Corporate CV

AxisIMA® is an international consulting firm located in Mexico. Across 20 years, the firm has specialized in providing critical, integrated and innovative solutions for coastal engineering, environmental impact assessment, environmental management and renewable energy project development. AxisIMA® has developed more than 500 projects in North America, Central America and globally, including Mexico, Venezuela, Nicaragua, Peru, Belize, India and the United States.





- Ports & Coastal Zones
- Real Estate & Industrial
- Tourism & Commercial
- Oil & Gas
- Renewable Energy
- Mining

Background



Since 2004, AxisIMA has been implementing a self-developed methodology for the recovery of beaches subject to strong erosive processes. To date, more than 100 km have been successfully intervened between coastal protection and beach recovery in the Mexican southeast. Likewise, it has completed or ongoing projects on the subject in the USA, Central and South America, Belize and India.

In this period, AxisIMA has developed various registered tools for coastal design and monitoring that it already markets within its service package.



México Q USA O India Belize Nicaragua Ecuador Venezuela Perú

Engineered Solutions



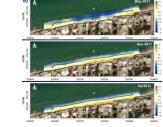
Beach Management



Restoration



Dune Cores

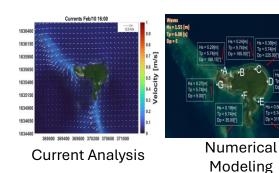


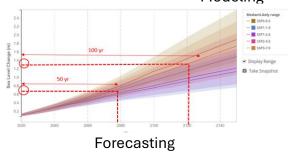
Stabilization



Artificial Beaches

Hydrodynamics, Forecasting & Analysis





Ports and Harbors



Project Model

Expansion Plan



Digital Elevation Model



Port Construction



Uaymitún, Yucatán, Mexico (2005)

Beach restoration completed in 2005, More than 18 years of stable beach

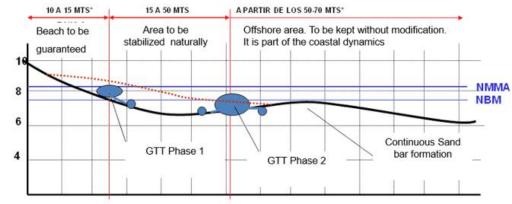




Pemex Beach Club, Cd del Carmen. Campeche, México

Beach recovery completed by AxisIMA in 2010



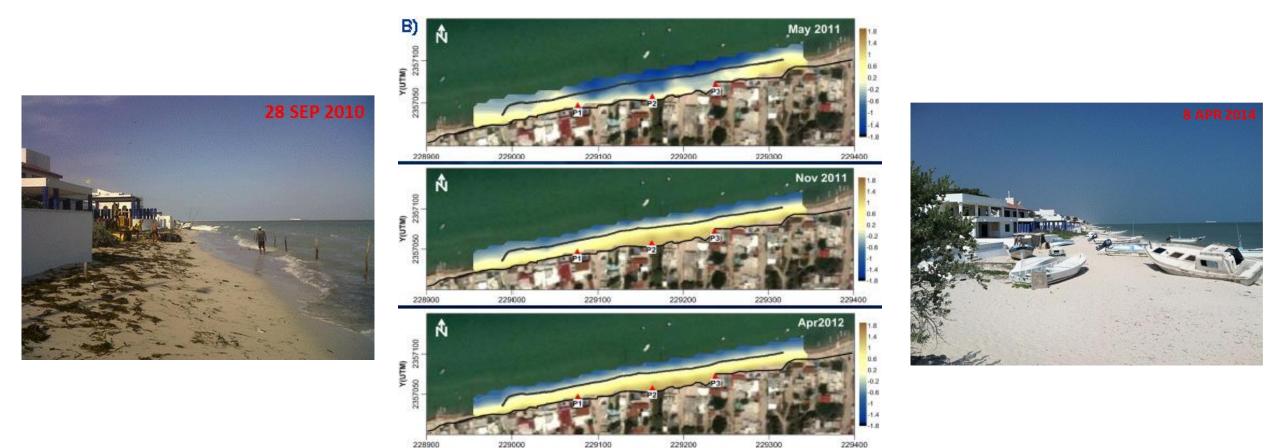


..... Beach stabilization, natural profile



Ima







Bahía de Potosí, Zihuatanejo, Mexico (2023)

The problem:

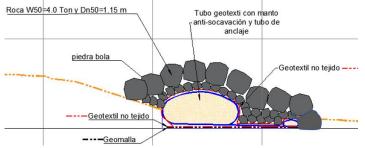
In the last 20 years, a large part of the Bahia de Potosí beach has been lost with erosion of the shoreline up to 70 meters. The first line of infrastructure formed by summer residences has been completely exposed to strong meteorological events with great damage to the buildings.





The solution:

A Rock fill structure with a core made up of textile tubes was installed to provide the infrastructure with protection capable of absorbing hurricane waves while presenting flexible behavior that adapts to marine dynamics.

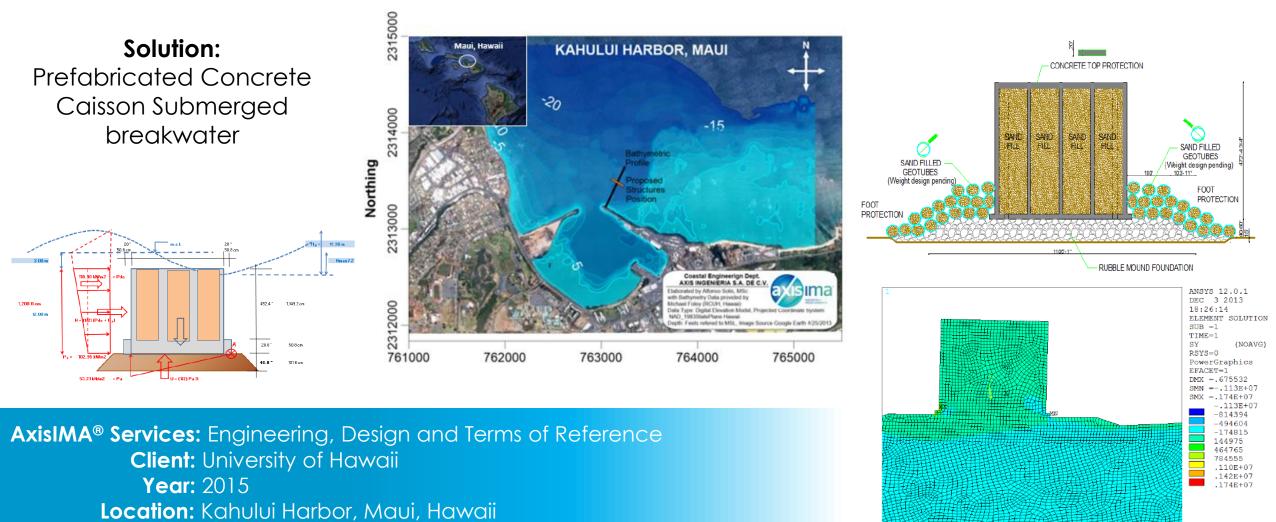


Turnkey project Includes:

Design and Engineering
Project and terms of reference
Construction
Implementation of the annual system
Monitoring and maintenance program



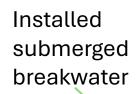
Kahului Harbor, Maui. (2015)

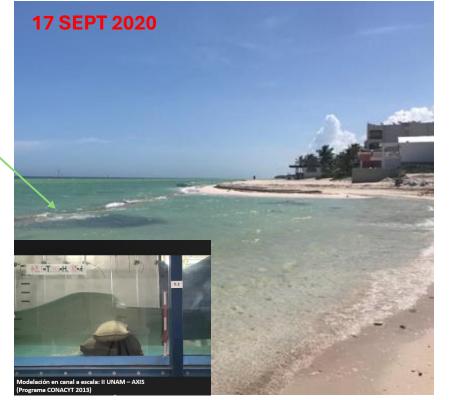


Length: 150 meters of submerged breakwater



Uaymitún, Yucatán, México (2020)







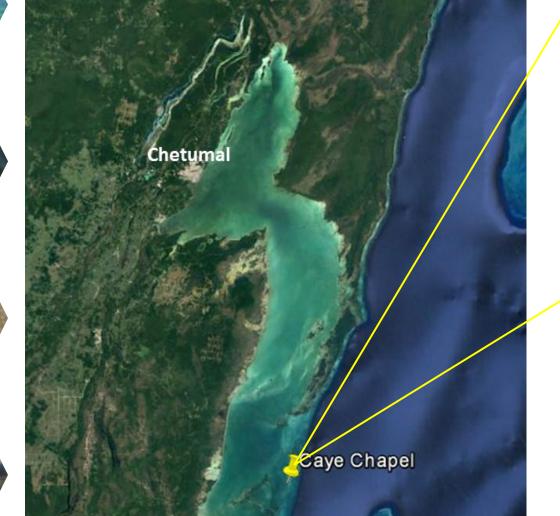
AxisIMA® Services: Turnkey Project: Engineering, Design, Terms of Reference, Environmental permits and execution Client: Residence owners Year: 2020 Location: Uaymitún, Yucatán, México



Dic 201

Mar 2017

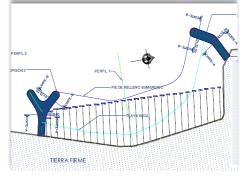
Caye Chapel, Belice (2017)





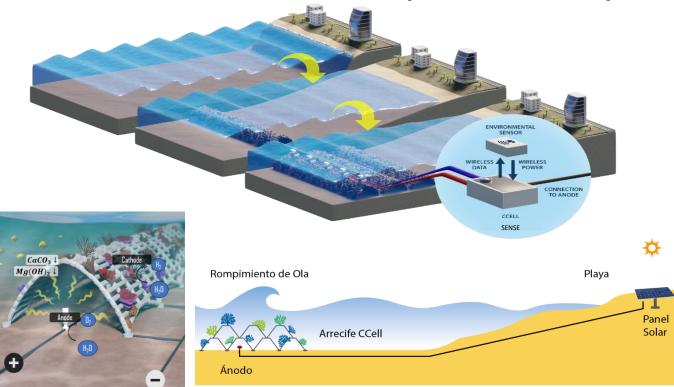
Design, project and execution turn-key modality

- Beach length: 230 meters
- □ Sand filling: 10,000 m3
- Breakwaters: 80 ml
- Rockfill: 400 m3
- □ Breakwater core: Geotextile Tubes
- □ Work duration: Dec 2016 Feb 2017
- □ Client: Thor Urbana Capital Group



Telchac, Yucatán (2020)

Recovery of coastal ecosystems and beach stabilization



Basic concept:

- Generate wave reduction for beach stabilization (technology developed by CCELL[®])
- 2) Generate rock base on reef for Coral growth















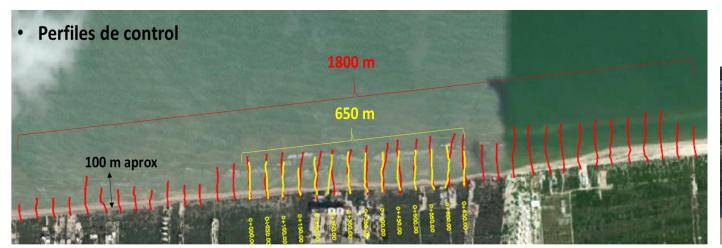




San Bruno Beach Case, Telchac, Mexico

Recovery of coastal ecosystems and beach stabilization

Analysis of alternatives, engineering and execution of turnkey modality beach recovery project.
Permanent Beach Management in a stretch of 1800 meters
Client: San Bruno Neighborhood Association – Kayab
Period: 2015 to date



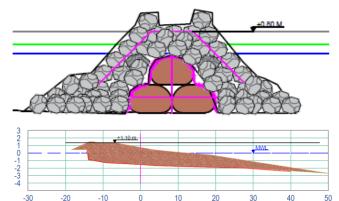




Caye Chapel, Belize (2023)



AxisIMA® Services: Field studies, alternatives analysis, design, and terms of reference Client: Grupo Thor Urba Year: 2023 Budget: USD 1,200,00

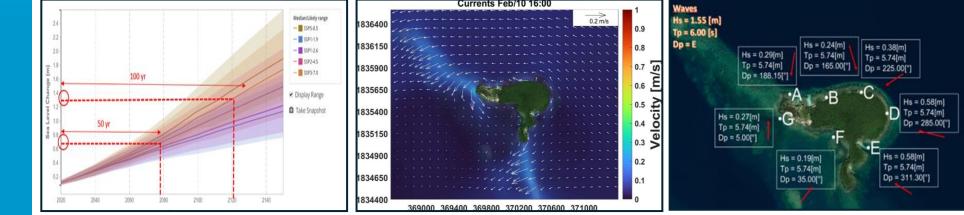


Description: Beach Length: 200 meters Beach area created: 6,300 m² Sand Volume: 27,600 m³ Rock Volume: 4,700 m³ Geotextile Tubes: 160 meters long, 240 m³



Caye Crawl, Belize (2023)





Coastal Hydrodynamics Study and Climate Change SSP Scenario Analysis

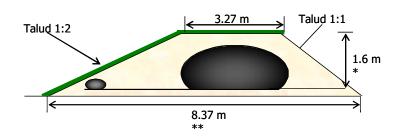
AxisIMA® Services: Field work (Bathymetry and Geology), Hydrodynamic studies and numerical modeling for the design of structures on the island and linking climate change with the expected increase in wave energy and risks to the island Client: Real Estate Developer Year: 2023



Yucatán, Mexico (2006-2023)

After the passage of Hurricane Wilma in October 2005, the coastal bar formed by the dune system that protected the inner marshland was severely damaged and destroyed in the areas of Las Coloradas Yucatán.

AxisIMA[®] Activities: Design, engineering, execution of the reconstruction of the dune and permanent monitoring and maintenance since 2006

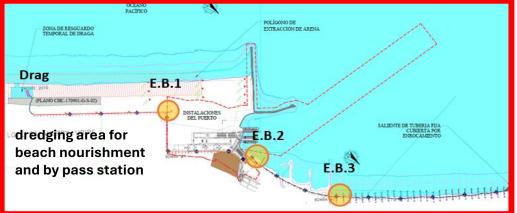


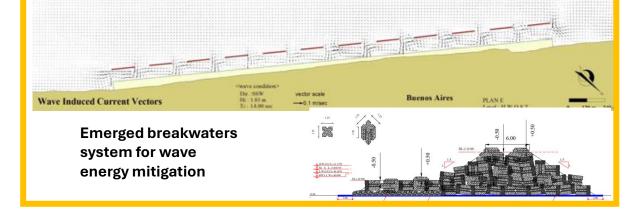




Municipality of Trujillo, Peru (2018-2020)







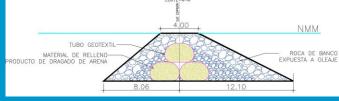


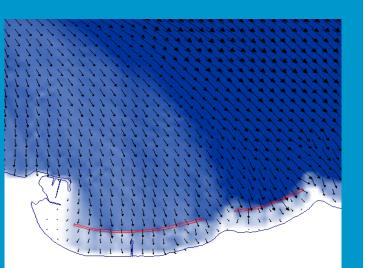


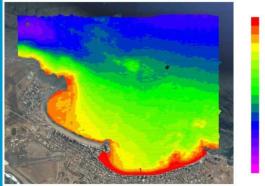


Salinas, Ecuador(2016-2017)









< 0.00 1.00 - 1.99 3.00 - 3.99 5.00 - 5.99 7.00 - 7.99 9.00 - 9.99 11.00 - 11.99 13.00 - 13.99 15.00 - 15.99



Executive project and Terms of Reference for the recovery of San Lorenzo Beach CLIENTE:







Dune Installation for Private Property Protection

Nigeria(2024)

Critical Problem: Rising wave energy, fueled by global warming, is having catastrophic effects on the coastline. Accelerated erosion is threatening coastal infrastructure and endangering the well-being of surrounding communities

The Solution: A flexible structure composed of geotextile tubes (Titan Tubes) was designed to protect the property, reducing incident wave energy and controlling coastal erosion. This innovative solution, known as Dune Core, stabilizes the soil and provides a resilient barrier against the impact of the sea.

FLINT TECHNICAL GEOSOLUTIONS:

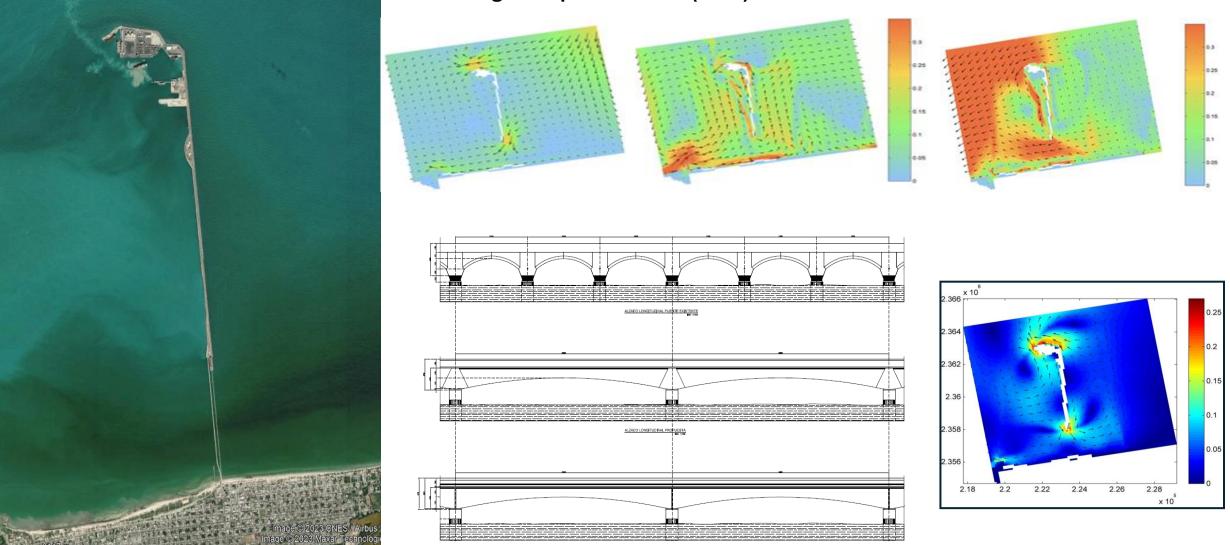
Design, Manufactures and Geosynthetics supply GEOFOUNDATIONS AND STRUCTURES: Contractor AXISIMA: Engineering and site assistance.



Hydrodynamics Studies

na

Hydrodynamics study and numerical modeling to determine wave design parameters of the viaduct expansion project at the Progresso port terminal (2014)



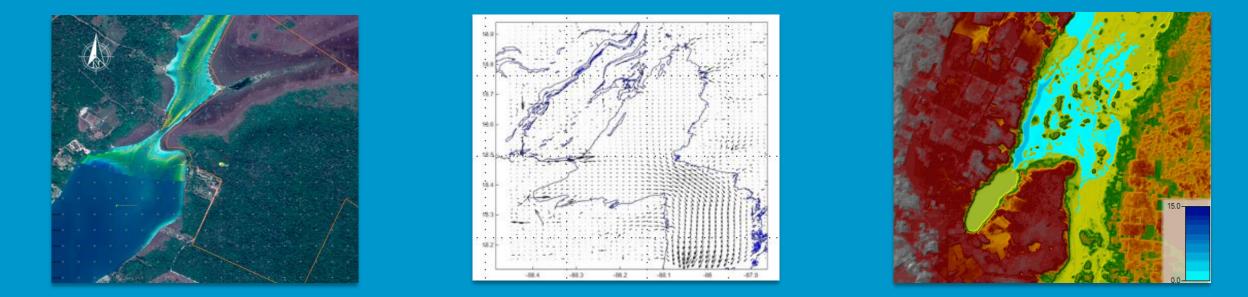
CORTE LONGITUDINAL PROPUESTA

Hydrodynamics Studies



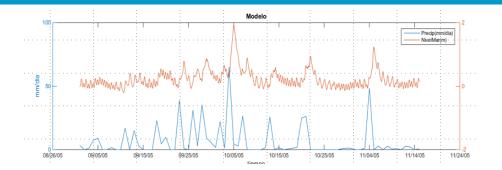
Xul-Ha, Quintana Roo (2019)

Hydrological modeling study for flood analysis



Obtaining maximum flood levels for different return periods for the development of 215 Ha

- Hydrodynamic simulation (currents and storm surge)
- Hydraulic simulation (land runoff flow)
- Hydrological simulation (water accumulation in extreme events)

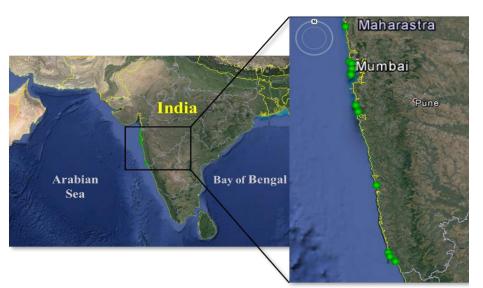


Hydrodynamics Studies



Sustainable Coastal Management Program for the Government of Maharashtra, India (2016)

Inable Coastal Protection and Management: Tranche 2: Feasibility Report: Part



Sustainable Coastal Protection and Management Investment Program (SCPMIP): Tranche-2

Feasibility Report

Part 1: Designing Robust Solutions

Prepared For Maharashtra Maritime Board (MMB), Government of Maharashtra

Ву

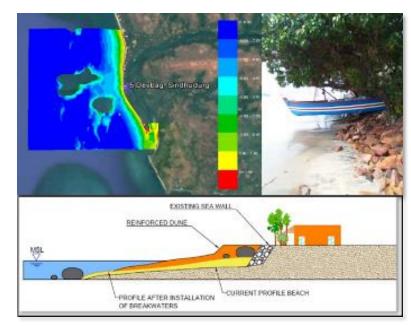
sanctuary beach

Sanctuary Beach Pte Ltd (Singapore)

HOV Environment Pvt Ltd (India)



Axis Ingeneria (Mexico)



Proyecto financiado por el ADB (Asian Development Bank)



Client: Maharashtra Maritime Borde, India

Ports & Harbors



Yucalpetén Yucatán, Mexico (2011)



AxisIMA® Services: Engineering, Environmental Management and Technical Assistance in the construction of the Fishing Port

Client: Progresso Port Authority

Ports & Harbors



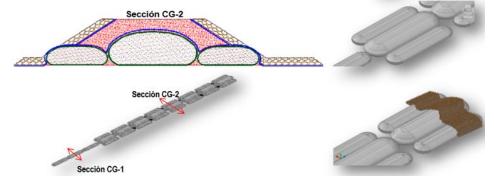


AxisIMA[®] Services: Engineering and construction management of the access channel jetties for the Termozulia II combined cycle plant in Maracaibo, Venezuela.

Client: CONVECA

Maracaibo, Venezuela(2011)









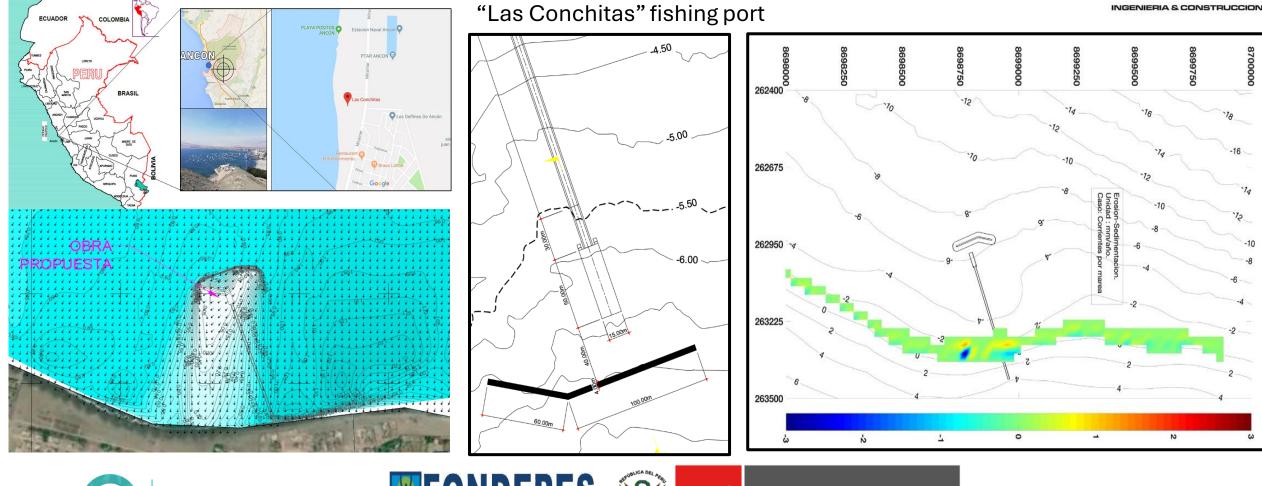


Ports & Harbors

Ancón District, Lima Province, Peru (2019-2020)



Evaluation of alternatives, numerical modeling, design and terms of reference for the new



Ingeniería de puertos y costas





Ministerio

de la Producción

Gracias/धन्यवाद/ Thank you







Address: C21 núm. 161 A x 38 y 60 Col Buenavista CP 97127 Mérida Yucatán México Tel:+52 999 9255264