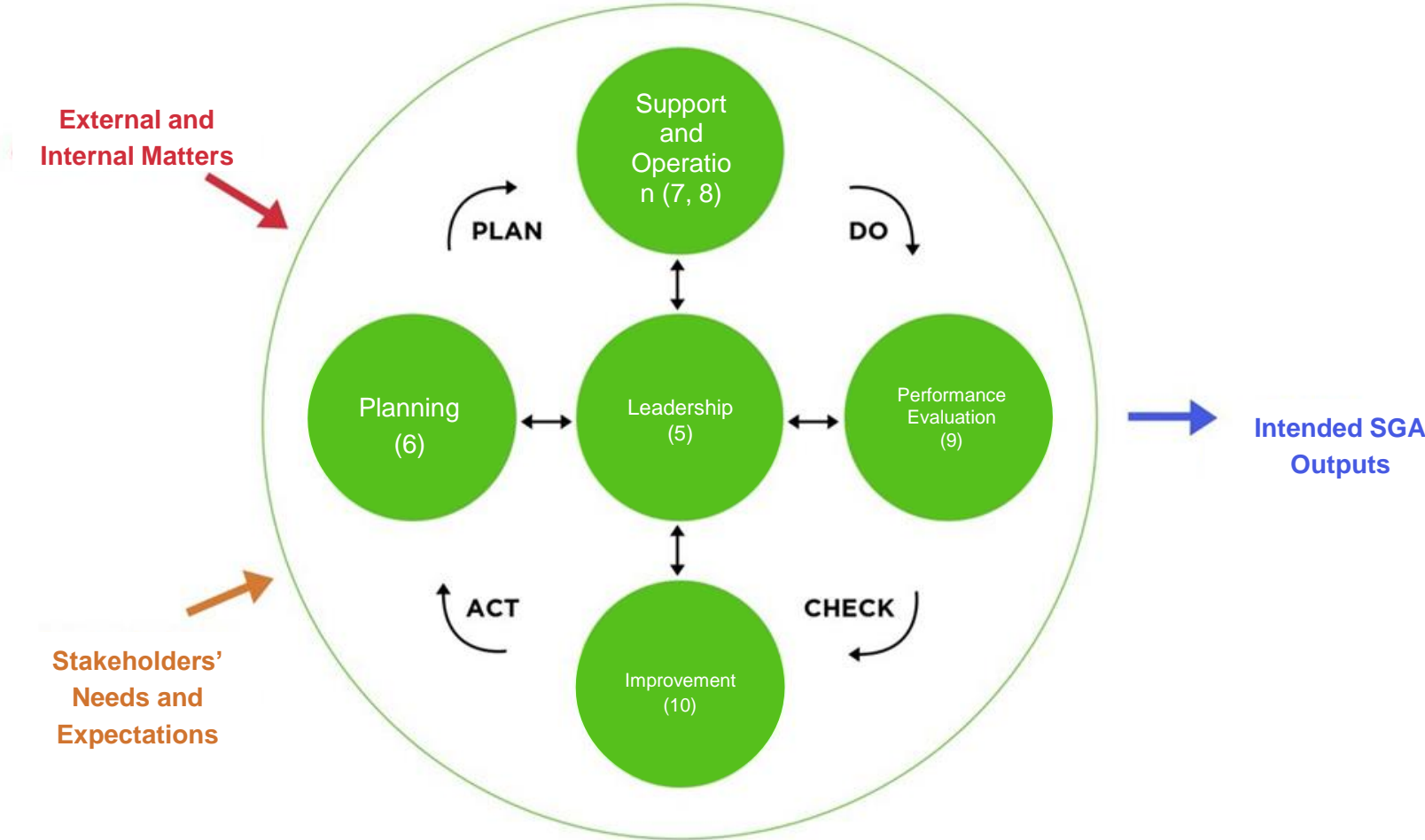


**Plan:** identification of environmental objectives and processes.

**Do:** actions to achieve improvements.

**Check:** monitoring, regulation and adjustment.

# SCOPE OF THE EMS 14.001.



**Plan:** identification of environmental objectives and processes.

**Do:** actions to achieve improvements.

**Check:** monitoring, regulation and adjustment.

**Act:** continuously improve.

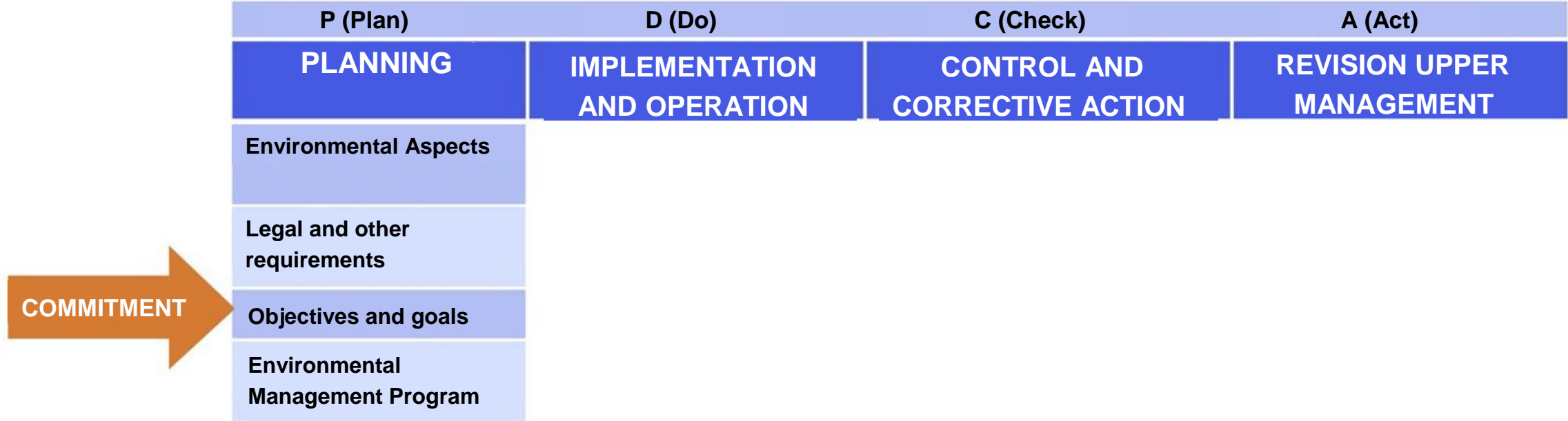


# EMS ISO 14001 CERTIFICATION.


P (Plan)	D (Do)	C (Check)	A (Act)
PLANNING	IMPLEMENTATION AND OPERATION	CONTROL AND CORRECTIVE ACTION	REVISION UPPER MANAGEMENT




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	Environmental Aspects	Structure and Responsibilities.		
	Legal and other requirements	Training, Awareness Raising and Professional Competencies.		
	Objectives and goals	Communication.		
	Environmental Management Program	Documentation of Environmental Management System.		
		Control of Documentation.		
		Control of Operations.		
		Emergency Plans.		

# EMS ISO 14001 CERTIFICATION.

	P (Plan)	D (Do)	C (Check)	A (Act)
	PLANNING	IMPLEMENTATION AND OPERATION	CONTROL AND CORRECTIVE ACTION	REVISION UPPER MANAGEMENT
	Environmental Aspects	Structure and Responsibilities.	Monitoring and Measuring.	
	Legal and other requirements	Training, Awareness Raising and Professional Competencies.	Non-conformity, corrective action and preventive action.	
	Objectives and goals	Communication.	Records.	
	Environmental Management Program	Documentation of Environmental Management System. Control of Documentation. Control of Operations. Emergency Plans.		

# EMS ISO 14001 CERTIFICATION.

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	PLANNING	IMPLEMENTATION AND OPERATION	CONTROL AND CORRECTIVE ACTION	REVISION UPPER MANAGEMENT
	Environmental Aspects	Structure and Responsibilities.	Monitoring and Measuring.	Continual improvement.
	Legal and other requirements	Training, Awareness Raising and Professional Competencies.	Non-conformity, corrective action and preventive action.	
	Objectives and goals	Communication.	Records.	
	Environmental Management Program	Documentation of Environmental Management System. Control of Documentation. Control of Operations. Emergency Plans.		

## EXPECTED RESULTS

**Improvement** in  
environmental  
performance

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**Compliance**  
with legal requirements

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**Improvement** in  
environmental  
performance



**Compliance**  
with legal requirements



Achievement of  
environmental **objectives**



# **STAGES OF IMPLEMENTATION AND ISO 14.001 CERTIFICATION**

**POLICY**



# STAGES OF IMPLEMENTATION AND ISO 14.001 CERTIFICATION



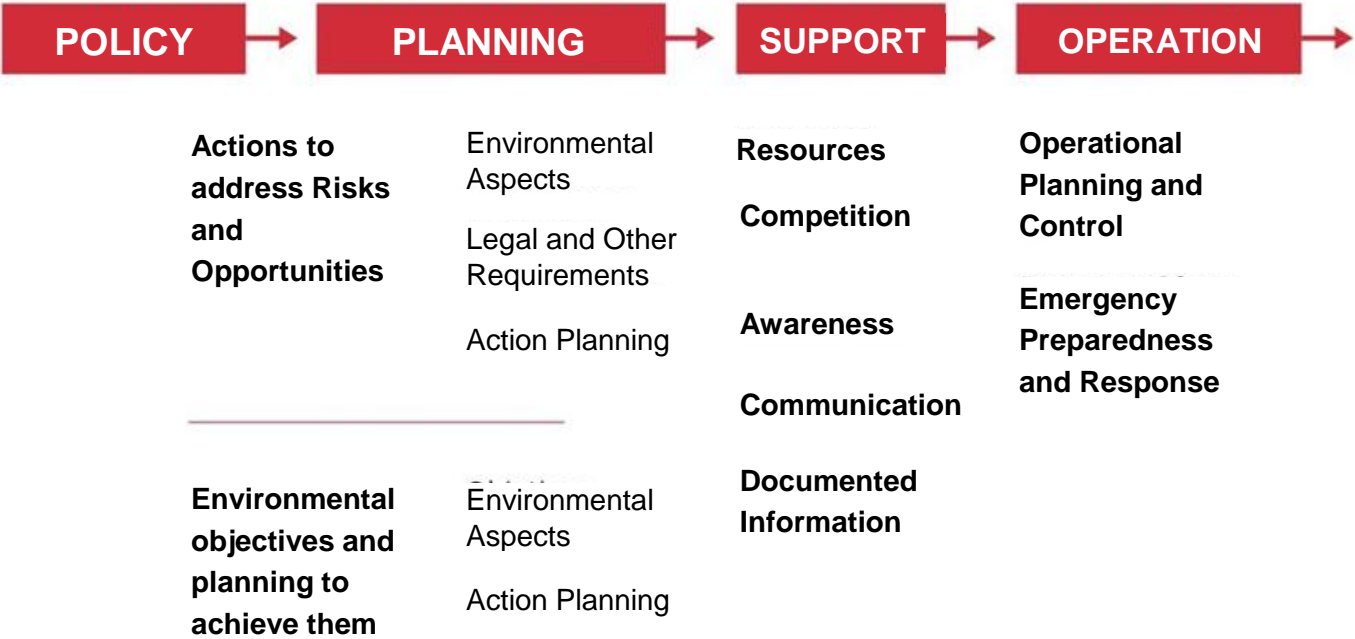
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|---|---------------------------------|
| <b>Actions to<br/>address Risks<br/>and<br/>Opportunities</b> | Environmental<br>Aspects        |
|   | Legal and Other<br>Requirements |
|   | Action Planning                 |

- 
- |  |                          |
|--|--------------------------|
| <b>Environmental<br/>objectives and<br/>planning to<br/>achieve them</b> | Environmental<br>Aspects |
|  | Action Planning          |

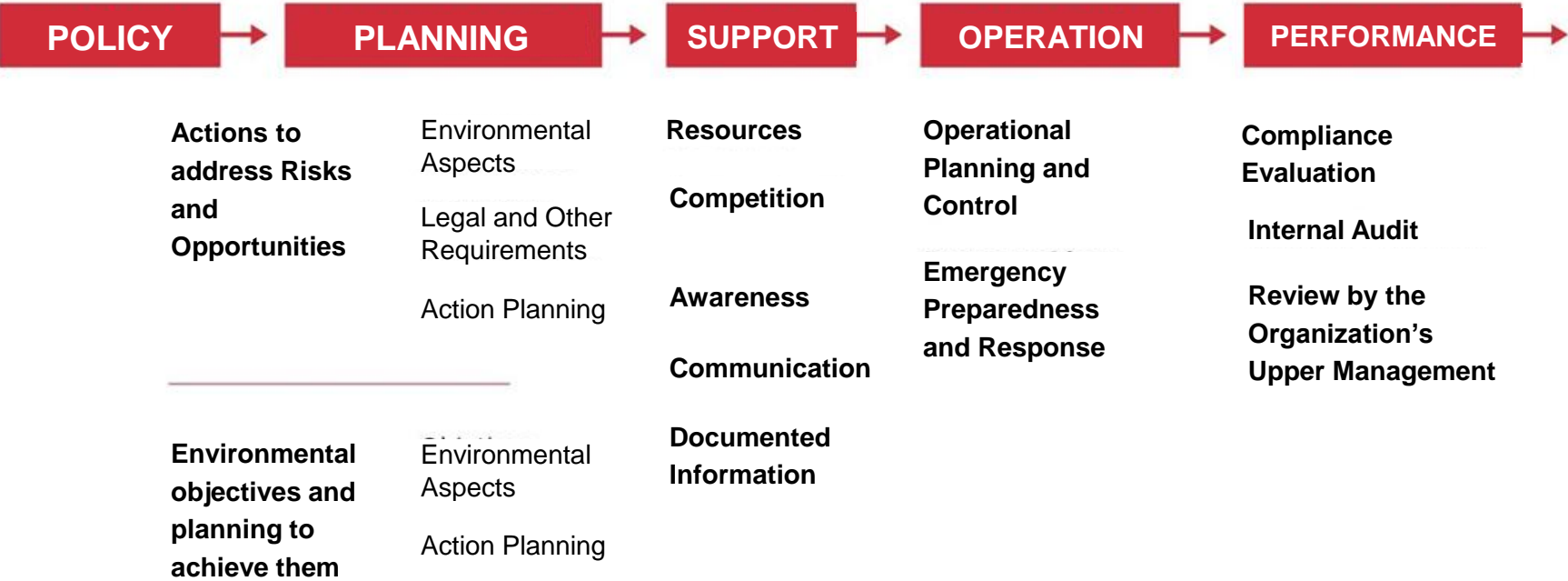
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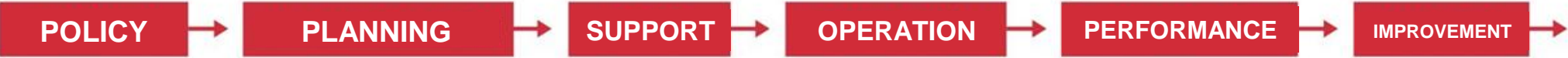
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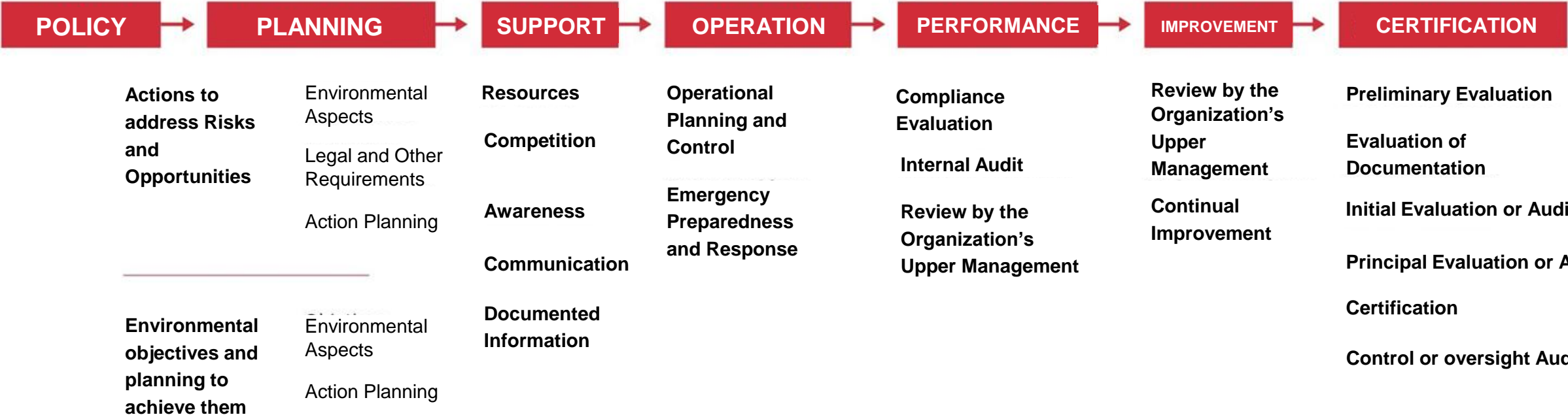


# STAGES OF IMPLEMENTATION AND ISO 14.001 CERTIFICATION



<b>Actions to address Risks and Opportunities</b>	Environmental Aspects Legal and Other Requirements Action Planning	<b>Resources</b> <b>Competition</b>  <b>Awareness</b>  <b>Communication</b>	<b>Operational Planning and Control</b>  <b>Emergency Preparedness and Response</b>	<b>Compliance Evaluation</b>  <b>Internal Audit</b>  <b>Review by the Organization's Upper Management</b>	<b>Review by the Organization's Upper Management</b>  <b>Continual Improvement</b>
<b>Environmental objectives and planning to achieve them</b>	Environmental Aspects Action Planning	<b>Documented Information</b>			

# STAGES OF IMPLEMENTATION AND ISO 14.001 CERTIFICATION



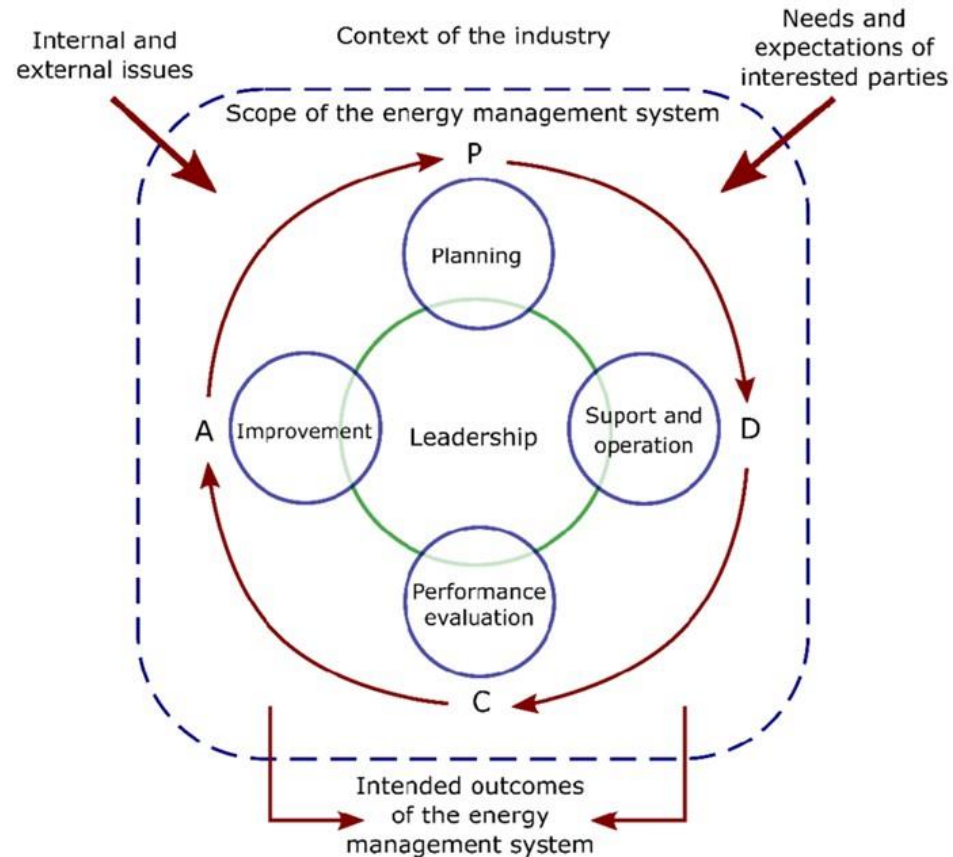
# **ISO 50.001 STANDARD ENERGY MANAGEMENT SYSTEM (EnMS)**



# BENEFITS OF IMPLEMENTING AN EnMS ARE:

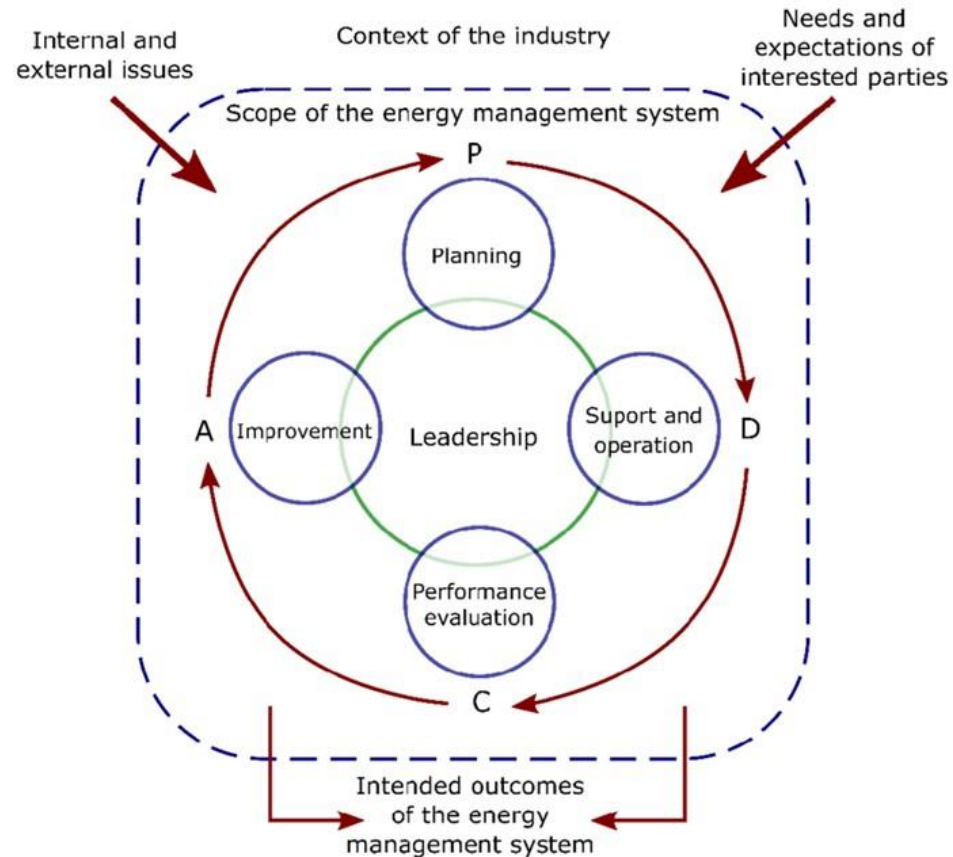
- Continuous improve its energy performance, increase its energy efficiency, and reduce its environmental impact.
- Actively manage energy use and costs and reduce energy costs.
- Reduce emissions without affecting the organization's own operations.
- Continuous improvement of energy use factors.
- Smart use of the organization's resources

# ENERGY MANAGEMENT SYSTEM (ENMS) ISO 50.001:2018



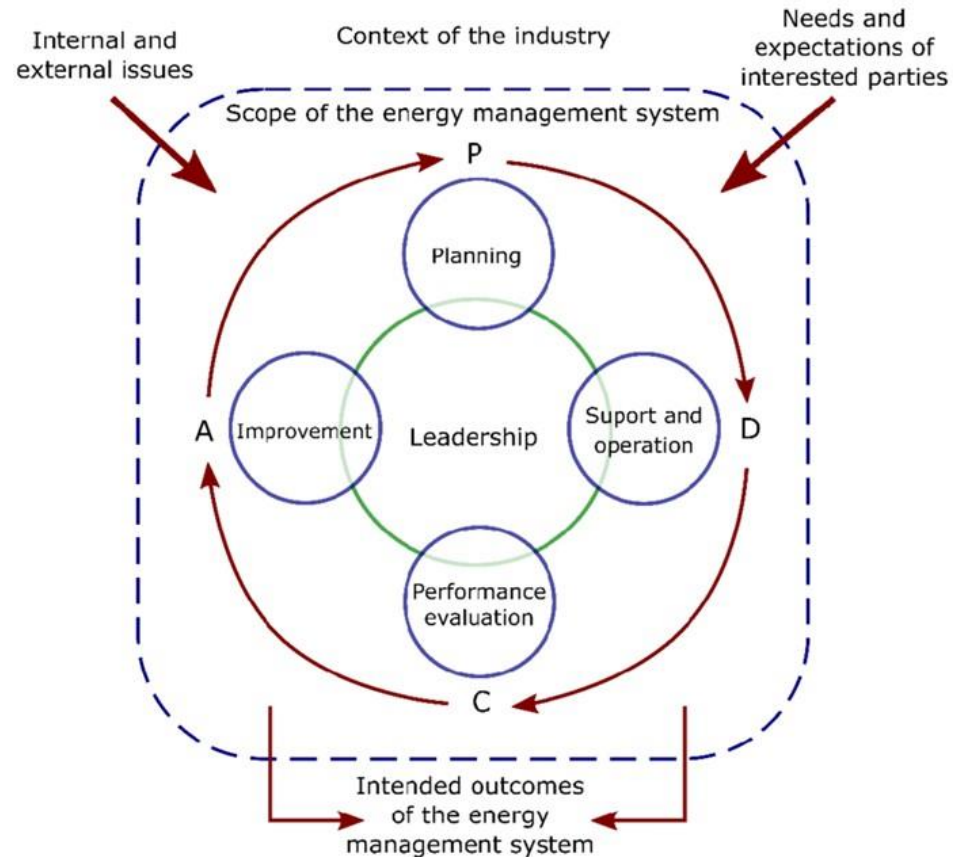
- **Plan:** understand the context of the organization, establish an energy policy and an energy management team.

# ENERGY MANAGEMENT SYSTEM (ENMS) ISO 50.001:2018



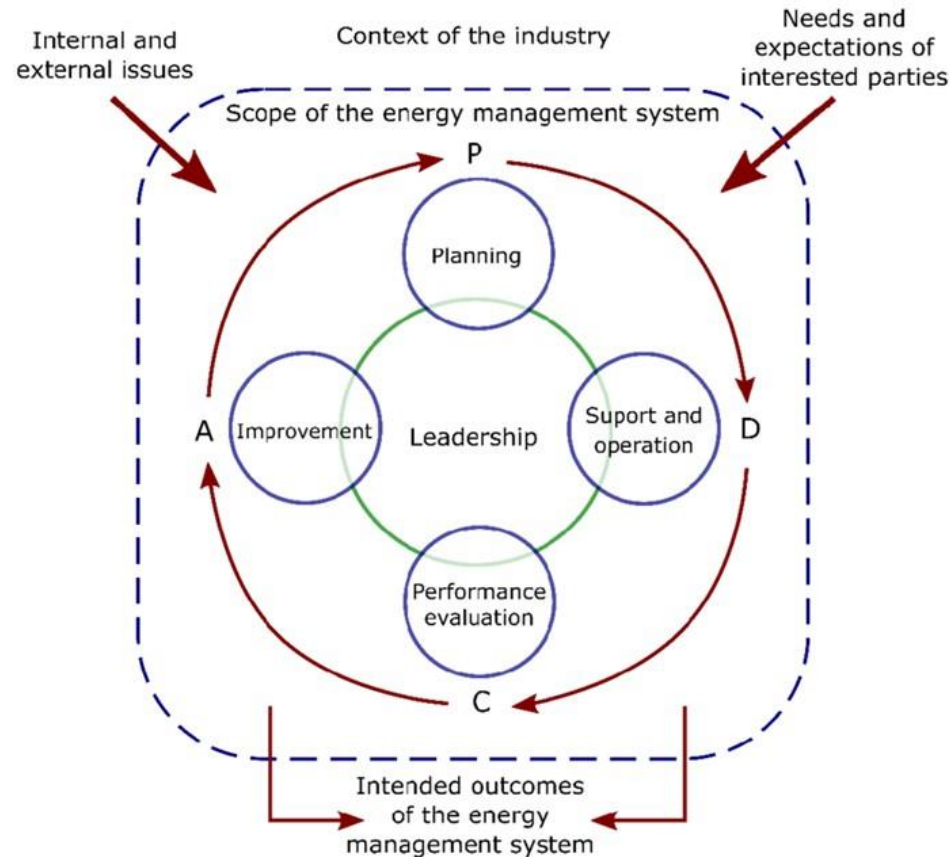
- **Plan:** understand the context of the organization, establish an energy policy and an energy management team.
- **Do:** implement the action plans, operational and maintenance controls, and communication.

# ENERGY MANAGEMENT SYSTEM (ENMS) ISO 50.001:2018



- **Plan:** understand the context of the organization, establish an energy policy and an energy management team.
- **Do:** implement the action plans, operational and maintenance controls, and communication.
- **Check:** monitor, measure, analyze, evaluate, audit and conduct management review(s).

# ENERGY MANAGEMENT SYSTEM (ENMS) ISO 50.001:2018



- **Plan:** understand the context of the organization, establish an energy policy and an energy management team.
- **Do:** implement the action plans, operational and maintenance controls, and communication.
- **Check:** monitor, measure, analyze, evaluate, audit and conduct management review(s).
- **Act:** take actions to address continually improve energy performance.

# ISO 50.001:2018 IMPLEMENTATION AND CERTIFICATION

### Context and Leadership



Planning

Support

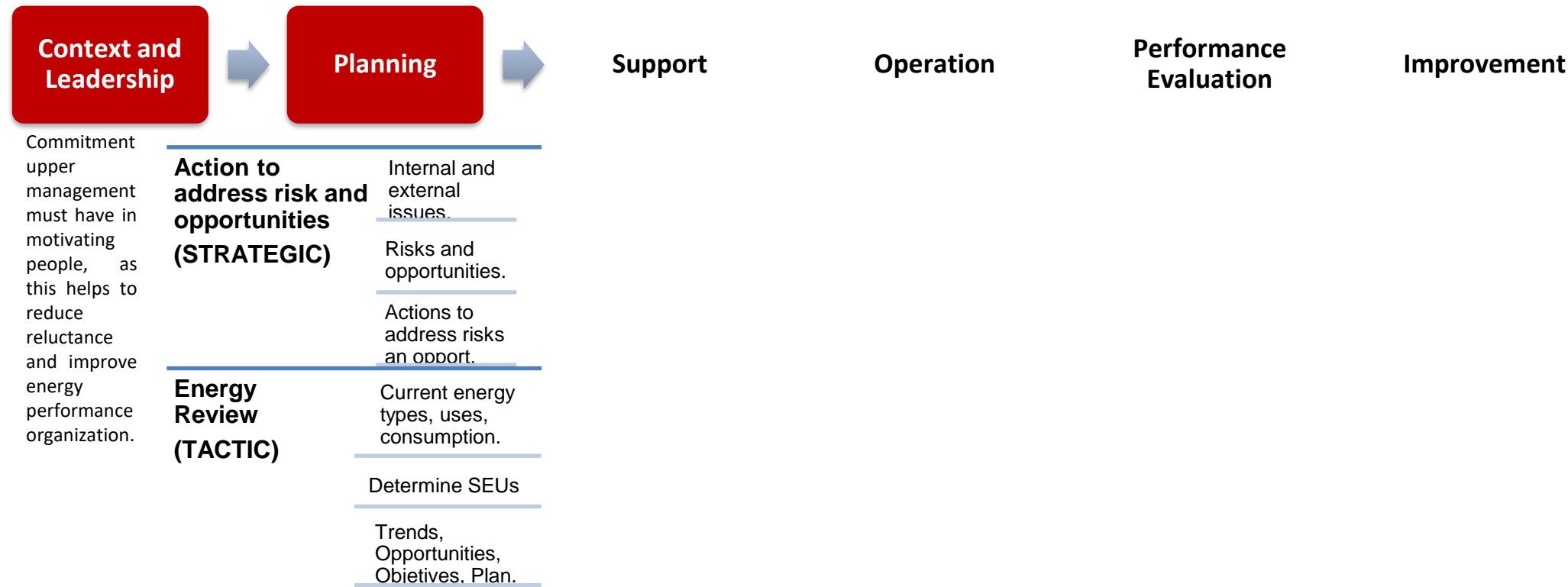
Operation

Performance  
Evaluation

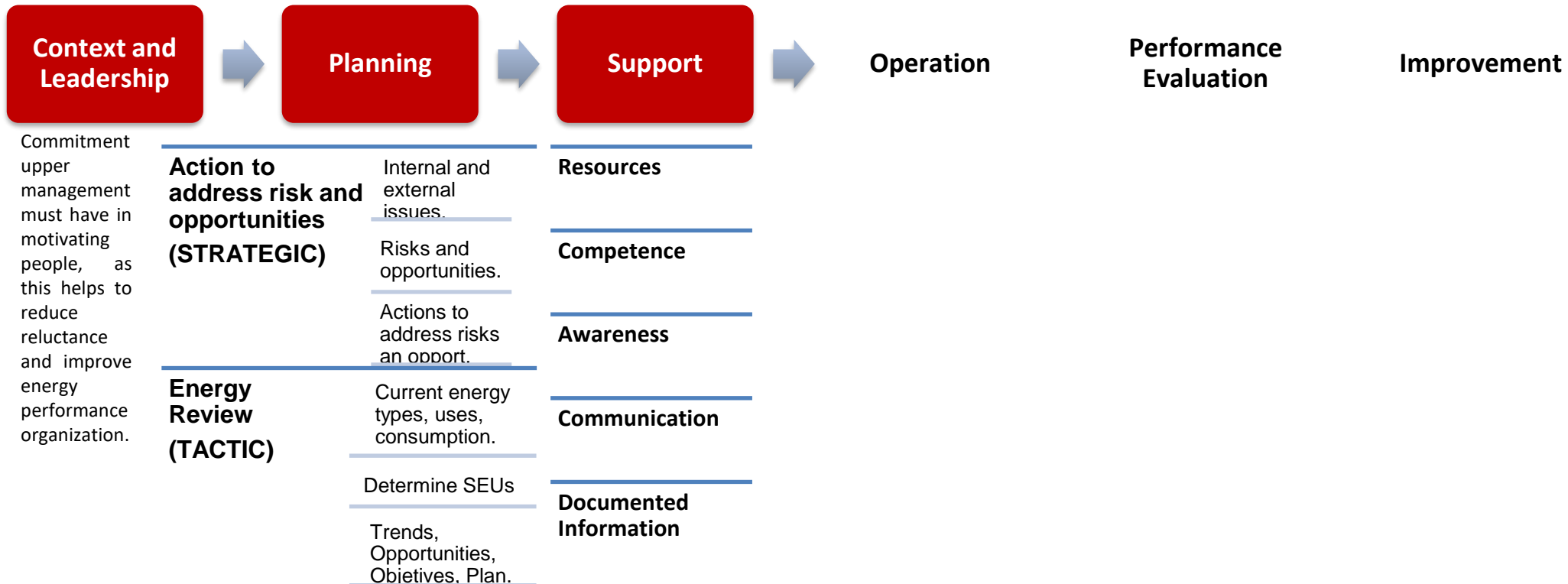
Improvement

Commitment  
upper  
management  
must have in  
motivating  
people, as  
this helps to  
reduce  
reluctance  
and improve  
energy  
performance  
organization.

# ISO 50.001:2018 IMPLEMENTATION AND CERTIFICATION

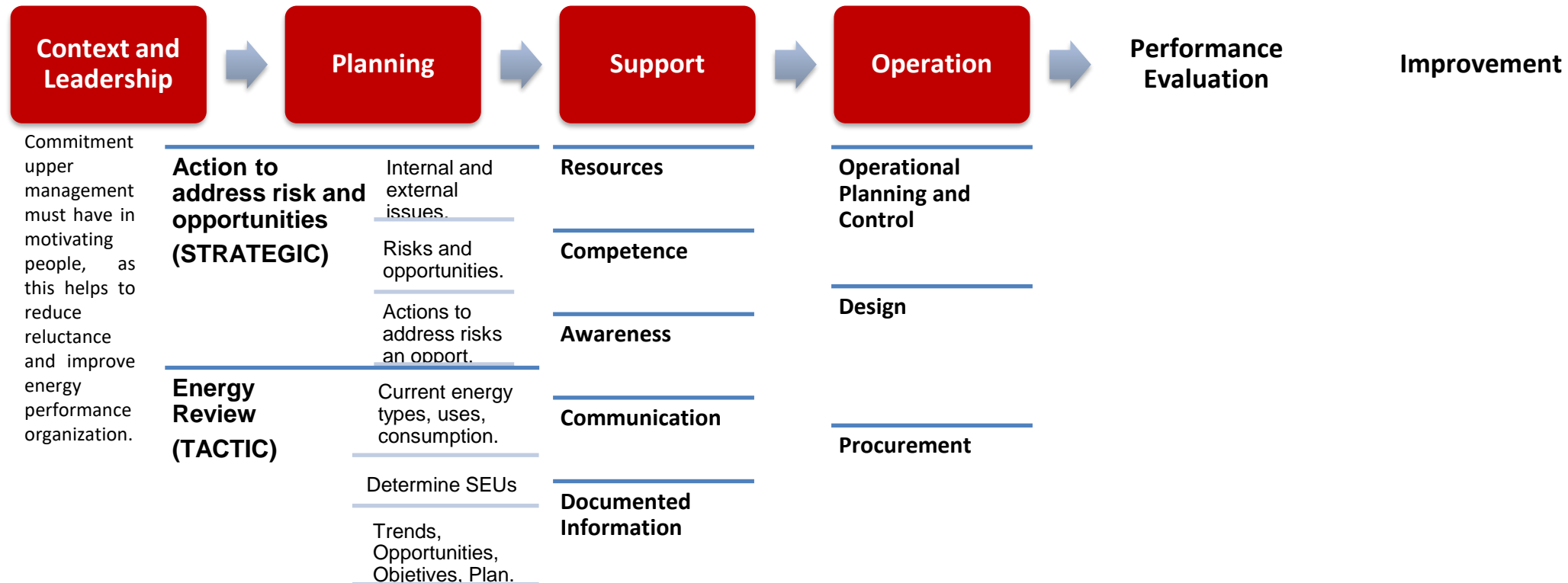


## ISO 50.001:2018 IMPLEMENTATION AND CERTIFICATION

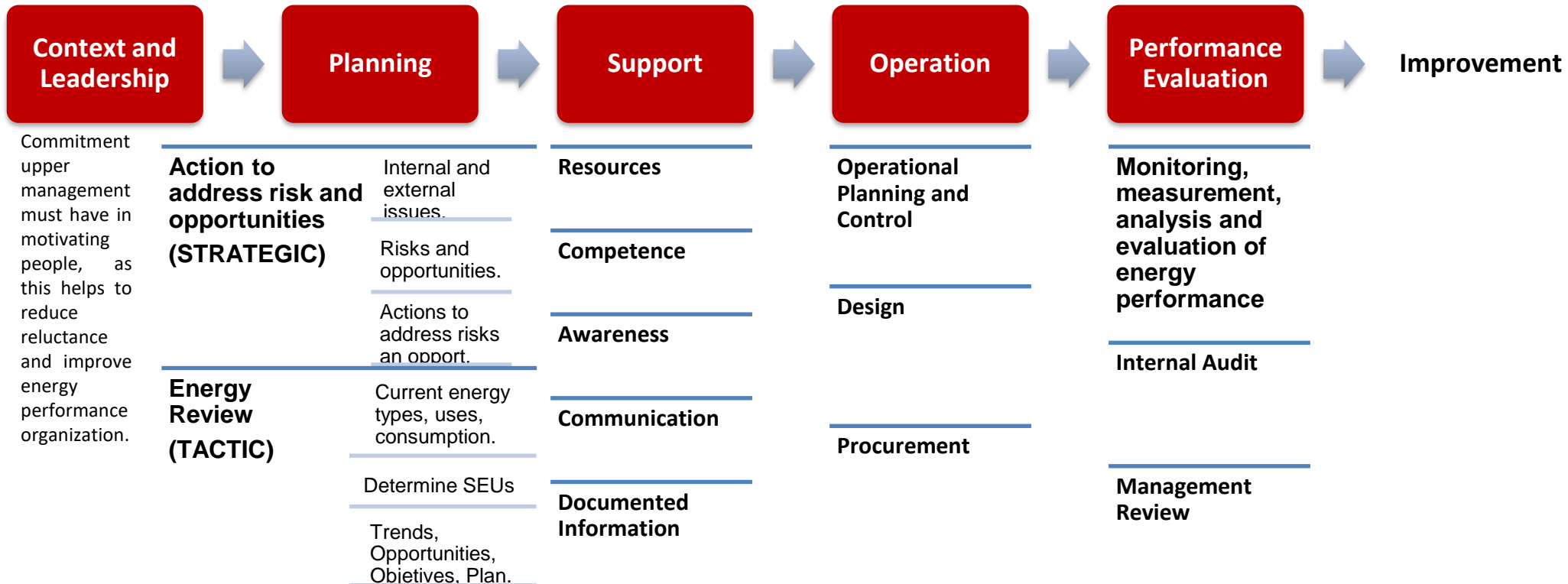




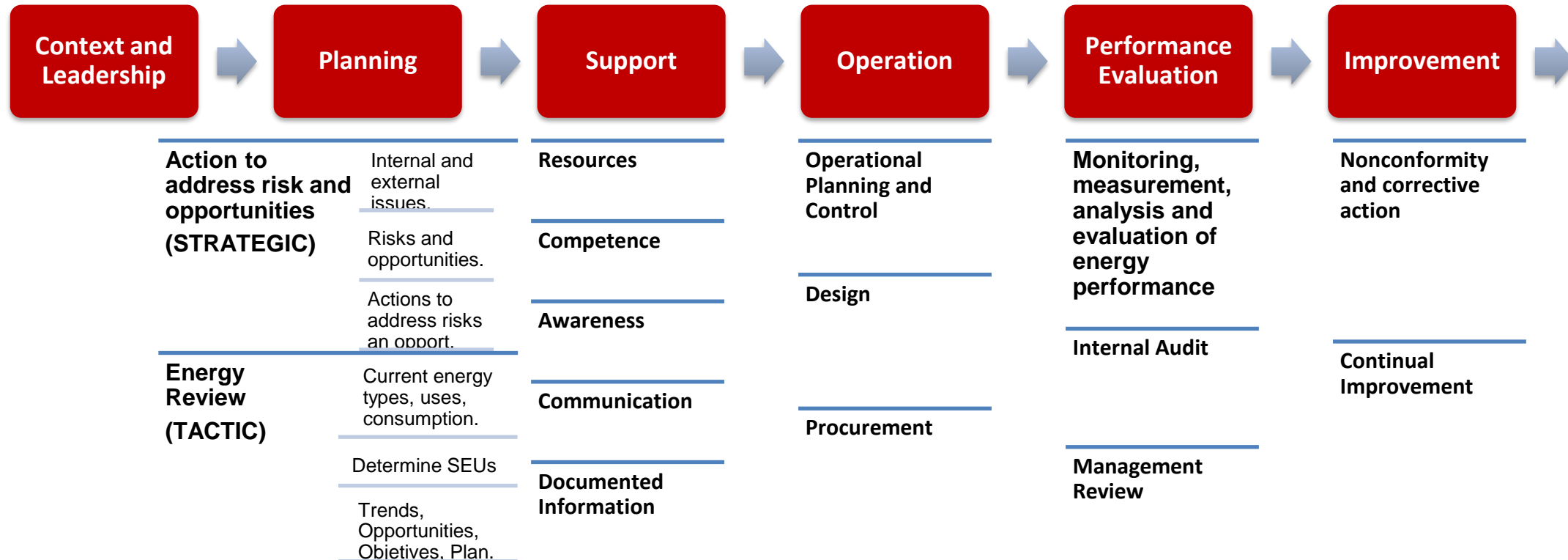
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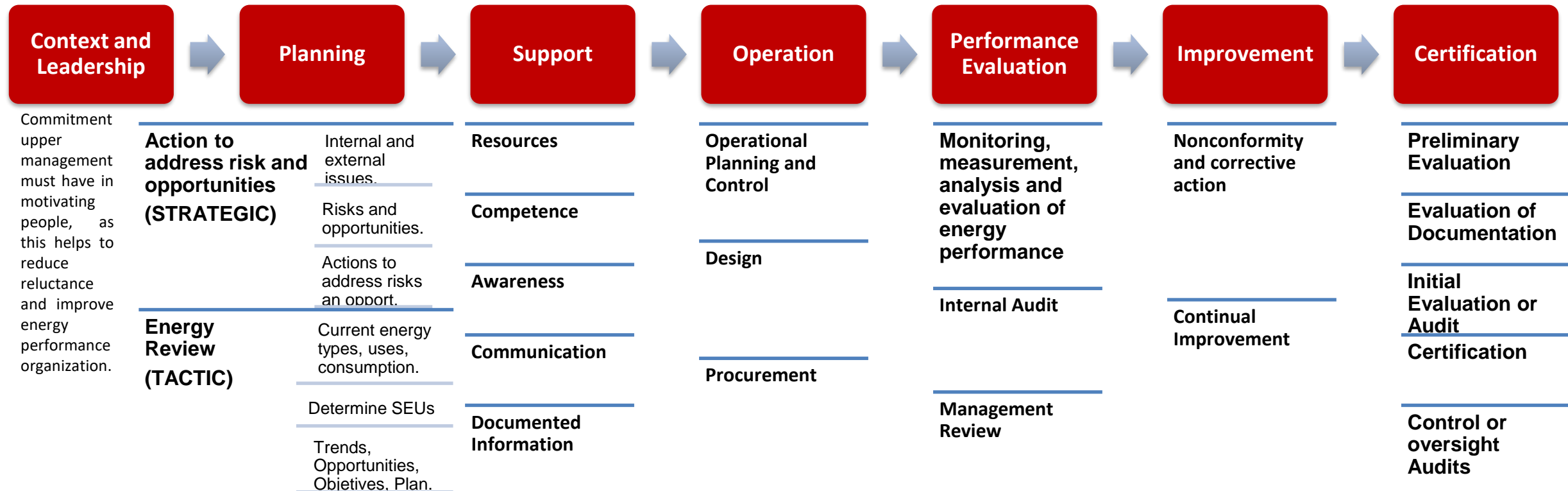
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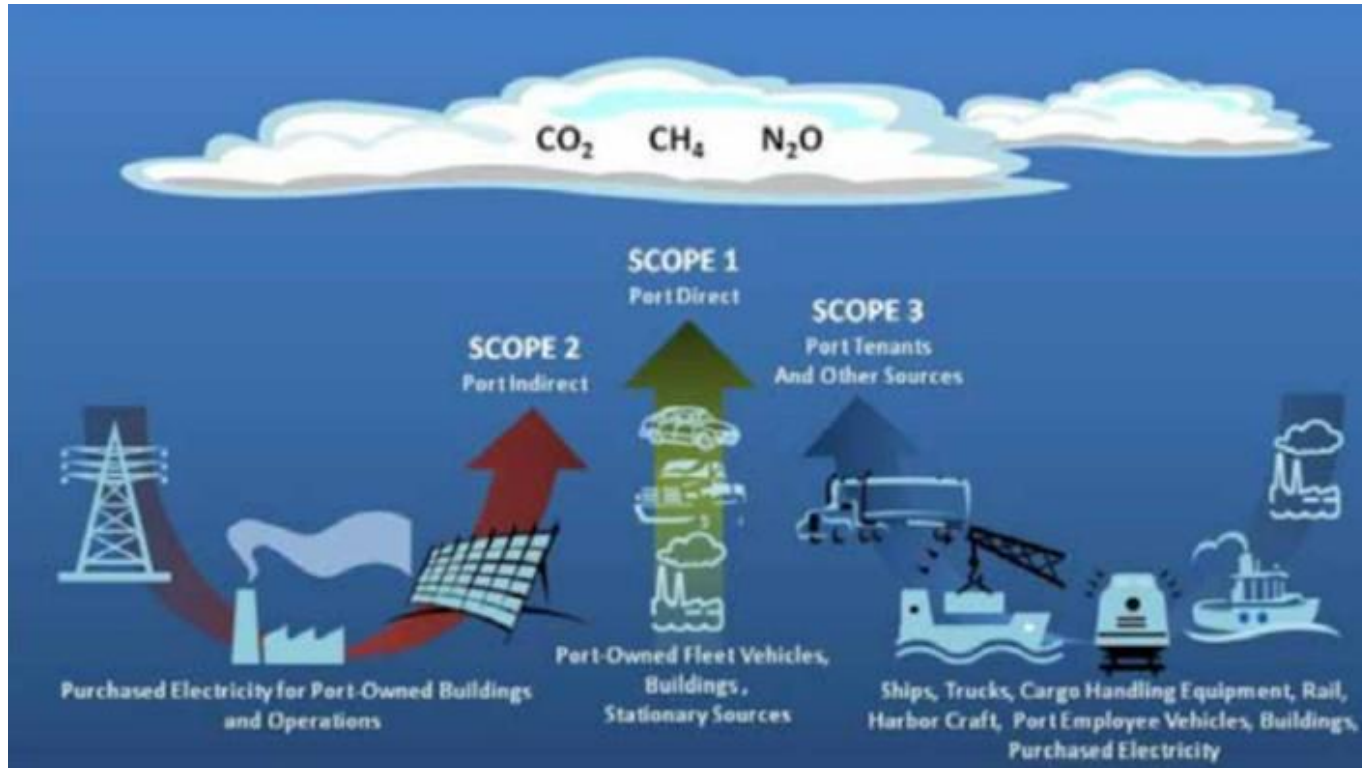


# **PROGRAMA MUNDIAL DE SOSTENIBILIDAD PORTUARIA - WPSP**

# MEDICIÓN, CONTROL Y REDUCCIÓN DE GEI

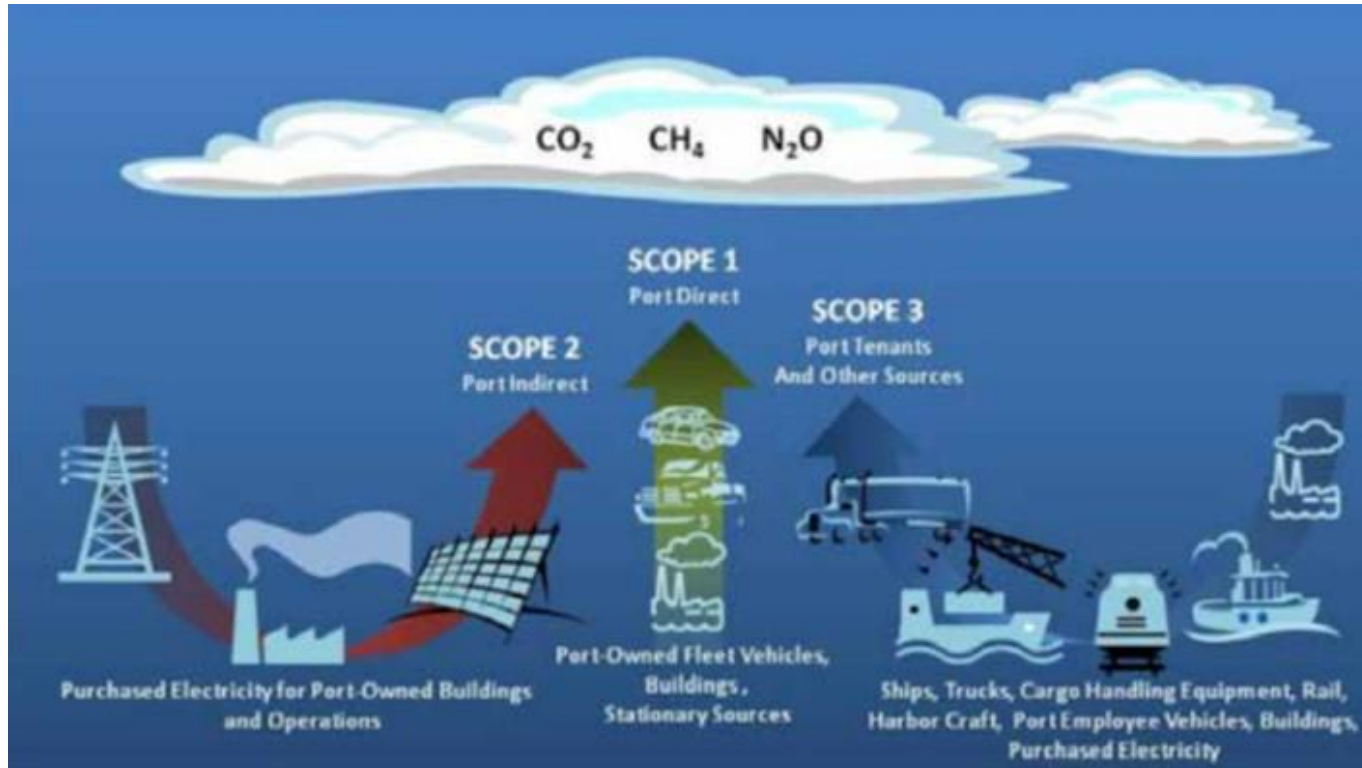
- IAPH (International Association of Ports and Harbors): “ World Port Sustainability Program (WPSP)” – previously “World Port Climate Initiative (WPCI)”-, has a publication of a comprehensive guidance tool for identifying and quantifying the carbon footprint of ports.
- Carbon footprint in ports refers to GHG emissions (Greenhouse Gas emissions).

# MEDICIÓN, CONTROL Y REDUCCIÓN DE GEI



**Scope 1:** **direct emissions** from sources owned or directly controlled by the entity.

# MEDICIÓN, CONTROL Y REDUCCIÓN DE GEI

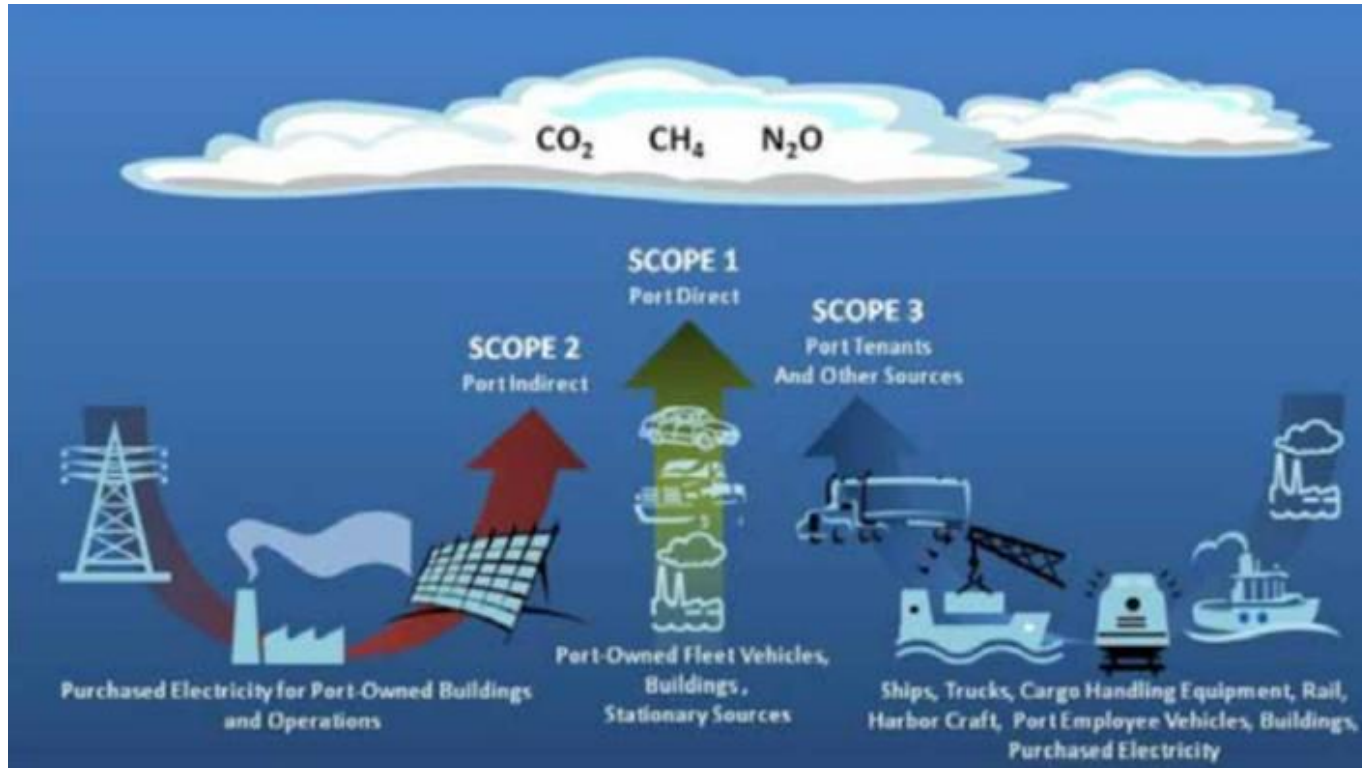


**Scope 1:** **direct emissions** from sources owned or directly controlled by the entity.

**Scope 2:** **indirect emissions** associated with the generation of electricity, heat, or steam purchased and consumed by the entity for its activities.



# MEDICIÓN, CONTROL Y REDUCCIÓN DE GEI



**Scope 1:** **direct emissions** from sources owned or directly controlled by the entity.

**Scope 2:** **indirect emissions** associated with the generation of electricity, heat, or steam purchased and consumed by the entity for its activities.

**Scope 3:** Refers to other **emissions from direct and indirect sources** that occur in the entity's value chain.

# **EMAS (EcoManagement and Audit Scheme) ENVIRONMENTAL MANAGEMENT SYSTEM**

# OBJECTIVES OF AN EMS EMAS (III).

Like ISO 14.001, **EMAS** allows to guide and manage the improvement of environmental performance on a continuous basis; its **objectives** are<sup>2</sup>:

- The establishment and implementation of an environmental management system.
- The systematic, objective, and periodic evaluation of the performance of such a system.
- The provision of information on the environmental performance of the organization.
- Open dialogue with the public and other interested parties.

## ADVANTAGES OF OBTAINING AN EMS EMAS (III).

- **Environmental benefits:** improved environmental management, fewer environmental impacts and stimulation of ecological innovation in production processes.
- **Benefits of leadership and corporate image:** reinforcement and improvement of corporate image of the company, credibility and confidence in the eyes of public authorities, citizens, shareholders, employees, and other clients.
- **Economic and social benefits:** when you're certified, you may see increased business and, by optimizing management of environmental aspects, economic benefits will be obtained in the medium and long term.

# STAGES OF IMPLEMENTATION AND **EMAS (III)**<sup>3</sup> CERTIFICATION

INITIAL  
ENVIRONMENTAL  
REVIEW



Identifying all environmental  
aspects that have a significant  
environmental impact

Identifying environmental  
compliance obligations that  
have been entered into by the  
company

# STAGES OF IMPLEMENTATION AND **EMAS (III)**<sup>3</sup> CERTIFICATION

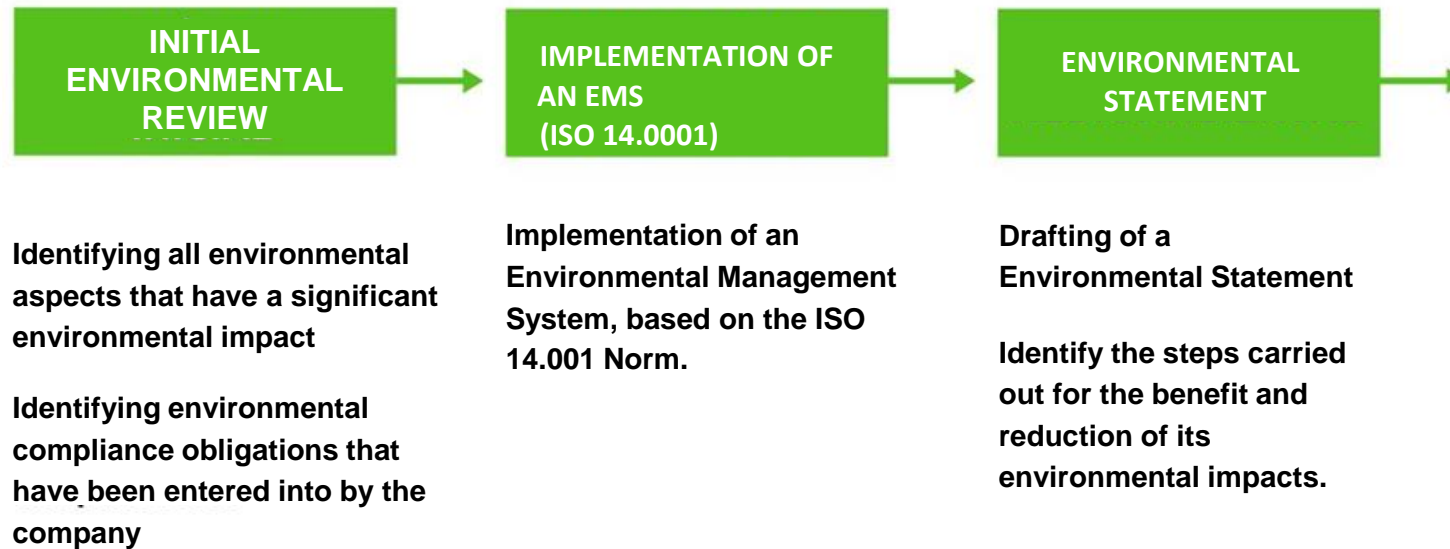


Identifying all environmental aspects that have a significant environmental impact

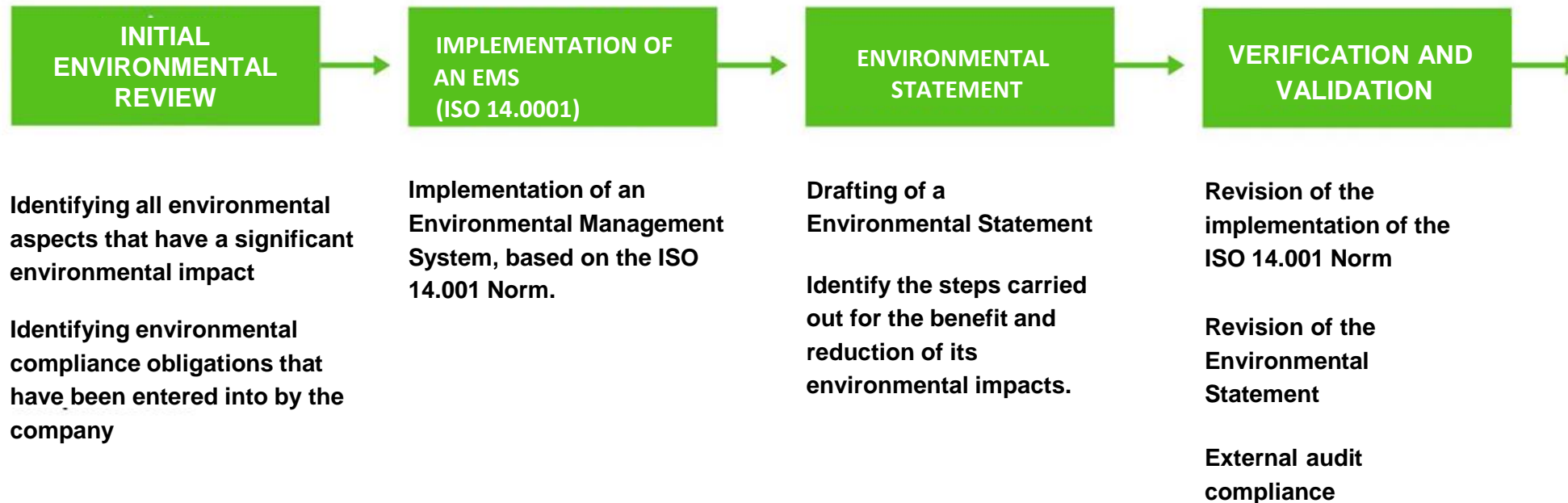
Identifying environmental compliance obligations that have been entered into by the company

Implementation of an Environmental Management System, based on the ISO 14.001 Norm.

# STAGES OF IMPLEMENTATION AND EMAS (III)<sup>3</sup> CERTIFICATION

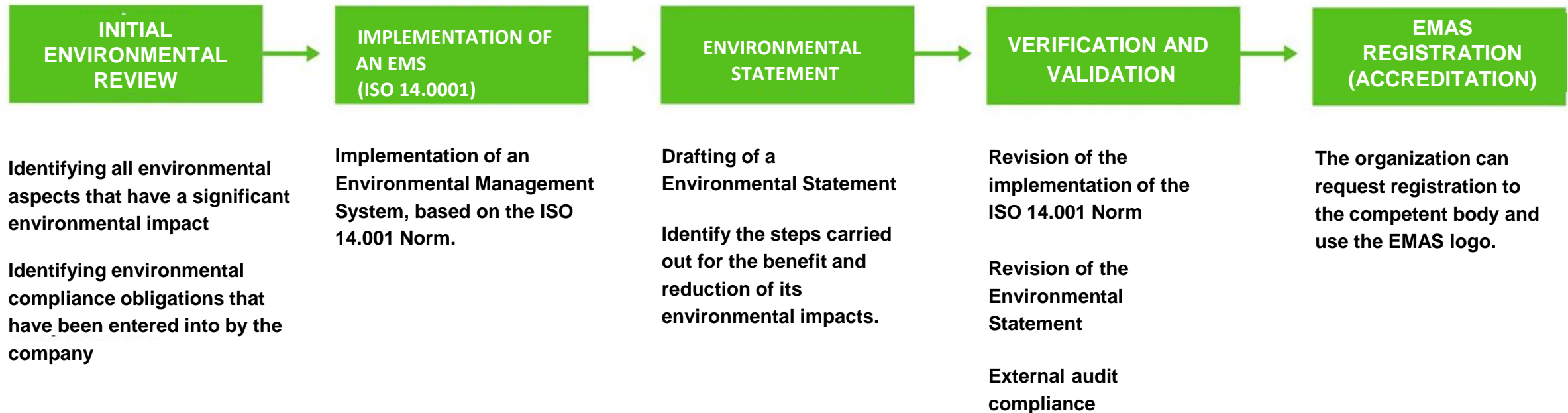


# STAGES OF IMPLEMENTATION AND **EMAS (III)**<sup>3</sup> CERTIFICATION





# STAGES OF IMPLEMENTATION AND **EMAS (III)**<sup>3</sup> CERTIFICATION



# **ECOPORT-PERS (Port Environmental Review System) ENVIRONMENTAL MANAGEMENT SYSTEM**

# WHAT IS THE ENVIRONMENTAL MANAGEMENT SYSTEM **ECOPORTS PERS**<sup>4</sup>?

- EcoPorts is the principal environmental initiative of the European port sector.
- The guiding principle of EcoPorts is to raise awareness about environmental protection through cooperation and knowledge exchange between ports and improve environmental management.
- Portal EcoPorts [www.ecoports.com](http://www.ecoports.com) - For ports and terminals out of (ECOSLC, [ww.ecoslc.edu](http://ww.ecoslc.edu))

# STEPS FOR ECOPORTS PERS CERTIFICATION

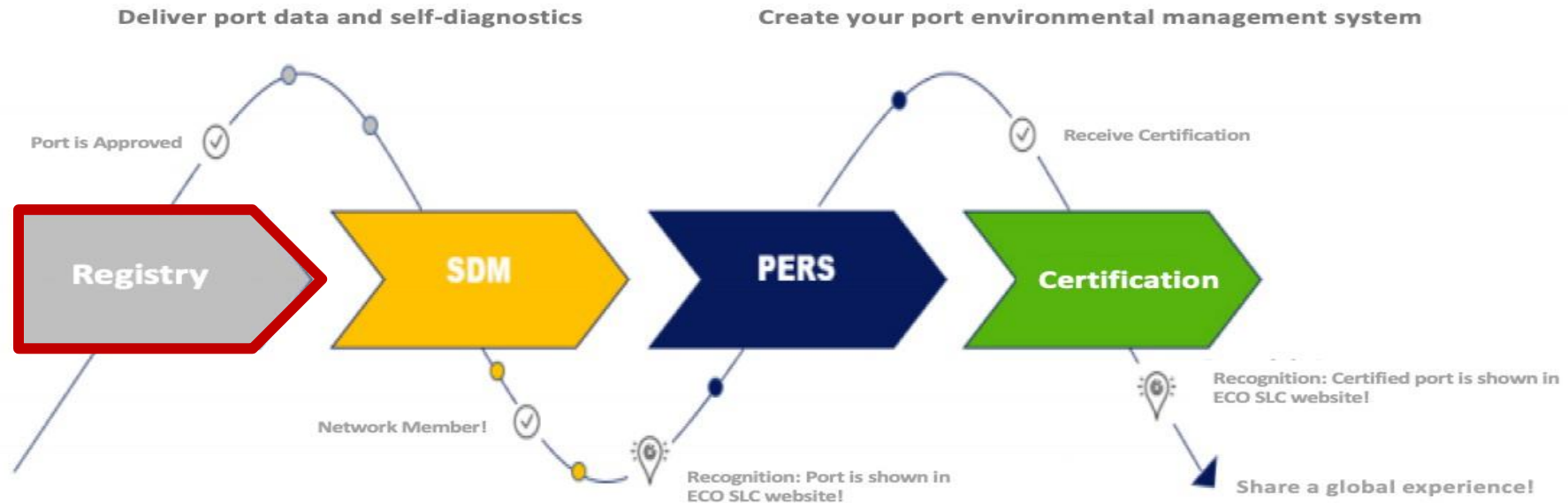
1. Registration of the port organization, providing information about its location and port profile data.
2. Completing the SDM (Self Diagnosis Method) consists of a checklist of environmental aspects and risks of the organization.
3. Implementation of the PERS (Port Environmental Review System) in accordance with the system documentation and guidelines.
4. Audit inspection will be conducted by an external agency -hired by EcoSLC.
5. Submission of the report with the most important findings with respect to conformance with the PERS standard. If PERS certification is successfully achieved, the port is formally recognized as a “Certified PERS EcoPorts Port,” which is valid for two years.

# ENVIRONMENTAL MANAGEMENT SYSTEM ECOPORTS PERS CERTIFICATION



## ECOSLC CERTIFICATION / ECOPORTS: PROCESS STEPS

**ECO SLC**  
Sustainable Logistic Chain



● Complete: Location Information

● Complete and send SDM

● Receive PERS guidelines and standards, create and submit your PERS-based Environmental Management System

● Complete: Port Profile

● Receive a review of your SDM rating: benchmark, conclusions, recommendations

● The independent auditor Lloyd's Register will review your PERS documents

# ENVIRONMENTAL MANAGEMENT SYSTEM ECOPORTS PERS CERTIFICATION

## A: Environmental Policy

### ENVIRONMENTAL POLICY DOCUMENT

- |   |   |
|---|---|
| A.1 Does the Port have an Environmental Policy?   | <input type="radio"/> Y <input type="radio"/> N * |
| <b>IF YES,</b>  |   |
| A.2 Is the Policy signed by Chief Executive / Senior Management?                                      | <input type="radio"/> Y <input type="radio"/> N   |
| A.3 Is the Policy communicated to all relevant stakeholders? [A.3]                                    | <input type="radio"/> Y <input type="radio"/> N   |
| A.4 Is the policy communicated to all employees? [A.4]  | <input type="radio"/> Y <input type="radio"/> N   |
| A.5 Is the policy publicly available on the Port's Website?   | <input type="radio"/> Y <input type="radio"/> N   |
| <b>Does the Policy include reference to:</b>  |   |
| A.6 Major objectives?   | <input type="radio"/> Y <input type="radio"/> N   |
| A.7 Publication of an Environmental Report?   | <input type="radio"/> Y <input type="radio"/> N   |
| A.8 The identification and control of the port's Significant Environmental Aspects?                   | <input type="radio"/> Y <input type="radio"/> N   |
| A.9 Continual improvement?  | <input type="radio"/> Y <input type="radio"/> N   |
| A.10 Prevention of pollution?   | <input type="radio"/> Y <input type="radio"/> N   |
| A.11 Training employees in environmental issues?  | <input type="radio"/> Y <input type="radio"/> N   |
| A.12 Introduction/maintenance of an Environmental Management System?                                  | <input type="radio"/> Y <input type="radio"/> N   |
| A.13 Reduction of resource consumption?   | <input type="radio"/> Y <input type="radio"/> N   |
| A.14 Improvement of environmental standards beyond those required under legislation? [A.14]           | <input type="radio"/> Y <input type="radio"/> N   |
| A.15 Environmental management of main aspects within the port area (including Tenants and Operators)? | <input type="radio"/> Y <input type="radio"/> N   |

# ENVIRONMENTAL MANAGEMENT SYSTEM ECOPORTS PERS CERTIFICATION



**CIP** Inter-American  
Committee on Ports

Gap Analysis:		PERS 60.71%	ISO 48.68%	Answers	SWOT	ANS(%)	YES(%)	NO(%)
A.1	Does the Port have an Environmental Policy?				S1	100,0%	87,8%	12,2%
A.2	IF YES,Is the Policy signed by Chief Executive / Senior Management?				S2	89,8%	90,9%	9,1%
A.3	IF YES,Is the Policy communicated to all relevant stakeholders?				S3	89,8%	88,6%	11,4%
A.4	IF YES,Is the policy communicated to all employees?				O1	89,8%	84,1%	15,9%
A.5	IF YES,Is the policy publicly available on the Port's Website?				O2			
A.6	Does the Policy include reference to:Major objectives?				S4	89,8%	90,9%	9,1%
A.7	Does the Policy include reference to:Publication of an Environmental Report?				O3	87,8%	65,1%	34,9%
A.8	Does the Policy include reference to:The identification and control of the port's Significant Environmental Aspects?				S5			
A.9	Does the Policy include reference to:Continual improvement?				S6	89,8%	93,2%	6,8%
A.10	Does the Policy include reference to:Prevention of pollution?				S7	73,5%	86,1%	13,9%
A.11	Does the Policy include reference to:Training employees in environmental issues?				O4	89,8%	75,0%	25,0%



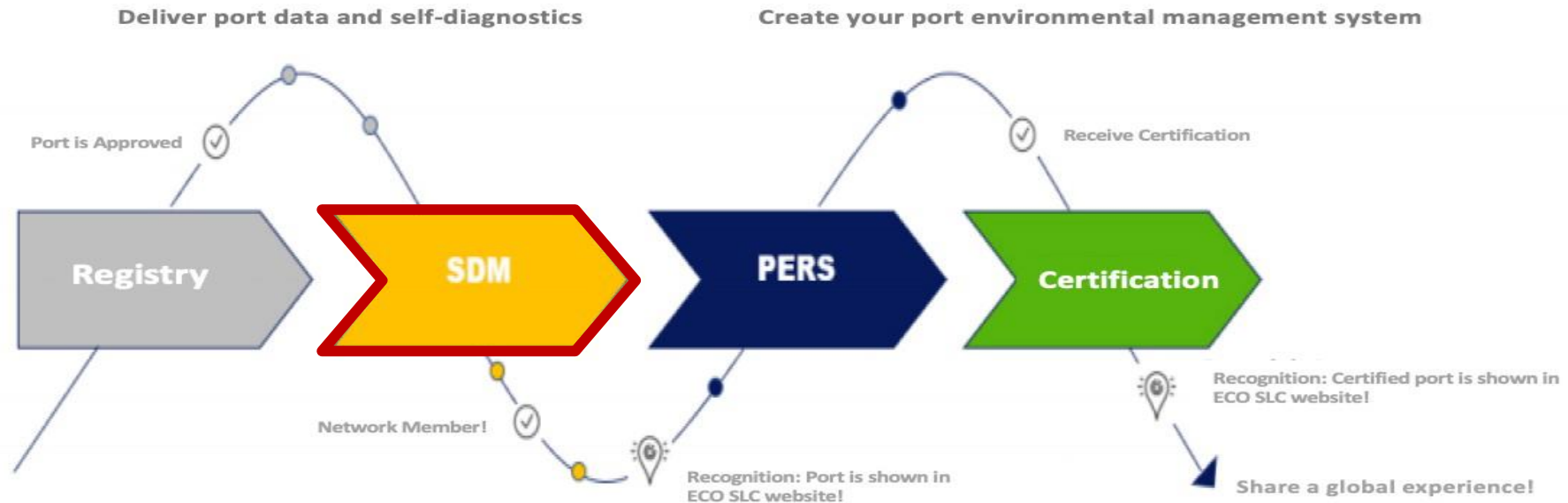
# ENVIRONMENTAL MANAGEMENT SYSTEM

## ECOPORTS PERS CERTIFICATION



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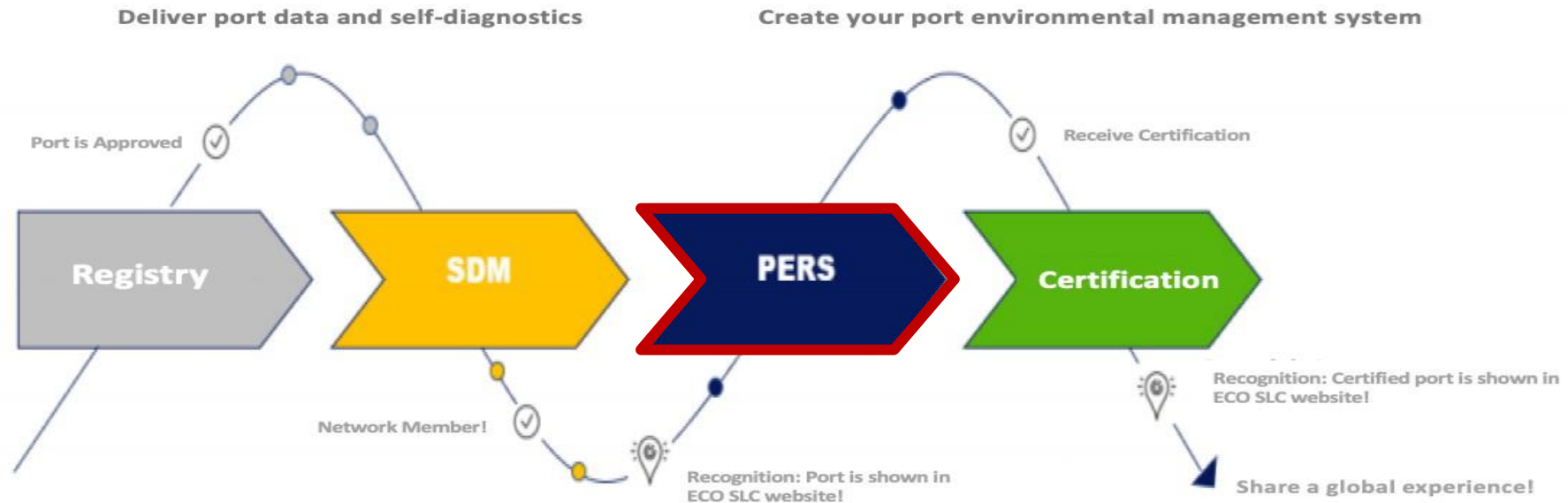


# ENVIRONMENTAL MANAGEMENT SYSTEM ECOPORTS PERS CERTIFICATION



## ECOSLC CERTIFICATION / ECOPORTS: PROCESS STEPS

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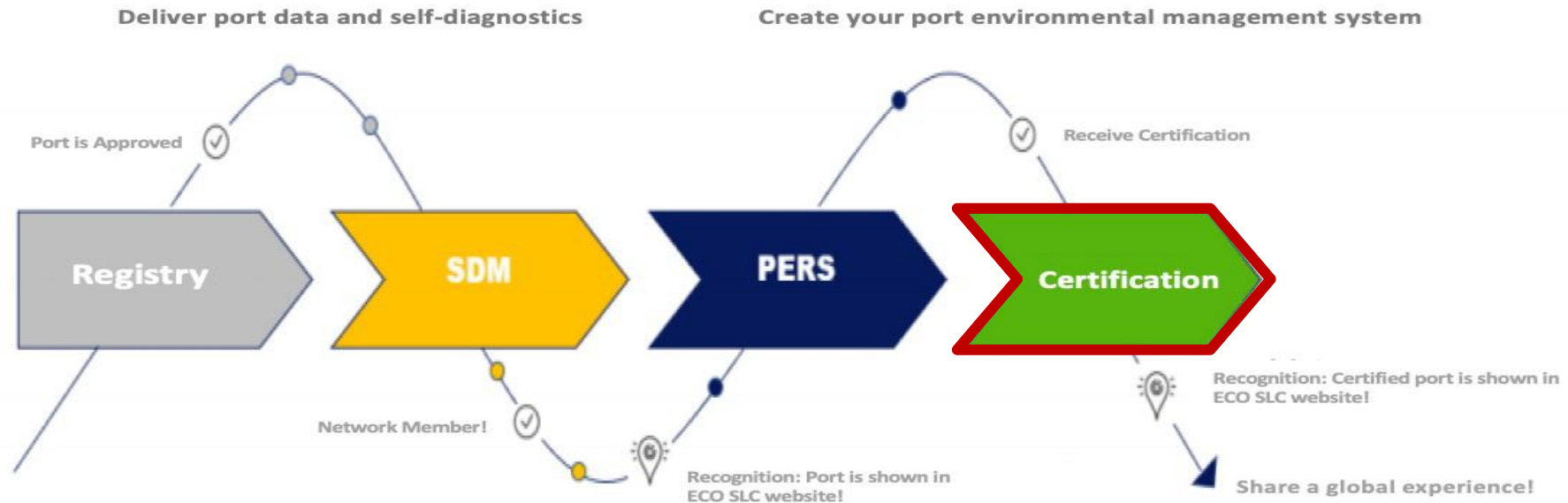
# ENVIRONMENTAL MANAGEMENT SYSTEM

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# **COMMERCIAL, SOCIAL AND ENVIRONMENTAL BENEFITS AND ADVANTAGES OF BEING A GREEN PORT**

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## 1. REDUCTION OF WASTE, COSTS, AND INCREASED



# COMMERCIAL, SOCIAL AND ENVIRONMENTAL BENEFITS AND ADVANTAGES OF BEING A GREEN PORT

## 1. REDUCTION OF WASTE, COSTS, AND INCREASED



## 2. TIMELY COMPLIANCE WITH LEGAL REQUIREMENTS AND OTHER REGULATIONS

It is essential for ports to comply with environmental regulations, rules and statutory requirements in their places of business

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## 3. STRENGTHENING REPUTATION

Complying with and ensuring environmental practices and standards in port activities and operations, following the adoption and certification of an environmental management system or of a higher recognition, such as EcoPorts PERS, promotes transparency and improves reputation

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## 4. INFORMATION AND ENGAGEMENT WITH STAKEHOLDERS

The aim of this engagement is to link environmental actions and projects to the demands and needs of stakeholders or interested parties. This engagement should go hand-in-hand with the port getting into the habit of actively listening on an ongoing basis to the groups that have fundamental issues with, and are impacted by, its operation.

# **SUCCESSFUL EXPERIENCES OF LATIN AMERICAN PORTS WITH INTERNATIONALLY RECOGNIZED ENVIRONMENTAL CERTIFICATIONS**



# Successful Experiences of LA Ports with ISO 14001, Ecoports and others

1. Empresa Portuaria Antofagasta (Chile).
2. Grupo Puerto de Cartagena : Sociedad Portuaria Regional de Cartagena SPRC y Terminal de Contenedores de Cartagena CONTECAR (Colombia).
3. Autoridad Portuaria de Montevideo (Uruguay).
4. Administración Portuaria Integral de Lázaro Cárdenas (México).
5. Administración Portuaria Integral de Ensenada (México).
6. Administración Portuaria Integral de Dos Bocas (México).
7. Porto do Açu (Brasil).
8. Puerto de Bahía Blanca (Argentina).
9. Sociedad Portuaria Riverport S.A. (Colombia).
10. Andipuerto Guayaquil S.A. Terminal Portuario (Ecuador).

There are other ports that are also outstanding in the area of environmental management, such as **Sociedad Portuaria Santa Marta** (Colombia), **Puerto Ventanas** (Chile), **Tisur** (Perú), **DP World Callao**, **Posorja** (Ecuador) y **Caucedo** (Dominican Republic), **Puerto Cortes** filial de ICTSI (Honduras), APM **Puerto Moín** (Costa Rica), **Terminal Pacífico Sur** y **Terminal Puerto Arica** (Chile), they will be mentioned below in this presentation. (sustainability strategy).

# **SUSTAINABILITY INTERNATIONALLY STANDARDS, REPORTING GUIDELINES**

# **GRI STANDARD (GUIDELINES)**

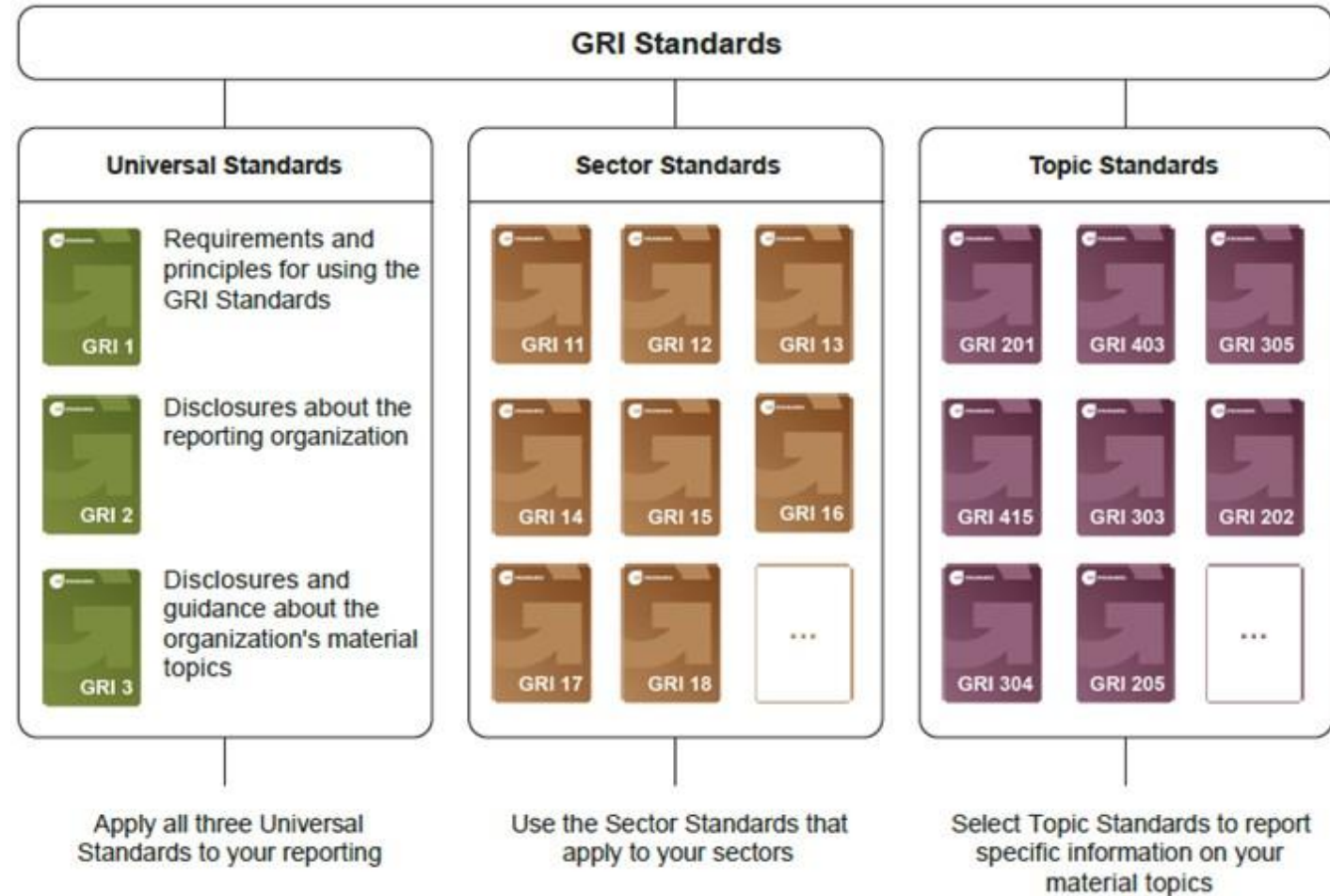
## **Global Reporting Initiative**

# GLOBAL REPORTING INITIATIVE (GRI)

## SUSTAINABILITY REPORTING GUIDELINES

GRI (Global Reporting Initiative) is a non-profit, independent, international organization, founded in the United States in 1997.

Coalition for Environmentally Responsible Economies (CERES), the United Nations Environment Program (UNEP) and the Tellus Institute.



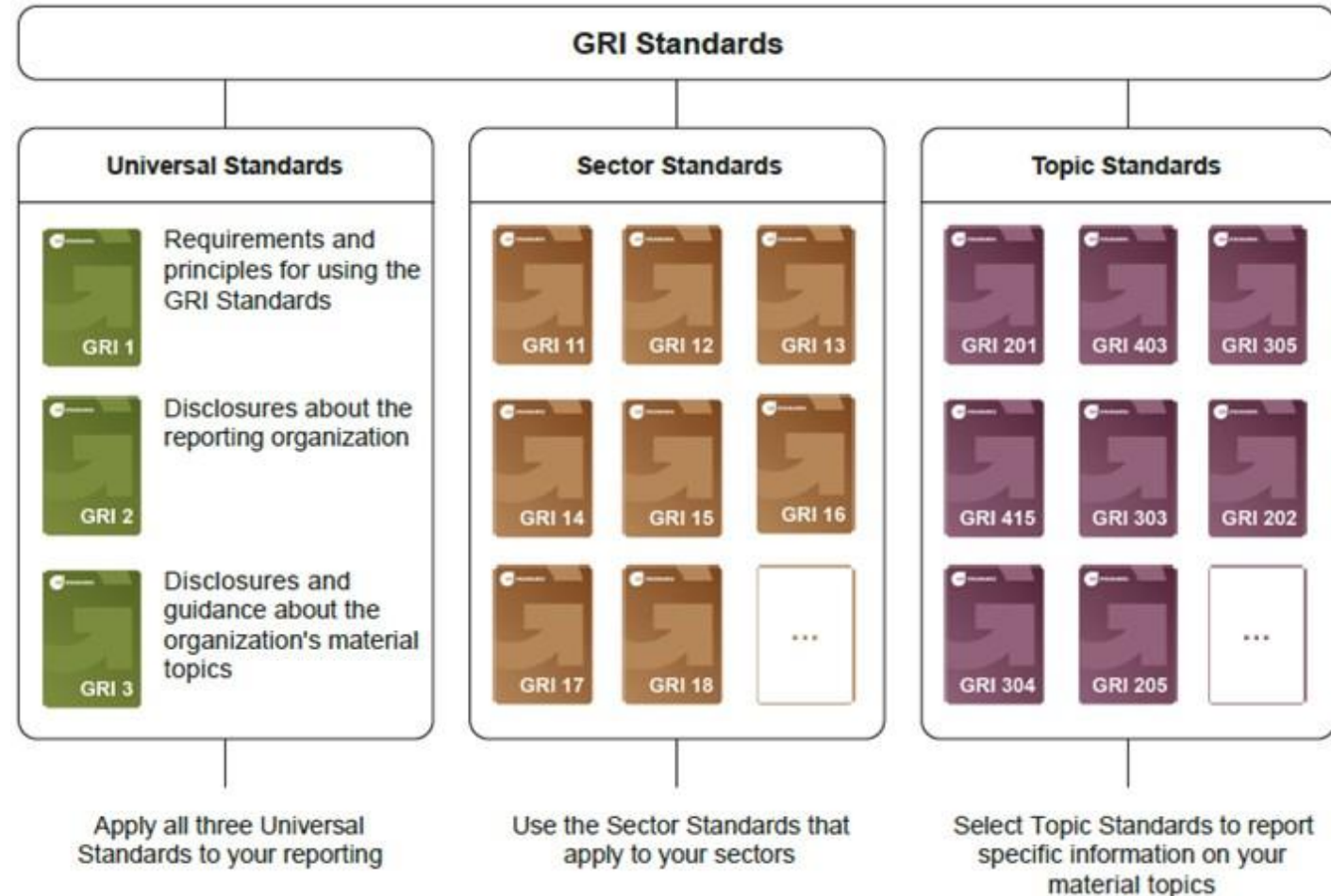
# GLOBAL REPORTING INITIATIVE (GRI)

## SUSTAINABILITY REPORTING GUIDELINES

In 2019, a new review process . This latest update came into effect reporting purposes in January 2023.

The GRI Standards are structured into three series: GRI Universal Standards, GRI Sector Standards, and GRI Topic Standards.

- GRI1-GRI2-GRI3: Requirements, disclosures and guidance about principles, organization and material topics..
- Sector Standard: provide information to the organization about its potential material topics.
- Estándares Temáticos: include content for the organization to present information about its specific impacts.



# GLOBAL REPORTING INITIATIVE (GRI)

## SUSTAINABILITY REPORTING GUIDELINES

### Key Concepts - Reporting principles - Reporting in accordance with the GRI Standard

A sustainability report is a document prepared by ports, based on “structured guidelines,” that is aimed at the interested parties or stakeholders of the ports’ area or sphere of influence, and contains relevant information about their economic, environmental, social, and corporate governance performance.

#### Preparation of Reports

#### KEY CONCEPTS

**IMPACT**

**MATERIAL TOPICS**

**DUE DILIGENCE**

**STAKEHOLDERS**

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Preparation of Reports KEY CONCEPTS	Preparation of Reports REPORTING PRINCIPLES
IMPACT MATERIAL TOPICS DUE DILIGENCE STAKEHOLDERS	ACCURACY BALANCE CLARITY COMPLETENESS COMPARABILITY SUSTAINABILITY CONTEXT TIMELINESS VERIFIABILITY

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Preparation of Reports KEY CONCEPTS	Preparation of Reports REPORTING PRINCIPLES	Preparation of Reports REQUIREMENT (9)
IMPACT MATERIAL TOPICS DUE DILIGENCE STAKEHOLDERS	ACCURACY BALANCE CLARITY COMPLETENESS COMPARABILITY SUSTAINABILITY CONTEXT TIMELINESS VERIFIABILITY	REQ. 1: Apply the reporting principles. REQ. 2: Report the disclosures in <u>GRI 2</u> . REQ. 3: Determine material topics. REQ. 4: Report the disclosures in <u>GRI 3</u> . REQ. 5: Report disclosures <u>GRI Topic Std</u> REQ. 6: <u>Provide reasons</u> for omission. REQ. 7: Publish a GRI <u>content index</u> . REQ. 8: <u>Provide</u> a statement of use. REQ. 9: <u>Notify</u> GRI.



# **ESTÁNDAR SASB**

## **SUSTAINABILITY ACCOUNTING STANDARDS BOARD**

# SUSTAINABILITY ACCOUNTING STANDARDS BOARD (SASB)

**SASB** stands for “**Sustainability Accounting Standards Board**”: **SASB** enable organizations to provide information on sustainability-related risks and opportunities that could reasonably affect their financial/economic growth stability (cash flow) and access to credit or financing in the short, medium, or long term.

- In the SASB regulatory standard, sustainability topics are grouped into five dimensions: environment, human capital, social capital, business model and innovation, and leadership and governance.
- SASB identifies the most relevant sustainability aspects in 77 industry sectors, which are grouped into 11 types, such as i) consumer goods, ii) extractives and minerals, iii) finance, iv) food and beverages, v) healthcare, vi) infrastructure, vii) renewable resources and alternative energies, viii) resource transformation, ix) services, x) technology and communications, and xi) transportation.
- In detail, each standard includes the following: Disclosure topics + Accounting metrics + Technical protocols + Activity metrics.

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## Environment

- GHG Emissions
- Air Quality
- Energy Management
- Water & Wastewater Management
- Waste & Hazardous Materials Management
- Ecological Impacts



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## Human Capital

- Labor Practices
- Employee Health & Safety
- Employee Engagement, Diversity & Inclusion

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## Business Model & Innovation

- Product Design & Lifecycle Management
- Business Model Resilience
- Supply Chain Management
- Materials Sourcing & Efficiency
- Physical Impacts of Climate Change

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- Product Design & Lifecycle Management
- Business Model Resilience
- Supply Chain Management
- Materials Sourcing & Efficiency
- Physical Impacts of Climate Change

## Leadership & Governance

- Business Ethics
- Competitive Behavior
- Management of the Legal & Regulatory Environment
- Critical Incident Risk Management
- Systemic Risk Management



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## Environment

- GHG Emissions
- Air Quality
- Energy Management
- Water & Wastewater Management
- Waste & Hazardous Materials Management
- Ecological Impacts

## Social Capital

- Human Rights & Community Relations
- Customer Privacy
- Data Security
- Access & Affordability
- Product Quality & Safety
- Customer Welfare
- Selling Practices & Product Labeling



## Human Capital

- Labor Practices
- Employee Health & Safety
- Employee Engagement, Diversity & Inclusion

## Business Model & Innovation

- Product Design & Lifecycle Management
- Business Model Resilience
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- Business Ethics
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# **ESTÁNDAR ESG**

## **ENVIRONMENTAL, SOCIAL & GOVERNANCE**



# ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG)

Environmental, Social & Governance Standard: ESG standards stems from the need to define an information system and frameworks that serve as a reference for companies to achieve and report on the fulfillment of sustainable development goals (SDGs).

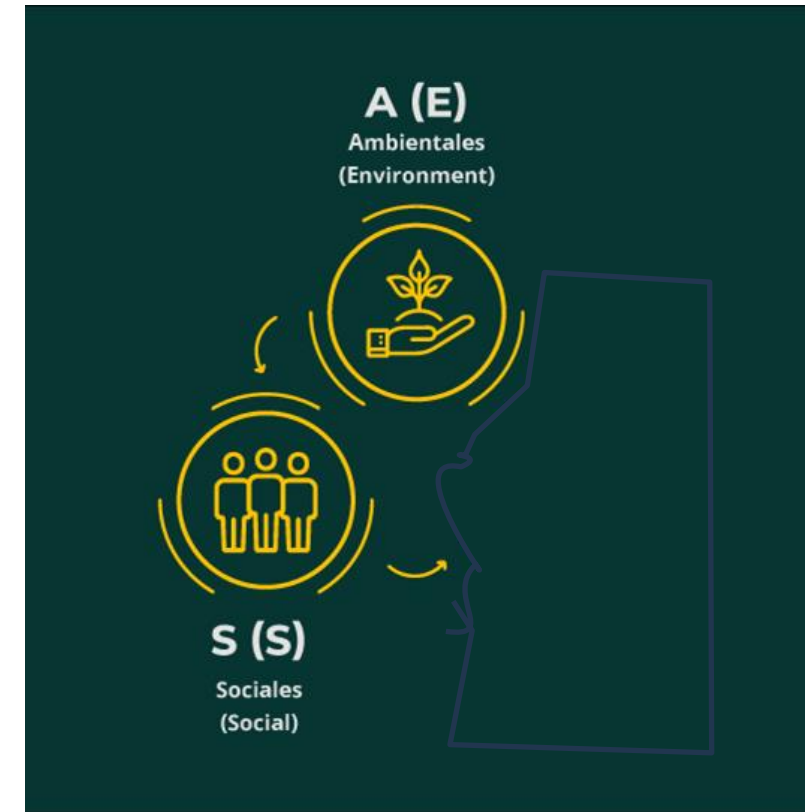
- **Environmental criteria:** Activities carried out by the organization that have a positive impact on the environment.



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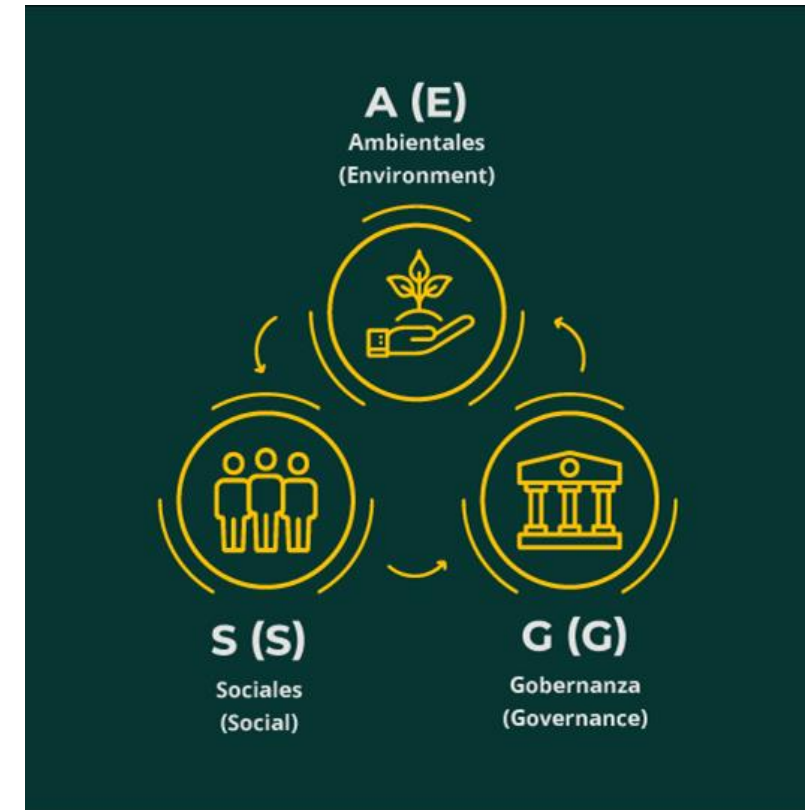
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- **Social criteria,** which mainly examine actions related to working conditions and respect for human rights.



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- **Environmental criteria:** Activities carried out by the organization that have a positive impact on the environment.
- **Social criteria,** which mainly examine actions related to working conditions and respect for human rights.
- **Corporate governance,** which refers to issues related to the corporate governance of organizations, their corporate quality, culture, and management processes, among others.

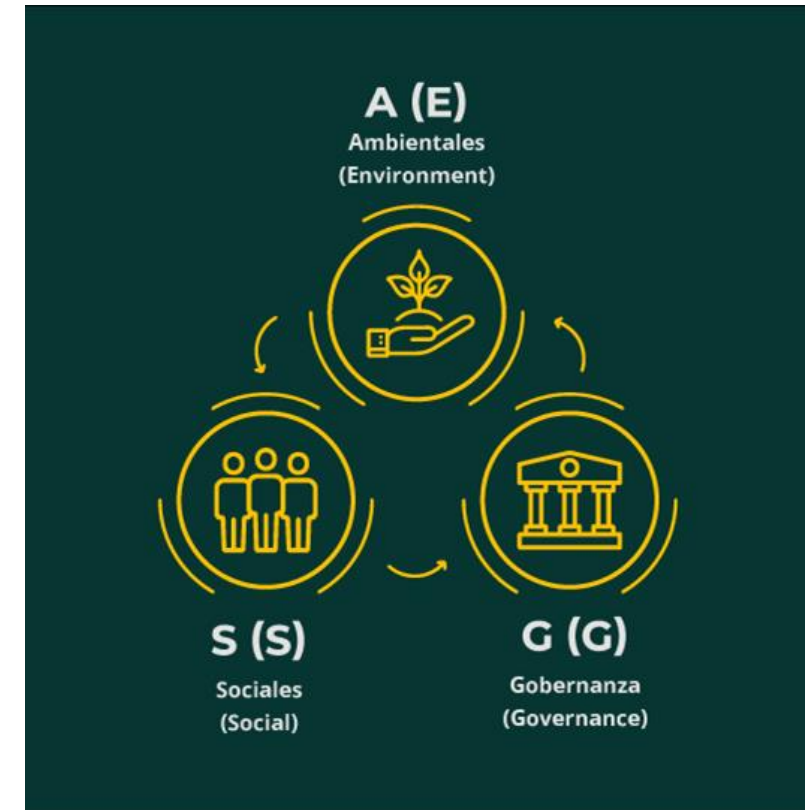


# ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG)

**Environmental, Social & Governance Standard:** ESG standards stems from the need to define an information system and frameworks that serve as a reference for companies to achieve and report on the fulfillment of sustainable development goals (SDGs).

**A well-defined ESG/ASG policy is no longer optional, but a necessity, some reasons for this are:**

- Risk management +
- Competitive advantage +
- Regulatory compliance +
- Stakeholder expectations +
- Long-term value creation +
- Access to capital +
- Brand reputation).



# COMMERCIAL, SOCIAL AND ENVIRONMENTAL BENEFITS AND ADVANTAGES TO A PORT WITH SUSTAINABILITY REPORTING

# COMMERCIAL, SOCIAL AND ENVIRONMENTAL BENEFITS AND ADVANTAGES TO A PORT IN SUSTAINABILITY REPORTING

## INTERNAL BENEFITS

1. Strategic Vision.
2. Financial Outcomes.
3. Innovation, waste reduction and efficiency
4. Motivation and loyalty to the persons working under the control of the organization
5. Timely compliance with legal requirements and other rules and regulations

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5. Timely compliance with legal requirements and other rules and regulations

## EXTERNAL BENEFITS

1. Corporate Reputation
2. Competitive Advantage
3. Access to Capital or sources of financing
4. Stakeholder Engagement

# **SUCCESSFUL EXPERIENCES OF SUSTAINABILITY REPORTING IN LATIN AMERICAN PORTS**



# SUCCESSFUL EXPERIENCES OF SUSTAINABILITY REPORTING IN LATIN AMERICAN PORTS

1. **DP World Callao** (Perú) y otros terminales del grupo: **DP World Posorja** (Ecuador) y **DP World Caucedo** (República Dominicana).
2. **Puerto Cortes** (Honduras).
3. **Sociedad Portuaria Santa Marta** - SPSM (Colombia).
4. **Terminal Pacífico Sur S.A.** – TPS (Chile).
5. **Puerto Ventanas S.A.** – PVSA (Chile).
6. **Terminal Internacional del Sur** - Tisur (Perú).
7. **Terminal Puerto Arica** - TPA (Chile).
8. **Grupo Puerto de Cartagena**: Sociedad Portuaria Regional de Cartagena - Terminal de Contenedores de Cartagena (Colombia).
9. **Empresa Portuaria Antofagasta** (Chile).
10. **Puerto de Moín** - Limón (Costa Rica).

# SUCCESSFUL EXPERIENCES OF SUSTAINABILITY REPORTING IN LATIN AMERICAN PORTS

## 1. REPORT STYLE AND STRUCTURE

- Some reports are released with economic outcomes or financial statements.
- There are other port terminals that do not publish sustainability reports directly because, as they are part of a corporate organization, it is the latter that is responsible for consolidating the sustainable management of the group of companies.
- The 2024 integrated reports of Puerto Ventanas, Empresa Portuaria Antofagasta, and Empresa Portuaria Arica, Terminal Puerto Arica follow the guidelines of the IIRC (International Integrated Reporting Council) Integrated Reporting model, in accordance with International Financial Reporting Standards (IFRS), issued by the International Accounting Standards Board (IASB).
- The reports from DP World Callao (2024), Terminal Pacífico Sur (2024), and Puerto Cortés (through OPC Operadora Portuaria Centroamericana, a subsidiary of ICTSI International Container Terminal Services Inc.) have been prepared in accordance with the Global Reporting Initiative (GRI) Standards. Terminal Pacífico Sur also includes General Standard No. 461 of the Chilean Financial Market Commission (CMF).

# SUCCESSFUL EXPERIENCES OF SUSTAINABILITY REPORTING IN LATIN AMERICAN PORTS

## 2. EVOLUTION OF REPORTING

- Several ports publish sustainability reports, while others publish Environmental Reports.
- Puerto Ventanas highlights the systematic work to strengthen its ties with the local community.
- Terminal Puerto Arica – TPA | Terminal Pacífico Sur – TPS, annual integrated GRI reports.
- Tisur has prepared environmental reports, but no information is available on new reports.
- DP World Callao: GRI methodology. In 2022-2023, DP World Callao (DPWC) incorporated DP World Logistics (DPWL).

# SUCCESSFUL EXPERIENCES OF SUSTAINABILITY REPORTING IN LATIN AMERICAN PORTS

## 3. GENERALITIES AND OUTSTANDING ASPECTS OF REPORTS

- General Description (mission, vision, values, their certifications, among other aspects).
- Corporate Governance Practices. They all mention the ethics and integrity of the governance.
- All reports have a section to communicate aspects about the persons working under the control of the organization (staff size, diversity -by age range, seniority, gender, among other traits-, equality of remuneration, labor practices and decent work.
- In some reports, the port company's commitment to the occupational health and safety of its workers is explained and, for that purpose, they report on indicators of accidents and their evolution over time.
- A notable aspect of some reports is the incorporation or alignment with guiding principles such as the SDGs - United Nations Sustainable Development Goals.
- Management and development of innovation culture (PVSA and TPA).

# SUCCESSFUL EXPERIENCES OF SUSTAINABILITY REPORTING IN LATIN AMERICAN PORTS

## 4. COMMUNITY AND ENGAGEMENT

- All reports analyzed contain a special section on engagement and management vis-à-vis the communities living in their area of influence.

## 5. ENVIRONMENTAL MANAGEMENT

- ISO 14.001:2015 Environmental Management System certified | Ecoports.
- Energy efficiency policies (ISO 50.001).
- Analysis of CO<sub>2</sub> emissions, materials consumption, fuel consumption, electrical energy consumption, water consumption solid and liquid waste treatment, and biodiversity.