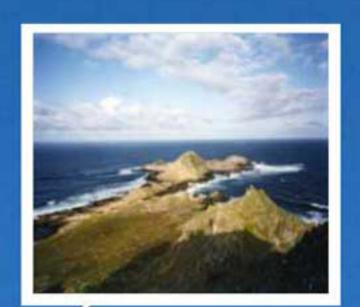
Nothing like the Blue Trail exists anywhere in the world



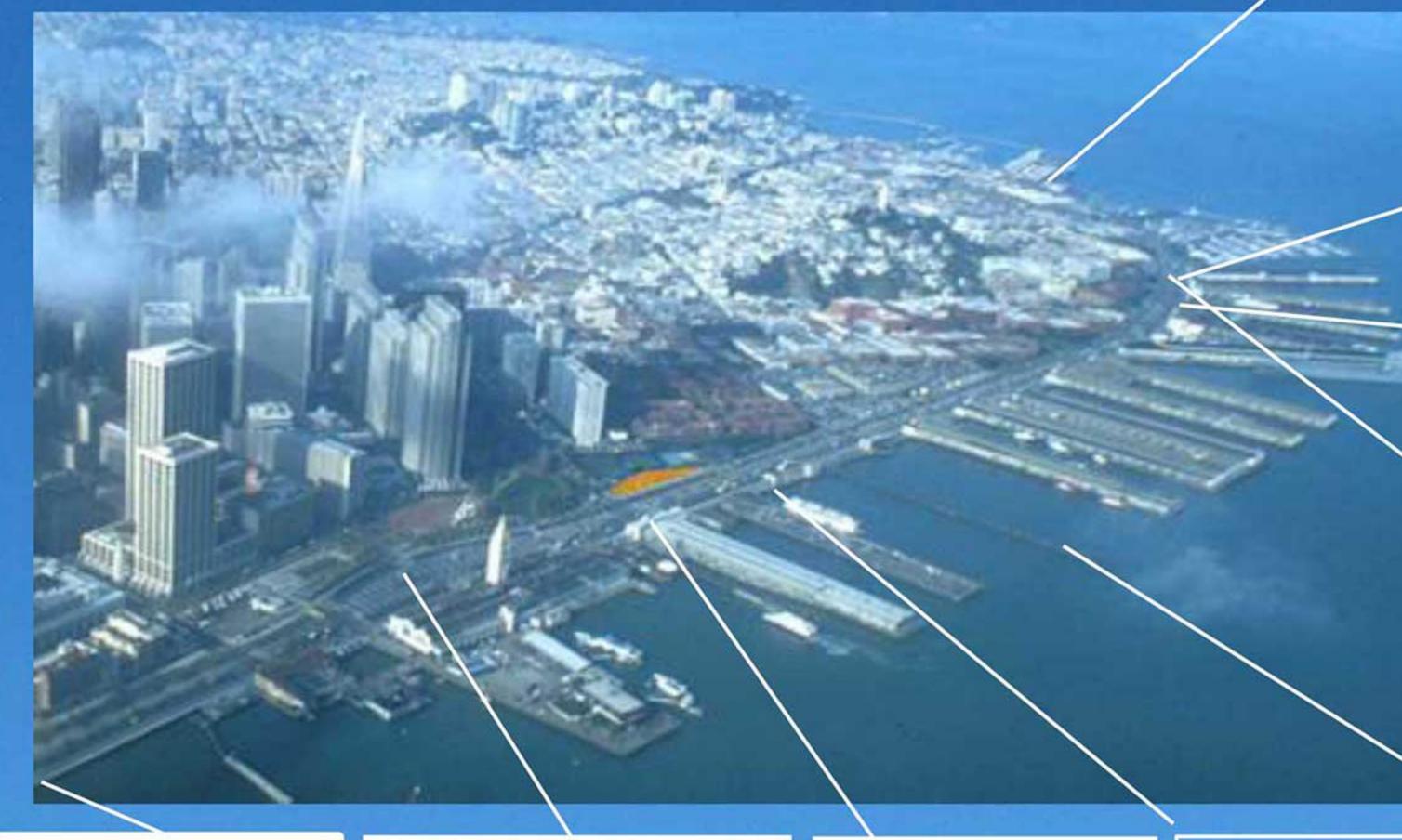
Farallon Island Project (Pier 41)

Dioluminescent Organisms (Pier 35)





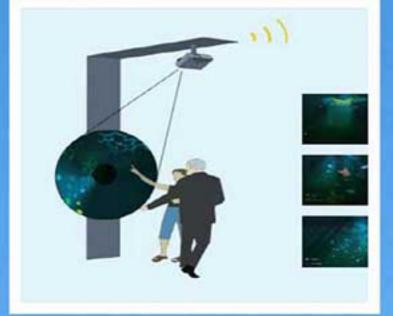
Hyperaccumulator (Pier 35)



Theater of Lost Species (Rincon Park)



Message in a Bottle (Harry Bridges Plaza)



Eyes on the Water (Pier 1)

Blue Trail
Overview
Exhibit

Piers 3-5



Ocean Soundscapes (Pier 7)

EYES_ON WATER

by Flow Field Collective / Open-H2O

Overview

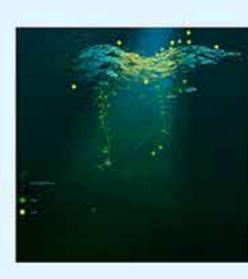
The Ocean covers 70% of the earth's surface, and is the future of our transportation, security, food, and energy, yet we understand so little of it.

Eyes on Water is a combination of an interactive indoor exhibition and a recent development of Open_Buoy, a self sustainable, energy-harvesting, affordable, floating buoy, measuring data remotely on the open ocean.

It takes visitors on the voyage to discovery and interpretation of what Open_Buoy sees and sense under the waterline of San Francisco Bay. It becomes a portal providing a close and deep insight into the ocean's complex biodiverse and versatile system. By revealing processes on micro and macro levels it indicates some of the ocean's hidden mysteries and scientists' questions relevant to the San Francisco Bay, i.e. the enigmatic Phytoplankton blooms, the unexplained proliferation of Red Tides, or the migration of foreign species from all over the world. The installation is a gateway for exploration. What is little known and invisible, hidden under the surface, becomes present and visible in the on-shore visual interactive installation.

Eyes on Water is developed by Open-H2O - a growing international community of artists, engineers, marine biologists, naval architects, and academics, developing open-source technologies to explore, study and preserve the ocean. Since 2010, the Open-H2O team has collaborated to evolve Protei drones into sustainable vessels capable of collecting data in various marine environments and effectively cleaning the ocean.











Indoor_Installation

Upon entering Pier 1, visitors will encounter a shallow convex orb protruding from the wall. The orb is filled with a round, fish-eye projection displaying a real-time underwater image coming from the camera looking in 360 degrees from the bottom of the Open_Buoy. In the inner part of the orb there will be a colorful visualizations overlaid atop the camera feed, displaying information like Chlorophyll concentration, oxygen content, temperature and pH of the water. This real time data feed about the water seen from the camera renders the intangible and invisible data information into visible, compelling and meaningful picture. Visitors will be able to interact with the inner surface of the disc, which is responsive to touch. Through that visitors will discover connections between the collected data and the stories about the dynamic biodiversity of the local oceans.

PHYTOPLANKTON

San Francisco Bay waters host Phytoplankton which rapidly grows around March each year. We can measure the burst of chlorophyll concentration in the water. Why is it happening and how does it influence the local ecosystem?

HITCHHIKING SPECIES

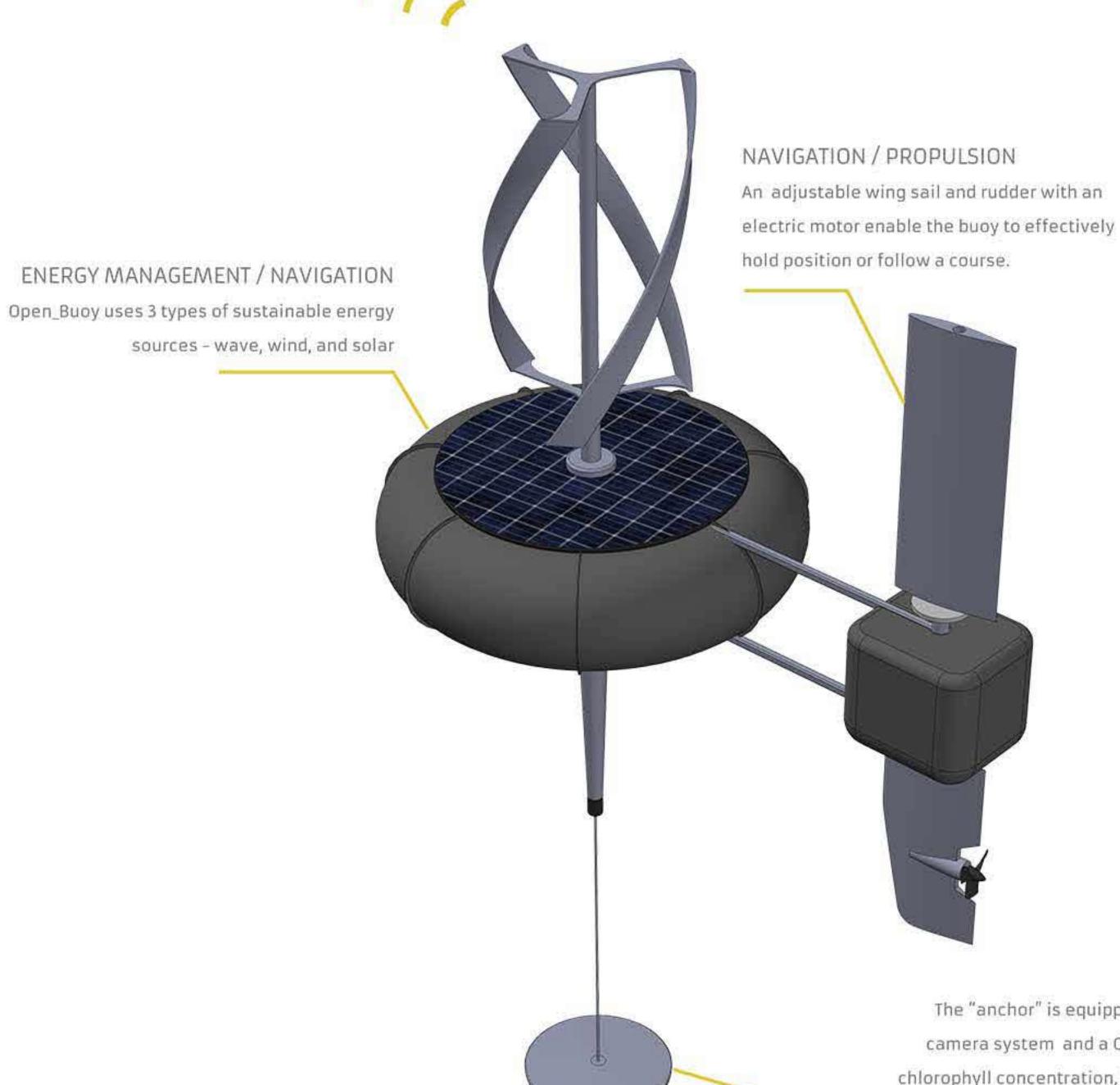
Marine populations are hitchhiking to San Francisco Bay from all corners of the planet. By detecting floating solids in the water we explain how they get there and want to know how the indigenous population deals with the transformation into a more versatile "multicultural" habitat.

RED ALGAE

This particularly mysterious type of phytoplankton, can make a spectacular show on the surface of the sea, but its beauty in fact is deadly for many other species. Looking at the level of saturated oxygen and temperature in the water helps to predict eventual blooming. What links to this phenomena?



From the indoor media display a large glass wall leads to a great patio on the water, where the visitor will see Open_Buoy floating in front of Pier 1. The vessel is self sufficient in terms of energy management and constantly transmitting data for the indoor screening. Now being an experimental DIY research platform, it's long-term goal is to enable amateurs and communities to explore and preserve the ocean. The components hereby used are mostly hacked commercial products which nowadays became affordable and accessible to maritime enthusiasts.

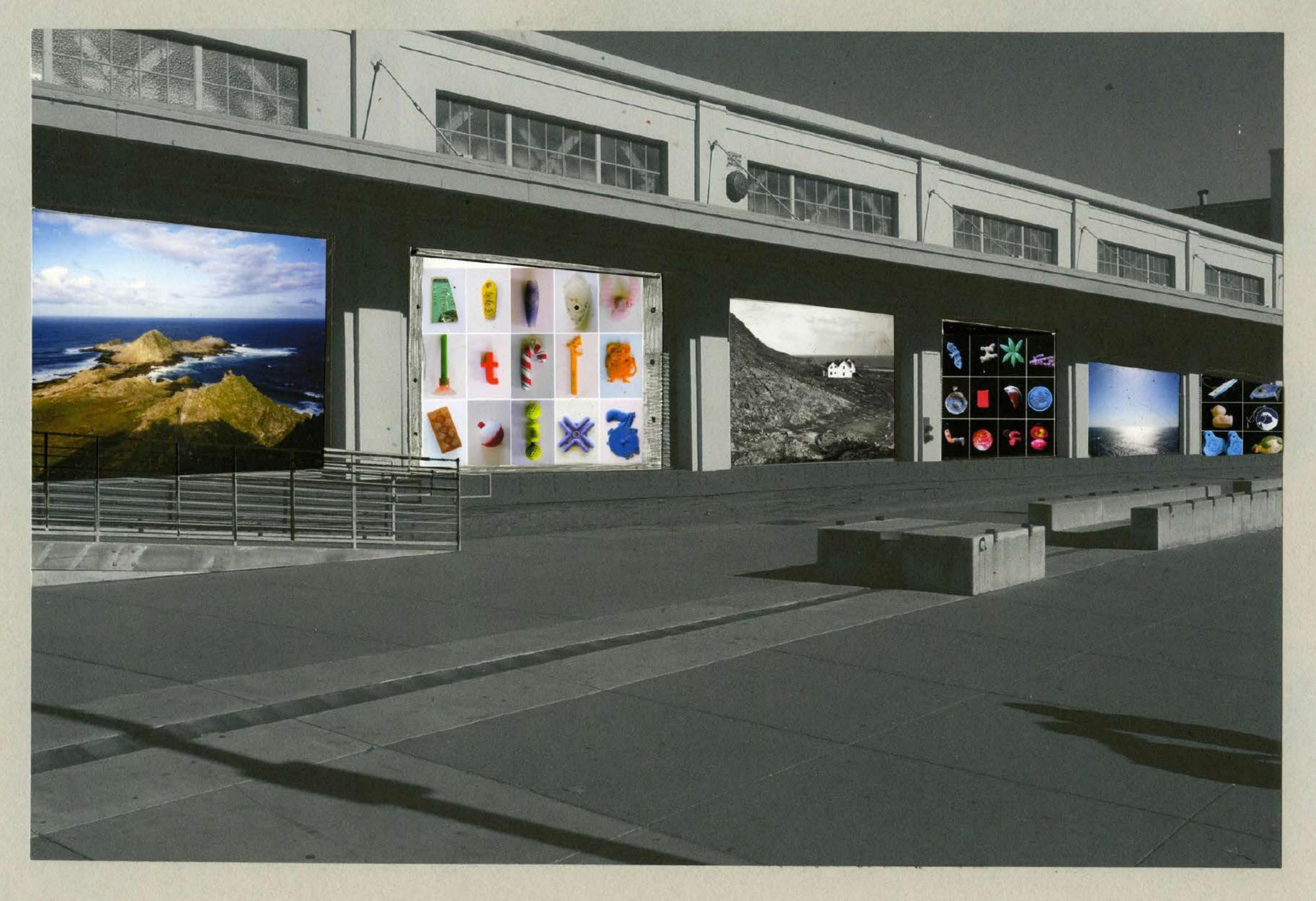


SENSING

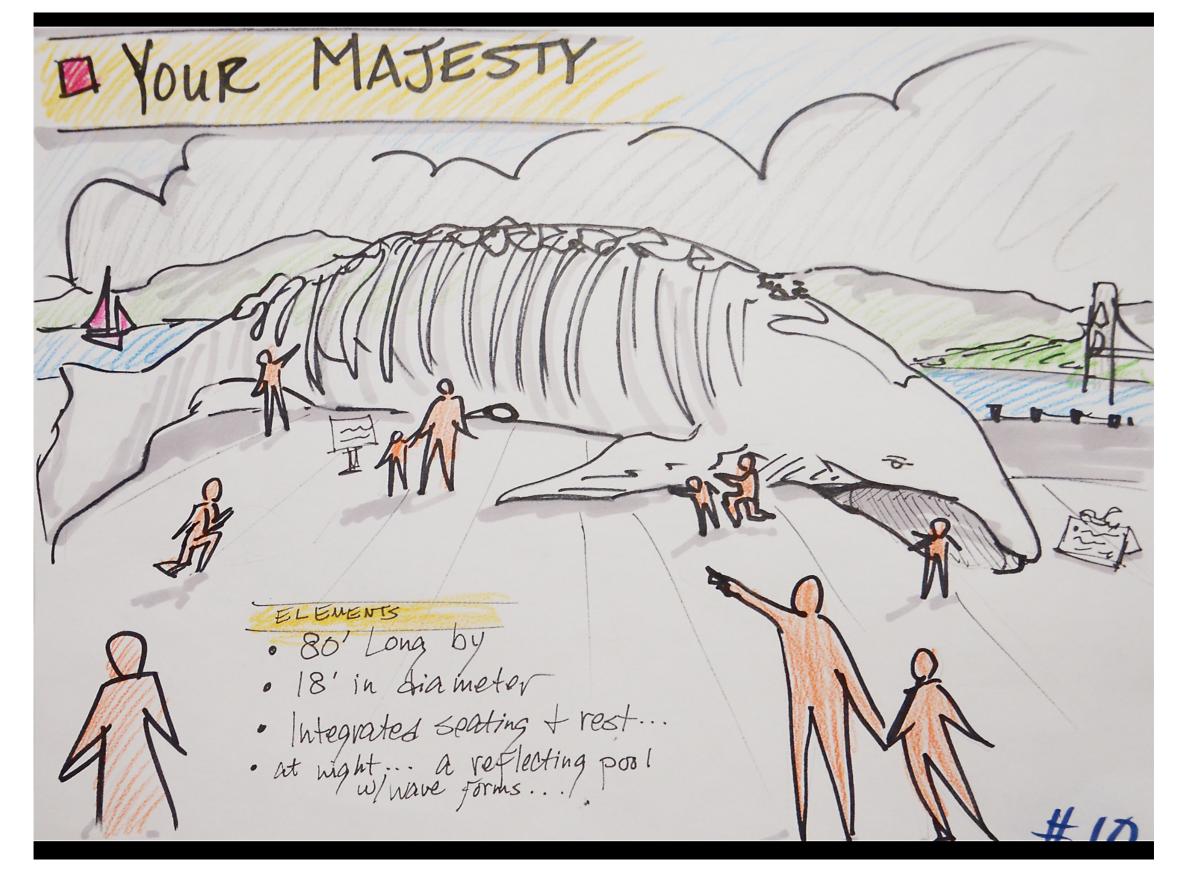
The "anchor" is equipped with a panoramic camera system and a CTD sensor to measure chlorophyll concentration, temperature, salinity, and dissolved oxygen levels of the water.





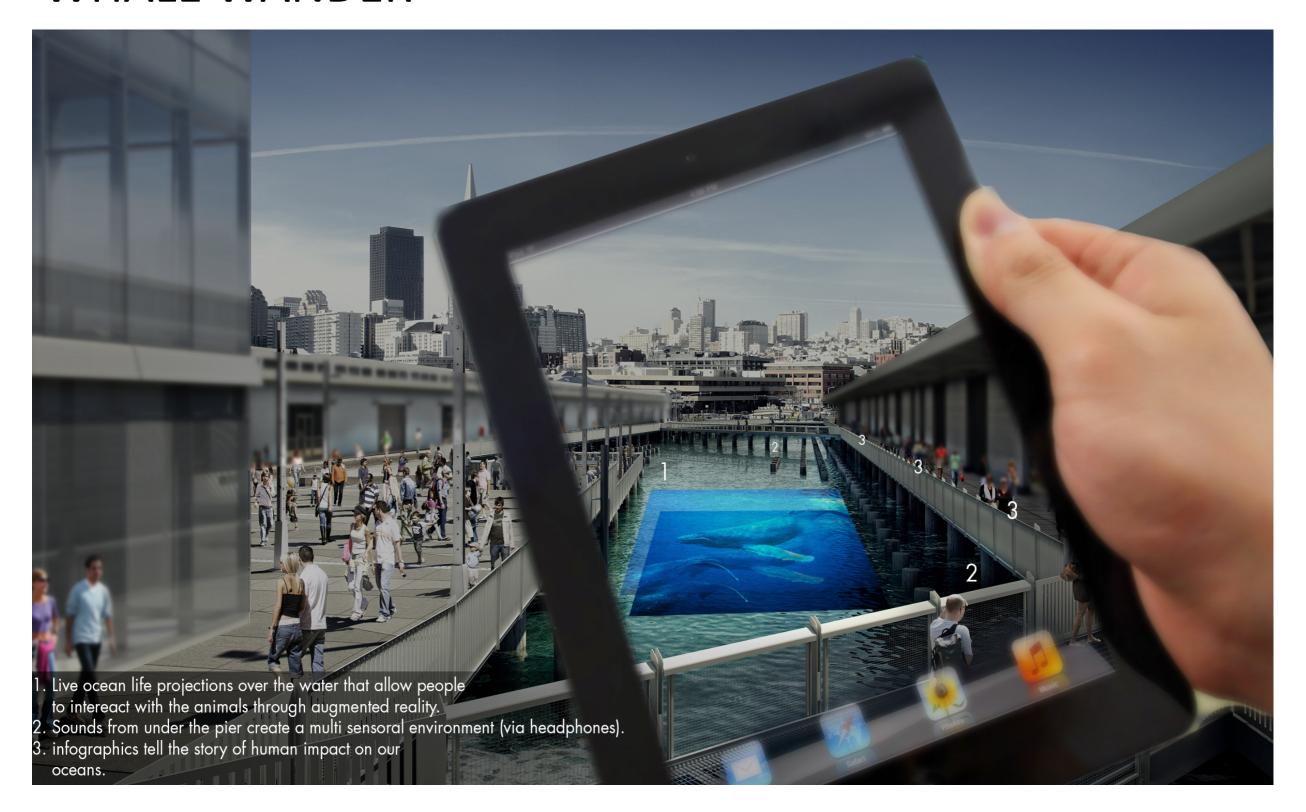


Pilaris Foundation (or other Pier Building) with light homes



YOUR MAJESTY
A WHALE TALE OF BAGS, BALLOONS, AND BOTTLE CAPS

WHALE WANDER







VISTA DEBRIS

Life in the Pacific Garbage Patch

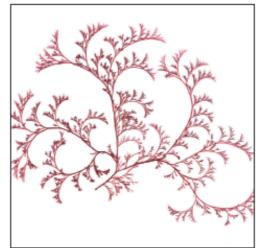
What would the world be like surrounded by microscopic garbage?

Download our app



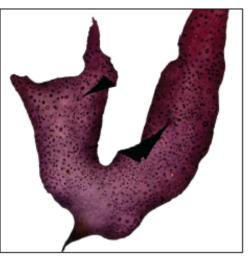




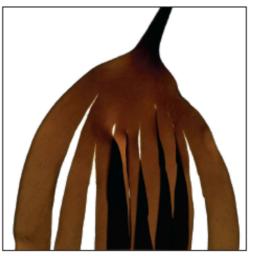


Agarum, Ulva,

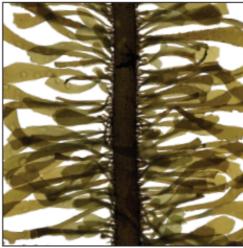
Microcladia











Mastocarpus,

Nereocystis,

Laminaria







Bonne maisonnia, Delessaria,

Egregia

Seeing Seaweed

Few of us who love the ocean know much about seaweed, and yet it is all around us, a key habitat engineer of the San Francisco Bay and surrounding coastal waterways. This installation will involve an array of brilliant, transparent, photographic panels of local seaweed. These image panels might hang up to the sky, twisting independantly with the wind or be designed as street level turnstiles for kids and adults alike to walk between and turn. This installation's job is to elicit a WOW reaction to something usually maligned; bringing the vibrant forms of marine algae to the sidewalk visitor, and encouraging them to make a trip to the beach. A smartphone app will accompany this installation so that algae identification and the connection to the local beaches and habitats can be accessible imediately

The design of the armature and plexi planels will depend on the specifics of the site chosen.

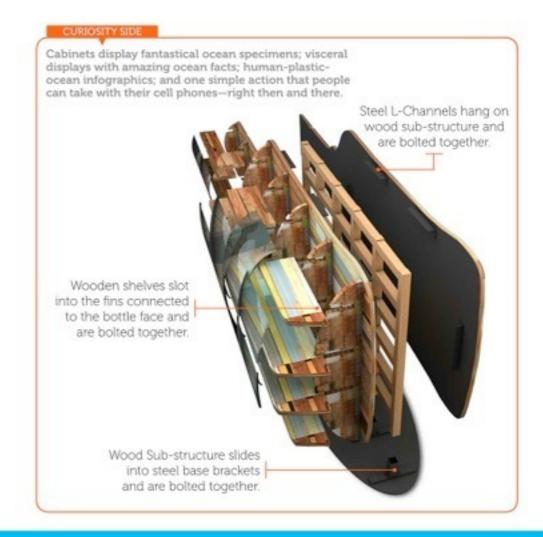


An Ocean Garden

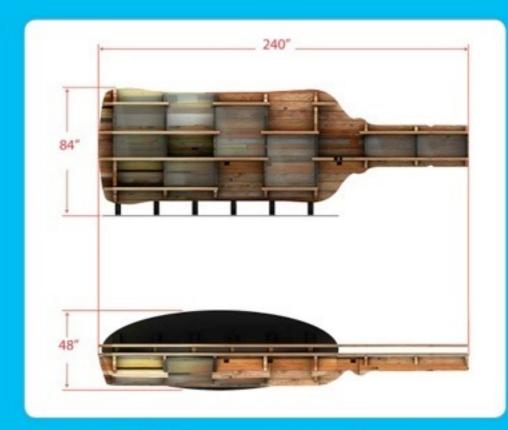
Blue Trail project proposal by Josie Iselin, team leader. www.josieiselin.com all images © Josie Iselin

Message in a Bottle











PERSPECTIVE VIEW - LOOKING TOWARDS THE BAY BRIDGE













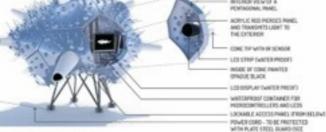










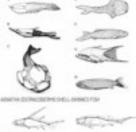




PAST AND PRESENT INSPIRATIONS



LOST SPECIES FORM & MOTION STUDIES











VIEWING CONE CONCEPT

MOBILE INTERFACE CONCEPT



MOTES. LALL DISTING PEDESTRIPS AND FIRE LIMES TO BE MAINTAINED.

2 ACTUAL SITING LICATION AND HOLD

SOWNING THOSE TO BE COORDINATED WITH FORT OF 19' AND STRUCTURAL ENGI REQUIRED TO PROTECT ART WORK

ELECTRICAL ACCESS - TO SE CONFIRMED

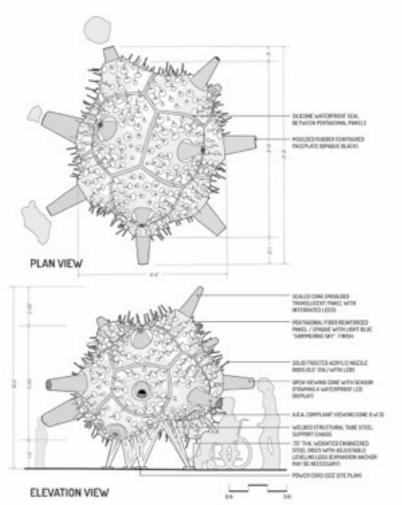
PROTECTED POWER CINE OF LINES

RESTAURANT VIEW CORROCK TO BC.

PROPOSED LOCATION

PARTANCO

PROPOSED LOCATION (EMBARCADERO @ FOLSOM STREET)



THEATER OF LOST SPECIES

"What of the children of the future? When the polar bears and penguins are gone, the gorillas and elephants and coral-reef clown fish like Nemo — what diverse and lovable army will be their close companions?

Will flarbies and robots be enough for those future children? The hybrid monsters of fantasy video games, the fossel-based reconstructions? Maybe a few stray wild animals that were once our partners in this grandiose place will live on as collective memories, the bygone stars of screen and storybook, but they, too, must fade from the stores and eventually the pixels as time marches on.

- Excerpt from Lydia Millet's opinion eccay, "THE DRED'S MEMGERIE" published in the New York Times; 8 Dec 2012.

CONCEPT: THE THEATER OF LOST SPECIES IS A TEMPORARY INTERACTIVE. PUBLIC ART INSTALLATION TO BE LOCATED ON THE EMBARCADERO IN SAN FRANCISCO AS A PART OF THE "BLUE TRAIL". PART VIRTUAL MENAGERIE, PART MEMORY CHAMBER, PART URBAN SPECTACLE - THE THEATER WILL PROVIDE A CONTEMPLATIVE AND ENGAGING EXPERIENCE. VISITORS WILL BE INVITED TO INTERACT WITH DIGITAL CONTENT THROUGH LARGE GLOWING VIEWING CONES. SCREENS MOUNTED AT THE END OF THE CONES WILL DISPLAY A CURATED VIRTUAL ECOLOGY OF LOST MARINE SPECIES. SENSORS WILL CREATE THE ILLUSION THAT THESE DIGITAL CREATURES ARE REACTING TO VISITORS, WHILE SLOWLY PULSATING LIGHT NOZZLES CREATE A DYNAMIC AND PLAYFUL ATMOSPHERE.

MATERIALS: PANELS: FIBER REINFORCED PANELS (PAINTED SKY BLUE): CONES: POLYPROPYLENE: NOZZLES: SOLID FROSTED ACRYLIC: SUPPORT STRUCTURE - WELDED STEEL (PAINTED MATTE BLACK).

DESIGN & FABRICATION: FUTURE CITIES LAB (SAN FRANCISCO) CORE TEAM: JASON KELLY JOHNSON, NATALY GATTEGNO, RIPON DELEON FABRICATION PARTNER: KREYSLER & ASSOCIATES (NAPA) SCIENTIFIC COLLABORATORS: MATTHEW CLAPHAM (UCSC); JONATHAN PAYNE (STANFORD UNIVERSITY)

FINAL PROPOSAL FOR THE THEATER OF LOST SPECIES FUTURE CITIES LAB. SAN FRANCISCO JASON KELLY JOHNSON AND NATALY GATTEGNO (LEAD DESIGNERS)





Oceanic Scales

An interactive platform exploring ocean ecology Blue Trail Project Proposal submitted by UCSC OpenLab Gene A. Felice II & Prof. Jennifer Parker





East Wharf Plaza - Site Mock-Up



www.genefelice.com • www.openlabresearch.com



PROTOTYPE DESIGN - BLUE TRAIL - OUTDOOR - PUBLIC ART
SITE SPECIFIC FOR ON THE SAN FRANCISCO EMBARCADERO / PORT LOCATION

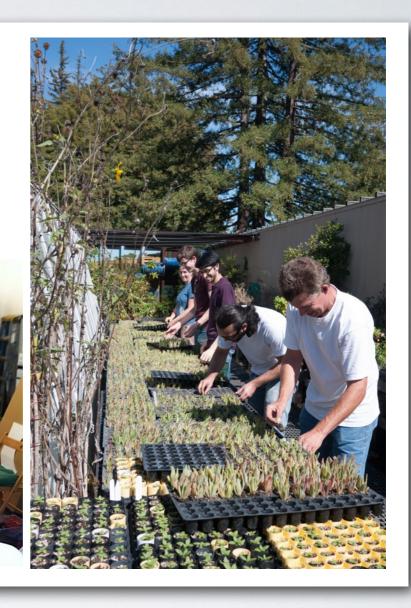






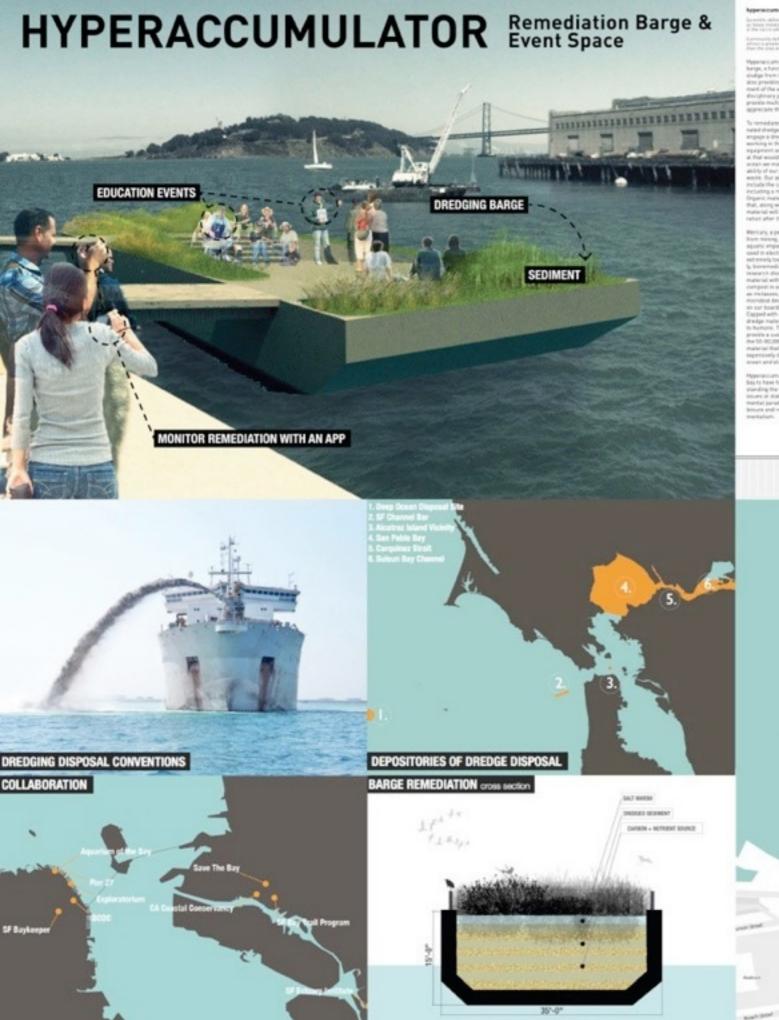






OPENLAB: ART, COMPUTER SCIENCE, GAMING, ENGINEERING, MARINE BIOLOGY, ECOLOGY "LEARNING TO HEAR EACH OTHER" - SHARED VOCABULARIES & SKILL SETS / HYBRID PRACTICE HOW CAN COLLABORATION BETWEEN THE ARTS & SCIENCES GROW DEEPER ROOTS & STRONGER BRANCHES?





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Experience of the football or place or object that upon all that is propher than the or control of the object. Here the constructed in

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