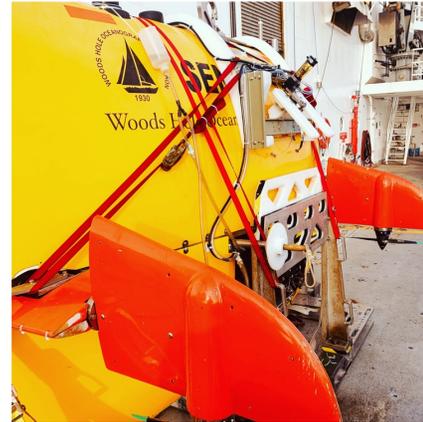


In situ sensing



Successes

New capabilities coming online (especially in bio and chemical sensing)

Vehicles are great test platforms & vehicle teams are very helpful for testing/demonstrating new technologies

Funding opportunities for ocean technology development (NSF, NOAA, philanthropies)

Challenges

- How do we identify new commercial sensors that could become “standard”?
- How do you move from a prototype to a “standard sensor” that many users have access to?
- “Valley of death”

- Iteration is difficult based on cruise schedules

- Often hard to align funding with a cruise opportunity

Opportunities

- New prototyping centers
- How does the community learn about new sensors?
- What are the needs of the community?
- What sensing technologies exist that could be brought to deep submergence science from other fields?

- Are there other approaches for testing?
- How can sensor developers best work with the operators before, during, and after cruises?

- Are there better ways to sync operators and funds?