

# SCOPING WORKSHOP OF DELTA ALLIANCE INTERNATIONAL INDONESIA WING

*Atlet Century Park Hotel, Jakarta, 2- 3August 2010*



## ***Background***

Management of megacities in delta regions of the world has received greater attention from governments, private sectors, academicians, NGOs, and city and environmental observers. A number of delta regions in the world are under serious various pressures and sustainability challenges, in particular in relations to ecosystem services, economic growth functions, population explosion and various climatic extreme events resulting from global warming.

Indonesia together with the Netherlands, California and Vietnam took an initiative to encourage cooperation among deltas in the world through Delta Alliance International. This international alliance will be formally launched in Rotterdam on September 30, 2010. Experts and representatives from important institutions and governments around the world, including Indonesia, will come to this event to discuss current issues in relation to management of urban deltas, such as Jakarta, Semarang and Surabaya in Java, and deltas that are still predominantly used for agriculture and aquaculture such as Mahakam Delta in Kalimantan, Musi Delta and Batanghari Delta in Sumatra.

The development of Delta Alliance International network in Indonesia was initiated during a round table and the kick-off meeting of the Delta Alliance International in Indonesia (DAII) with stakeholders representing 25 or more institutions and individuals in Grand Melia Hotel, Jakarta, June 29 – 31, 2009. During these activities it was found that:

- There had been many activities in Indonesia on the topic of climate change in delta regions with work being done by many sectors. Delta Alliance might help share the existing and developing knowledge in Indonesia;
- A simple, action-oriented Indonesia Chamber of Delta Alliance was desired;
- A “hotspot” approach – identifying several relevant locations to focus on – might be useful in Indonesia;
- Indonesian partners should determine together a roadmap and initial activities for an Indonesia Wing of Delta Alliance;
- Other organizations in Indonesia that had not yet been contacted should also be involved in Delta Alliance.

## ***Objectives***

The Scoping Workshop of Delta Alliance International Indonesia Wing is a follow up of the 2009 round table and kick-off meeting. Before the scoping workshop, there were series of small workshops (pre-scoping workshops) and a survey through distribution of short questionnaire to various stakeholders that concern with Indonesia deltas. The first pre-scoping workshop took place in Halim, Jakarta on May 24, 2010 and the second pre-scoping took place in LIPI Headquarter Building, Jakarta on July 23. The short questionnaire was sent to potential respondents starting on July 13, and received back on July 23, 2010. These pre-scoping workshops and the short questionnaire helped better prepare a roadmap / program for an initial set of activities for Indonesian partners of Delta Alliance and a structure for DAII, and have successfully identified the leading institutions for each program and the conceptual approach for the DAII programs.

Considering findings from the kick-off meeting and the pre-scoping workshop events, and wider stakeholder representatives, the main objectives of the Scoping Workshop were: to consolidate the Indonesia DA Wing network, to set DAII programs and initial activities in Indonesia, and to discuss the concept of resilience in the Indonesian context. Specific objectives were:

- To inform representatives from all stakeholder groups about Delta Alliance;
- To determine if there is interest in developing an international network on adaptation in delta regions;
- To identify adaptation issues that are most relevant, based on the framework to approach the adaptation needs and the identified user demands (result of the questionnaire);
- To identify champion institutions that will help build the network and lead the
- To identify initiatives that local parties are already involved with, and are willing and planning to undertake in the framework of international delta cooperation;
- To collect ideas for communication strategy and organization of DAII;
- To generate ideas for collaborative projects between Delta Alliance focus regions.

## ***Workshop organizers and supports***

The responsible person for the workshop and the whole series of pre-workshop activities was the coordinator of the DAII. All events were organized by the *International Centre for Interdisciplinary and Advanced Research – Indonesian Institute of Sciences* (ICIAR – LIPI) and the *National Coordinating Agency for Survey and Mapping* (Bakosurtanal).

The organizers received financial support and in-kind contributions from Bakosurtanal and ICIAR-LIPI for organizing pre-scoping workshops and questionnaire survey and assessment. The Delta Alliance International was financially supported by the Delta Alliance International secretariat. Dr. Aart Schrevel, the regional coordinator of DAI for Asia-Pacific attended this event to represent the DAI secretariat and to observe and help the organization of the workshop.

## ***Venue and Participants***

The scoping workshop took place at the Hotel Atlet Century Park, Jakarta, Indonesia on August 3-4, 2010. Fifty participants attended this two-day workshop. They represent a number of national institutions, local governments, universities, international institutions and private sectors, namely:

- National Planning Agency (Bappenas)
- Ministry of Marine and Fishery (KKP)
- Ministry of Environment (KLH)
- National Spatial Planning, Ministry of Public Works (PU)
- Research Centre for Water Resources, Ministry of Public Works (PU)
- National Coordinating Agency for Survey and Mapping (Bakosurtanal)
- National Agency for Meteorology, Climatology and Geophysics (BMKG)
- National Aeronautics and Space Agency (LAPAN)
- International Centre for Interdisciplinary and Advanced Research, Indonesian Institute of Sciences (LIPI)
- Scientific Services, Indonesian Institute of Sciences (LIPI)

- Research Centre for Limnology, Indonesian Institute of Sciences (LIPI)
- Research Centre for Quality System and Testing Technology, Indonesian Institute of Sciences (LIPI)
- Alterra - Wageningen University and Research Centre
- Deltares, the Netherlands
- Triple-A-Team, US
- Urban Solutions
- Division Environment, Provincial Government of Jakarta
- Regional Planning Agency, Provincial Government of Jakarta
- Sam Ratulangi University, Manado (North Sulawesi)
- Tarumanegara University, Pontianak (West Kalimantan)
- UNESCO

## ***Results and findings***

The two-day scoping workshop consisted of plenary and break-out group sessions. On the first day, there were a series of presentations in the form of a key note speech on integrated coastal management in Indonesia by Prof. Tridoyo Kusumastanto from IPB, a presentation to introduce Delta Alliance by Dr. Aart Schrevel from Deltares, a presentation about delta issues and adaptations in Indonesia by Prof. Jan Sopaheluwakan, and a presentation on results of questionnaire by Dr. Heru Santoso. These presentations provided some knowledge background on for the break-out group discussions.

The participants were split into five groups during break-out group session. Each group focused on a specific issue, namely: data sharing and interoperability; risk assessment and ecosystem services; planning and design; governance; and implementation, operation and adaptation. All groups discussed about future delta projects/activities with geographic difference of urban and rural deltas under consideration, identified existing projects/activities that could be used as knowledge or experience baseline, and estimated timeline to achieve targeted objective. All groups reported their discussion results and findings to all participants in a plenary session.

On the day two, there was a guest lecture on climate change in relation with the maritime continent by Dr. Ardhasena Sopaheluwakan, and a session for fine tuning the outputs of group discussions through cross-fertilization, and to discuss new initiatives to link up with international deltas.

Participants were enthusiastic in following the two-day agenda of the workshop and actively involved in discussions both in the breakout group discussions on day one and on plenary discussion on day two.

Some results and findings are as follows:

- On data sharing and interoperability, Delta Alliance International Indonesia Wing (DAII) would develop a data sharing system for Indonesian research network, focusing on specific areas of the network interest, and would develop simple profile data of Indonesian deltas for International and development interest.
- On risk assessment and ecosystem services, DAII would focus on
  - scenario based risk assessment of integrated natural and social hazards,
  - spatial management, integrating ecosystem and disaster risk management,
  - ecosystem economic valuation.
- On planning and design, DAII would use the concept of: ecosystem based planning (urban renewal, with water front city vision for urban deltas and eco-village, with a vision on ecosystem service conservation for rural deltas). Proposed projects targeting on 2030 were
  - DKI Jakarta 2030 development of spatial plan (on-going project), to include climate change adaptation an mitigation, delta city as water city (water front), river basin management emphasizing inter-regional cooperation,
  - renewable energy in the coastal zone,
  - standardized coastal management,
  - zoning regulations, considering rooms for conservation, public services, KSNT, migration/moving line (fish migration, transport),
  - waste management (IPAL),

- Water management (water supply, flood, erosion) for Semarang, Surabaya, Makassar, Manado, Pontianak,
  - Tsunami risk reduction for Bengkulu, Padang, Banda Aceh.
- On governance issue, DAII would focus on problems of conflicting vertical and horizontal authorities and substances, accountability and inter-regional transparency in sectors, partial management, weak laws and institutional structure, with a goal of better good institutional structure and capacity to implement Presidential Regulation 54/2009 by 2030. These would be tackled through establishment and dissemination of a common perception (vision) for all delta stakeholders at national and sub-national levels, benchmarking (pilot plant, demonstration, trial, comparative study), and capacity building, under the proposed activities:
  - establishment of a communication forum;
  - integrated data management;
  - development of model for integrated delta management (IDM), including training of trainers in IDM, training and socialization of IDM at national and sub-national levels, implementation of IDM in potential areas, and comparative study on IDM for benchmarking;
  - development of educational modules targeting young generations.
- On implementation, operation and adaptation, DAII would strengthen the existing activities with the threats from climate change under consideration. For example, holding water longer in land could solve many problems (floods, water supply, sedimentation, erosion, etc). Proposed activities were:
  - For urban deltas:
    - flood reduction with a comprehensive approach,
    - reducing land subsidence (deep water recharge, stopping groundwater extraction by providing sufficient fresh water supply),
    - coastal defense (off-shore dam and land reclamation),
    - waste water management, PROKASIH
    - fresh water supply.
  - For rural deltas:
    - development of polder system,
    - river dredging,
    - mangrove planting,
    - spatial land use planning based on ecological suitability.
- On the inter-regional delta cooperation, in addition to benchmarking on integrated delta management, the participants showed interest on knowledge sharing for:
  - Development of adaptation road map of delta cities, using examples from the Netherlands,
  - Dissemination of integrated delta management in the forms of modules,
  - Capacity building through international training or embedded program in the implementation of pilot projects,
  - Delta resources accounting, data-basing and data analysis, including valuation of tangible and intangible resources.
- On other issues that were discussed and left as DAII homework, including:
  - the organization DAII and its secretariat, how to finance the DAII secretariat, and contribution of the DAII network institutions to organize workshops and/or synthesis papers, and in sharing resources,
  - website development for information display, sharing and data assimilation,
  - development of models of integrated delta management for urban and rural deltas, focusing on deltas that could serve as the landmark deltas in Indonesia.