



The 9<sup>th</sup> AWCI International  
Coordination Group (ICG) Meeting  
29-30 September, 2012  
T o k y o , J a p a n

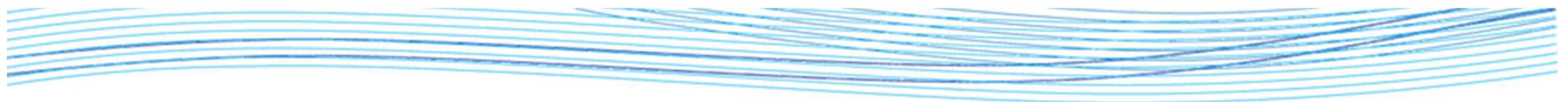
# NARBO Activities and Climate Change Adaptation

**30 September 2012**

**University of Tokyo, Japan**

**Tadashige KAWASAKI**

**NARBO Secretariat / Japan Water Agency**



# NARBO is a network for River Basin Organizations for effective IWRM.

- ✓ NARBO aims to achieve IWRM in Asia by sharing experience and knowledge to improve water governance.
- ✓ NARBO helps to establish and enhance capacity of River Basin Organization (RBO).

**RBO is a practitioner of IWRM.**







# NARBO Officials

## Chairperson



Mr. Keizrul Bin Abdullah,  
Malaysia

## Vice-Chairpersons



Mr. Ivan De Silva,  
Sri Lanka



Ms. Dolora Nepomuceno,  
Philippines



Mr. Tjoek Walujo Subijanto,  
Indonesia

## Senior Advisors



Mr. Basuki Hadimoeljono,  
Indonesia



Mr. Mochammad Amron,  
Indonesia



Mr. Apichart Anukularmphai,  
Thailand

# NARBO Secretariat

**NARBO Secretariat** E-mail:[narbo@water.jp](mailto:narbo@water.jp) URL:<http://www.narbo.jp/>

## Japan Water Agency

Mr. Tadashige Kawasaki  
[tadashige\\_kawasaki@water.go.jp](mailto:tadashige_kawasaki@water.go.jp)  
<http://www.water.go.jp/>



## Asian Development Bank

Mr. Dennis Von Custodio  
[dvcustodio.consultant@adb.org](mailto:dvcustodio.consultant@adb.org)  
<http://www.adb.org/>



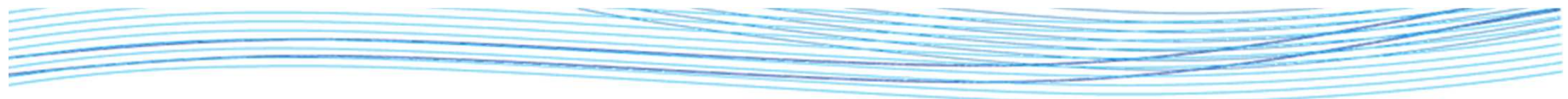
## Asian Development Bank Institute

Mr. Tomotaka Higuchi  
[thiguchi@adbi.org](mailto:thiguchi@adbi.org)  
<http://www.adbi.org/>



## Center for River Basin Organizations and Management

Mr. Fahmi Hidayat  
[hidayat.f@gmail.com](mailto:hidayat.f@gmail.com)  
<http://www.crbom.org/>



# Major NARBO Activities



**Training & Workshop**



**Website & Newsletter**



**Twinning Program**

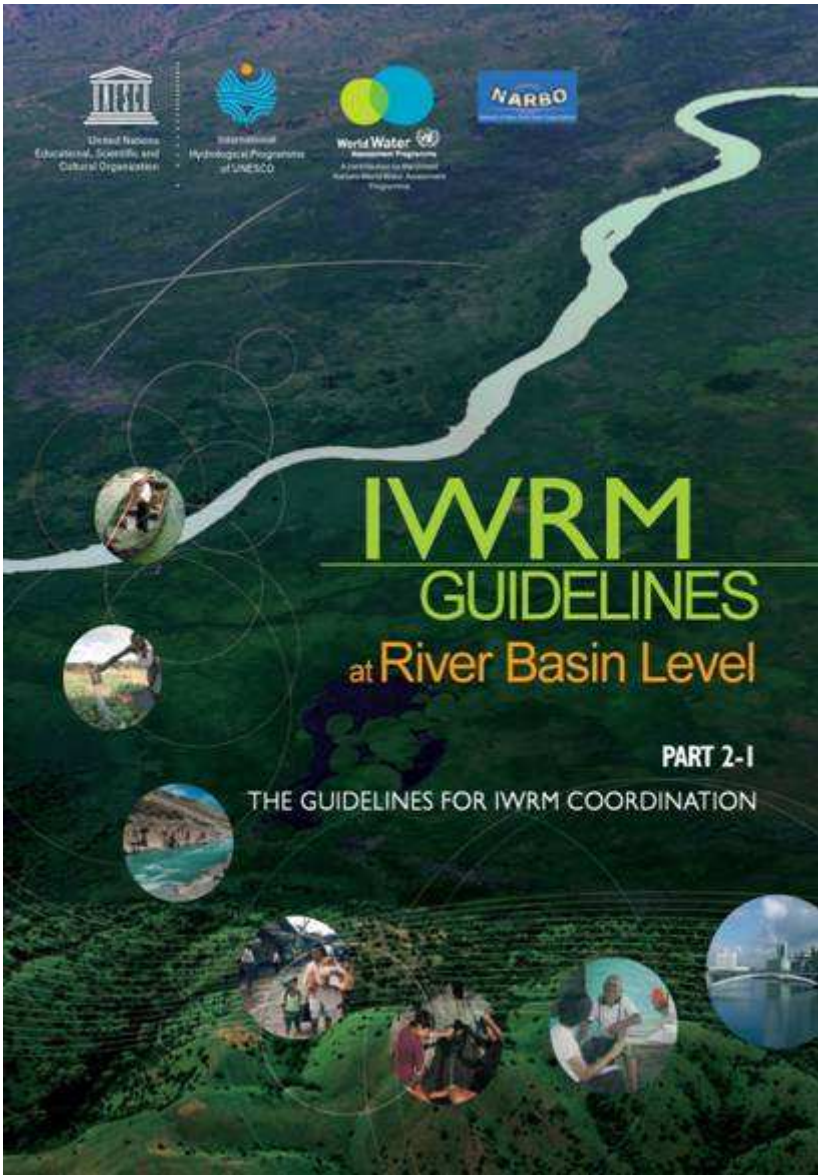
**Sharing Experience, Knowledge, Engineering and Information**

# NARBO's Achievement

## International Seminar on Corporate River Basin Organization in Asia (Indonesia, 14-16 June, 2011)

Discussion Points ; Strengthen and weaknesses of existing types of RBOs in Asia; (ii) application and performance of corporate and quasi-corporate RBOs; and (iii) how governments can determine an appropriate RBO model.





# IWRM Guidelines

## IWRM Spiral

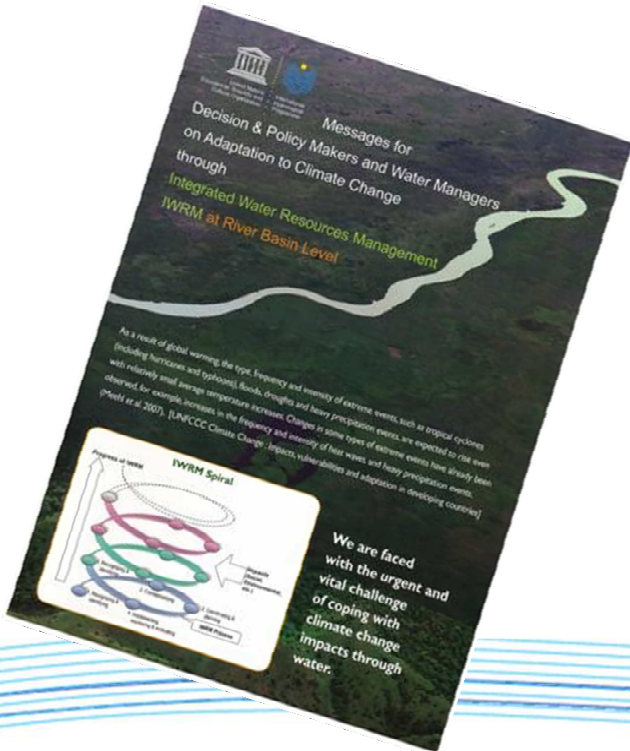
Progress of IWRM





# IWRM Guidelines at River Basin Level

Message for Decision & Policy Makers and Water Managers on Adaptation to Climate Change through Integrated Water Resources Management at river Basin Level



## 11 messages

Message 4 : *IWRM is a practicable tool for adaptive management*

Message 5 : *Strengthening governance at national and at river basin level is key*

Message 9 : *Operations should work with existing infrastructure*

# Workshop on Climate Change Projection and Adaptive Management in IWRM at NARBO's 4<sup>th</sup> General Meeting (November, 2010, Makassar, Indonesia)

## Discussion Points

- (i) How science can be utilized in adaptive water resources management
- (ii) How model-generated projections of future climate can be used in IWRM/adaptive management
- (iii) How managers of river basins can best prepare for the impacts of a changing climate



NARBO 4<sup>th</sup> General Meeting in Makassar, Indonesia, 2010

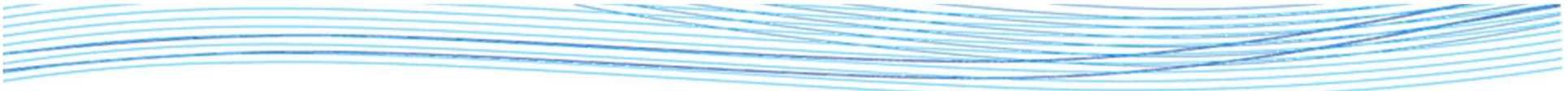
# Workshop on Climate Change Projection and Adaptive Management in IWRM

## Highlights

- ✓ Knowledge on climate change adaptation at global level needs to be harmonized with strategies at local and river basin level
- ✓ Need for NARBO's assistance in predicting / forecasting changes in river or sea levels through data exchange and networking



Climate Change WS in Makassar, Indonesia, 2010



# NARBO's Strategy

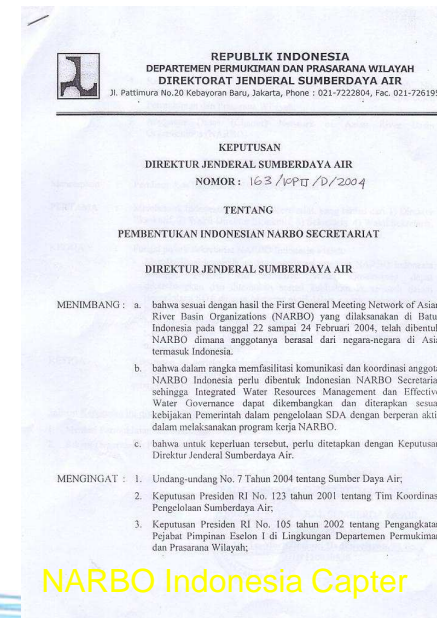
## Enhancing

✓ Effective IWRM in member countries

- i ; 1<sup>st</sup> IWRM Executive Retreat on Leadership in River Basins
- ii ; Promoting National Chapter (e.g. Indonesia NARBO)



NARBO Retreat in Indonesia, 2011



NARBO Indonesia Chapter

✓ **Networking with scientists and other network**

i ; **GEOGEO-UNESCO Joint Workshop on Earth Observations and Capacity Development for Integrated Water Resources Management at River Basins in Africa (Nairobi, KENYA 12-16 January, 2012)**

ii ; **The 5<sup>th</sup> GEOSS Asia-Pacific Symposium (Tokyo, 2-4 April, 2012)**



# NARBO Activities in 2012-2013

7<sup>th</sup> IWRM Training

5<sup>th</sup> General Meeting

2<sup>nd</sup> Asia-Pacific Water Summit





For further information, please visit our website.

<http://www.narbo.jp/>

If you have any questions, please do not hesitate to ask me.

Tdashige\_Kawasaki@water.go.jp