

Marine Monitoring for Evidencebased Action in Caribbean Small Island Developing States

Kristin Qui, Yale University Blue Planet Symposium 2017

Overview

- Introduction to 4M
- Why 4M?
- Framework
- Objectives
- Next Steps
- Opportunities

Introduction to 4M

- 4M: Multipurpose Marine Monitoring Mechanism:
- ✓ An innovative concept to address a long-standing development challenge faced by the Caribbean
- ✓ Partners: UNDP Barbados & the OECS, the GEO Blue
 Planet Initiative and IOCARIBE
 GOOS



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Examples of existing marine monitoring efforts in the Caribbean*

- Caribbean Community
 Climate Change Centre
 (CCCCC): 5 buoys installed in 2013 to monitor coral reefs, for climate modelling in coral reef ecosystems off the coasts of Barbados, Belize, Trinidad and Tobago, Dominican Republic and St. Lucia
- Caribbean Planning for **Adaptation to Climate** Change (CPACC) Project (1997-2001): 18 buoys installed with a data hub at UWI St. Augustine, Trinidad and Tobago. Follow-up project in 2007 with training of 16 participants for maintenance and data collection.

Dependence on oceans in the Caribbean

√70% of population living along the coast¹

✓ Tourism generating US\$25B of revenue annually, supporting 6 million jobs – marine life attracting 60% of the world's scuba divers!

✓ Livelihoods dependent on marine and coastal resources – fisheries, coral reefs etc.¹



What sets 4M apart from other marine monitoring efforts?

- One of a kind system in the Caribbean:
- ✓ Directly involves stakeholders and endusers and addresses their needs
- √ Focus on capacity building
- √ Scaling-up vision
- √ Focus on partnerships
- √ Sustainability



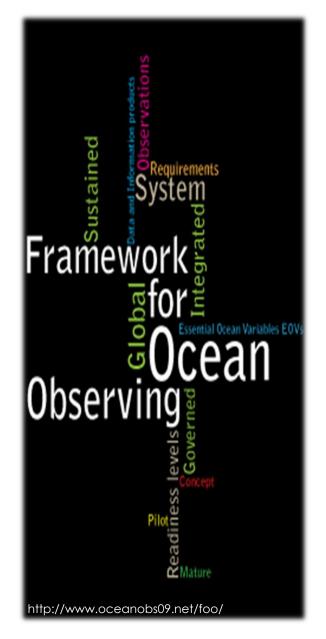




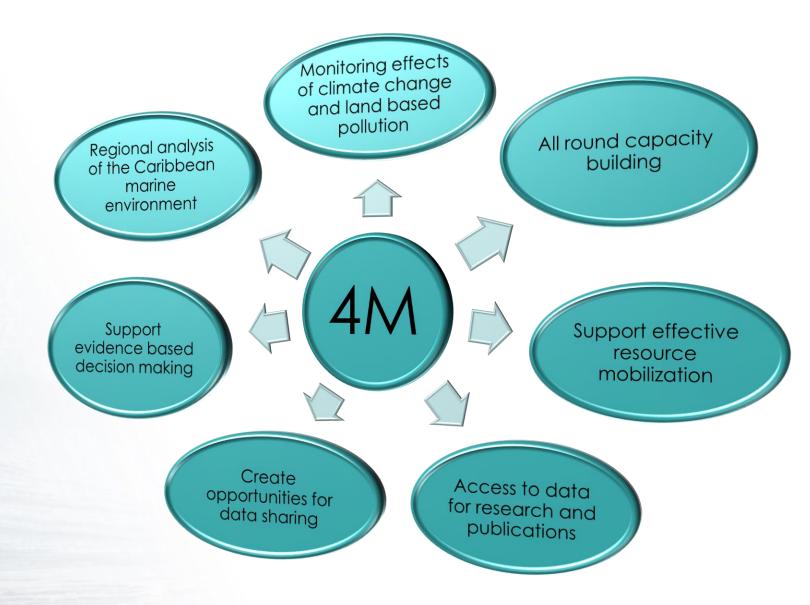
The 4M Framework

- ✓A fresh, holistic approach to system development
- √Collaborative nature
- ✓ Utilizes Framework for Ocean Observing as a basis for development

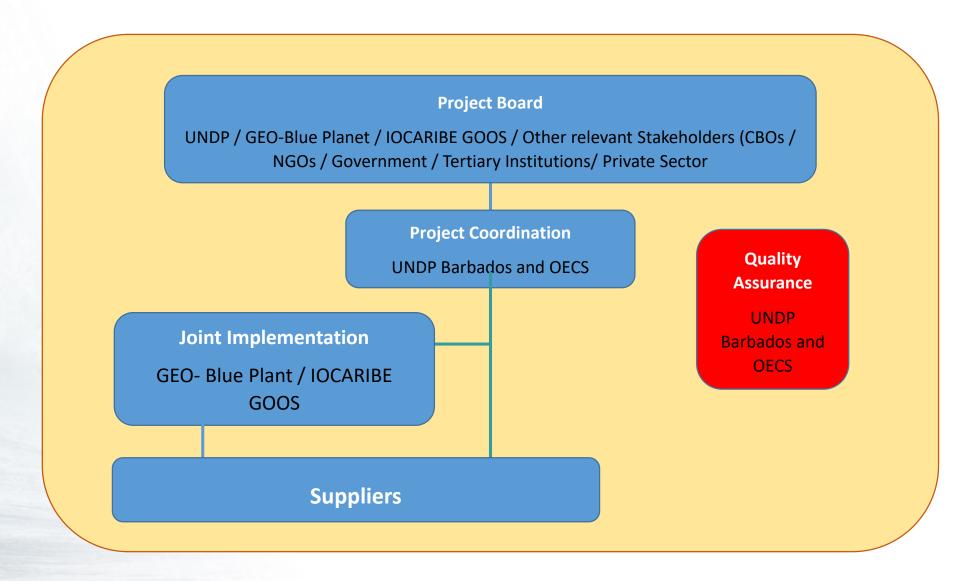




Objectives of 4M



Project Structure



Next Steps

June 2017 -UN Oceans Conference

Jul 2017 -UNDP Project Document Sep 2017 -GOOS Pilot Project Oct 2017 Blue Planet Pilot Project

For more information:

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