



**Mauricio Suárez Ramírez:**

*“The sustainable development of a port terminal in  
the heart of the most  
beautiful Colombian bay”*



# WHERE IS COLOMBIA??



Population: 46 millions

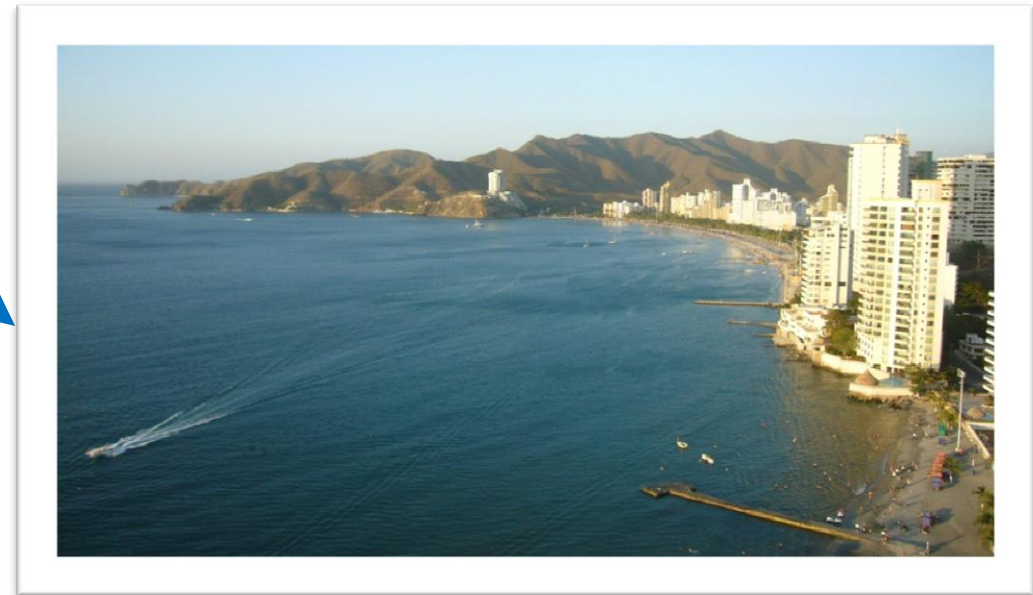
GDIP: 439.1 billions

MONEY: PESOS

1 US DOLLAR = 2,900 PESOS

Exit by 2 oceans: Atlantic(North) Pacific(east)

# WE ARE A STRATEGICALLY LOCATED PORT WITH A BIG RESPONSIBILITY



The Port of Santa Marta is located at the north of Colombia, In Santa Marta. Is a City with 400 thousand people, in front the Atlantic Ocean and is on an emblematic area of the world because of its biodiversity. We adjoin the National Park Tayrona, Colombia's "Ambassador National Park" to the outside world.



# Natural Resources

## Tayrona National Park



Sierra Nevada of Santa  
Marta

# SPSM HOLDING WHO ARE WE?




- Port of Santa Marta began operations in year 1993 under a concession granted by the Colombian Government initially for 20 years and later extended until year 2033.
- It has established important alliances with partners such as SSA Marine.
- Port of Santa Marta has invested more than U\$D 162 MM in the Port of Santa.
- Multipurpose logistic terminal of the city of Santa Marta
- Deep water port with natural depth with more than 120 feet

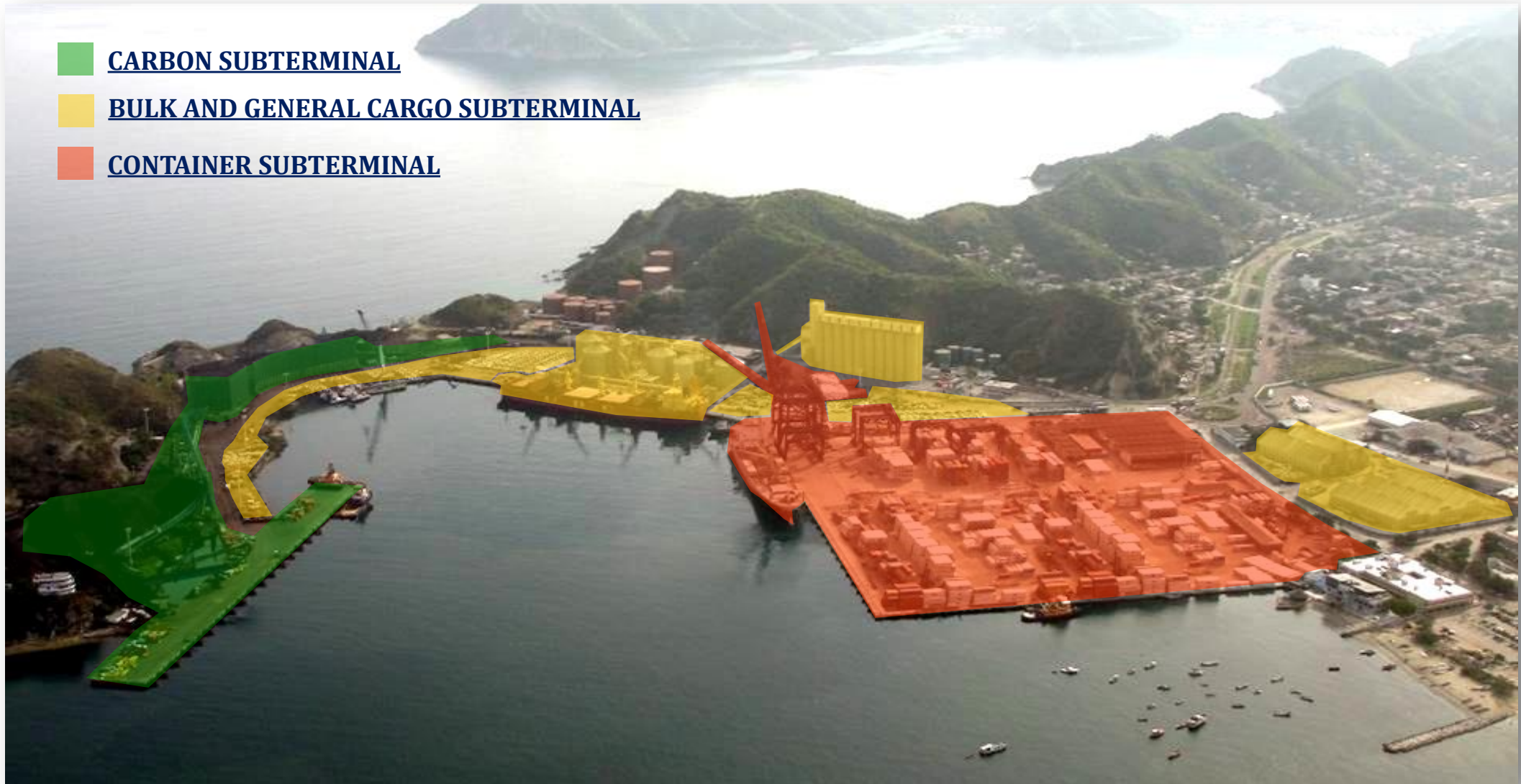
## **CORPORATE THESIS ABOUT SUSTAINABILITY IN PORTS**

“Globalized corporations assume new challenges that must be acquired with fortitude and accompanied by high corporate values, especially the protection of the environment, giving responsible use to the resources that mother earth offers us, always looking into that future generations will demand in equal measure of them, as well as a responsible job with the communities that are most in need from the city of Santa Marta an issue that makes us enter globalization in a responsible manner, always wanting to offer safe, efficient port services, but first and foremost in a sustainable way.”



# OUR PORT

-  CARBON SUBTERMINAL
-  BULK AND GENERAL CARGO SUBTERMINAL
-  CONTAINER SUBTERMINAL



# COAL SUBTERMINAL

 **COAL SUBTERMINAL**





## BEFORE



## TODAY



Integrated Quality System (ISO 9001) and environmental management (ISO 14001) certified by SGS guaranteeing:

- Reliable operations
- Application of the best environmental practices



# RECEIPT, COLLECTION AND LOAD PROCESS



**STEP 1 UNLOAD IN  
SPECIALIZED TIPPERS**



**STEP 2 STOCKPILE IN  
COURTYARDS**



**STEP 3 LOAD SHIP WITH DIRECT  
SYSTEM LOAD**



# ENVIRONMENTAL MANAGEMENT SYSTEM





# CONTROL OF EMISSIONS INTO DUMPING STRUCTURE



- ✓ Precipitation of coal particles by direct shock of water mist (5micras).
- ✓ Automatic nebulization system by inclinometer.

54%

Less water  
consumption

25kg/day of PM are  
ceased to be emitted  
into the atmosphere





# EMISSION CONTROL IN COLLECTION CENTERS

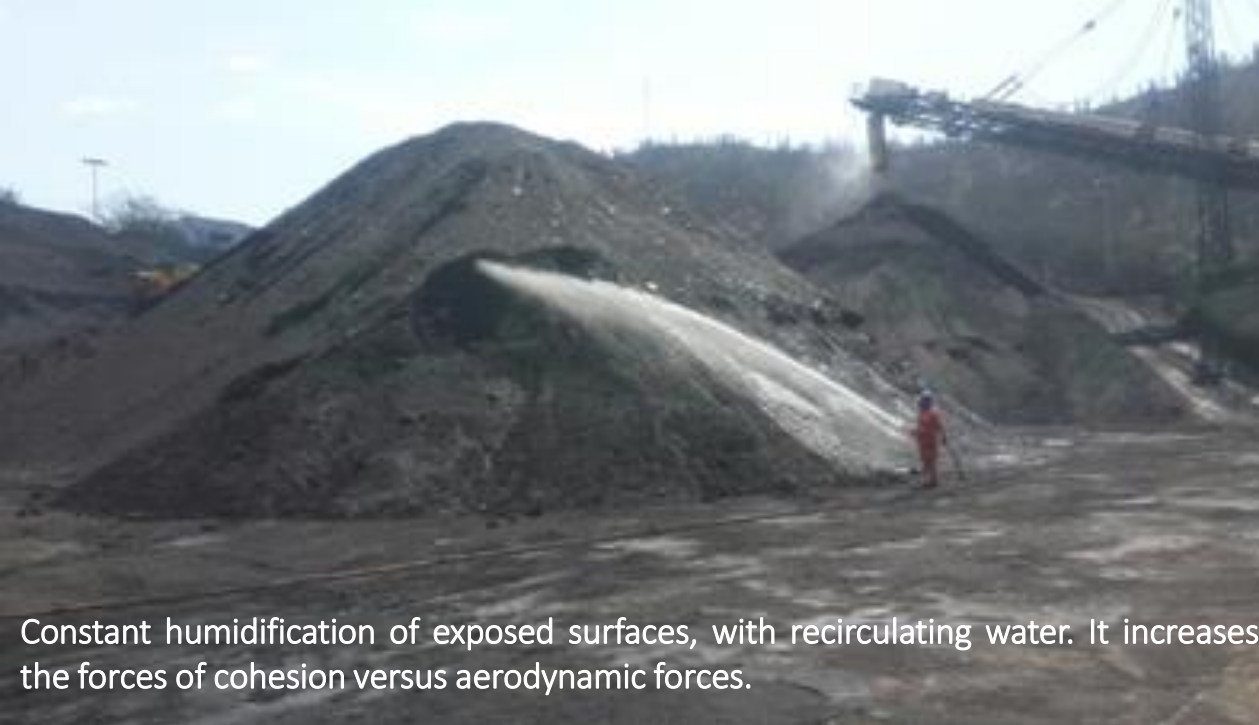


Vertical spray of fine particle and large area. It works governed by wind action



Passive control in Collection Centers

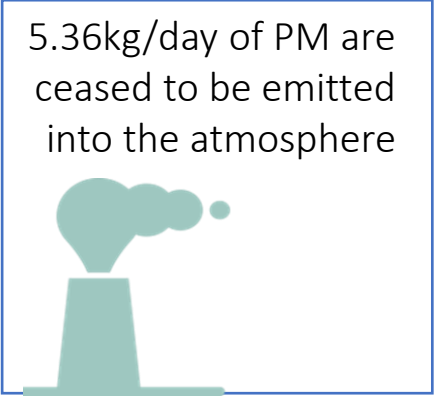
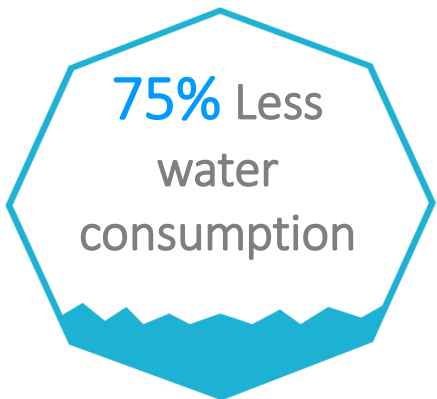




Constant humidification of exposed surfaces, with recirculating water. It increases the forces of cohesion versus aerodynamic forces.



Sealing of piles with polymers of natural origin - layer with resistance up to 80 km/hr



Prevention of resuspension with long-range spray over surface, large low area tasa.



# DIRECT LOAD SYSTEM SINCE 2003



5.36kg/day of PM  
are ceased to be  
emitted into the  
atmosphere

System of direct charge to ship in dock by ship loader  
with capacity of 34,000 Tons/day.





# EMISSION CONTROL IN LOAD OF SHIP

✓ Conveyor belts, isolated from the natural environment



✓ Nebulization in load hopper





# ADDITIONAL CONTROLS IN OPERATION

Control of process of remaining water from truck washing

Optimization and operation of  
truck washing station



29.600 lts of daily  
reused water in the  
washing process.

# ADDITIONAL CONTROLS IN OPERATION



Permanent control and supervision of the operation, speed and status of the equipment



Captation, treatment and reuse of water from trippers with traces of G and A.



Mechanical removal of material deposited in surface area.



Moisturization and application of biodegradable product on waterways for control of resuspension of the material by the traffic of vehicles.

90% Less water consumption



# MANAGING WATER IN COLLECTION CENTERS



Removal of supernatant by separation, for safe disposal afterwards.



1mm of precipitation in patios is equal to 50,000 liters of industrial wastewater captured, treated and recirculated.





**Protection of corals helps and promotes a healthy fishing environment, facilitating development of the artisanal fishermen of the Bay**



# WE WORK WITH SOCIAL RESPONSIBILITY FOR A SUSTANABLE DEVELOPMENT



Golden award for environmental responsibility by IAPH



2014 Americas Maritime award in the category of social responsibility at ports.

# VIDEO



# ECOPORTS CERTIFICATION



# VIDEO



# FEATURED PROGRAMS



**OPERATION SMILE PROGRAM**



**EDUCATION IMPROVEMENT PROJECT**



**MICROCREDIT PROGRAM**



**EARLY CHILDHOOD PROGRAM**



**INTERNATIONAL CHILDREN PROGRAM**



**BAY FISHERMEN PROGRAM**



**REMODELING OF LA CASTELLANA**



**WATERFRONT MAINTENANCE**



**¡THANK YOU!**

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