JICA's Cooperation for the Conservation and Sustainable Use of Mangroves



Japan International Cooperation Agency

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Contribution of Mangrove to people

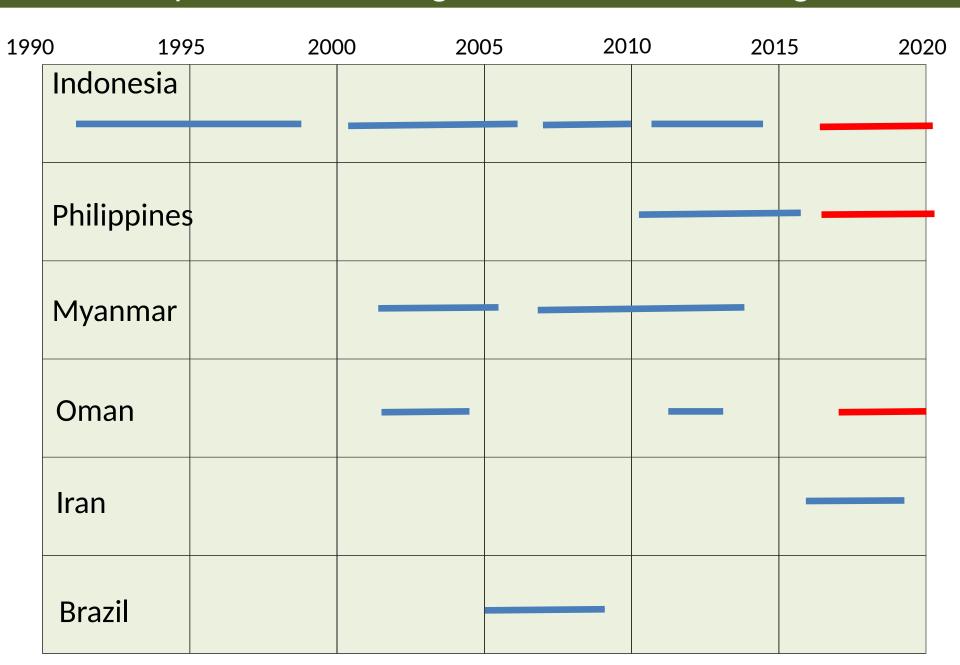
Services	Contribution	Problems
Provisioning	Timber, Fuel, Fisheries, Aquaculture	Deforestation and degradation, water pollution, biodiversity loss
Regulating	Barrier against typhoon and tsunami	Deforestation causes larger damages to people when typhoon
Cultural	Eco-tourism, education, religion	Overuse causes degradation
Supporting	Photosynthesis, CO ₂ storage, Water cleaning,	Climate changes, waste water



JICA's Strategic Themes in Nature Conservation 2015-2020

Overall Goal	Harmonization between Nature Conservation and Human Activities				
Strategic Theme	Addressing Climate Change through sustainable forest management		Enhancement of livelihood in vulnerable	Biodiversity conservation through	
	Mitigation through REDD+	Adaptation through strengthening resilience of ecosystem including Eco- DRR	communities trough sustainable natural resource use	management of PA and its buffer zone	
Relevant IEAs	UNFCCC	UNFCCC Sendai Framework for DRR	UNCCD UNFCCC UNCBD	UNCBD	
Approach	Realization of REDD+ in tropical countries	Disaster risk reduction by using ecosystem	Supporting local communities through green economy	Capacity building and community participation for management of	

JICA Cooperation for Mangrove Sustainable Management



Cooperation for Conservation and Sustainable Management of Mangroves between Indonesian Government and JICA

MoEF in Indonesia and JICA have been working together since 1992 in pursuit of better mangrove ecosystem management in the form of technical cooperation projects, namely:

- 1992-99: The Development of Sustainable Mangrove Management Project --- Development of rehabilitation technique and sustainable management
- 2001-06: Mangrove Information Center Project Development of MIC and its function
- 2007-10: Sub-Sectoral Program on Mangrove --- Expansion of sustainable management to site leves
- 2011-14: Mangrove Ecosystem Conservation and Sustainable use in the ASEAN Region (MECS) Project

Development of Sustainable Mangrove Management Project 1992 - 1996

Goal: Establishing appropriate <u>silvicultural techniques</u> and <u>sustainable</u> <u>models</u> for mangrove ecosystem management in Indonesia.

Project site: Ngurah Rai Grand Forest Park, 1,300 ha mangrove

Outputs

- -Development <u>a center for nursery</u>
- -Handbook of Mangroves in Indonesia (Bali & Lombok)"
- -The Silviculture Manual for Mangroves
- -Nursery Manual for Mangrove Species -at Benoa Port in Bali
- -Rehabilitated 253 ha of degraded mangrove forests in Bali (189ha) and Lombok (64 ha)



Mangrove Information Center Project 2001 - 2006

Goal

Mangrove Information Center (MIC) and its function is established Outputs

- -Mangrove Information Center was constructed.
- -An organizational system to **gather and disseminate information related to mangroves** was established to play a major role in sustainable mangrove ecosystem management.
- -Environmental education and ecotourism programs were developed and implemented.
- The <u>training programs and extension strategies</u> for sustainable mangrove management was formulated.



Sub Sectoral Program on Mangrove 2007 - 2010

Goal

Utilize <u>knowledge accumulated at MIC</u> to promote <u>expansion</u> of sustainable mangrove management <u>throughout Indonesia</u>, by <u>supporting site level conservation activities in line with national strategy</u>

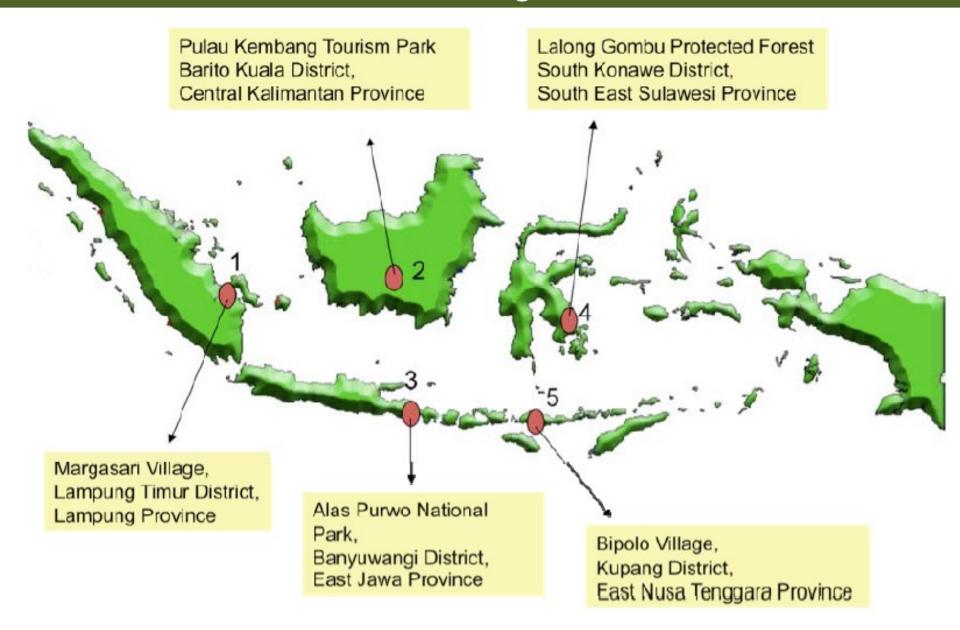
Outputs

- -"Guideline for supporting the on-site sustainable mangrove management" was established through supporting activities at demonstration sites
- -Development of a monitoring system for mangrove resources
- -Capacity of the personnel for implementing functions of MMC (MIC) was enhanced.



MMCs, as one of its functions, promotes on-site mangrove management activities according as the verified supporting process.

Five Demonstration Sites to Expand Sustainable Mangrove Forest Management



Project for "Mangrove Ecosystem Conservation and Sustainable use in the ASEAN Region" (MECS) 2011- 2014

Goal

Cooperating mechanism to <u>share the good practices and lessons</u> <u>learned</u> regarding the mangrove ecosystem conservation and sustainable use <u>in the ASEAN region</u> is developed.

Outputs

in Indonesia

Capacities of MMCs were enhanced to share the good practices and lessons learned for the mangrove ecosystem conservation and sustainable use among stakeholders in Indonesia.

to ASEAN

A cooperating mechanism was proposed to the ASEAN to share the practices and lessons among stakeholders in the ASEAN region.

Activities for "Shared-Learning Program" in Indonesia

2011

Selection of Model Sites

- Visited 7 sites: Surabaya, Balikpapan, Tarakan, Lampung, others
- Criteria: Management efforts by stakeholders, sustainable use with economic benefits to LC, active participation of LC, etc.

2013 - 2014



Organization of Shared-Learning Workshops

- Alas Purwo National Park, Surabaya 2013, Balikpapan 2014
- Workshops developed a framework of action plan.

2012 - 2014



Guidelines and materials for Shared-Learning Program

- Materials were developed through workshop preparation.
- The guideline for "shared-learning" program was published in May 2014.

2014



Output 1. Capacity enhancement of MMCs to share the good practices and lessons learned for mangrove conservation and sustainable use among stakeholders in Indonesia





ASEAN Members

Activities for Developing Cooperation Mechanism in ASEAN

2011 - 2014

Gathering information and discussion with ASEAN member states (AMS)

- Gathering information on mangrove management and good practice in AMS through websites and documents
- Dispatching 11 missions to AMS to discuss regional workshop and symposium, ASEAN Mangrove Network (AMNET)

2012-2014

Organizing "Shared-Learning" Workshop in Indonesia for the ASEAN region

- 1st Workshop in Surabaya November 2012
- 3rd ASEAN Workshop in Balikpapan February 2014
- ASEAN Regional symposium on the mangrove ecosystem conservation and sustainable use in Balikpapan, February 2014

2013

-

Development of cooperation mechanism on ASEAN Mangrove Network (AMNET)

- 1st ASEAN Government Officials' Meetings, March 2013
- -16th ASOF meeting in July 2013, Brunei endorsed AMNET.
- 2nd ASEAN GOM (1st AMNET Meeting) in February 2014, Balikpapan finalized ToR and RoP and Work Plan for AMNET.



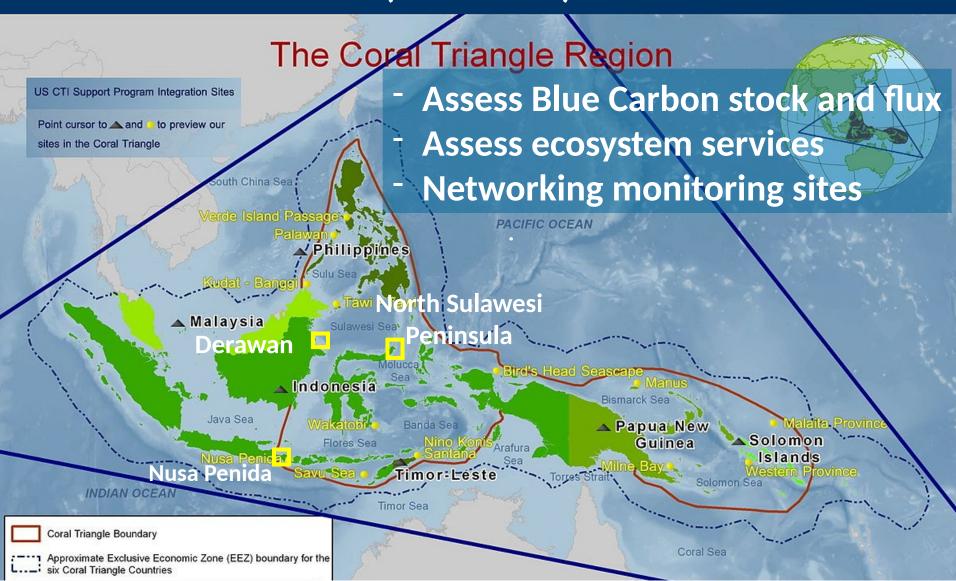






AMNET as a cooperation mechanism for shared-learning among ASEAN region was endorsed by ASOF17, Cambodia

"Comprehensive Assessment and Conservation of Blue Carbon Ecosystem and Their Services in the Coral Triangle" (BlueCARES)



JICA Cooperation Project for Coastal Environment Conservation in Iran and Oman



Conclusion

- Mangrove ecosystem services contribute to people, however, they have been drastically degraded by anthropogenic drivers.
- JICA has been addressing to those issues in accordance with its strategic themes, in cooperation with counterpart countries, and
- Continue our efforts taking into account climate change mitigation and adaptation, enhancement of livelihoods of local communities and biodiversity and ecosystem conservation.

