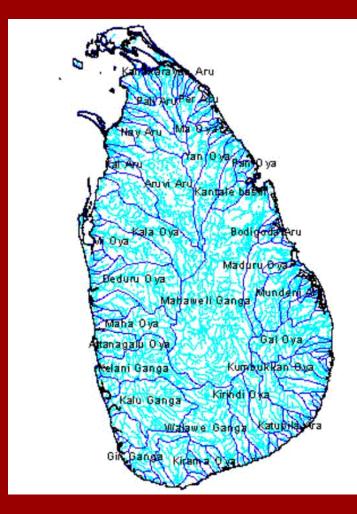
Introduction to Kala-Oya Basin Organization (Pilot Project)

Vital Statistics – Sri Lanka

- Land extent 65000 sq km
- River Basins 103
- Rainfall received annually - 12 m ha. Meters of water
- Evaporation

Loss - 50% of Rainfall

- Seepage Loss 20% of Rainfall
- Available as stream flow - 30% of Rainfall

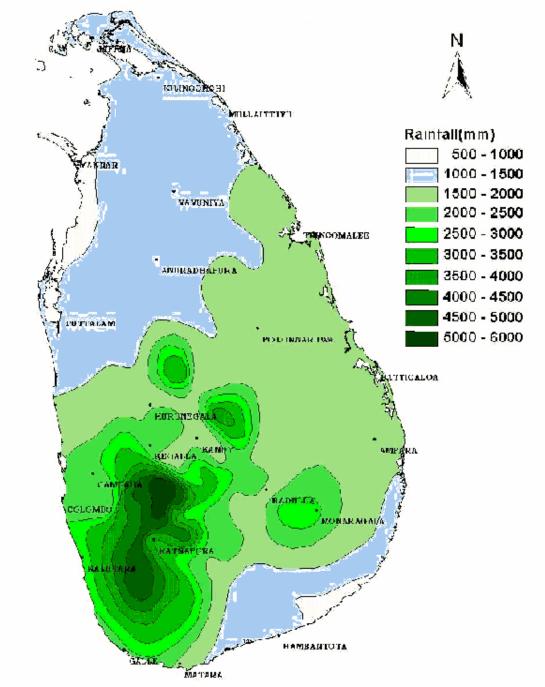


River Basins in Sri Lanka

Available water for use – 30% + 20%

- For Agriculture and to meet all Human, Animal and Plant needs.
- For Drinking
- For Bathing and washing
- Energy
- Others

AVERAGE ANNUAL RAINFALL



Dry and Wet zones of Sri Lanka with average annual rainfall

Mahaweli Development Project its Goals and Achievements

- Mainly for the irrigation purposes in the Dry Zone.
- It is a multi-purpose river basin development project.
- Project cost was about Rs. 92 billion
 (as at 2004)

Increased Power Generation capacity by - 137% Paddy Cultivation Area of Mahaweli - 16%

 Total Paddy Cultivation Area of the Country.
 Mahaweli Paddy Contribution - 25% of National Production
 Mahaweli Power Contribution - 55% of National Power Generation (1994 - 95)
 Mahaweli has already recovered the cost. After completion of the project, several new issues/problems were identified in the project area which need early attention

- River Basin environment being increasingly threatened
- Erosion, destruction of vegetation, solid waste dumping, riverine encroachment etc.
- Increasing water pollution.
- Problematic allocation of water for competing demands, (agriculture and hydro-power competition, Drinking water, Environmental requirement etc.)

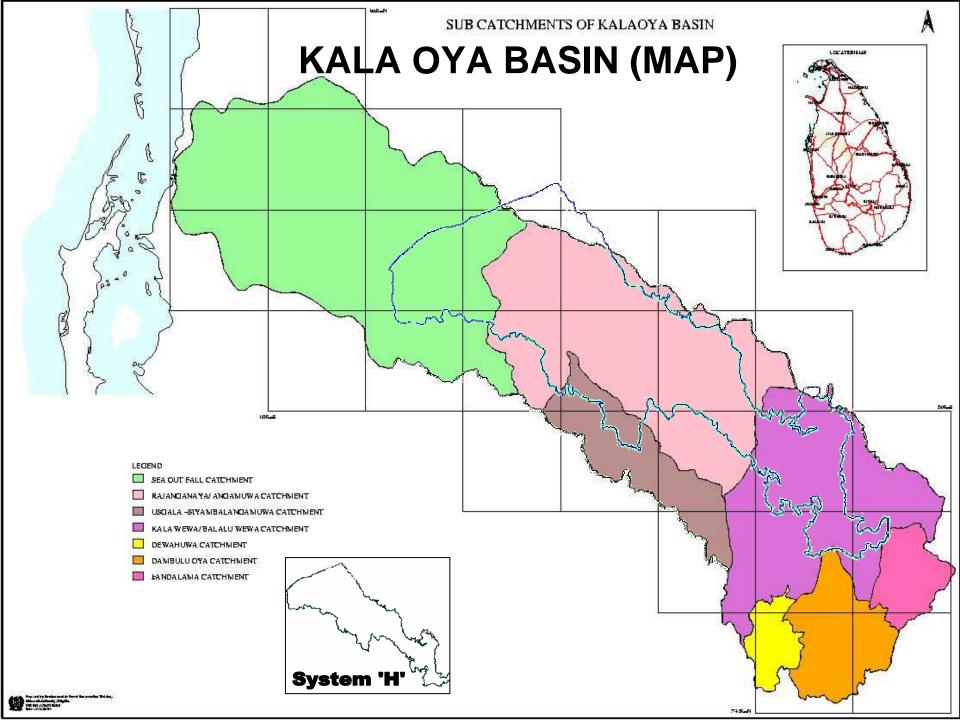
 Problematic allocation of land served with Mahaweli waters. (Second and third generation problems)

- Maintenance of a large network of main canals, Distribution canals, Field canals.
- Aging of large structures built on different technologies.
- Possible threats from natural disasters earth slips and earthquakes as well as possible threats of floods.
- Dam safety.

- Insufficiency and out moded methods of our collection, processing, dissemination and use of hydro meteorological data.
- Insufficient knowledge of our ground water status and its effective use.
- Under utilization of our reservoirs from non agricultural but effective other economic persuits such as inland fisheries and tourism.
 Economic use of water.

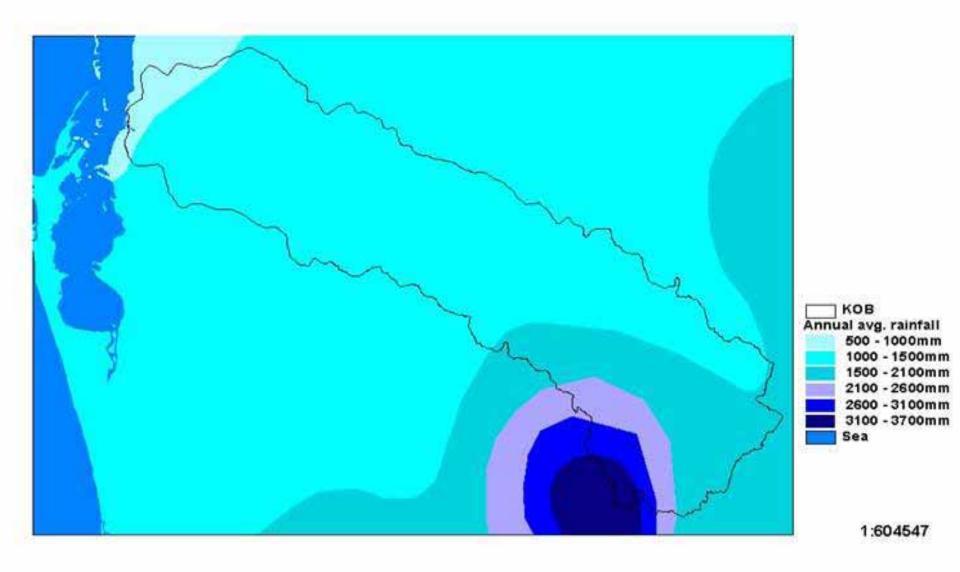
KOBO is an outcome of Mahaweli Rehabilitation and Restructuring Project (MRRP) (1998 – 2003)

- The River Basin Planning and Management Division
 (RBP & MD) of MASL 2000
- Preparation of comprehensive River Basin
 Plan for KOB 2001
- Formation of KOBO 2002
- Completion of MRRP
- Draft comprehensive plan completed
- 2003Sep 2003



Annual average rainfall - Kala Oya basin

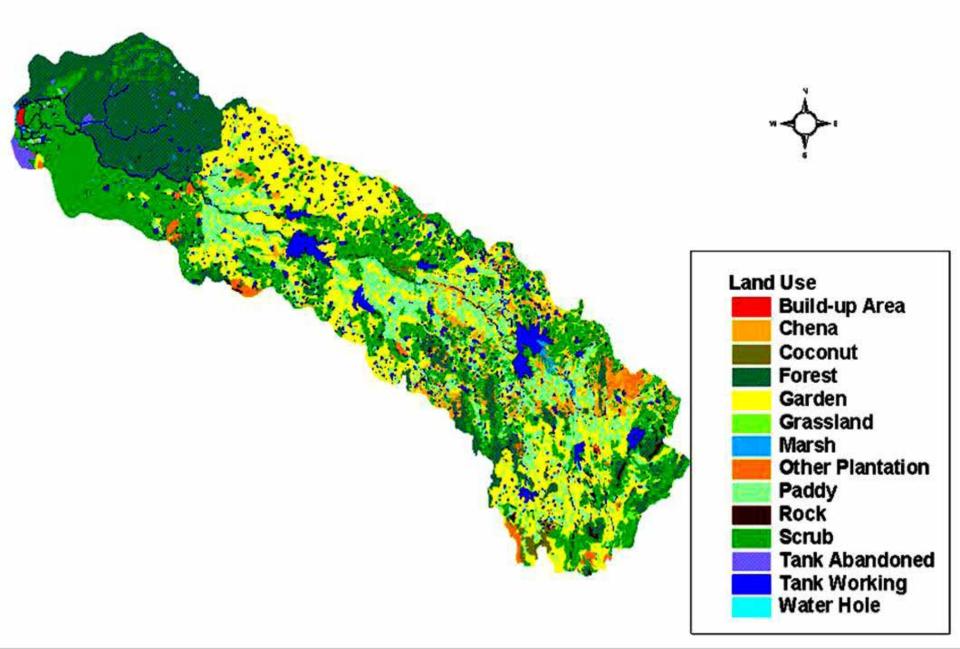




Important Statistics of Kala Oya Basin

- 1. Basin population 0.41 Million
- 2. Extent of the Basin 2870 sq.km.
- 3. Major Reservoirs/Scheme Dewahuwa, Dambulu Oya, Kandalma, Mahailluppallama, Katiyawa, Rajanganaya, Angamuwa, Neela Bemma Anicut and Kalawewa
- 4. Small Tanks-856 Nos.
- 5. 76% KOB is in dry zone and 24% in intermediate zone
- 6. Land use
 - Shrub jungle-21%Home gardens-17%Forest-27%Paddy cultivation-21%Working tanks -7%

LAND USE - KALA OYA BASIN



Protected Areas

DWLC Managed Wilpaththu National Park Kahalla-Pallekelle Sanc. Sigiriya Sanc, Tabbowa Sanc. Marine Bar reef Sanc, **Girithale Minneriya** Nature reserve

FD Managed Dry monsoon forests, Sparse & open forests, Moist monsoon forests, Riverine forests,

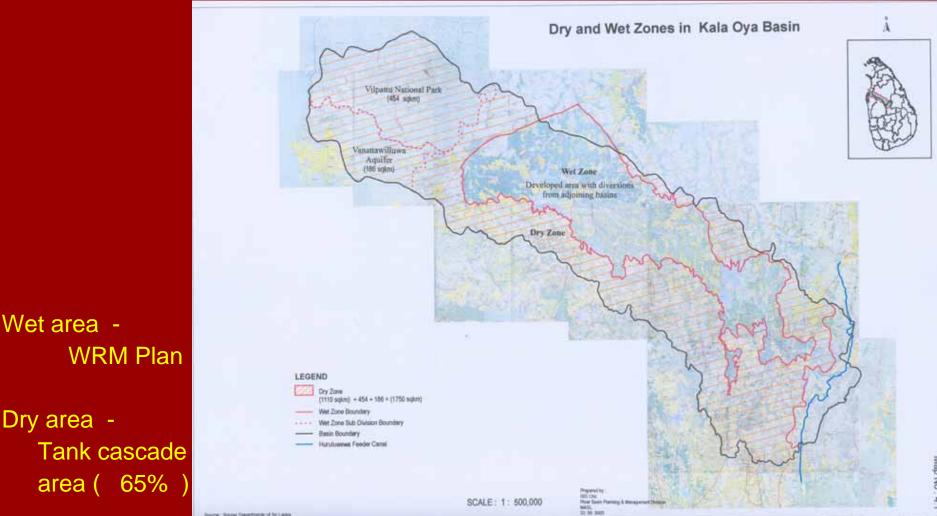
CHARACTERISTICS OF KALA-OYA BASIN

- **# Elevation range 0 600m (**Varies from coastal area to up country)
- **# Major crop in the area** Paddy
- # Average annual rainfall 1500mm
- # Water demand 97% for irrigation & 3% for drinking and other purposes

Status of Water Policy

- > 02 Policies approved by the cabinet
 (2000, 2004)
- Approximately 26 drafts of the water policy
- > Approximately 10 drafts of the act.
- > Still revising the policy.
- Draft of new water policy advertised in 09 th October 2006, for entertaining public views.

Comprehensive Plan consists of 02 parts



Dry area -

Map No

At Present, KOBO is conducting the participatory process, for

Building up consensus on the plan with basin stakeholders.

- Collection of data and analyzing.
- Up dating the plan.

Moreover, pilot level implementation of certain Components in the plan for,

Testing acceptance of the people to the plan

Testing long term sustainability

eg. Cascade development on pilot basis

 Researching for a suitable institutional arrangement of stakeholders for implementation

Present Undertakings

- 1) Development of Hydrological Model.
- 2) Water Quality Monitoring (12 stations)
- 3) Data Base development.
- 4) Awareness programme on IWRM, for school children, and the community.
- 5) Promotion of Rain water harvesting for drinking & Agricultural purposes.
- 6) Cascade development on pilot basis.
- 7) Mitigation of Human Elephant conflicts.

- 8) Homestead development.
- 9) Upper watershed management.
- **10)** Reverine Management.
- 11) Ground water studies.
- 12) Introduction of modern agricultural techniques on demonstration basis.
- 13) Introduction of high value, Low water consuming crops on demonstration basis.
- 14) Promotion of post harvest technology.
- 15) Encouragement of forward agreement for farmer produces.



Development of Hydrological Model





Water Quality Monitoring





Awareness Programme for School Children





Tree Planting Programme





Rain Water Harvesting for Domestic Purposes





Desiltation of Small Tanks

Improvement of Dead Storage for Ground Water Improvement





Homestead Development





Rain Water Harvesting for Agricultural Purposes





Rain Water Harvesting Ponds for Ground Water Improvement



Riverrine Management





Ground Water Level Monitoring





Micro Irrigation





Cattle Shed Programme



Thank

You