Pathway To Sustainable Development of the World’s Large Marine Ecosystems

Dr. Kenneth Sherman
Coastal Resources Center/Graduate School of Oceanography/University of Rhode Island

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HIGHLY PRODUCTIVE LMEs
80% of the World’s Marine Fisheries Catches are produced in LMEs.
LMEs contribute $27.7 trillion annually in ecosystem services to the global economy.
LMEs and UN Movement towards Sustainable Ocean Development

**LME Volumes**
450 Authors
American Association for the Advancement of Science, 4 vols. 1986-1993
Elsevier Science, 5 vols. 2002-2006
390 Marine Journal Articles. 1996-2016

**United Nations**
UNCED 1992
WSSD 2002  EBM support
2012 Rio +20  EBM support
2015 SDG 14  EBM support
5 MODULES WITH INDICATORS

Modular Assessments for Sustainable Development

PRODUCTIVITY MODULE INDICATORS
- Photosynthetic activity
- Zooplankton biodiversity
- Oceanographic variability
- Zooplankton biomass
- Ichthyoplankton biodiversity

SOCIOECONOMIC MODULE INDICATORS
- Integrated assessments
- Human forcing
- Sustainability of long-term socioeconomic benefits

GOVERNANCE MODULE INDICATORS
- Stakeholder participation
- Adaptive management

POLLUTION & ECOSYSTEM HEALTH
- Eutrophication
- Biotoxins
- Pathology
- Emerging disease
- Health indices
- Multiple marine ecological disturbances

FISH & FISHERIES
- Biodiversity
- Finfish
- Shellfish
- Demersal species
- Pelagic species
110 Participating Countries
22 LMEs with GEF Supported EBM Projects since 1994
GEF LME International Waters Projects Operational Strategy

- Transboundary Diagnostic Analyses (TDAs)
- Strategic Action Program (SAPs)

Supports LME Approach to EBM
Engaging with partners

- 5 UN Agencies
  - UNDP
  - UNEP
  - UNIDO
  - FAO
  - IOC UNESCO
- 2 NGOs
  - IUCN
  - WWF
- 2 Global Financial Institutions
  - Global Environment Facility
  - World Bank
- 4 OECD Countries - U.S, Norway, Sweden, Germany