Financing in Malaysia's IWRM

Salmah Zakaria

Director, Corporate Development Division, Department of Irrigation Malaysia Secretary, Malaysian Water Partnership (MyWP)



Kansa al-

Mean Annual Water Resources

Cloud





Rapid Development

- Moved from Agrarian Economy
- Urban Dwellers in Malaysia

- 1970: 26.8%

- 1980: 35.8%

- 1991: 50.7%

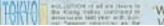
- 2000: >60 %

- 2020: anticipate >65 %





24-26 Feb 2004



Water quality of all Klang Valley rivers has worsened

POLIS POLIS



Dry spell can hit Kedah's 63,000 padi farmers soon

Planting season delayed by a month

By Abdul Razak Ahmad

ALOR STAR, Wed. - The current shortages in several states, can soon affect Kedah's 63,000 padi farmers.

Authorities are delaying the next padi planting season by a month will take extra measures to prevent while awaiting water levels at its wastage of the water." three dams to rise.

The Muda Agricultural Develop-Weng Chaw said water from the son is in September. dams would be released for use in padi planting in three stages, begin- els at the dams were currently sat- the next few months.

Teoh said Mada originally scheduled to begin releasing the water dry spell, which has led to water from Friday, but decided to delay it as the water levels were currently lower than at the same time last

"As such, we hope the farmers

Padi farmers in Kedah plant twice a year, with each seeding exment Authority (Mada) deputy En- ercise spaced about six months gineering Department head Teoh apart. The next padi planting sea-

ning on March 25 followed by April isfactory, prolonged lack of rain for the next few months could lead to shortages during the next planting

> The Pedu dam is now registering an 87 per cent water level, with the critical level at 80 per cent.

The Muda dam was at 56 per cent capacity, six per cent over the criti-cal level, while the Ahning dam was registering an 80 per cent water level, with the critical level at 50 per cent.

Teoh said despite the low water levels at the Pedu and Muda dams, non-agricultural users need not worry as water supply was still Teoh said although the water lev- comfortably above danger levels for

Address root problem of KL flash floods

THE flash floods in Kuala mg and saw hundreds Lumpur on Tuesday caused motorists waiting for the Fir havor in the city. There is noth- Department to drain the wate ing extraordinary about this since Ruala Lumpur has been ment of the parking lot for prone in flooding ever since I inability to drain the water moved here in 1969 to study at quickly because some of it Universiti Malaya.

I remember riding my motorcycle to Kuda Lumpur in Royal Sclangor Club will atte January 1971 when the whole city was inundated.

authorities doing this and that but Tuesday's flood is a good yardstick of how effective these and pointing fingers after a demeasures have been.

In short, what the authorities Have we addressed the m have been doing all this while problem? have not been effective in

car park on Wednesday mors-real problem?

Some blamed the manage pumps were spoilt.

But these who were at th to the fact that the water me within minutes and there wa Yes we regularly hear of the nothing anybody could do.

Are we doing the right thin by only questioning the fac auter?

In the first place how an addressing the mot problem. why have the authorities bee I was at the Dataras Merdeka so last in addressing this peres

Urgent need for cleaner rivers Pollution cited as one





main cause of water supply disruptions

EARTH MATTERS

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WITHIN A RIVER BASIN At of section in a close tend and mater

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Dimensions of IWRM in Malaysia

Infrastructure for management of floods and droughts, multipurpose storage, water quality and source protection

> Policy/ Institutional framework

Management instruments

Political economy of water management

Integrated Water Resources Management

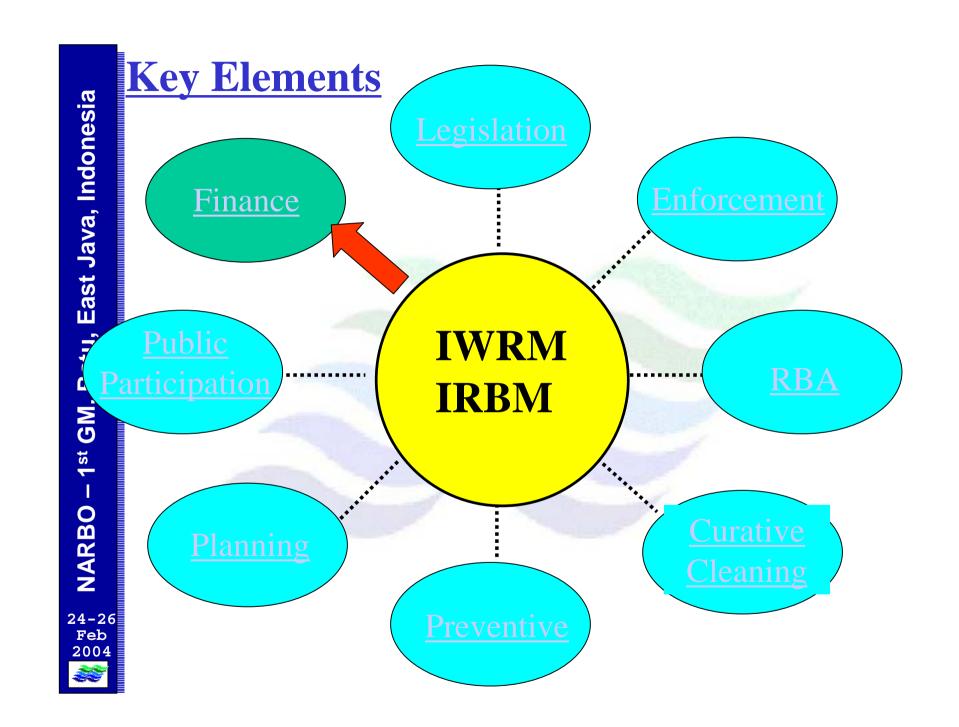
Water supply & sanitation

Irrigation & drainage

Energy Environmental services Other uses including industry and navigation

GWP

Water Uses



FINANCE

- Critical resource for all elements
 - Financial resource must match objective and anticipated results
- IWRM processes have both direct and indirect costs and benefits

Sources of funding

- **Federal Government**
- State Governments
- **International Agencies/NGO**
 - Grants, seed money, to initiate new programs
- Other Stakeholders
 - corporate citizen
 - **■** local communities



Water Resources Funding Arrangements Within Malaysia

- Largely Federal Government, through EPU
 - Identified by projects, services and preventive measures or programs
 - Both, Top Down and Bottom Up
 - From the people at the districts, then state level and then federal level
 - Generally at the recommendation of technical agencies which are sector based

- Request for more funding from EPU, but
- Money is always limited
 - Within a planning period (usually 5yr planning period we are now in our 8th and now planning for the 9th)
 - By the strategy set forth at the beginning
 - By the country's ability to procure the funds
 - By the capacity of the implementing agencies
 - By the priority of programs/projects submitted



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Adoption of over-arching Integrated Water Resources Management (IWRM)



The Third Outline Perspective Plan (OPP3)

Chapter 7 of the Third Outline Perspective Plan (OPP3) on Sectoral Strategies and Practices regarding the Environment highlighted the need for a National Water Policy which would be formulated in the 8thMP to provide a framework for water conservation and management to ensure adequate and safe water supply for the nation. The focus of the policy will be on the integrated riverbasin approach; the protection of catchment areas and reservoirs; and addressing the issues of inter-State and inter-basin water transfers.



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Prioritizing

- High profile Water Issues on the Malaysia's Development Agenda
 - need to create awareness
 - need to have information
- Again, need Funding
- Must engage the Economic Planning Unit, other central agencies and political leaders



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PUBLIC PARTICIPATION

- Participatory approach
 - **■** Involvement of all stakeholders
- Awareness campaign targeting at all sectors
 - Public and Private Agencies, Political Masters, Policy Decision Makers
- Bringing in corporate citizens
 - **Participation and sponsors**
- **■** Education program, for sustainability
 - Working with Ministry of Education, NGOs, Local communities



MyWP – Malaysian Water Partnership

- Non-governmental national consultative body subscribing to IWRM principles and practices
- Established in November 1997 following a National Consultation and formally registered in January 2003 under the Societies Act
- Provides Common Platform for all stakeholders to meet
- Articulate the National Water Vision and its Framework of Vision
- Focuses on Capacity Building to Facilitate IWRM Implementation



Prioritizing

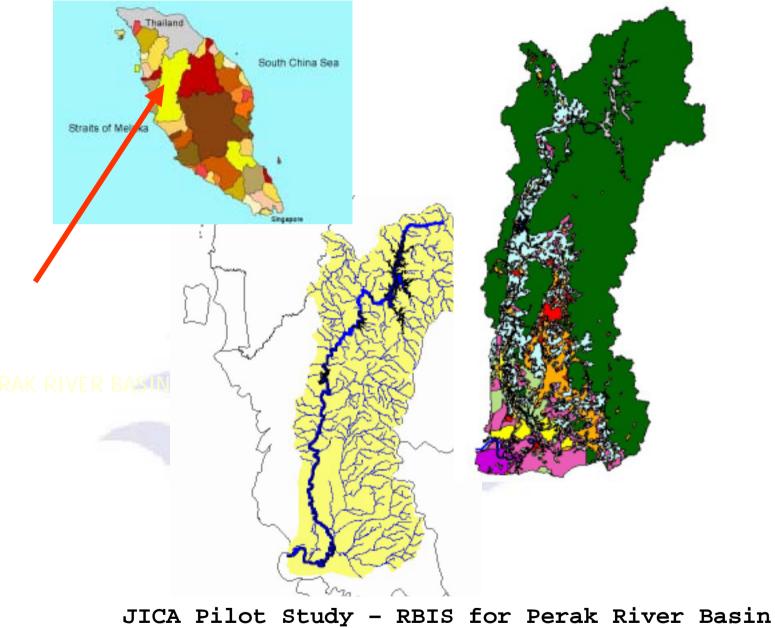
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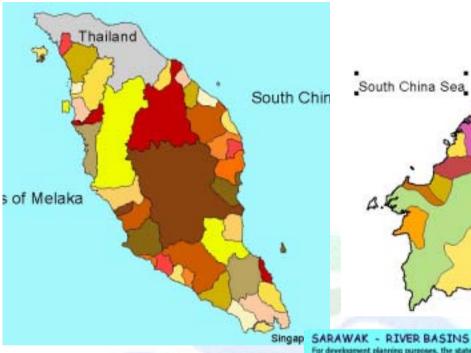


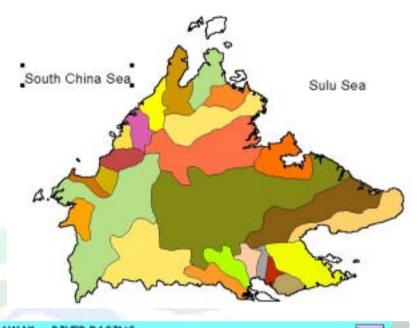
Capacity Building

- Capacity Building
 - Public agencies, Corporate Groups, Public at large
- Data Collation and analysis
 - In all relevant sectors
- Networking and join efforts among all players/stakeholders
 - Public agencies, Corporate groups, NGOs, Public at large
- Technology prospecting, technology capture









189 River Basins in Malaysia



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Engaging the Top Decision Makers

- Present Policy Papers at various meetings
- Invite them to attend workshops and conferences both locally and internationally
- Get international agencies to include them in the networking



2004

Master plan for river basins

Monitoring land use for development

By Jaswinder Kaur

news@nstp.com.my

KINABATANGAN, Mon. - The Drainage and Irrigation Department will formulate a master plan on land use at 150 river basins in the country, its director-general Datuk Keizrul Abdullah said.

The master plan would become a basis for all local authorities to use as it was impossible for the department's enforcement officers to monitor the almost 12,000 rivers in the country.

He said a master plan was necessary as "every inch" of the country was part of a river basin and all activities have an impact on rivers.

Keizrul was speaking after witnessing Agriculture and Food Industry Assistant Minister Datuk Mannan Jakasa close the two-day Sungai Kinabatangan Expedition in Sukau on Saturday.

About 40 people representing government agencies, non-governmental organisations, students and members of the media participated in the expedition which was organised by DID under the "Love Our River" campaign.

Keizrul said integrated plans would be made for major rivers like Sungai Klang and Sungai Langat in Selangor first, while in Sabah, the plan would be for Sungai Kinabatangan which, at 560km, is the longest river in the State.

He said the department aimed to rehabilitate rivers back to Class Three and then down to Class Two.

(Class One refers to pristine rivers: Class Two for rivers which can be used as a drinking source with treatment: Class Three allows for contact sports; Class Four refers to rivers which do not allow body contact; while Class Five is for rivers with poor water quality.)

"DID sees rivers as a heritage we should care for. Rivers provide 98 per cent of our drinking water while the remaining two per cent is from underground water." Keizrul said.

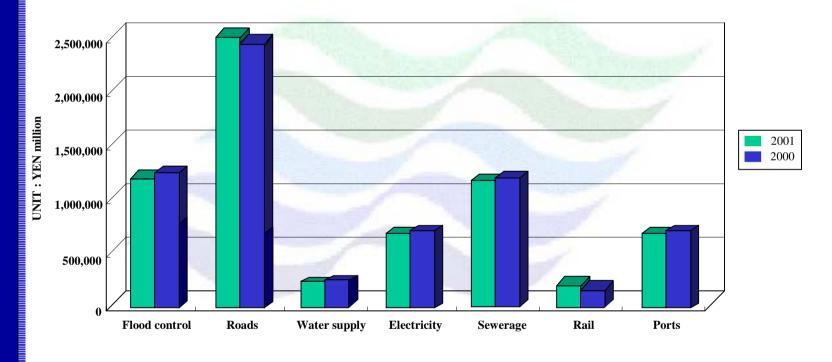
"Rivers are also a source of protein in terms of fish, and provides recreation, economic income, ecotourism and transportation," he added.

Mannan, who represented Deputy Chief Minister Datuk Lajim Ukin, said the Government was committed in its efforts to keep rivers clean.

"In 1998, the State Government passed the Water Resources Enactment to ensure sustainable management of water and to maximise the benefits of rivers.

"We want to make it possible for future generations to continue using rivers as a source of income and for transportation," he said.

Development Allocation for Infrastructure in JAPAN





The Water Scene

- Resources are scarce
- Demands are outstripping supplies
- Environmental/Ecological issues are serious
- Policy and institutional issues are complicated
- Current approach is sectoral and fragmented
- Financing is poor and options are expensive



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Constraints

- Absence of an enabling environment
- General lack of awareness of IWRM countrywide
- Lack of capacity in implementing agencies (public, private and NGO's)
- Absence of Best Management Practices (BMPs) in IWRM appropriate in the Malaysian context

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What do we need

- Help us to engage the policy and political decision makers in the understanding of the IWRM and IRBM processes
 - IWRM and IRBM is more then just managing water resources. It include
 - land within the river basin, the biodiversity
 - the demography, the people, the culture, the economy
 - the power brokers
- On a G to G basis, perhaps, through regional political and economic organisations eg ASEAN, APEC etc
 - Governments have to follow through, the implementation of IWRM processes



...political commitment and awareness are essential to IWRM

a new culture of managing water resources





Thank you