

Mahaweli Authority of Sri Lanka



ROLE OF MAHAWELI RIVER BASIN MANAGEMENT AGENCY ANDIN SASNET-RBO

Presented by:

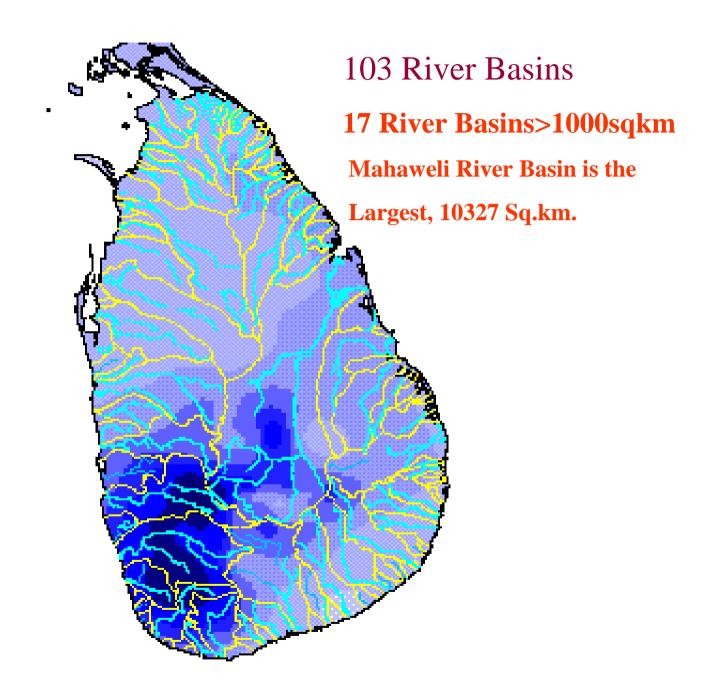
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SRI LANKA – CHARACTERISTICS

- SIZE 65,000 SQ.KM. WITH 103 RIVER BASINS/ 9 PROVINCES AND 25 DISTRICTS
- LOCATED IN SOUTH EAST OF INDIA
- POPULATION 19 MILLION
- RAINFALL VARY FROM 1200 MM TO 5000 MM WITH AN AVERAGE OF 1200 MM
- MAIN OCCUPATION AGRICULTURE
- LITERACY RATE 97%

PUBLIC REFORM POLICY

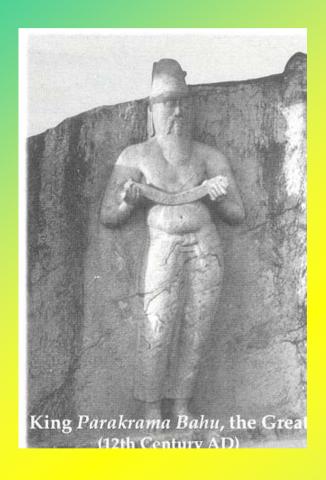
- TO REDUCE BURDEN ON THE GOVERNMENT BY RESTRUCTURING STATE AGENCIES WHERE REQUIRED
- TO PROMOTE PARTICIPATORY MANAGEMENT OF BRANCH AND TERTIARY CANAL SYSTEMS
- TO PROMOTE PRIVATE SECTOR INVOLVEMENT IN PROVISION OF SERVICES AND COMMERCIAL ACTIVITIES
- TO IMPROVE EFFICIENCY OF THE STATE REGULATORY FRAMEWORK



HISTORICAL PERSPECTIVES

- HYDRAULIC CIVILIZATION FOR MORE THAN 2500 YEARS
- 18,000 MINOR, 300 MAJOR AND MEDIUM SIZE MAN MADE TANKS WITH CASCADES
- OVER 60 DAMS
- IRRIGATED AREA -730,000 HA. OF PADDY
- PLANTATION AREA 800,000 HA. OF TEA, RUBBER AND COCONUT
- REDUCTION OF FOREST COVER FROM 70% TO 20% OVER THE LAST CENTURY

WATER AND WISDOM



The Sri Lankan knew the wisdom of the words of their mediaeval king, *Parakrama Bahu* the Great, who declared that

"not a single drop of water received from rain should be allowed to escape into the sea without being utilized for human benefit".

INSTITUTIONAL ARRANGEMENTS

• MAHAWELI AUTHORITY OF SRI LANKA (MASL) WAS CREATED TO ACCELERATE MAHAWELI DEVELOPMENT SCHEME TO BE COMPLETED IN 6 YEARS FROM 1979

• MASL ACT WAS UNIQUE IN REPLICATING ALL DEVELOPMENT AND MANAGEMENT RELATED LEGAL FRAMEWORK IN MAHAWELI SPECIAL AREAS

DEVELOPMENT OBJECTIVES

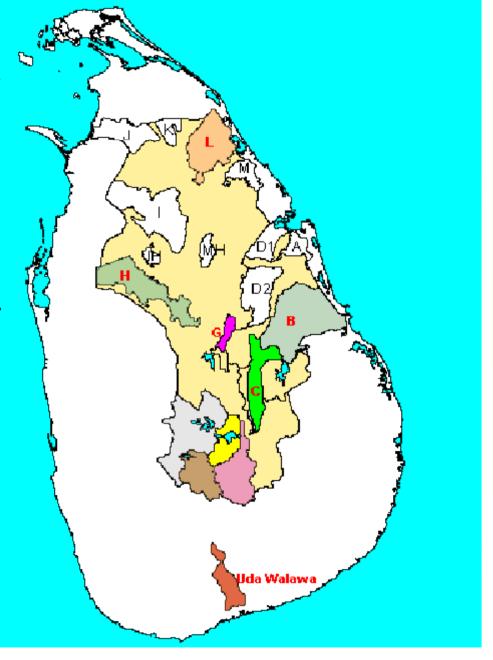
Mahaweli Master Plan

30% of Land area of Sri Lanka 55% of Land area of Dry Zone

Total Irrigable Area: 363,769 ha.

Development Objectives

- Land Settlement
- Food Production
- Power Generation



MASL ACHIEVEMENTS

- CROPPING INTENSITY INCREASED FROM LESS THAN 1 TO MORE THAN 1.5
- YEILD INCREASED FROM 3.5 MT TO 4.7 MT
- CONTRIBUTED WITH 25% FOR NATIONAL PADDY PRODUCTION AND 50% FOR POWER GENERATION
- COST RECOVERY WITHIN 10 YEARS OF THE PROJECTS BY WAY OF IRRIGTED AGRICULTURE AND HYDRO-POWER
- LIVING STANDARDS OF THE RURAL COMMUNITIES IMPROVED
- CONTRIBUTED FOR EMPLOYMENT GENERATION
- PROMOTED PARTTICIPATORY MANAGEMENT OF TERTIARY CANALS

WATER SECTOR REFORMS – ISSUES

WATER SHORTAGES AND INCREASED COMETITION

• LACK OF WATER ALLOCATION MECHANISMS (PLANNING AND REGULATION)

DEGRADATION OF WATER QUALITY

• DEGRADATION OF WATERSHEDS / WATER SOURCES / RIVERINE AREAS

• LACK OF INSTITUTIONAL MECHANISMS FOR WATER RESOURCES MANAGEMENT

WATER SECTOR REFORMS – ISSUES (CONTD....)

• WATER RELATED ENVIRONMENTAL DEGRADATION (LACK OF CONCERN TOWARDS ENVIRONMENTAL FLOWS TO SUSTAIN WETLANDS, BIO-DIVERSITY, WILDLIFE ETC.)

• WEAK IMPLEMENTATION OF REGULATIONS ON WATER

POLLUTION

• LACK OF AWARENESS ON MANGEMENT ASPECTS

WEAK COMPLIANCE MONITORING

• NO PROPER LAND USE ZONING GUILDELINES NOT FOLLOWED



RESTRUCTURING OF MASL

- CHANGED FROM DEVELOPMENT TO A MANAGEMENT PHASE FROM EARLY 1990s
- FOLLOWING NATIONAL WATER POLICY, SHIFTED THE EMPHASIS TO IWRM WITH A FOCUS ON RIVER BASIN PLANNING, MANAGEMENT AND DEVELOPMENT
- JURSDICTION TO CHANGE FROM IRRIGATION SYSTEMS TO BASINS WITH MAHAWELI AND ADJACENT BASINS THAT RECEIVE MAHAWELI WATERS

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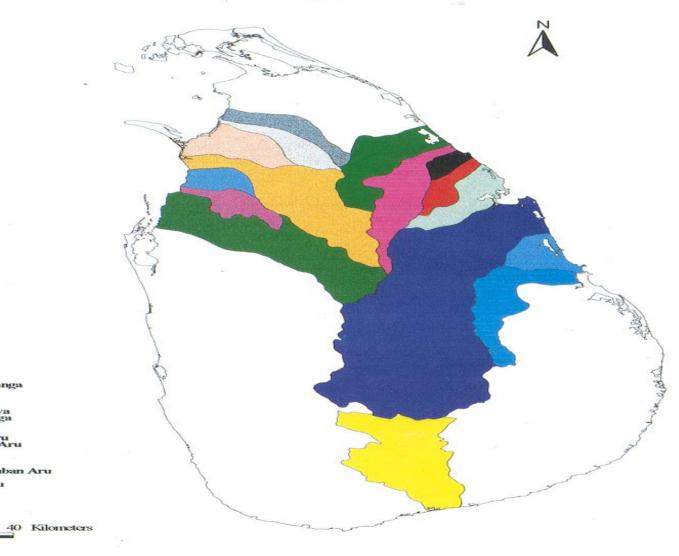
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MAHAWELI RESTRUCTURING PROCESS (CONTD....)

- APPLICATION OF IWRM PRINCIPLES ON A PILOT BASIN THROUGH COMPREHENSIVE PLANNING FOR WATER AND OTHER NATURAL RESOURCES MANGEMENT IN KALA-OYA BASIN
- DRAFT COMPREHENSIVE PLAN IS READY FOR CONSENSUS BUILDING AMONG BASIN STAKEHOLDERS AND POLICY MAKERS
- MASL WOULD TRANSFORM TO MAHAWELI RIVER BASIN MANAGEMENT AGENCY TO FOLLOW PILOT BASIN EXPERIENCES IN FIVE BASINS

River Basins Making up the Mahaweli Project Area.

River basins
Mahaweli Ganga
Maduru Oya
Yan Oya
Yan Oya
Kala Oya
Malwafhu Oya
Walawe Ganga
Parangi Aru
Ma Oya
Pankulam Aru
Modaragam Aru
Pali Aru
I Sal Aru
Kan Chila





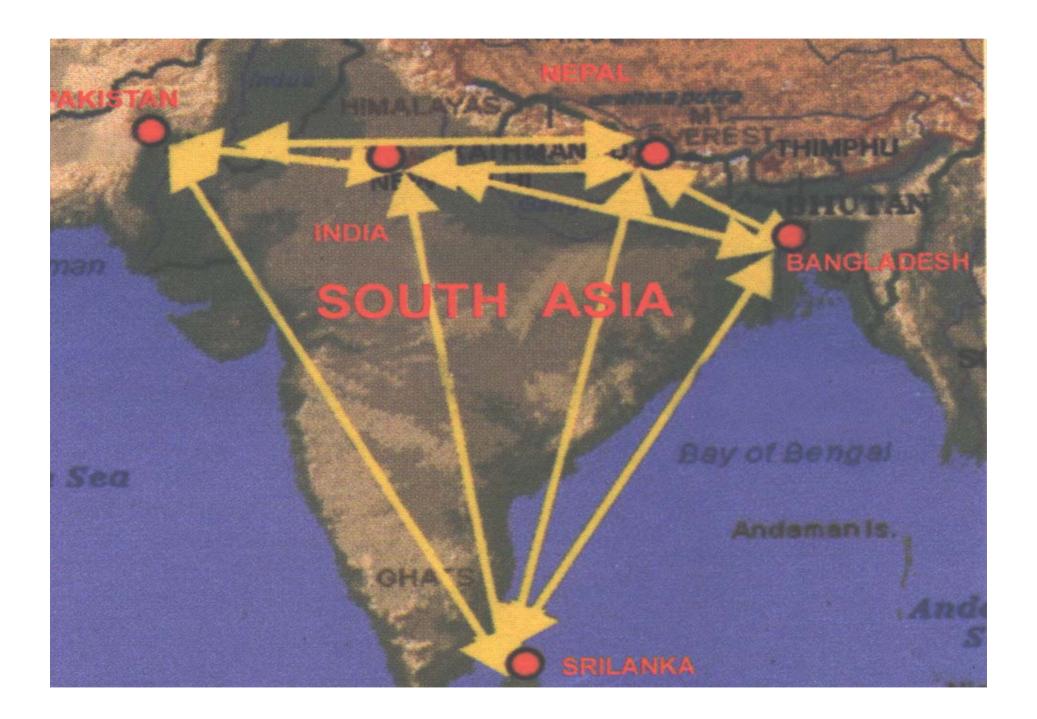
GWP-SA has identified Member Countries in the Region to take the Lead Role in certain activities each country was good at, by vertue of their interest in and Experience.



South Asian Regional Workshop on Sustainable River Basin Management held in Sri Lanka in July 2000.

International Conference on
Sustainable Development of
Water Resources

27th - 30th November 2000,
New Delhi



Objective of the SASNET - RBO

- To increase the understanding of River Basin Management including possible organizational design, management tools and processes leading to their definition and implementation.
- To support processes critical to effective River Basin Management where there is a felt need for improvement of river basin organizations.
- To support building of national and regional linkages between existing, incipient or embryo RBOs.

Current Partners of SASNET - RBO

- Bangladesh
- India
- Nepal
- Pakistan
- Sri Lanka

Role of Mahaweli in

SASNET - RBO

Mahaweli Will:

• Lead/Coordinate

and Manage the
Network with the
Participation of
Partners from all
South Asian

 Link with other GWP Regions, INBO, Networks and Centers of Excellence

What the Network will do in future

- Identify Partners in South Asia
- Workshops in Individual Countries to get their views and Commitments
- Identify Pilot River Basins
- Develop a Core Group of Professionals in South Asia on River Basin Management
- Link with INBO & other Networks
- Twinning Arrangements
- Exchange of Information and Experiences/Best Practices
- Develop Different RBO Models.

2004/9/30 25

Regional Planning Meeting

of

SASNET - RBO was held in

Kandy, Sri Lanka, in January 2002,

To

Develop a 3-Year Work Plan and Budget (2002-2004 based on which a Proposal for Funding an Expanded Program will be Developed.



Proposed Work Plan for 3 Years

Consensus were given by the participants for the **following functions** and activities for the Work Plan

- Objectives
- Expected Results
- Activities
 - * Identification of Key Members of the Network
 - * Identification of River Basins
 - * Monitoring
 - * Linkages and Partnerships
 - * Communication
 - * Continuity
 - Outputs
 - Reports
 - Publications
 - **Services** 2004/9/30

Time Frame
has also been
Developed
for 3-Years

RIVER BASIN ORGANIZATIONS (RBOs) WILL NEED TO BE TAILORED TO THE SITUATIONS AND CONSTRAINTS FACING INDIVIDUAL COUNTRIES.

Thank you