



Forum for Operational
Oceanography

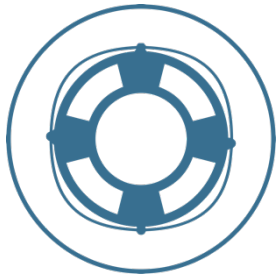
The national context – is ocean focused

- Our blue economy is currently worth \$81 billion per annum and increasing
- Our oceans are taking centre stage through a range of current initiatives and undertakings, including:
 - The United Nations Decade of Ocean Science and Sustainable Development
 - High level Panel for a Sustainable Ocean Economy
- The National Marine Science Committee has just released a Midway Point review to outline recommendations to support our blue economy



The IMOS context

- The Research Infrastructure Roadmap is in development which sets the forward funding window for IMOS
- New research investment plans will be developed in 2022
- Regardless, we continue to work to realise our areas of societal benefit
- IMOS will continue to deliver direct and indirect benefits to industry as we move into the next tranche of NCRIS funding



**Marine sovereignty,
safety & security**



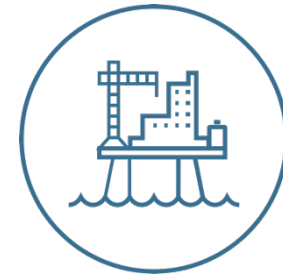
Food Security



**Biodiversity conservation
& management**



Coastal Populations



Energy Security

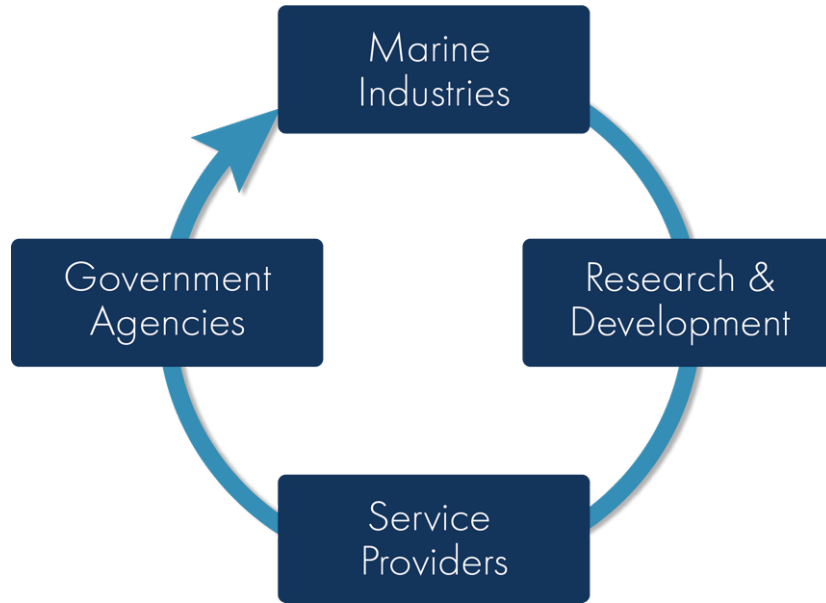


Ongoing relevance of FOO

- Marine industries are ongoing and expanding
- The potential for offshore renewable energy and aquaculture installations is increasing
- Two marine-based Cooperative Research Centres are underway
 - Blue Economy CRC – *“To perform world class, collaborative, industry focused research and training that underpins the growth of the Blue Economy through increased offshore sustainable aquaculture and renewable energy production.”*
 - Marine Bioproducts CRC – *“To transform Australia's emerging marine bioproducts sector into a globally competitive industry.”*



Integration and connectivity of the FOO pillars continues to be critical



FOO Pillars



www.foo.org.au



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Looking to the future



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A changing landscape

- The High Level Panel requires a Sustainable Ocean Plan by 2025
- New and evolving ocean-based industries (e.g. offshore energy, bioproducts)
- New and evolving technologies are coming on line (Spotter buoys, other autonomous observing)
- Increasing need for data and data availability



Continuing to honour the FOO Value Chain



Considering 2022

- An opportunity to meet face to face to discuss ongoing and emerging issues in operational oceanography
- An opportunity to converge with the Australian Coastal and Oceans Modelling and Observations (ACOMO) workshop
- ACOMO supports:
 - Ocean to coastal and ecosystem modelling
 - An integrated national marine observing and modelling capability for Australia
 - The co-evolution and engagement between Australia's integrated marine observing system and our national coastal and ocean modelling capability
- Operational oceanography requires models and both communities could benefit from cross-pollination



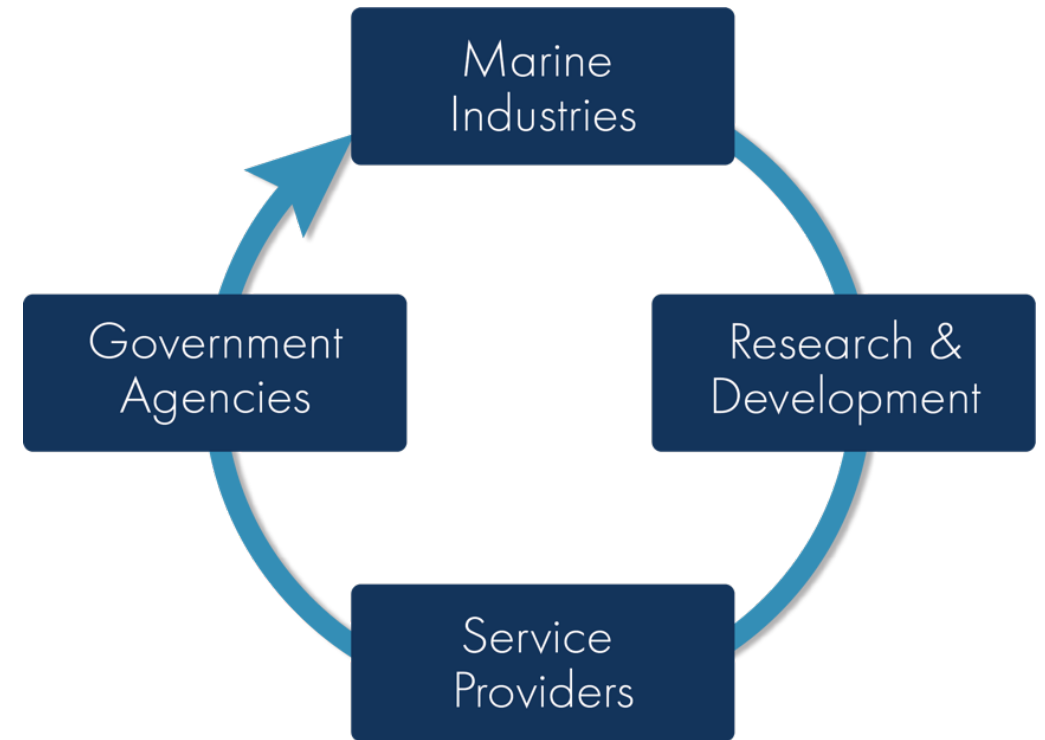
Emerging Themes for 2022

- Emerging technologies and their applications to FOO
- Changing industries and opportunities in operational oceanography (e.g. decommissioning)
- Evolution of wave and current data
- In conjunction with ACOMO, considering:
 - Modelling for heatwaves/extreme events
 - How we support for decision-making on multiple temporal scales
- Please send through any suggestions or requests for topics in 2022. Comments on format and timing are also welcome.



Sustaining FOO into the future

- The Steering Committee needs to be reinvigorated
- One representative from each pillar is needed
- The SC will be supported by staff in the IMOS Office to minimise SC workload
- The working groups will continue and we will continue to provide support – please let us know if you have suggestions for other WGs
- We are looking for volunteers for the Steering Committee, please let us know if you are interested





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