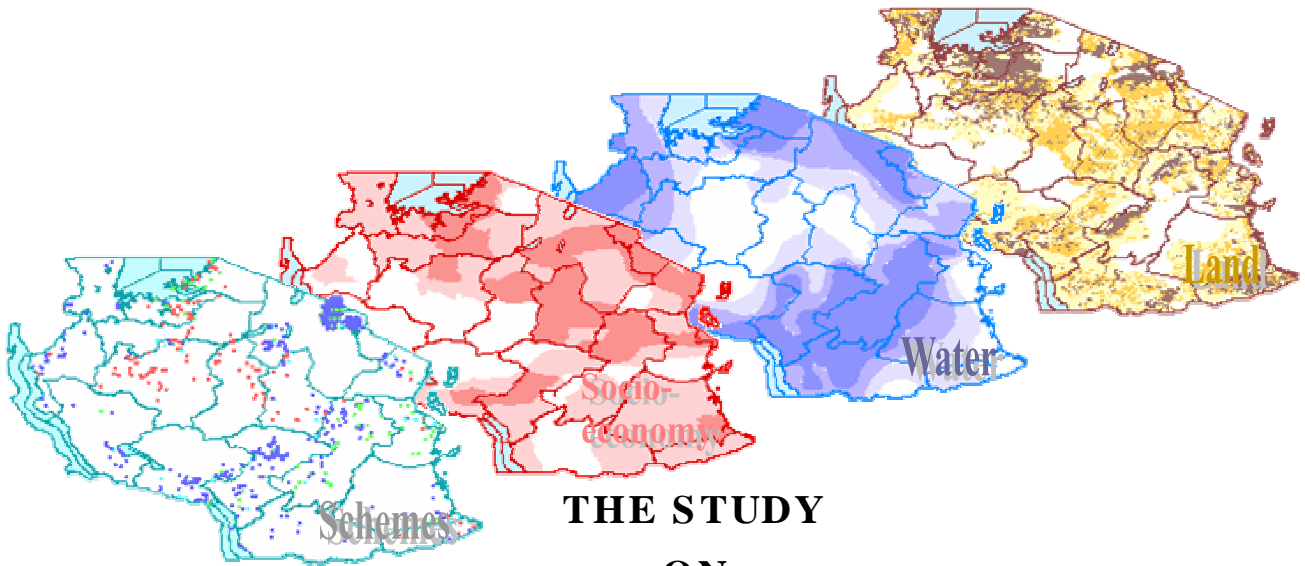


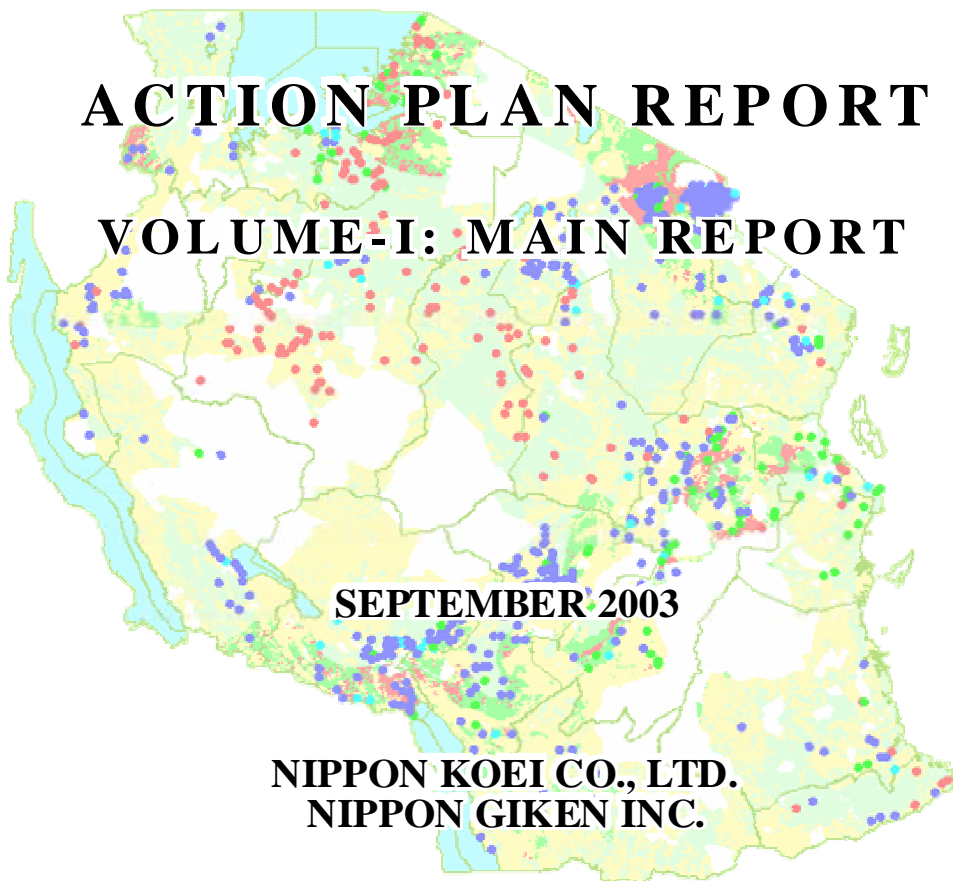
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
MINISTRY OF AGRICULTURE AND FOOD SECURITY (MAFS)



**THE STUDY
ON
THE NATIONAL IRRIGATION MASTER PLAN
IN
THE UNITED REPUBLIC OF TANZANIA**



**ACTION PLAN REPORT
VOLUME-I: MAIN REPORT**



SEPTEMBER 2003

**NIPPON KOEI CO., LTD.
NIPPON GIKEN INC.**

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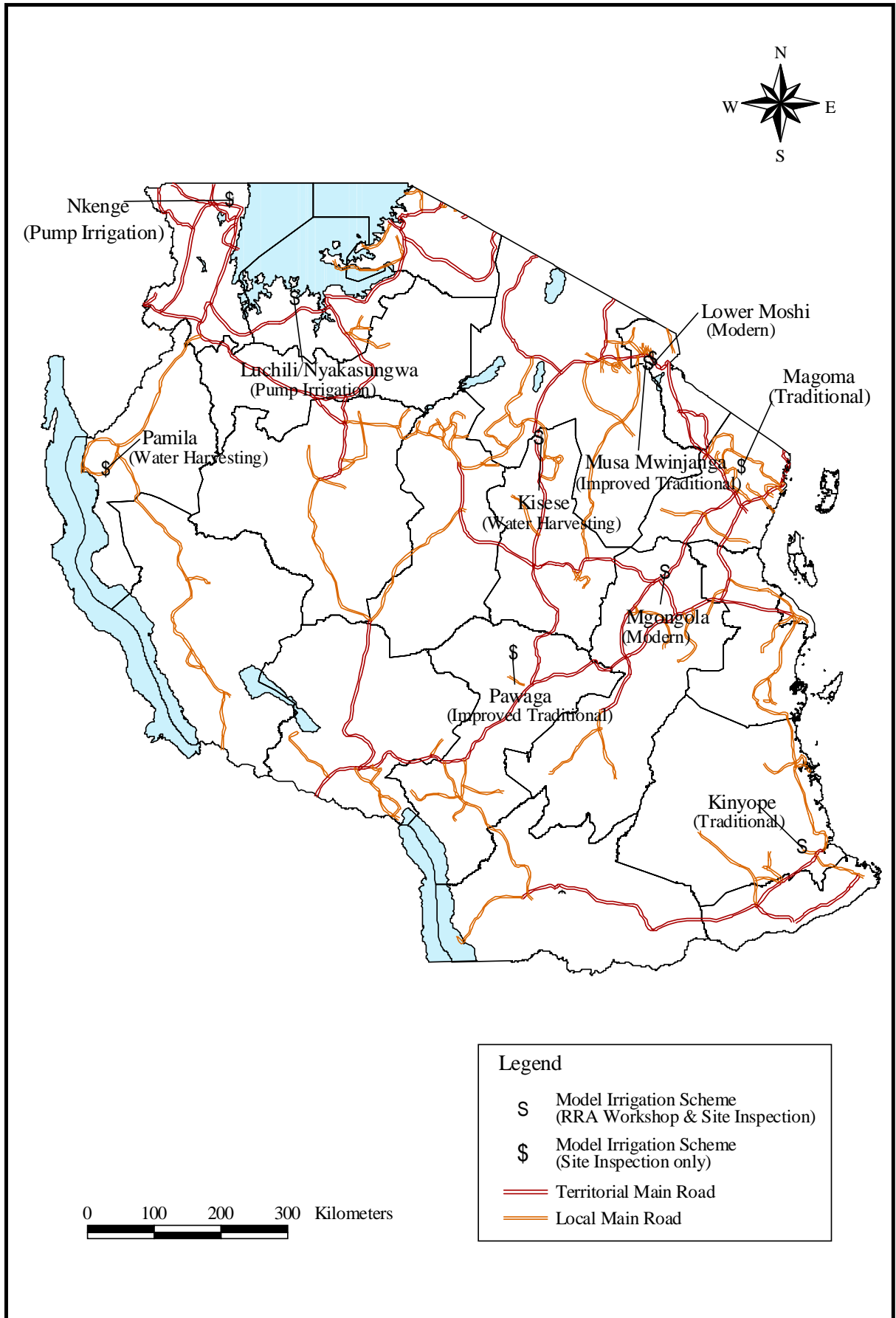
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**THE STUDY
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Action Plan Report

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ABBREVIATIONS

ADB	African Development Bank
AMSDP	Agricultural Marketing Systems Development Programme
ASDS	Agricultural Sector Development Strategy
ASDP	Agricultural Sector Development Programme
ASLM	Agricultural Sector Line Ministry
ASPS	Agricultural Sector Programme Support
BOT	Build-Operate-Transfer
BTO	Build-Transfer-Operate
DADP	District Agricultural Development Plan
DALDO	District Agriculture and Livestock Development Officer
DANIDA	Danish International Development Agency
DBO	Design-Build-Operate
DDP	District Development Plan
DITS	Division of Irrigation Technical Service
EIRR	Economic Internal Rate of Return
FAO	Food and Agriculture Organization
GIS	Geographic Information System
GOJ	Government of Japan
GOT	Government of Tanzania
GOZ	Government of Zanzibar
IA	Irrigators Association
I&I	Instruction and Information
ICC	Inter-ministerial Coordination Committee
IFAD	International Fund for Agricultural Development
IS	Irrigation Section
ISU	Irrigation Service Unit
JICA	Japan International Cooperation Agency
KATC	Kilimanjaro Agriculture Training Center
KATRIN	Kilombero Agricultural Training and Research Institute at Ifakara
LG	Local Government
LGA	Local Government Authority
LGRP	Local Government Reform Programme
M&E	Monitoring and Evaluation
MAFS	Ministry of Agriculture and Food Security
MANREC	Ministry of Agriculture, Natural Resources, Environment and Cooperatives
MCM	Ministry of Cooperative and Marketing
MDC	Market Development Center
MNRT	Ministry of Natural Resources and Tourism
MWLD	Ministry of Water and Livestock Development
NAFCO	National Agricultural and Food Corporation

NGO	Non-Government Organization
NIDP	National Irrigation Development Plan
NIMP	National Irrigation Master Plan
NMS	National Minimum Standard
NPV	Net Present Value
PCM	Project Cycle Management
PDM	Project Design Matrix
PFI	Private Finance Initiative
PIDP	Participatory Irrigation Development Programme
PMO	Prime Minister's Office
PO-PC	President's Office-Planning Commission
PO-RALG	President's Office -Regional Administration and Local Government
PPP	Public Private Partnership
PRSP	Poverty Reduction Strategy Paper
PS	Permanent Secretary
RAS	Regional Administrative Secretary
RBMSIIP	River Basin Management and Smallholder Irrigation Improvement Project
RDS	Rural Development Strategy
RRA	Rapid Rural Appraisal
SACCOS	Savings and Credit Cooperatives
SMS	Subject Matter Specialist
SNV	Netherlands Development Organization
SOFRAIP	Soil Fertility Recapitalisation and Agricultural Intensification Project
SPFS	Special Programme for Food Security
SUA	Sokoine University of Agriculture
UNDP	United Nations Development Programme
VLP	Village Level Planning Cycle
VPO	Vice President's Office
WB	World Bank
WUA	Water Users Association
WUG	Water Users Group
ZIO	Zonal Irrigation Officer
ZIU	Zonal Irrigation Unit

MEASUREMENT UNITS

Extent

cm² = Square-centimeters (1.0 cm x 1.0 cm)

m² = Square-meters (1.0 m x 1.0 m)

km² = Square-kilometers (1.0 km x 1.0 km)

a = Are (100 m² or 0.01 ha.)

ha = Hectares (10,000 m²)

ac = Acres (4,046.8 m² or 0.40468 ha.)

Volume

cm³ = Cubic-centimeters
(1.0 cm x 1.0 cm x 1.0 cm
or 1.0 m-lit.)

m³ = Cubic-meters
(1.0 m x 1.0 m x 1.0 m
or 1.0 k-lit.)

lit 1 = Liter (1,000 cm³)

MCM = Million Cubic Meter

Length

mm = Millimeters

cm = Centimeters (cm = 10 mm)

m = Meters (m = 100 cm)

km = Kilometers (km = 1,000 m)

Weight

gr = Grams

kg = Kilograms (1,000 gr.)

ton = Metric ton (1,000 kg)

Currency

US\$ = United State Dollars

US\$1.0 = J¥118.23 = Tanzanian Shillings
1,063.70

(as of July 4, 2003)

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Time

sec = Seconds

min = Minutes (60 sec.)

hr = Hours (60 min.)