

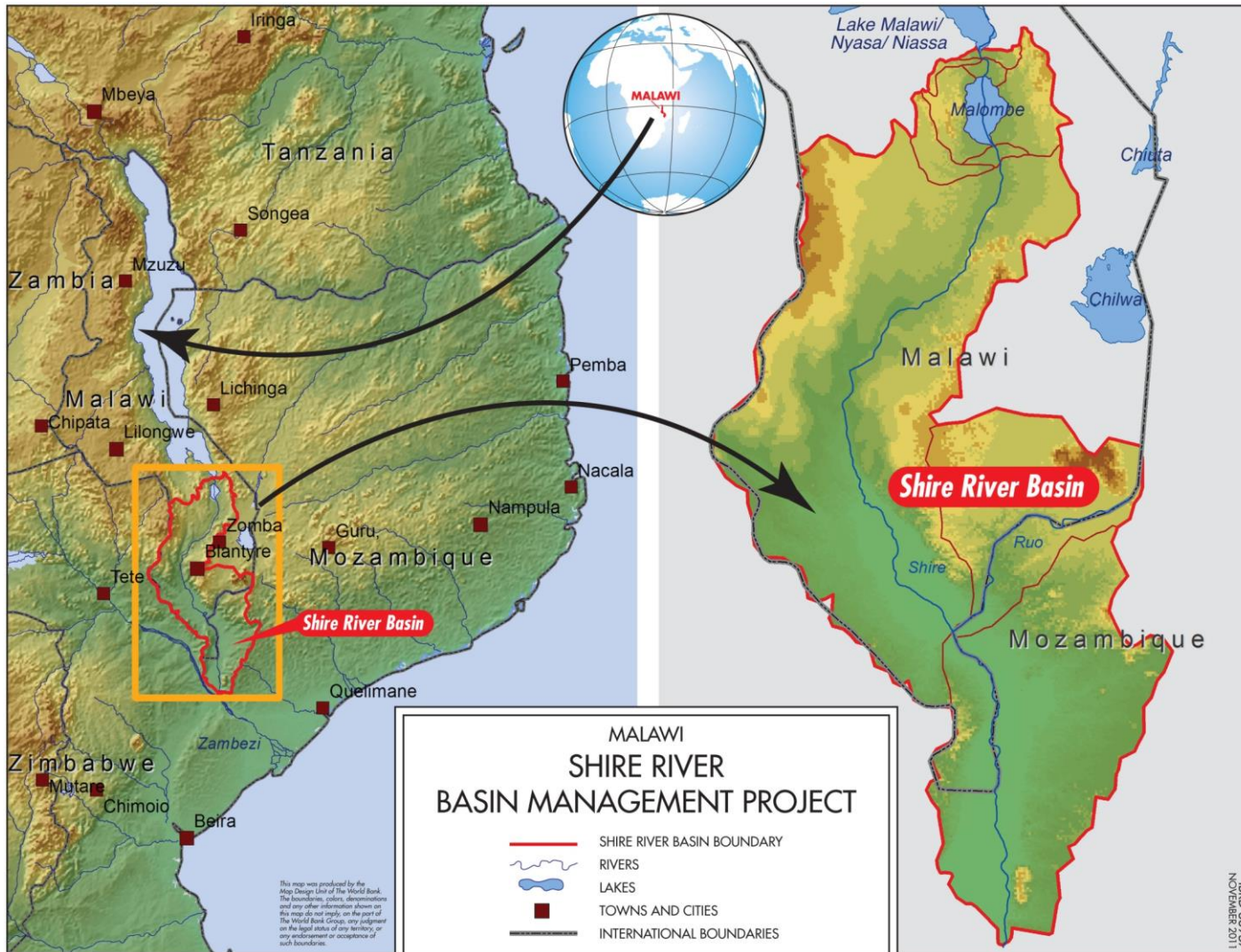


*We all need the Shire*

# SHIRE RIVER BASIN MANAGEMENT PROGRAM (PHASE 1) PROJECT

## The Role of River Basin Planning in Malawi's NAP Process

[www.shirebasin.mw](http://www.shirebasin.mw)



MALAWI  
SHIRE RIVER  
BASIN MANAGEMENT PROJECT

- SHIRE RIVER BASIN BOUNDARY
- RIVERS
- ~ LAKES
- TOWNS AND CITIES
- - - INTERNATIONAL BOUNDARIES

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# The Shire Basin

## An Introduction

- Areal extent defined by outflow from L. Malawi till the Shire leaves Malawi and joins the Zambezi
- A critical basin for Malawi
  - Accounts for about 98% of Malawi's electricity
  - Has most of Malawi's irrigation
  - Supports rain-fed agriculture to millions
  - Provides water supply to Blantyre
  - Has significant environmental, biodiversity, and fisheries assets

# PROGRAM OVERALL DESIGN OF THE SHIRE RIVER BASIN MANAGEMENT

- 1. Long-Term Program:** A longer-term program envisaged over a 15 year+ period; First project phase ~5.5 yrs for ~US\$125 m IDA + 6.6 m (GEF+LDCF)
- 2. Project Development Objective:** To develop a strategic planning and development framework for the Shire River Basin and support targeted investments to improve land and water resources management, and associated environmental services and livelihoods in the basin
- 3. Project Components:**
  - *A: Shire Basin Planning*
  - *B: Catchment Management*
  - *C: Water-related Infrastructure*

# THEMATIC PLANNING

- Separate plans focusing on specific themes:
  - Disaster Risk Management
  - Catchment and protected area management
  - Wetlands and riparian areas management
  - Water quality and pollution management
  - Waterborne disease management
  - Groundwater management
  - Dam operation, water allocation and licensing
  - Institutional reforms
  - Data and information

# SECTOR PLANS

- Agriculture
- Livestock
- Fisheries
- Energy
- Forestry
- Mining
- Industry
- Water Supply and Sanitation
- Transport
- Tourism

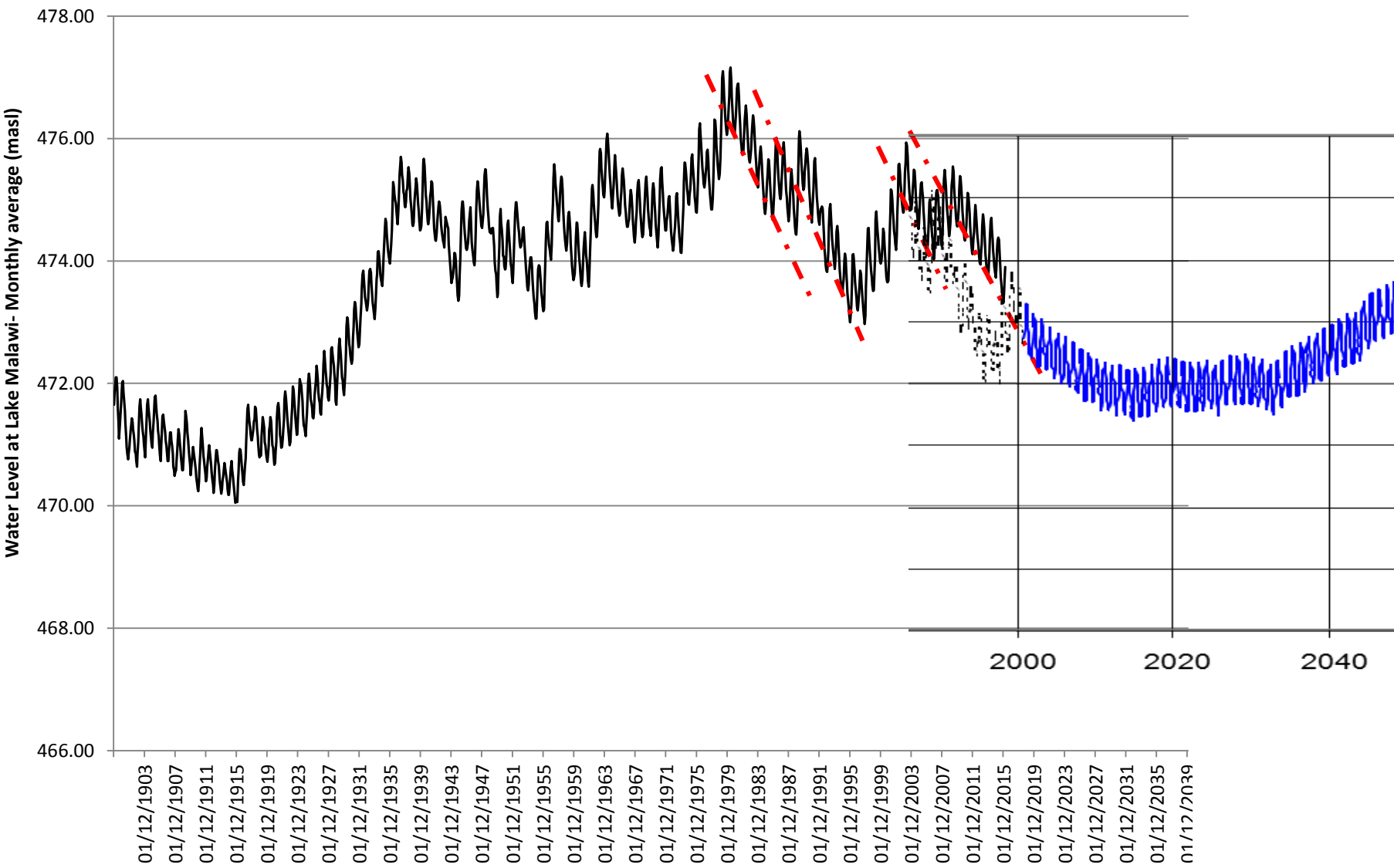
# RECOMMENDED PRIORITY INVESTMENTS (ranked)

Rank	Investment
1	Shire Valley Irrigation Project
2	Expansion of the water production at Walkers Ferry
3	Kamwamba Coal Fired Power Plant
4	Mpira-Balaka Rural Water Supply Rehabilitation
5	Multi-purpose dam near Mwanza
6	Mpatamanga Hydropower Plant
7	Ruo Diversion (Irrigation) Scheme
8	Mkulumadzi New Irrigation Scheme
9	Kholombidzo Low head Power Plant
10	Nthirananja New Irrigation Scheme
11	Chilongo Irrigation Scheme

# RECOMMENDED PRIORITY INVESTMENTS (ranked)

Rank	Investment
12	Upgrading of rural groundwater sources (wells and boreholes)
13	Upgrading of gravity-fed rural water supply schemes
14	Upgrading of wastewater disposal facilities and pollution control for Blantyre and environs
15	Acceleration of the Rural Electrification Program
16	Development and implementation of an accelerated rural sanitation program
17	Shire River Basin forest inventory
18	Development of forest reserve management plans
19	Zomba Town water supply
20	Multi-Purpose dam near Chiradzulu
21	Shire River Flow Augmentation Project

# Historic Lake Levels 1900 – 2016 + simulations from SRFAP (2001)







Tree Planting

Tree Regeneration

M

M







**THANK YOU**