



# *Creating the World's Leading Destination for the Blue Economy*



# A Headstart on the Future: Milestones

With an executed **50 year lease** with the Port of Los Angeles, **AltaSea** obtains **nonprofit status**; executes agreement with **Southern California Marine Institute (SCMI)**.



2014-2016

**Construction Designs and Permits** for founding facility, the **Center of Innovation**, are obtained. **Project Blue** launches expanding the **Alta-Sea** network to include **UCSD's Scripps Institute of Oceanography** and **Oregon State University**.



2019-2020

**Renovation complete on Berths 58, 59, 60**  
**180,000sf Center of Innovation by 12/31/23.**



2023

2016-2018



**Dr. Bob Ballard** and his **E/V Nautilus** make **AltaSea** their Pacific Coast home; **AltaSea** breaks ground on the **La Kretz Blue Economy Incubator** and launches the **LA Ocean STEM Network** and **Ocean Pathways** programs with **Boys & Girls Club of the LA Waterfront**.

2021-2022



**AltaSea's Solar Initiative** launches providing over 2.2 MB of power on a new 20-year warranted roof; **USC Seaweed Lab** opens; funding (\$14M) obtained for the first 60,000 sf, **construction scheduled to begin**.

2024



**Construction on the Science & Education Center** slated to begin.

# AltaSea Progress by the Numbers

- **\$7m invested to date in facility improvements** including a new 180,00sf roof; 2.2 mw of solar (eqpt. onsite, need LADBS permit to install); ADA-compliant restrooms; 3 marine labs
- **\$28m raised** to complete core/shell renovation of Berths 58, 59, 60 by 12/31/23
  - AltaSea will have the envisioned world-leading blue economy, education, and workforce development center and be fiscally self-sustaining and operating at a net profit by the end of 2023, despite pandemic delays
  - Over 100 partners with 28 researchers and bluetech companies already operating onsite; a total of 130,000sf sf committed with over \$1m in annual rent revenues
  - \$90m capital campaign underway to add tenant improvements and to renovate Berth 57 (target completion 2025)
    - (\$28m to date: \$15m state; \$7m private donors; \$6m POLA)
- **Serving the state & POLA:** CA Dept of Fish & Wildlife, CA Office of Emergency Services, multiple UC/CSUs & community colleges onsite; helping POLA to attract a US Dept of Energy Hydrogen Hub award (up to \$1.25b) to help decarbonize heavy duty shipping and goods movement
- **Serving the community:** 33,100 visitors have attended AltaSea Open Houses, educational and workforce training sessions, bluetech incubation conferences and other tours and 36,031 K-12 students have participated in AltaSea in-person and online education
- **AltaSea Master Planning** process has resulted in:
  - Confirming the use case for Berths 57-60 as promised
  - Innovative “distributed/integrated” plan to engage the public throughout the campus
  - Evaluating unique uses for Berths 70-71, including new forms of aquaculture and ocean-based renewable energy/hydrogen production and maritime applications



***New \$1.5m 20-year Warranty 180,000sf Roof (2.2mw \$3.5m solar installation)***





*...for an  
ocean that  
will sustain  
us now and  
for  
generations  
to come.*



## *Our Program Goals*

**Mitigate &  
Reverse Climate  
Change**

**CLEAN ENERGY**

**CARBON SEQUESTRATION**

**OCEAN RESTORATION**

**Preserve the  
Ocean for  
Future  
Generations**

**EDUCATION**

**BLUE WORKFORCE/JOBS**

**BLUE INNOVATION**

**Improve  
Food  
Security**

**OFFSHORE MARICULTURE**

**RAS AQUACULTURE**

**URBAN AQUAPONICS**

## *Our Focus Clusters*

### **REGENERATIVE AQUACULTURE**

- On-land Aquaculture
- Open Ocean Aquaculture
- Food Production
- Kelp Extraction Products

### **RENEWABLE ENERGY**

- Carbon Capture
- Energy Storage
- Hydrogen Energy
- Wave & Wind Energy

### **BLUE TECH & UNDERWATER ROBOTICS**

- Data Acquisition
- Deep-water Monitoring
- Maritime Security
- Robotic Innovation

The AltaSea Center of Innovation at Berths 58-60



The AltaSea Center of Innovation / Exterior



The AltaSea Center of Innovation / Interior

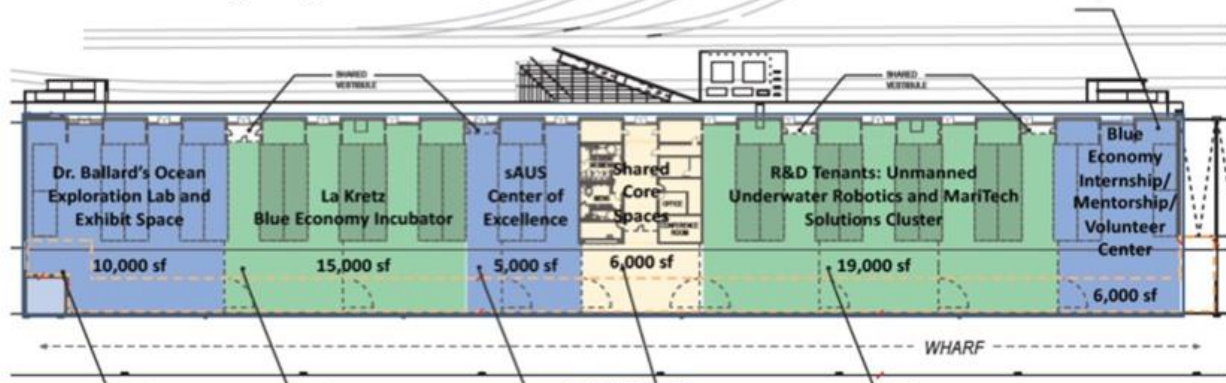


The AltaSea Center of Innovation / Wharf



**PARTNERS**

- Scholar Match
- Ready to Succeed
- The Ocean Opportunity Lab
- Grand Bahama Action Lab
- Maritime & Environmental Training Trust
- Oregon State University
- Boys & Girls Club of the LA Harbor
- Southern California Marine Institute
- Walter Munk Foundation



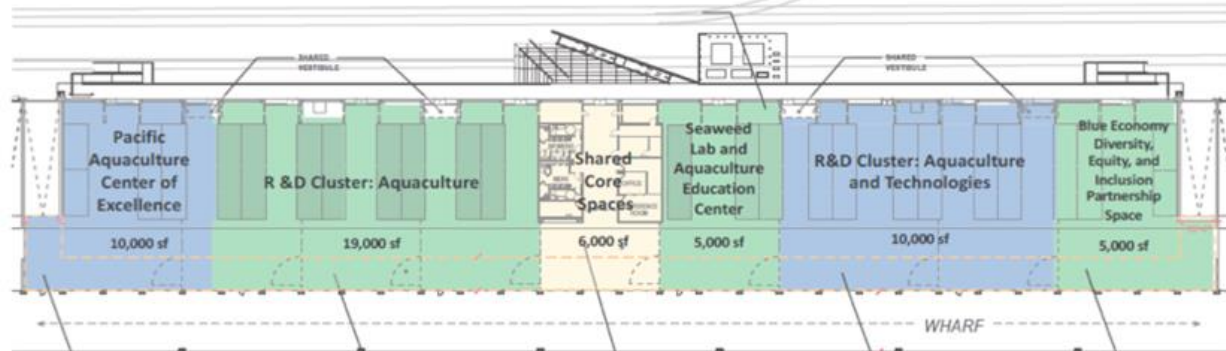
**PARTNERS**

- Ocean Exploration Trust
- Braid Theory
- Scripps Ocean Institute
- Montauk Technologies
- Flying Lion
- All Center of Ocean Exploration Partners, Educators, and Tenants
- Aquaai
- Blue Robotics (Testing)
- Deep Green

WATER (EAST CHANNEL)

**PARTNERS**

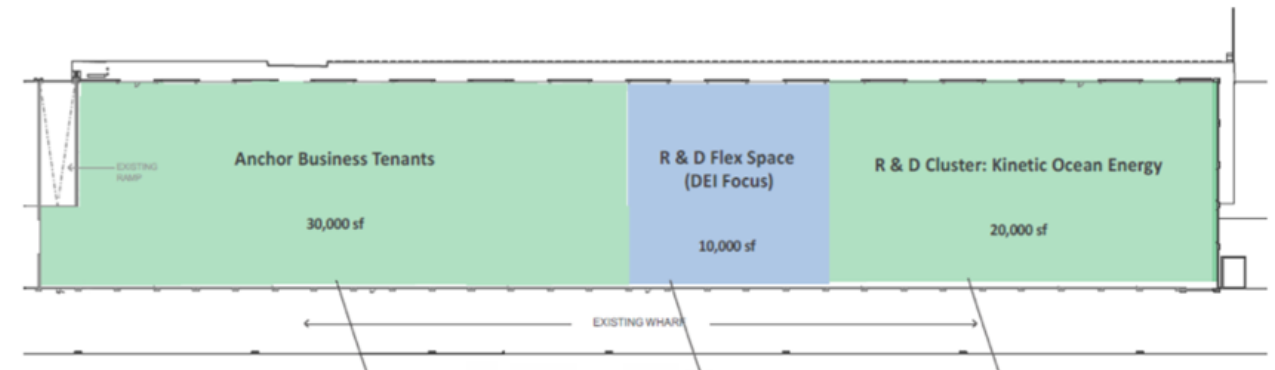
- USC Sea Grant
- USC
- CSUN
- University of Connecticut
- Woods Hole Oceanographic Institute
- California Science Center
- Cabrillo Marine Aquarium
- Greenwave
- Alaska Sea Grant



**PARTNERS**

- Santa Monica College
- Avalon Aquafarms
- Monterey Seaweed Co.
- Pacific Mariculture
- Holdfast Aquaculture
- Carlsbad Aquaculture
- All Center of Sustainable Aquaculture Partners, Educators, and Tenants
- Primary Ocean Producers
- Pole to Pole

WATER (EAST CHANNEL)



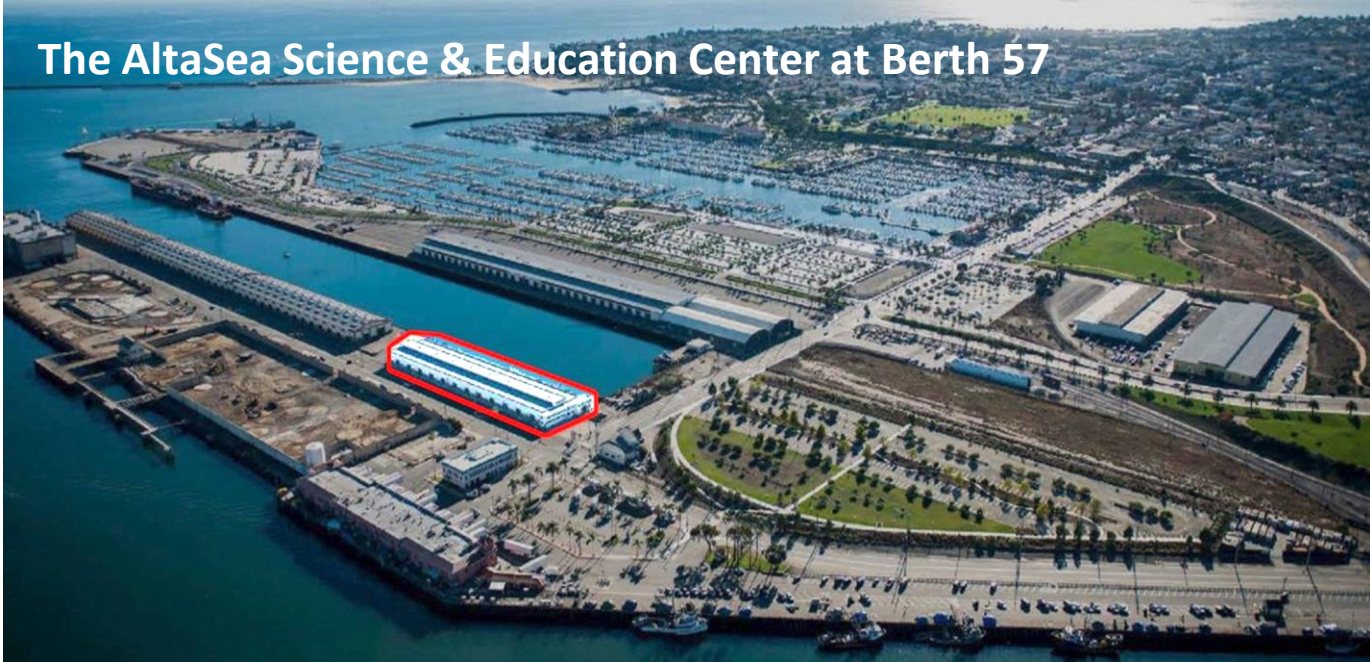
**PARTNERS**

- Boeing
- All Center of Innovation Partners, Educators, and Tenants
- Seatrec
- Oregon State University



Berths 58-60 *Conceptual Drawings*

The AltaSea Science & Education Center at Berth 57



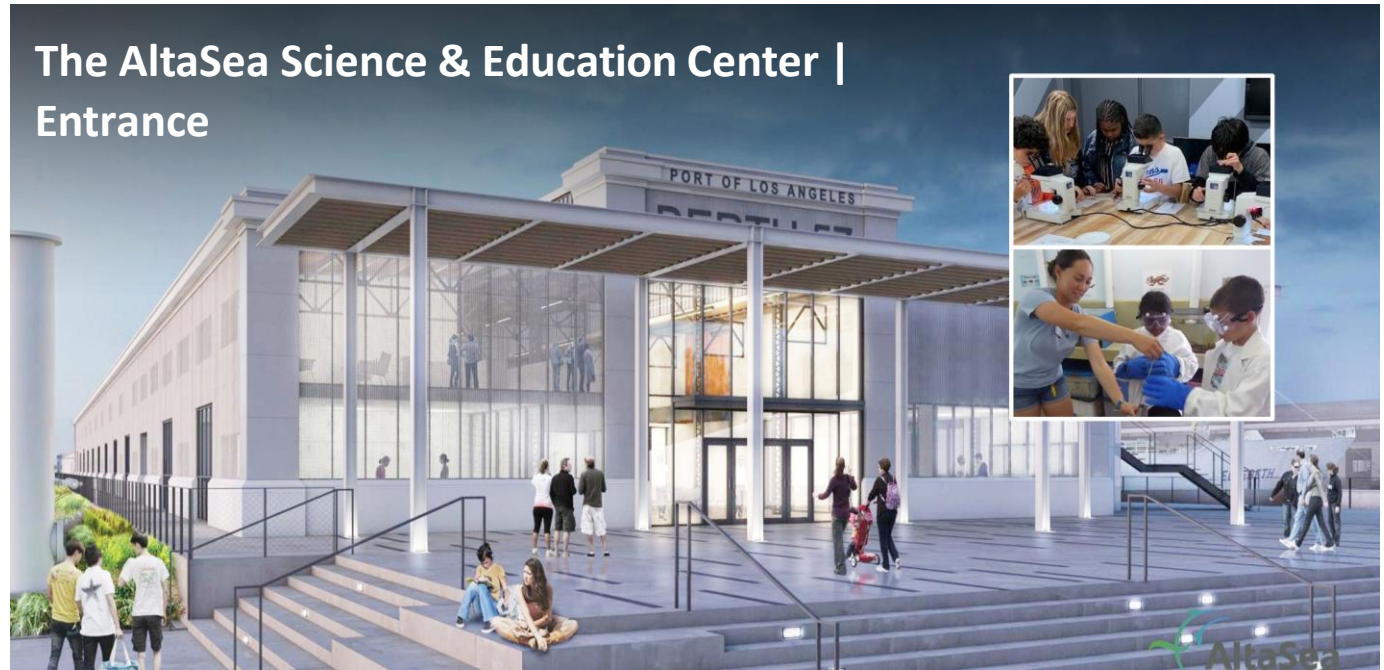
The AltaSea Science & Education Center | Lecture & Flex Space



The AltaSea Science & Education Center | Shared Research Center

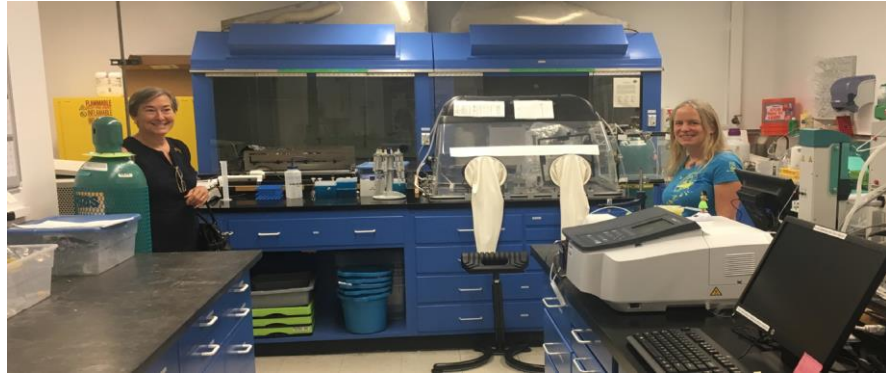


The AltaSea Science & Education Center | Entrance



# **The AltaSea Science & Education Center Needs Assessment & Findings**

### Dry Laboratories & Classrooms



### Wet Laboratories



### Berths & Dock Space



### Seawater System with Controls



### Blue Economy Researchers Under one Roof



### Dive Locker



### Space for Aquarium & Mesocosms



### Cold Storage & Laboratories



### Public Outreach



# The AltaSea Advantage

## Events Featuring Partner Organizations



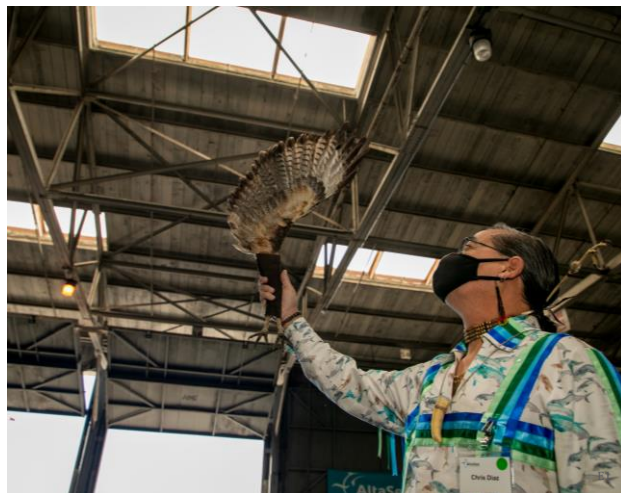
## Direct and Meaningful Impact



## Strategic Partnerships



## Media and Leadership Engagement



# AltaSea | Partners

AT THE PORT OF LOS ANGELES

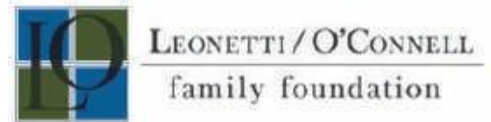




# Supporters



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Join AltaSea as we help California invent and invest in the future of education, science, and business at the intersection of climate and sustainability challenges... *and opportunities!*

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