


# Sustainable Mariculture MEETING AND WORKSHOP

November 27-30, 2007 at The Makassar Golden Hotel,  
Located on The Sea Shore in Makassar,  
South Sulawesi at the centre of the Coral Triangle.



*Bringing Together Concerned Parties and Institutions to Review  
Sustainable Mariculture Opportunities for Tropical Coastal Communities*

## Outcomes

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## Top-Line of Meeting

- **109 actual participants representing**
  - 14 Local and International research Institutions
  - 23 Local and International businesses
  - 10 Donor and Non Gov. Organizations
  - 20 National and local government officials



# Top-Line of Meeting

- **3 Collaboration Agreements were signed**
  - An MOU between Hasanuddin University and the Australian Institute of marine Science
  - A collaborative agreement for the development of Integrated mariculture solutions in the Spermonde Archipeligo between the Faculty of Marine Science and Fisheries Hasanuddin University, Seaplant.net, and Mars Symbioscience Indonesia
  - A collaborative agreement between the Faculty of Marine Science and Fisheries Hasanuddin University and Mars Symbioscience Indonesia for the ongoing development of research capabilities at The Barang Lompo Coral Reef Research Centre and Hatchery



# Top-Line of Meeting

## 20+ Media representing 13 media organizations delivering

- Half page spread in local Fajar newspaper (Dr. Jamaluddin Jompa Interview)
  - 1 hr live radio talk show replayed over a number of stations for the week
  - Several articles with photographs in local newspapers plus anticipated article in monthly magazine for January
  - All raising awareness of the need for action in the development of sustainable mariculture solutions for small island and coastal communities to change long standing poor marine resource management traditions.





## Top-Line of Workshop

- 30 registered participants
  - Completed theory of biorock principles and applications
  - Constructed one dome shaped structure and completed and installed 6 table structures at Pulau Badi for the development of coral farming as part of an integrated sustainable mariculture program for this traditional fishing community.



## Top-Line of Workshop

- The table structures at Pulau Badi are aggregating well although the set of 6 connected to traditionally generated power is doing much better than the set connected to 3x60 W solar cells.
- We have work to do on better energy sources.





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## Top-Line of Workshop

- Photos below taken 11<sup>th</sup> Feb 2008 clearly show aggregation has started and the coral transplanted to date is doing well.



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## Outcomes



**We AGREED that we are all in the same boat and that we need to paddle in the same direction.**



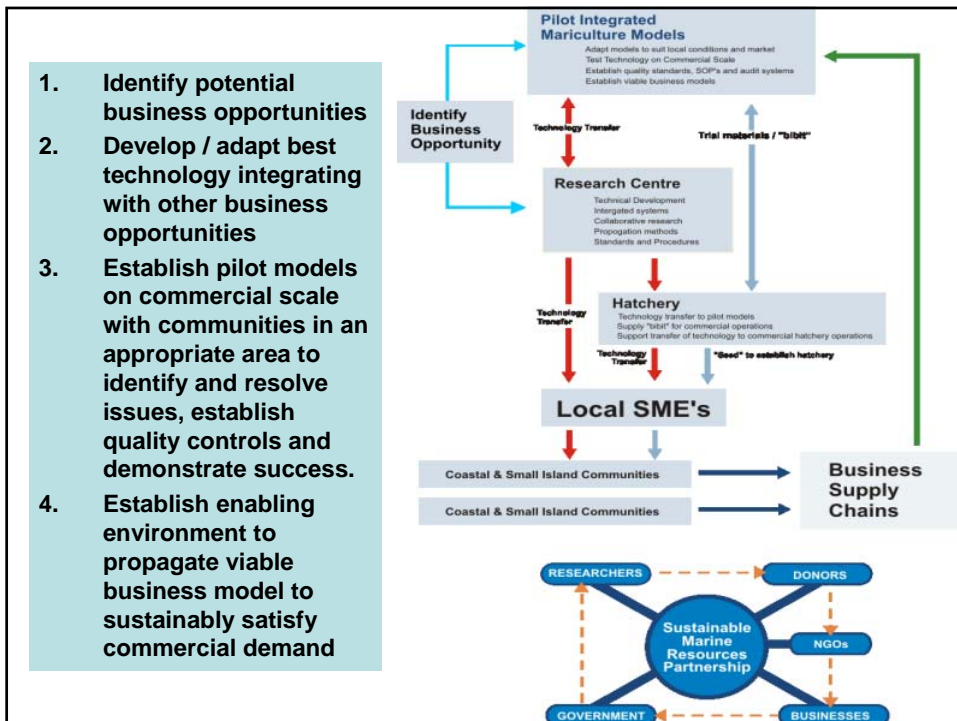
## Outcomes


1. Unanimous agreement on the absolute need for PARTNERSHIPS and that the best solution is to strengthen the Konsorsium Mitra Bahari (KMB)
2. Businesses will play a key role, with researchers, government, donors, communities and community development agencies to drive positive, quality assured change that will be economically and environmentally sustainable over the long term.
3. We need a professional secretariat to better facilitate communications between organizations and regions
  - **Common data base**
  - **Regulations**
  - **Monitoring**
  - **Regular Newsletter / web site**



## Outcomes

4. We need to “pick some winners” and form some activity groups to develop commercial scale activities to develop viable integrated sustainable mariculture models as examples to drive change.
  - **Involve, engage, draw in resources from specific businesses, government, donors, research institutes and NGO’s to develop the momentum necessary to drive sustainable change.**
  - **Communicate progress and successes**
5. We need to build capabilities to develop and adapt technologies we need and there are significant opportunities for collaborative research between local and international researchers.
6. We need to increase our capacity to engage with coastal communities willing to work with us to establish viable business models.
7. We need to create the environment and infrastructure necessary to propagate successful models in a way that drives change and ensures the maintenance of product standards and quality.






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# Picking Winners

### Activity Groups

1. The redevelopment, maintenance and operational support for the UNHAS Marine Research Centre and hatchery at Pulau BarangLompo to support the other activities.
  - The organizations listed below have agreed to work together or are being recruited to redevelop and support the ongoing operations of the UNHAS facilities at Pulau Barang Lompo
    - University Hasanuddin
    - Mars Symbioscience
    - Tiara Mutiara Sentosa
    - ZMT Bremen (SPICE)





## Picking Winners

### Activity Groups

#### 2. Integrated Seaweed, Coral, Ornamental Fish and Fish Mariculture – Pulau Badi

- The organizations listed below have agreed or are being recruited to support the development of an integrated sustainable mariculture business model with the people of Pulau Badi, Pangkep, South Sulawesi
  - Seaplant.net
  - University Hasanuddin
  - Coremap
  - Mars Symbioscience
  - Cahaya Cemerlang (Seaweed)
  - The Indonesian Coral and Ornamental Fish Association
  - ZMT (Bremen)



## Picking Winners

### Activity Groups

#### 3. Integrated multiple seaweed types, Abalone, Prawns, Fish and Sea Cucumber – Pulau Tanahkeke

- The organizations below have agreed or are being recruited to support the development of an integrated sustainable mariculture business model with the people of Pulau Tanahkeke, Takalar, South Sulawesi
  - Seaplant.net
  - Mars Symbioscience
  - Cahaya Cemerlang (Seaweed & abalone)
  - Tiara Mutiara Sentosa (Sea Cucumber)
  - Yayasan Tumbuh Mandiri (mangrove and community development)
  - BBRPBL Gondol (Abalone culture)
  - SEAFDEC (Abalone Culture)
  - LIPI





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## Picking Winners

### Activity Groups

#### 4. Integrated Seaweed with Crab and Fish culture - Laikang Bay, Takalar & Jeneponto, South Sulawesi

- The organizations listed below are exploring the opportunity to reintroduce crab for sustainable management with seaweed and fish mariculture with communities in the Takalar area, South Sulawesi
  - Makmur Hasil Bahari (Seafood)
  - Seaplant.net
  - PPLH (Ctre. for Envir. Ed.)
  - ZMT Bremen
  - Agarindo Bogatama (Seaweed)
  - Mars Symbioscience



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## Picking Winners

### Activity Groups

#### 5. The Application of Seaplants for Agriculture

- The organizations listed below want to work together in the development of fertilizers from seaplants for application in agriculture.
  - Agarindo Bogatama (oil palm)
  - Seatectech Carrageenan (oil palm)
  - Seaplant.net
  - Mars Symbioscience (Cocoa)
  - INCO (Cocoa)
  - Newmont (Horticulture)
  - BRPBAP Maros (Rice)







## Activity Groups

### 6. Supporting Activities

- The organizations listed below want to support the activities of those working together to develop viable Integrated Sustainable mariculture business models
  - KSDA Sulsel - regulations
  - WWF – quality control/standards experience
  - Coremap / DPK (Govt.)
  - World Fish Centre
  - Newmont – Monitoring Sumbawa
  - All participants expressed the desire to remain connected and their willingness to be involved / support activities as they could