

TIDE

Technology - Immersion - Diversity - Education

PARTI

CONCEPT STATEMENT

A modular, floating, learning-center built from repurposed shipping containers, meant to **connect oceanographic studies and swimming safety skills**. Resting on the shores of natural water sources, TIDE connects adult learners with their communities and surrounding aquatic ecosystems, **shaping lives while addressing the life-and-death need for water-safety education**. Modular planning and programming allow for a blend of between digital technology with hands-on environmental learning, fostering curiosity through movement, knowledge, and reflection. Adaptable to lakes, rivers, and coastal zones, **TIDE connects adult generations to local waters**.

The ocean as a teacher and technology as translation.

SWIMMING HEALTH BENEFITS

- Full-Body Workout
- Heart & Lung Health
- Joint Relief
- Neurological Support

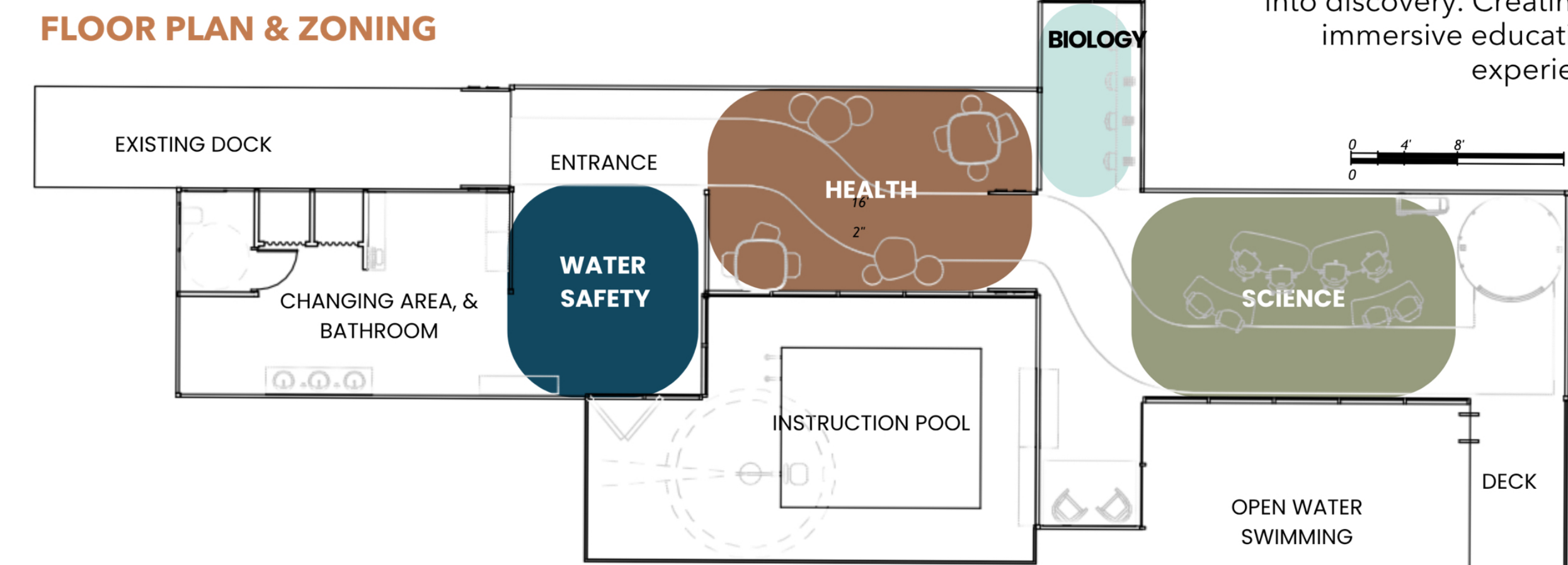
Over 4,500 unintentional drowning deaths occur each year in the U.S.



Never taken a swim lesson

Group	Percentage
All Adults	55%
Hispanic	72%
Black	63%
White	48%
Other race	53%

FLOOR PLAN & ZONING



MATERIALITY

Reimagined, water-sealed, shipping containers. Utilizes light-weight long-lasting materials and furnishings.

- Shipping Container
- Recycled Rubber
- Cork Composite Panels
- Marine-Grade Aluminum Panel



Advanced Technology

Using innovative AI and VR technologies, a body of water becomes a window into discovery. Creating an immersive educational experience.

WATER SAFETY SKILLS
Teach swimming, rescue, and water safety awareness

BIOLOGICAL STUDIES
Study marine life, ecosystems, and biodiversity.

OCEAN HEALTH & VITALIZATION
Focus on conservation, sustainability, and the human impact on ocean ecosystems.

SCIENTIFIC OCEAN STUDIES
Explore ocean science – physical, chemical, and geological aspects.

PRINCIPLES

BLUE MIND THEORY

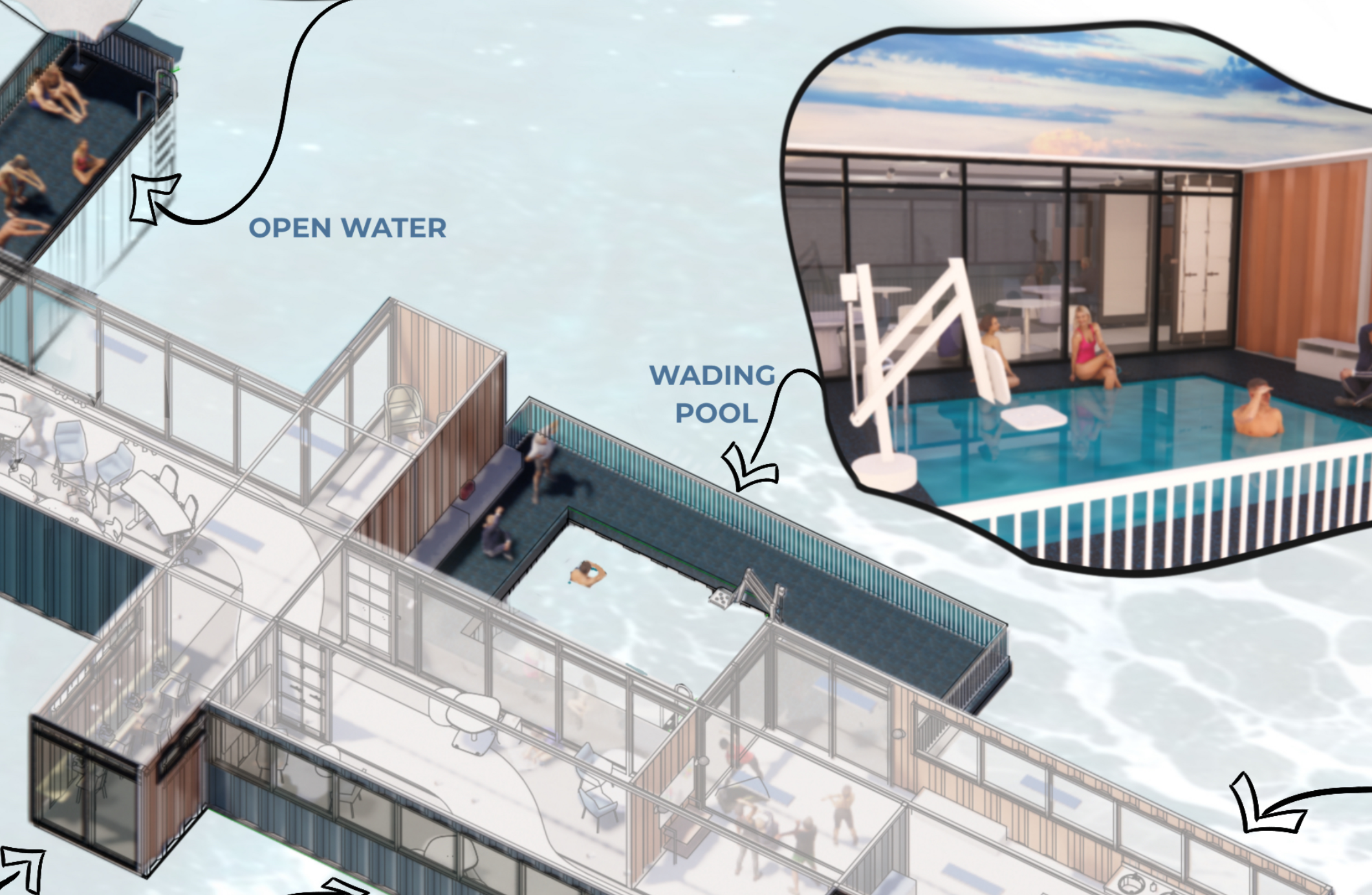
FLEXIBILITY

INDIVIDUALITY IN LEARNING

Cultural wisdom and non-traditional knowledge
Connects people to the ocean by honoring traditional ways of understanding water and the environment.

Technology and Knowledge Transfer
AI allows learners to visualize ocean data, such as mapping coral reefs or underwater habitats.

Evolving Needs of Future Learners
How can technology and nature connect? TIDE creates an opportunity for all learners and a place for wellness.

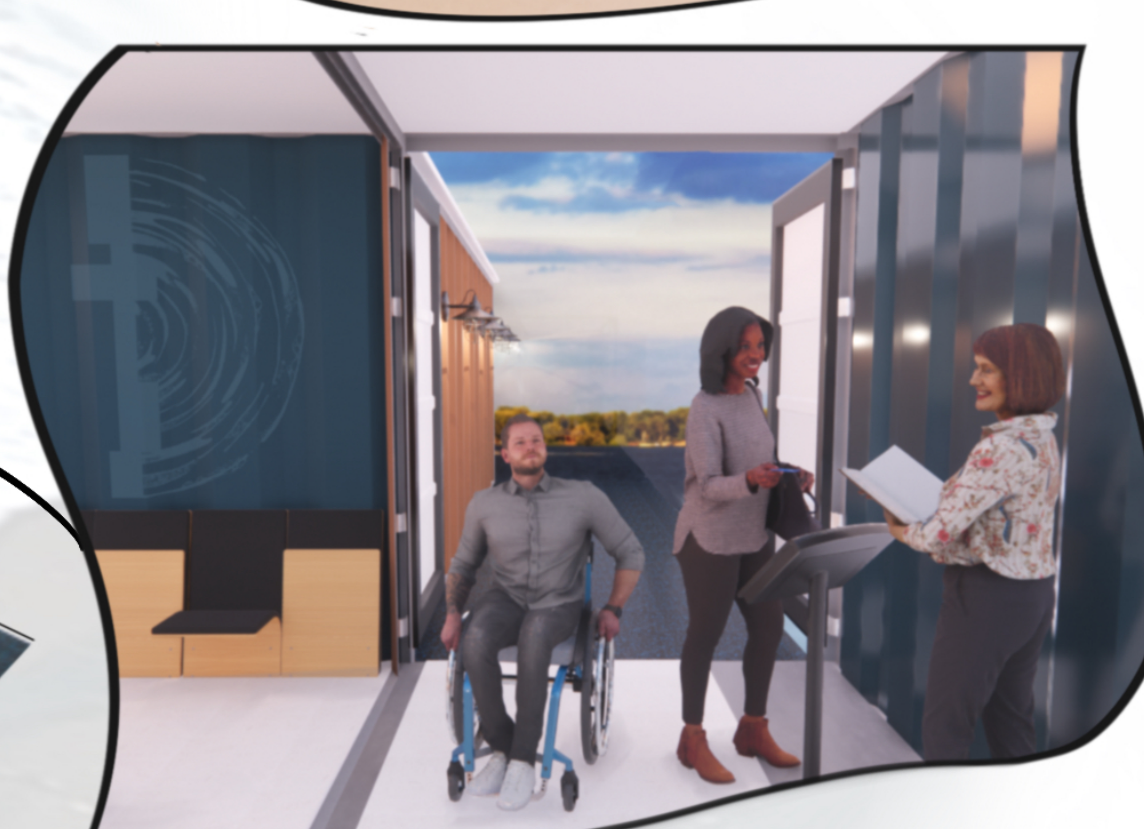


NARRATIVE

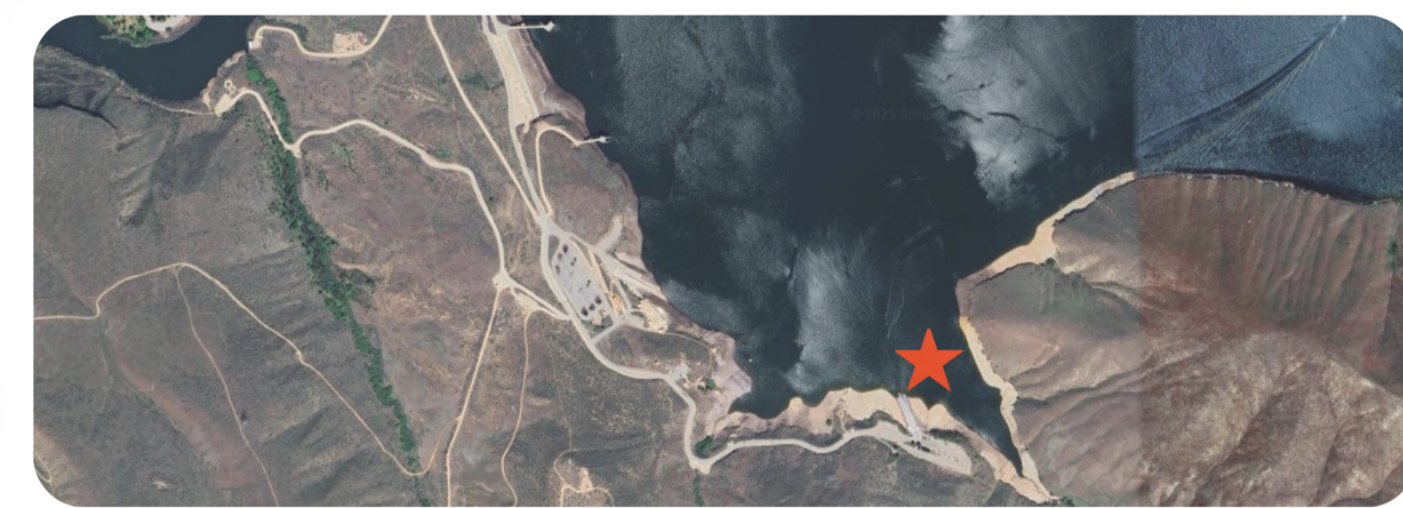
Across communities, the **divide between people and water** continues to grow wider. Climate change, fluctuating water levels, and increasing pollution have made these environments less predictable, while **access to education and safety training** has dwindled. Adults 20-65+ often lack the tools, confidence, or opportunity to engage in meaningful hands-on learning with their local resources and community.

TIDE provides a mobile, semi-permanent intervention that serves as an adaptable learning environment allowing adults to **rediscover a connection to the aquatic world** through technology, interaction, and movement.

Built from reimagined shipping containers, floating on and submerged within natural bodies of water; each container integrates differing needs to help users **deeply understand oceanography and swimming safety skills**. Learners move between programs like the layers of our waters, diving deeper into knowledge and skill level. Sectioned into five zones, users start by entering the space with an introduction to safety skill needs and ending in an immersive "deep-dive" into our aquatic environments with use of virtual reality. Progressing through education topics along the way; first, starting with an understanding of ocean health and vitalization, then hands on experimenting with biological components, and finally understanding some scientific ocean studies. All while offering guided water-safety instruction in open and enclosed waters, ensuring confidence in swimming for students of all ages. A learner's journey through the space will end in immersion that fosters confidence through connection, practice, knowledge, and wellness through water. **TIDE acts as a bridge- between people and the waters that sustains them.**



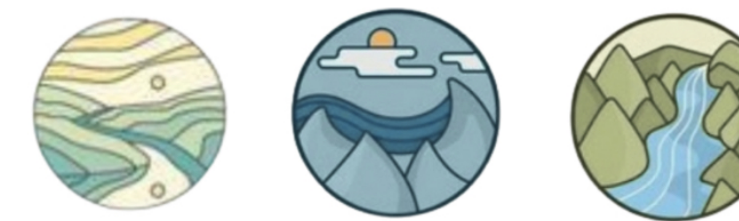
SITE CONTEXT



Mobile aspects of the structure allow for assembly in differing locations. Considerations narrow site selection to **natural bodies of water that are frequently considered unsafe**. With a specific focus on communities in need for generational connection and aquatic education needs. Containers will be movable once separated then placed on wheeled pallets. Water-sealing industrial clamps allow for partial re-connection once on site; interior elements stay intact during transport.

These locations are often:

- Inland Lakes/ Reservoirs
- Rivers & Canals
- Ocean Beaches



WORK CITED

- "IBA Dock / Architech." ArchDaily, 17 Sept. 2012. <https://www.archdaily.com/288198/iba-dock-architech>.
- "4 Types of Learners in Education." Teaching Channel, <https://www.teachingchannel.com/k12-hub/blog/4-types-of-learners-in-education/>.
- Oceanography. National Geographic Education, 23 Jan. 2024. <https://education.nationalgeographic.org/resources/oceanography/>.
- "Swimming: Joint-Friendly and Good for the Heart." Cleveland Clinic Health Essentials, 20 June 2023. <https://health.clevelandclinic.org/swimming-joint-friendly-and-good-for-the-heart>.
- Take a Class: Swimming. American Red Cross. <https://www.redcross.org/take-a-class/swimming>.
- "Drowning Prevention." Centers for Disease Control and Prevention, 16 July 2024. <https://www.cdc.gov/drowning/prevention/index.html>.
- IBA Dock. Internationale Bauausstellung Hamburg. <https://www.internationale-bauausstellung-hamburg.de/en/projects/iba-dock/projects/iba-dock.html>.
- "The Benefits of Swimming." Get Started! Healthline, 22 Aug. 2023. <https://www.healthline.com/health/benefits-of-swimming#get-started>.
- "Why Adults Should Learn to Swim." Jump Start Swimming, 18 May 2022. <https://www.jumpstartswimming.com/newsletters/why-adults-should-learn-to-swim>.
- "Drowning Data and Research." Centers for Disease Control and Prevention, 1 July 2024. <https://www.cdc.gov/drowning/data-research/index.html>.
- Multinautic. "How to build a floating wooden dock." <https://www.multinautic.com/en-ca/how-to-build-a-floating-wooden-dock/>.

FLOATING SYSTEM

