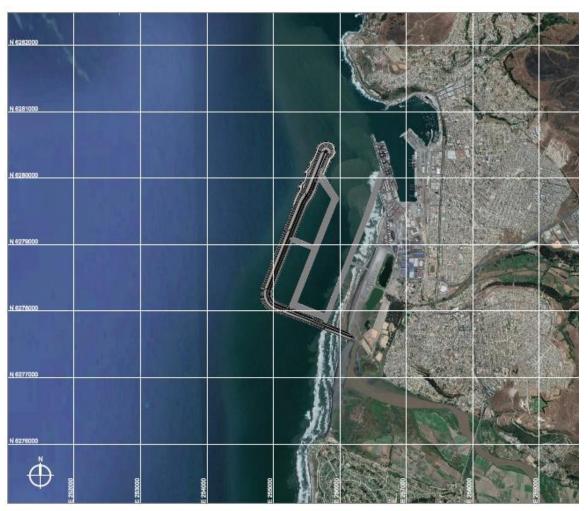


OVERVIEW

GEOGRAPHICAL LOCATION









WHO ARE WE?

PUERTO SAN ANTONIO

It is a State company, administrator of the port of San Antonio, created by Law No. 19,542, on the modernization of the state port sector, on January 31, 1998.

Annually our terminals serve about 52% of the country's foreign trade.



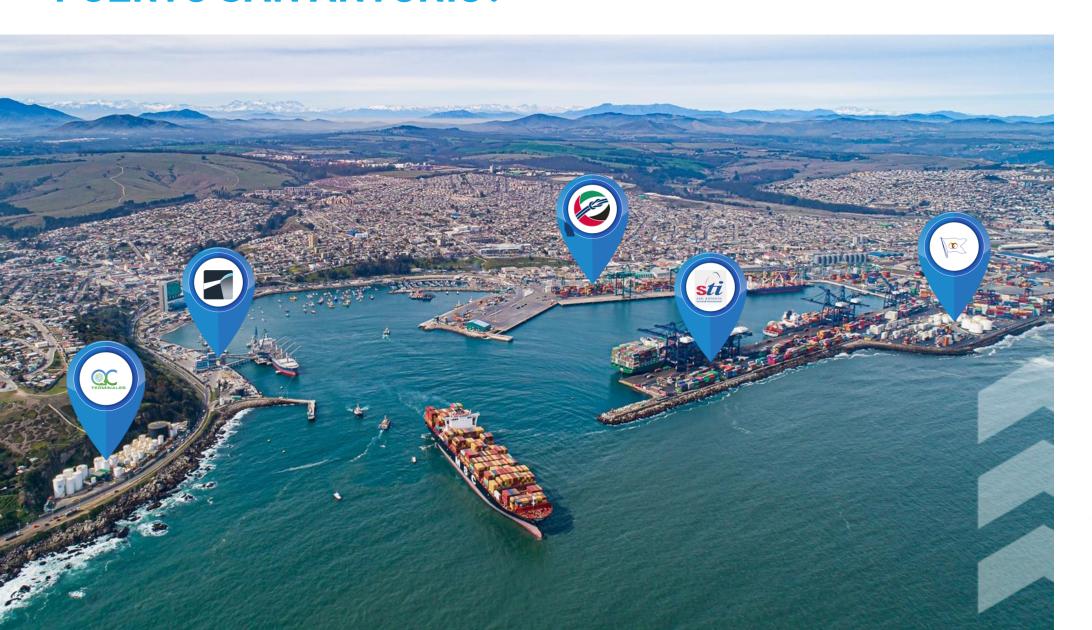
San Antonio is the 1st port in Chile and the 8th in Latin America, in container cargo (*).

(*) ECLAC, Latin America and the Caribbean: the port terminal industry and activity indicators for 2019 2019.



WHO OPERATES IN

PUERTO SAN ANTONIO?







6.000.000

of annual TEUs

Design ship:

Class E container ships

Length: 397.7 M Beam: 56.4 M Draught: 15.5 M Capacity: 14,700 TEUS Docking fronts of

1.730

mts



Relevance OUTER PORT

For central Chile, it will guarantee the port future by providing jobs and reactivating the local economy (commerce, roads, transport, housing, tourism).

For the country, ensure domestic trade in the long term, meeting the demand for new infrastructure in time and increasing the country's international trade competitive.

Total investment:

Approx. investment of the project US\$ 3.700 millones



Johs

2,200 direct jobs in construction phase

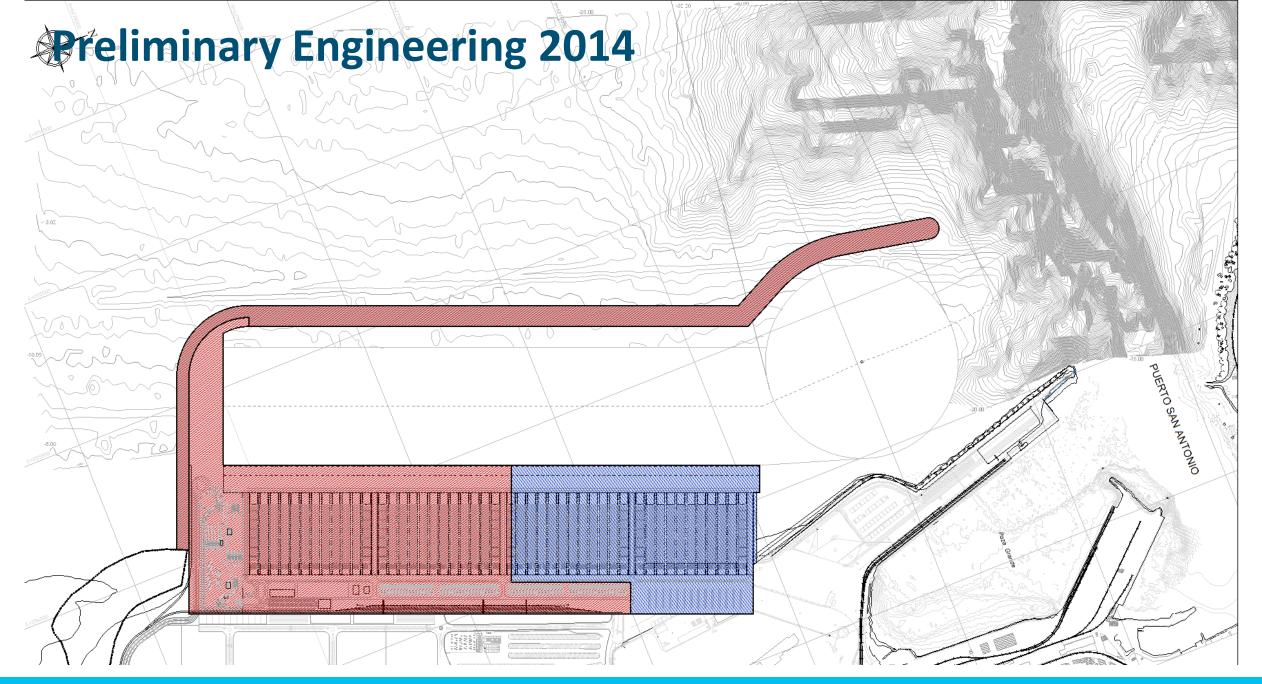


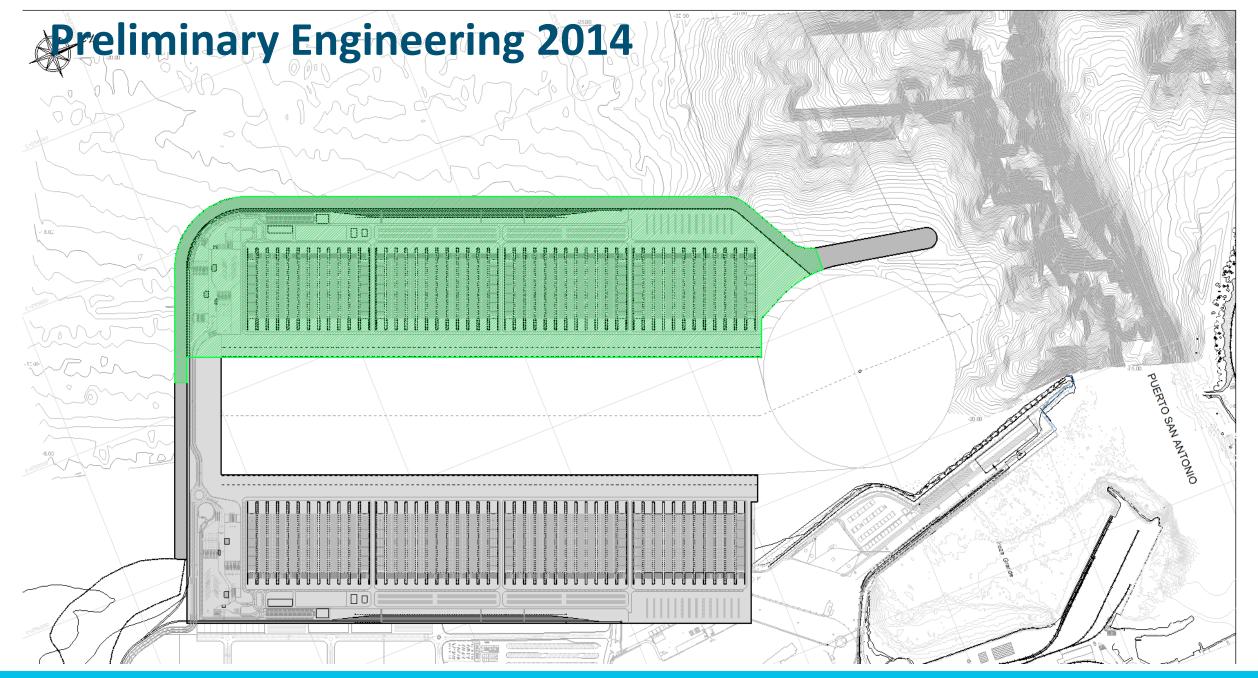
Attention span of ships 8 container ships

Jobs

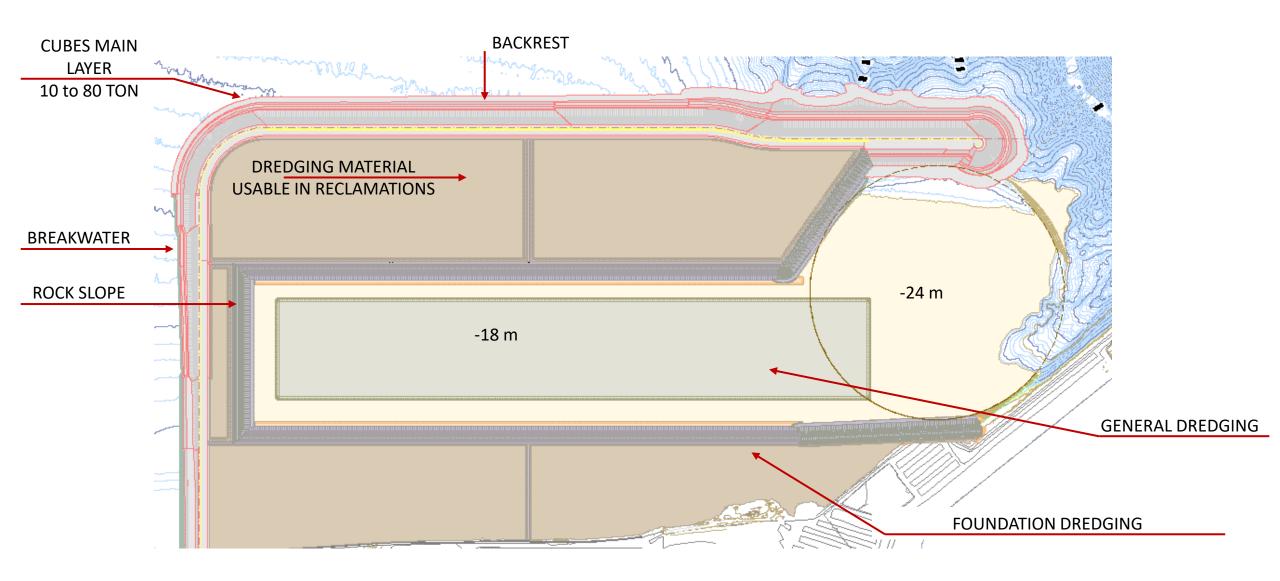
2,000 direct jobs in operation phase





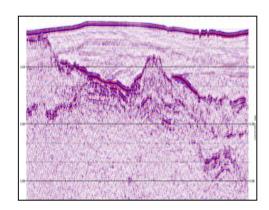


Final Engineering 2020

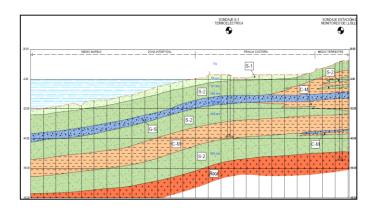


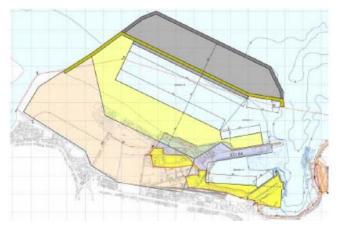
- Feasibility Engineering
- Basic Engineering
- Details Engineering of Breakwater and Dredging
- Scale Model
- Environmental Baseline
- Environmental Impact Study
- Field Studies
 - Laser topography scale 1:500: **20,500 hectares**
 - Studies of Tides, Waves, Currents, Winds
 - Bathymetry: 1,400 hectares
 - Land Geotechnics: 17 drillholes; 6 test pits, assays
 - Geophysical profiles: 17 km in total
 - Maritime Geotechnics: 26 drillholes (795 m total)









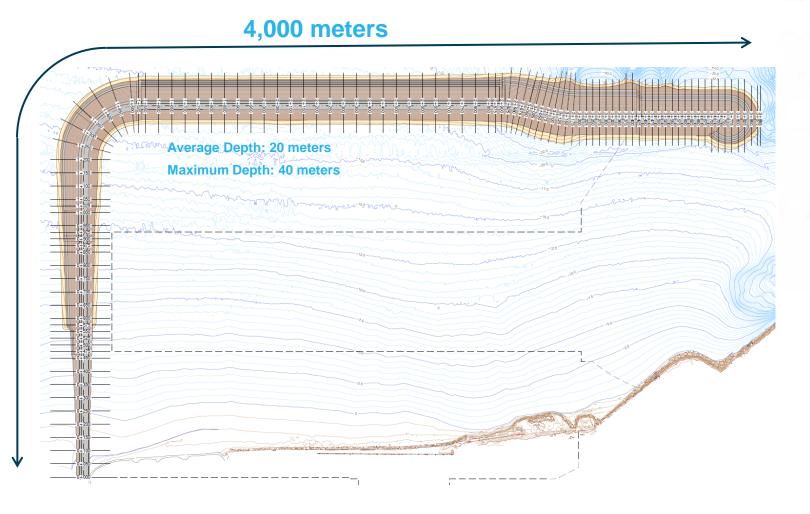


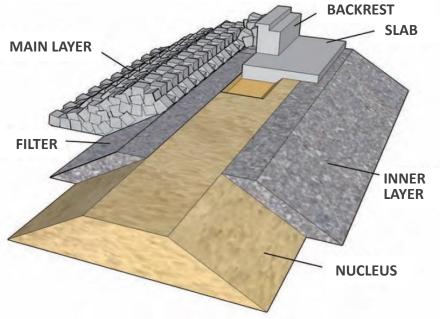


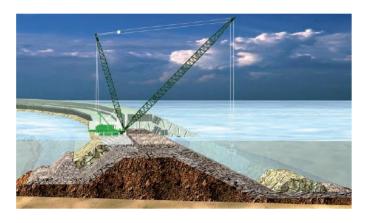




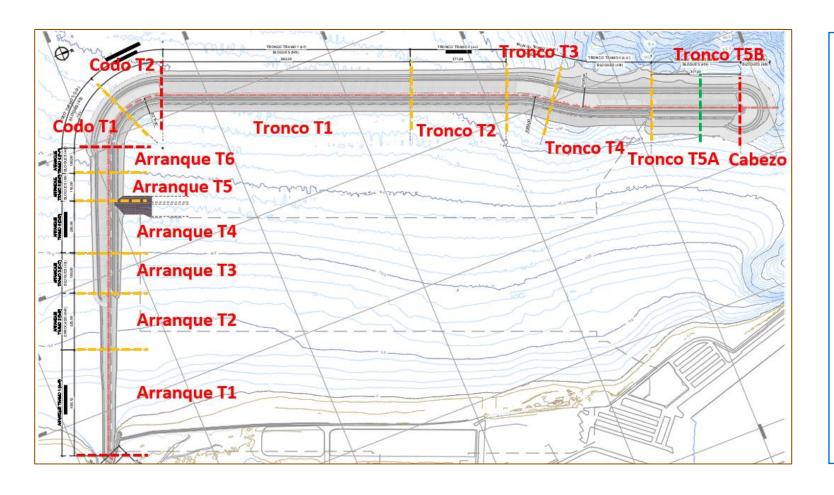
Breakwater







Breakwater



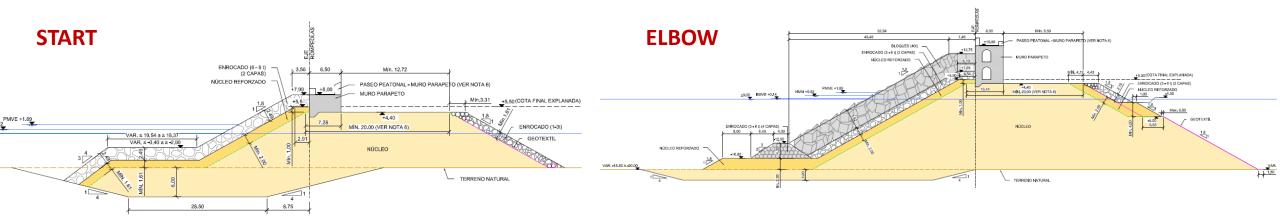
Total length: 4,000 m.

Starting section: 1,260 m with depth at the foot of the breakwater varies from 0 m to 16 m.

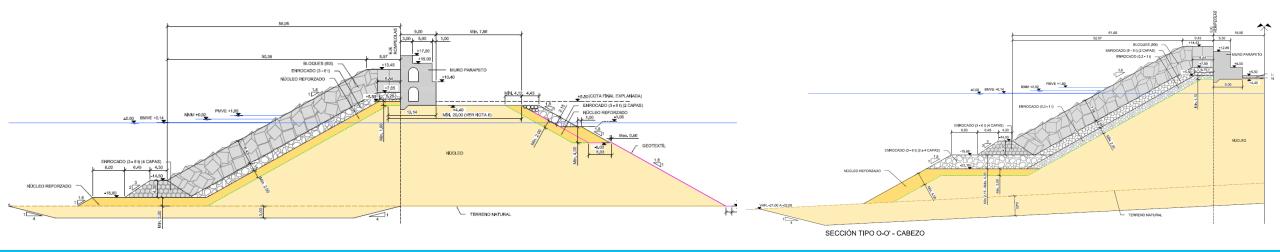
Elbow: with a length of approximately 330 m.

Main Section: 2,245 m in length and whose depth varies between 20 m and 45 m.

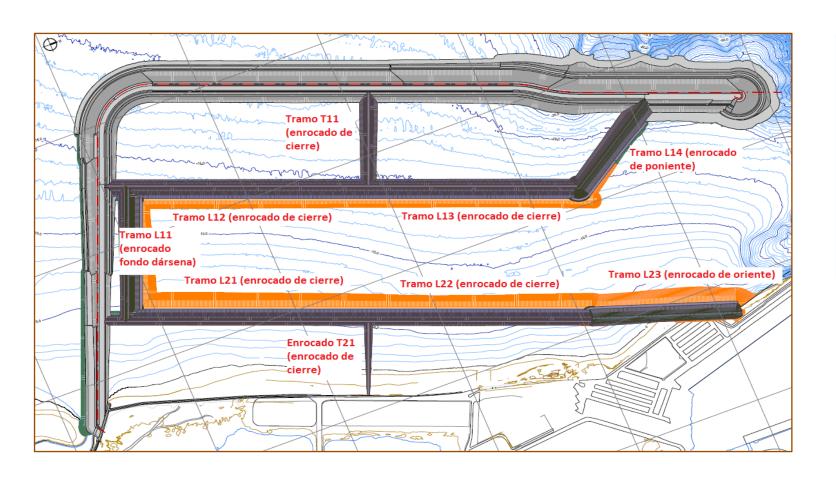
Typical Sections



MAIN SECTION HEAD



Rock Slopes

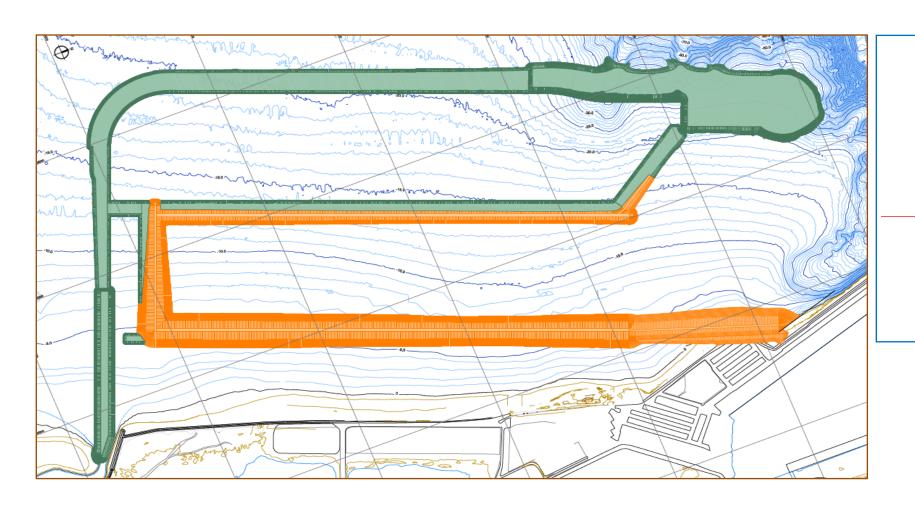


Terminal TS1 2,300 m

Terminal TS2 2,500 m

Final Dock 600 m

Foundation Dredging

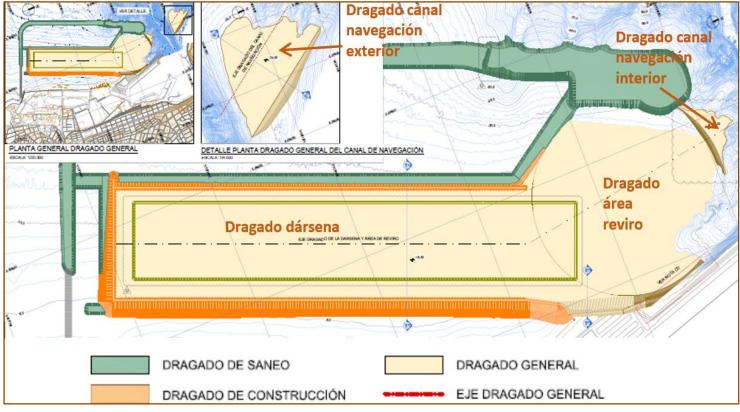


Surface soil dredging 2.060.000 m3

Construction dredging 3.430.000 m3

TOTAL FOUNDATION
DREDGING
5.490.000 m3

General Dredging

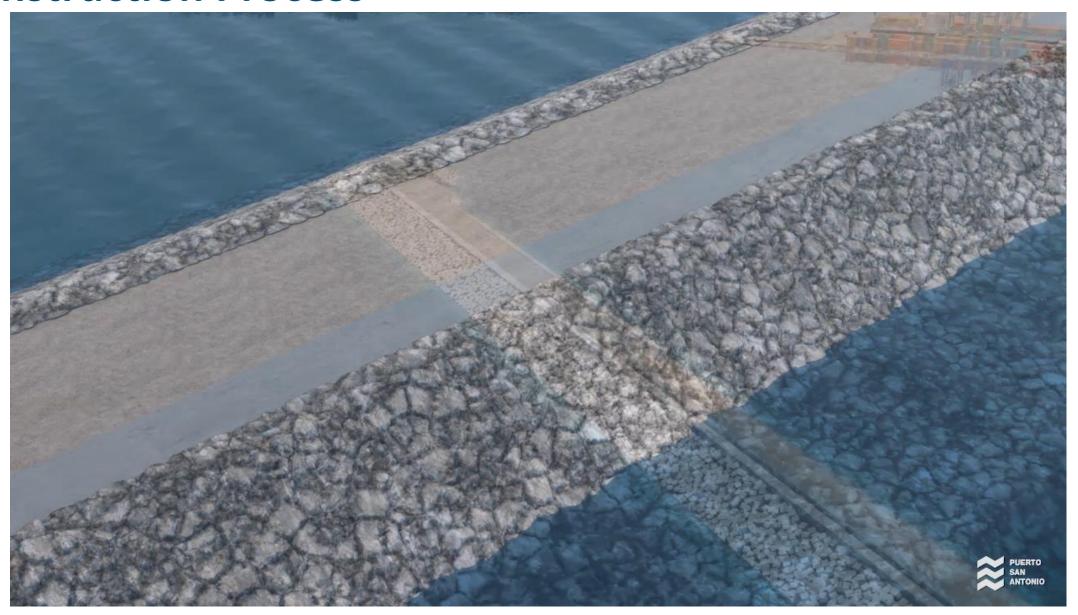


- 1. Dredging of the dock: 6.123.849 m3
- 2. Dredging maneuvering area: 3.097.771 m3
- 3. Dredging of the inland navigation channel: 67.274 m3
- 4. Dredging of the external navigation channel (Punta Panul): 644.644 m3

TOTAL GENERAL DREDGING 9.933.538 m3



Construction Process





Final Comments

- It is possible to give alternative uses to dredging.
- In the case of port projects, dredging can be used to filling reclamation areas.
- Techniques can be considered to structurally improve reclamation built from dredging.



