

Turning knowledge and skills into on-the-ground action

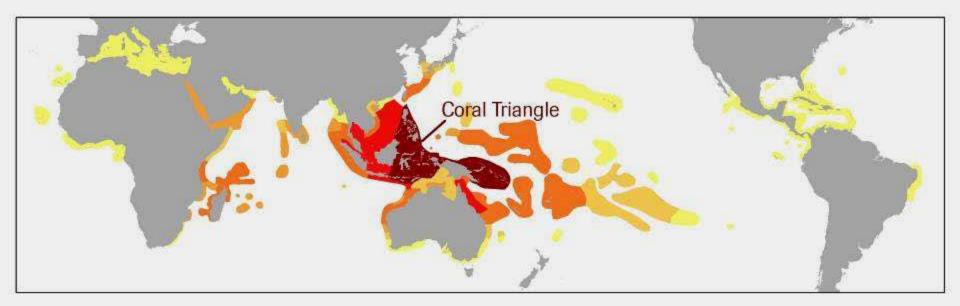
RILI DJOHANI, Executive Director CORAL TRIANGLE CENTER (CTC)

1st Asia Parks Congress, Japan Sendai, 13-17 November 2013



Coral Reefs critical fish nurseries

CORAL DIVERSITY OF THE WORLD



number of coral reef species per ecoregion 0-100 101-200 201-300 301-400 401-500 501-600

Compiled from global distribution data of all coral species by Charlie Veron, Lyndon DeVantier and Emre Turak. Production by Stuart Kininmonth. A product of Coral Geographic, November, 2007.









Background: Threats

- Destructive Fishing
- Overfishing
- Dredging, Mining
- Land-based Pollution
- Sea-based Pollution
- Climate change





CTC Niche

Providers/ Knowledge Centers

Academic Institutions (Universities, Research Centers)

International NGOs (IUCN, TNC, WWF, CI, CARE)

Multi and Bi-lateral Agencies (World bank, ADB, NOAA, USAID, AUSAID)

Financial Institutions (foundations, private and corporate donors)

> Global Organizations (UN Agencies, FAO)



Coral Triangle Center

•Training and Learning: Develop and deliver customized training in a sustainable way

•MPA Learning Sites Site-based conservation

•Learning Networks And Learning Exchanges

•Public Private Partnerships and Policy Dialogues

•Regional Hub Outreach larger public, oneof-kind-facility: interactive exhibitions, library, lab, out- and indoor special events Consumers/ Target Group/Market

Government and Universities (Central, Provincial, District)

Communities (villages, local NGOs, local schools)

Corporate sector (fisheries, energy, shipping, tourism and travel, mining, agriculture, finance infrastructure development)

Media

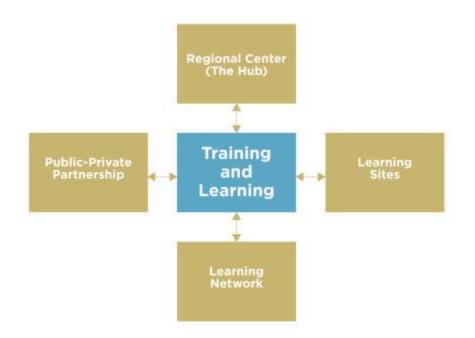
(TV, Radio, Newspapers, Magazine, IT, journalists)

4. Program Overview

CTC Plan: Strategic Overview and Path Towards Sustainability

CTC consists of 5 programs:

- Training and Learning
- Learning Sites
- Learning Network
- Public-Private Partnerships
- Regional Center



1) Training and Learning

Modules

- 1. Principles of Marine Protected Area
- 2. Management Training for Teachers on Marine Conservation
- 3. Marine Conservation Action Planning
- 4. Marine Protected Area Design
- 5. Marine Protected Area Management Effectiveness
- 6.Perception Monitoring
- 7. Dive Training and Introduction to Marine Biological Monitoring
- 8.Reef Health Monitoring
- 9. Marine Resource Use Monitoring
- 10. Spawning Aggregation Sites Monitoring
- 11. Training on Marine Biological Survey/ Observation

12.Facilitation Techniques for Marine Protected Area Public Consultation







1 - Training and Learning

- CTC aspires to train leaders and communities to strengthen their professional competence and institutional capacity to care for marine resources and coastal ecosystems.
- Portfolio
 - 1. Site-based trainings
 - 2. Trainings for MPA managers
 - 3. Training of Trainers
 - School for Marine Resources Conservation and Management (SMRCM)

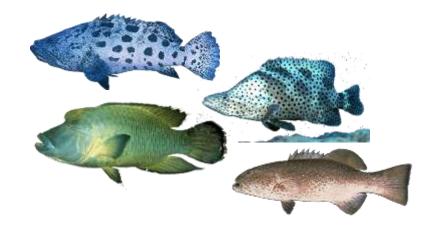






MARINE MONITORING

- Reef Health
- Spawning Aggregation
- Resource Use







"Lifeforms and Substrate"





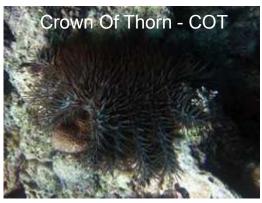












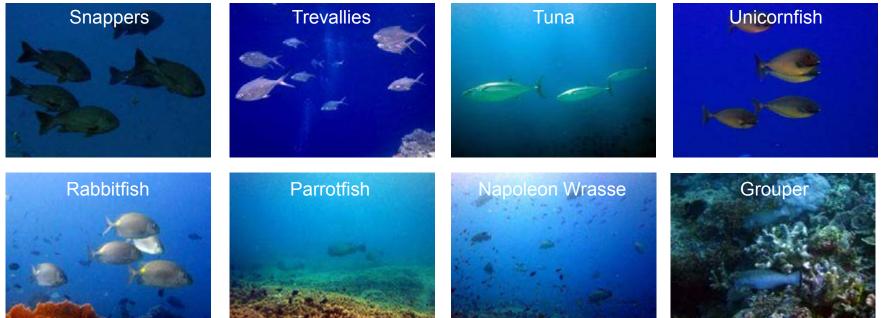


Fish Community

- 1. Visual census
- 2. Commercial Fish Target
- 3. Length Estimation







2) Learning Sites Learning by doing; platforms for learning



NUSA PENIDA

•Design

Management

- •Governance and financing
- •Evaluation

•Facilitation for field training and learning exchanges



- public consultations
- Zoning plans
- Long term- Management Plan







- Southeast of Bali Island
- Nusa Penida Islands: Penida, Lembongan and Ceningan Islands
- Klungkung District 16 administrative villages, 40 traditional villages (mostly Balinese)- 45.000 inhabitants
- Fishers, tourism workers, seaweed farmers, farmers, cattle ranchers
- Coral reefs (300 species), mola-mola, manta rays, cetaceans, sharks, mangroves (13 species), seagrass (8 species)
- Devotion to tradition, rituals and culture, preserving sacred temples: Pura Penataran Ped, Pura Batu Medauh, Pura Giri Putri and Pura Puncak Mundi.

Nusa Penida



Copyright © Robert Delfs 2009

Manta ray (Manta birostris)

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Oceanic Sunfish (Mola mola)

Marine Resource Use

- Overlapping uses of small coastal areas – fishers, seaweed farmers and marine tourism sector
- Fishing activities vs diving sites
- Beaches and adjacent reefs: coastal resorts, marine tour operators vs. Seaweed farming
- Mangrove cutting: firewood for salt production



Overlapping use of resources

Marine Recreational Operations





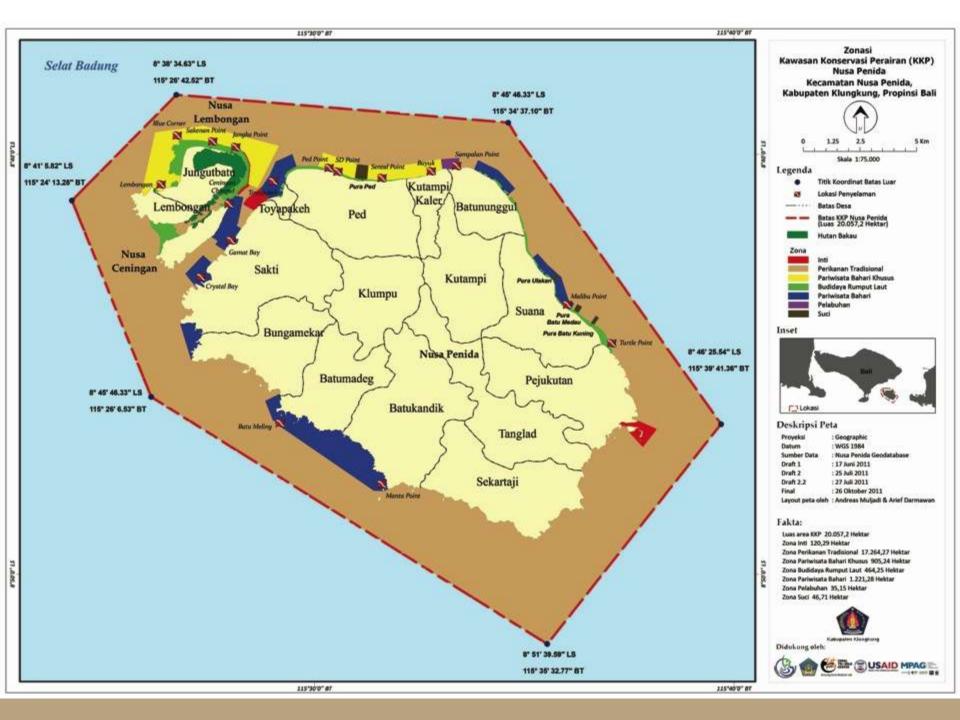
Ecoourism and Seaweed Farming



Participatory measures and actions

- Series of public consultations
 with key stakeholders groups
 Consensus:
 - Establishment of MPA
 - Zoning system
 - Open-closed areas
 - Halt on mangrove cutting practices
 - Mangrove rehabilitation





Nusa Penida Platform for Learning

- Zoning and management plan development
- Management body and sustainable financing mechanism development
- 12 training modules on MPA design and management
- Cross visit programs to other learning sites in CT
- Community empowerment and alternative livelihoods
- Nature laboratory for researchers, universities, and practitioners.



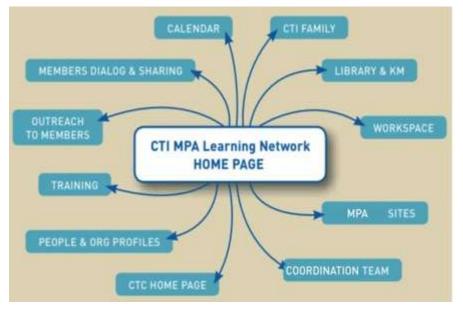


3) Learning Networks

Learning network reaching out to *MPA Managers and Practitioners* in more than *1500 MPAs* in the Coral Triangle.









3) Learning Networks









A triple bottom line for marine protected areas





socially responsible





economically viable





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