

Novel Collaborations and Partnerships for Ocean Exploration

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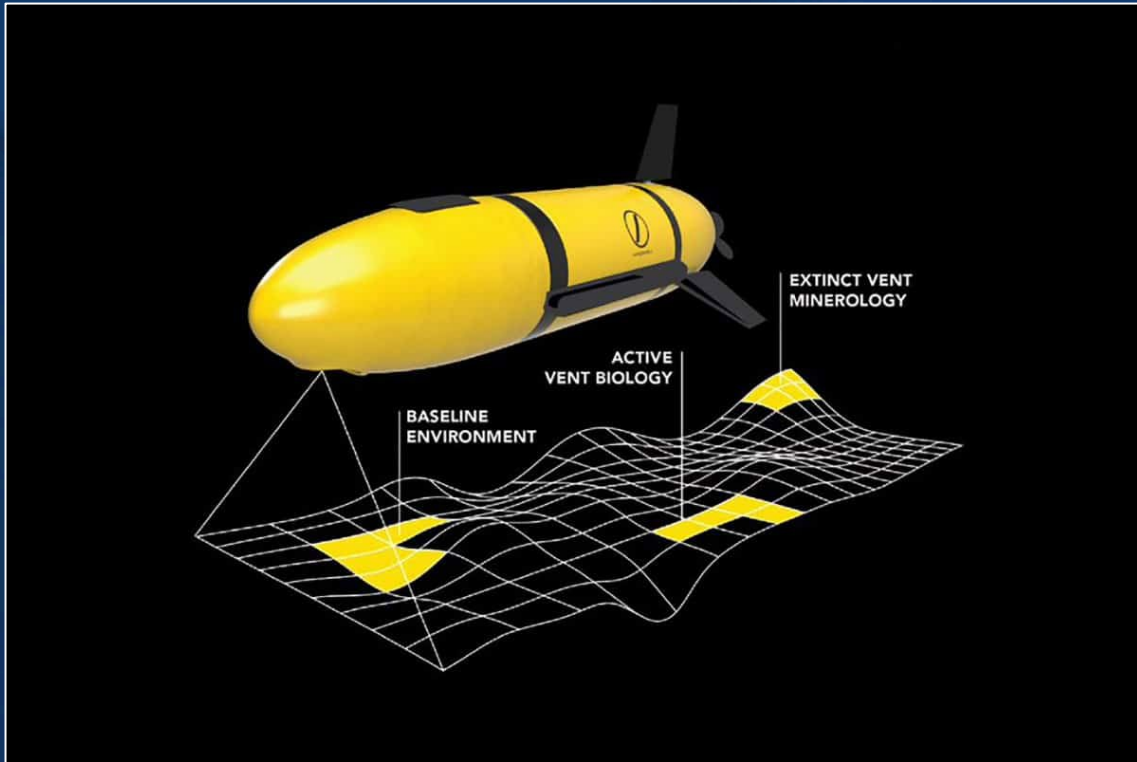
Challenges to Achieving Sustainable Partnerships

- ✓ Creating a vision that a broad spectrum of stakeholders and partners buy into or can accept;
- ✓ Identifying the actions required to achieve the vision in the short term, while also being flexible and resilient in approach to capitalize on the shifting priorities of constituent power structures to increase chances of adequate and sustained funding;
- ✓ Identifying and providing extrinsically motivating incentives for increased levels of engagement; and
- ✓ Appealing to those who are intrinsically motivated to complete the planned actions and build momentum for long-term success.

Overcoming Barriers

- ✓ Data and Knowledge Gaps
- ✓ Research and Applied Science Gaps
- ✓ Technology Gaps
- ✓ Observing Gaps
- ✓ Policy Gaps
- ✓ Changes in Administration Priorities
- ✓ Challenges inherent in predictive modeling
- ✓ Communication Gaps
- ✓ Curve balls
- ✓ Funding Gaps
- ✓ Constituency gap for deep-sea conservation
- ✓ Cultures and incentives within different communities
- ✓ Insufficient trust
- ✓ Assumptions, complacency and blind spots
- ✓ Creating other problems along the way / unintended consequences.
- ✓ Competing Efforts

Partnership Success Stories

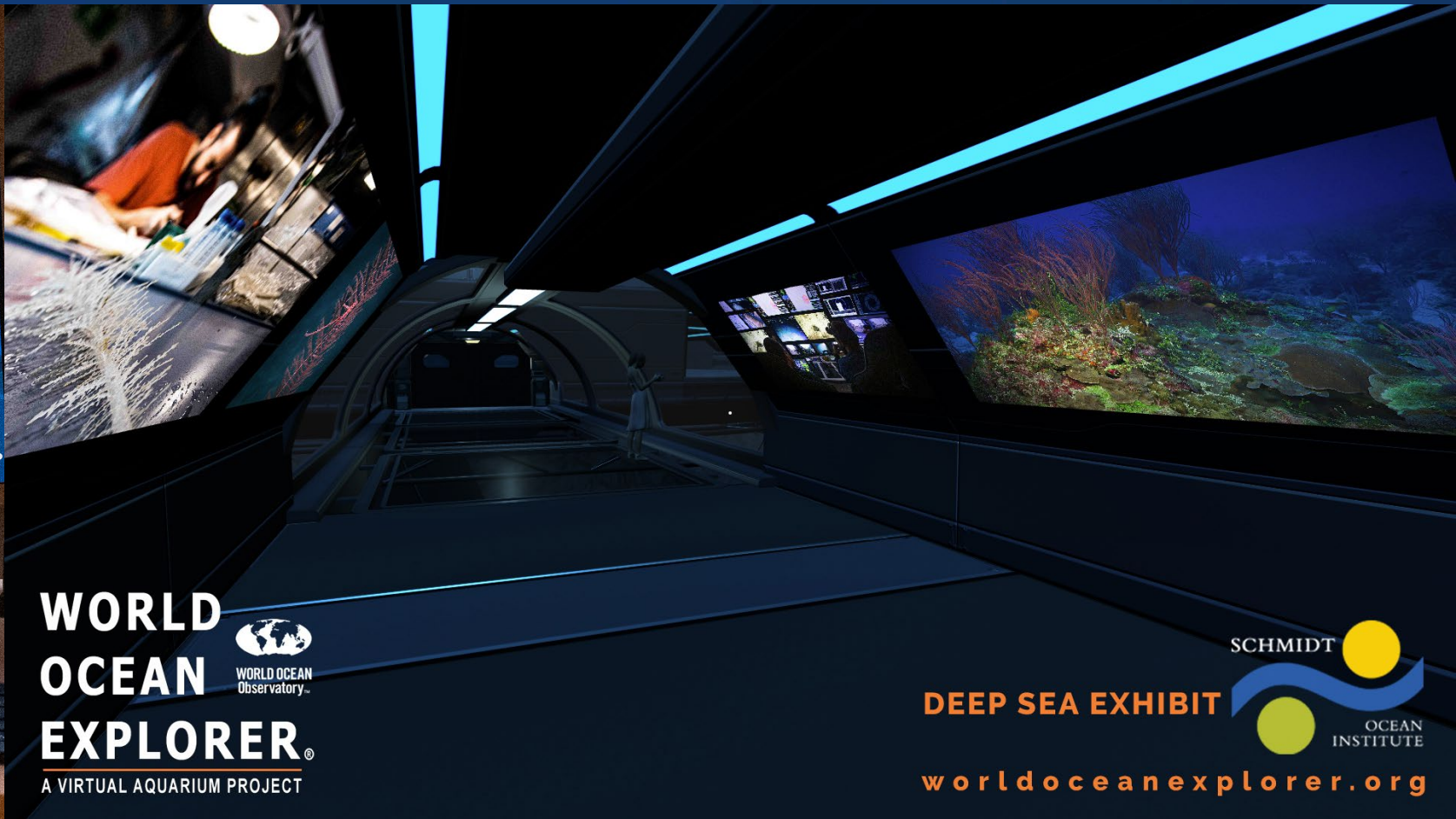


*VIPER: Varifocus In-situ Prospector
for Environment and Resources*



Citizen Science Network for the Amazon

Novel Collaborations and Partnerships - Public Engagement

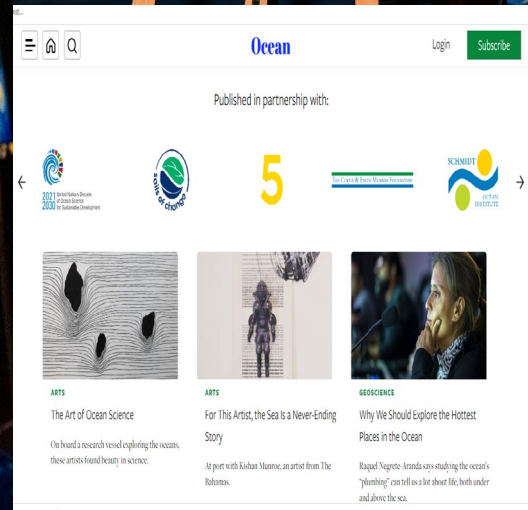
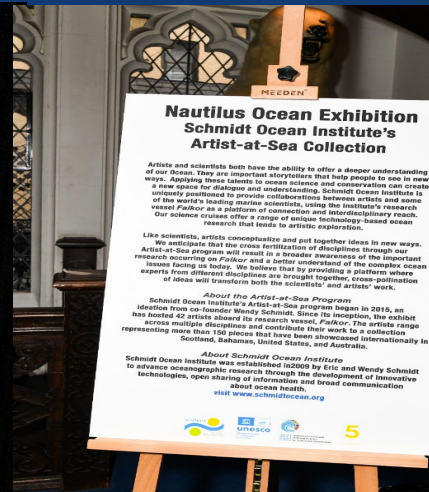


Novel Collaborations and Partnerships - Public Engagement

The image displays the SUBROV interface, which is divided into several sections:

- Header:** "SUBROV UNDERWATER DISCOVERIES" in glowing blue and red text, with a "START" button below it.
- Navigation:** "DIVES PROFILE GALLERY SETTINGS" and "SEND FEEDBACK" (with a close button).
- Map:** A globe showing the "CENTRAL PACIFIC OCEAN" and "HAWAIIAN BEACONS" with a red location marker.
- Text Panel:** "LAST YEAR WE DEPLOYED SEVERAL EXPERIMENTAL BEACONS AT VARIOUS LOCATIONS ALONG A CANYON. THE BEACONS ARE INTERLINKED, ALLOWING US TO LOCATE ALL AT ONCE BY MANUALLY ACTIVATING ANY OF THEM. WE ARE GOING TO TEST THAT THE LINKAGE STILL WORKS AND REACTIVATE ALL THE BEACONS IN THE AREA." Below this is a "DIVE READY" button.
- ROV Status:** "ROV 0.12 Dec 2021" and navigation buttons "PREVIOUS" and "NEXT".
- ROV Control Panels (Left and Right):** Two detailed views of the ROV interface. The left panel shows "ROV ONLINE" with objectives "ACTIVATE BEACONS 0/7" and "OPT-SCAN BEACONS 0/7". It includes a sonar scan, a main view of the ROV, and a control panel with buttons for DOCK, GO, REL, RET, TMS, LIGHTS, ARM, EXT FOCUS, FRAME, REEL, D.POS, HOVER, BCD, and GRIP. The right panel shows "ROV ONLINE" with objectives "ACTIVATE BEACONS 0/7" and "OPT-SCAN BEACONS 1/7". It includes a sonar scan, a main view of the ROV, and a control panel with buttons for DOCK, GO, REL, RET, TMS, LIGHTS, ARM, EXT FOCUS, FRAME, REEL, D.POS, HOVER, BCD, and GRIP. A depth of "09.7 m" is visible in the right panel's main view.

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Ocean Exploration:
BLUEPRINT
2032

Questions for Consideration

- ✓ How does each partner break down silos and other barriers to achieve deep and effective relationships, create an environment of trust, and rise together to meet the ocean exploration challenge?
- ✓ How do partners gain acceptance of the communities the science is intended to help, so that data collection can be transformed into useful information for decision making?
- ✓ How does a partnership achieve a shared vision when its members and stakeholders have differing motivations and mission needs, or operate under different authorities that may be competing with one another?
- ✓ Once overlapping and complementary needs are identified, how should they be communicated (and to whom) so that duplicative efforts are minimized, particularly when resources are limited?