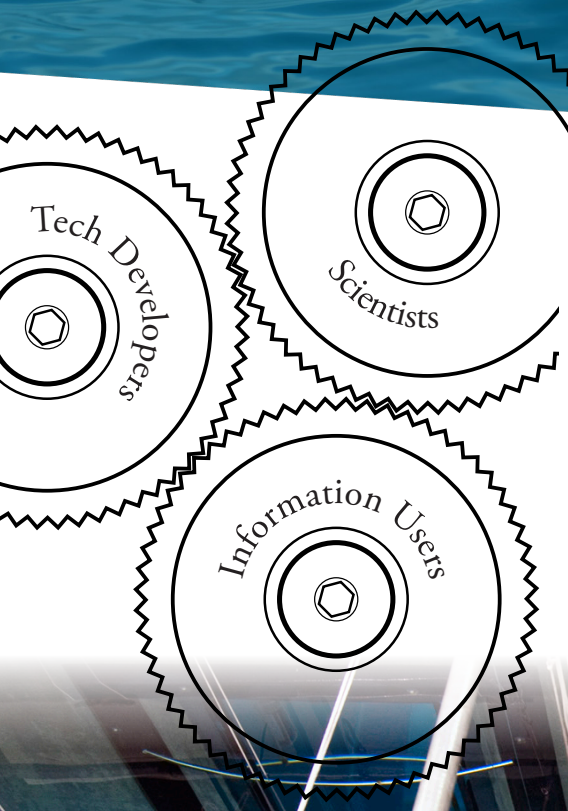
A Co-Designed Testbed to Synchronize and Evolve Technology Solutions

Industry | Ocean Science | Conservation

Synchro



Synchro's mission is to accelerate technology solutions for ocean research.

Our Approach

Synchro provides a testbed for previously-developed technology and involves resource managers and other users of the technology. By calling on these decision managers from the beginning, we SYNCHROnize rapid technology testing in real-world conditions alongside input from technology users, assuring a strong product-market fit. Emerging technology that aligns with its users' needs generates substantial value for the manufacturer and those observing our dynamic ocean.

Why is this needed?

Ocean technology is hard to get from the development stage and into the hands of those who need it. When bringing equipment into full operation, it requires a rigorous testing process before it's proven ready for the market. Thus, many technology companies—particularly small ones—struggle to overcome this hurdle. Synchro aims to propel emerging tech over that "valley of death" and broadcast a newly-tested product to a broad range of users.

Synchro aims to bridge the gap between R&D innovation and widespread adoption of ocean technology

www.oceansynchro.io

How do we get there?

Our approach is user-centered. What needs must be met to adopt new technology? What data is missing in ocean observations? We involve decision and resource managers, engineers, and data analysts from the outset to encourage buy-in of the technology. That collaborative approach is woven into Synchro's three tracks.

Propelling technology evolution in sync with ocean management needs

1. Providing testing and evaluation access for emerging technologies

This includes streamlined access to test sensors and systems at existing ocean observing platforms in Monterey Bay and British Columbia, such as piers, seawater pump stations, buoys, moorings and rafts, and small vessels. It reduces time and cost barriers to testing and evaluation by collaborating with other labs that offer their assets.

APPLY TO TEST YOUR TECH!

2. Low-cost technology evaluation and procurement

The ocean is changing rapidly, and Synchro recognizes the need for low-cost and validated oceanographic tools, particularly those collecting biology and ecology data. Synchro's competitive proposal process will result in the dissemination and evaluation of more promising, field-ready tools that fill gaps in ocean monitoring, and foster synergy between low-cost technology producers and consumers.

3. Conduct a pilot study for monitoring offshore wind impacts

Offshore wind farms will grow substantially in the coming years. That growth necessitates a large ocean observing program, tested and validated market-ready equipment, and a massive amount of scientific information to understand the full effects on the ecosystem from wind farms. Synchro is conducting a two-year field study to assess the effectiveness of new technologies in providing sufficient information about conditions before and after offshore wind installation.

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Sign up to join Synchro's network and receive our updates. You can also apply to our testing program!

2021 2030 United Nations Decade of Ocean Science for Sustainable Development

Synchro is an endorsed action of the Global Ocean Observing System of the United Nations Decade of Ocean Science for Sustainable Development.

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