



Edited by **Sylvain Perret,**
Stefano Farolfi and **Rashid Hassan**

WATER GOVERNANCE

FOR SUSTAINABLE DEVELOPMENT

Approaches and Lessons from Developing
and Transitional Countries

Water Governance for Sustainable Development

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Edited by Sylvain Perret, Stefano Farolfi and Rashid Hassan

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List of Acronyms and Abbreviations

ABH	Agence de Bassin Hydraulique
ABM	agent-based model
AFEID	International Commission on Irrigation and Drainage
ANC	African National Congress
ARD	Agricultural and Rural Department (World Bank)
ARDA	Agricultural and Rural Development Association
ARWR	annual renewable water resources
BNHR	basic human need reserve
BOT	build–operate–transfer
CCVD	Communauté de Communes du Val de Drôme
CEAG	Comisión Estatal del Agua de Guanajuato
CMA	catchment management agency
CMS	crop management style
CODEVASF	Companhia de Desenvolvimento dos Vales do São Francisco e do Parnaíba (development company of the São Francisco river valley)
CSIR	Council for Scientific and Industrial Research
CV	contingent valuation
CVM	contingent valuation methodology
DD/NF	Dingleydale/New Forest
DFID	Department for International Development (UK)
DOA	Department of Agriculture (UK)
DPLG	Department of Provincial and Local Government (South Africa)
DWAF	Department of Water Affairs and Forestry (South Africa)
DWSS	Domestic water supply system
ECA	Economic Commission for Africa
EO	extension officer
ET _a	actual evapotranspiration
ET _o	reference evapotranspiration
ET _p	potential evapotranspiration
FBW	free basic water
FDI	Foreign direct investment
GGP	gross geographic product
GNU	Government of National Unity
GWC	Ga-Mashishi Water Committee
GWP	Global Water Partnership
HYV	high yielding variety
I&D	irrigation and drainage

ICID	International Commission on Irrigation and Drainage
ICT	information and communication tool
IDA	institutional decomposition and analysis
IDSP	I&D service provider
IFAD	International Fund for Agricultural Development
IFRI	International Food Research Institute
IMT	irrigation management transfer
IWMI	International Water Management Institute
IWRM	integrated water resources management
JICA	Japan International Cooperation Agency
KKT	Karush–Kuhn–Tucker
LDR	linear division rule
LDWA	Lebowa Department of Water Affairs
LNW	Lepelle Northern Water
LPDA	Limpopo Department of Agriculture
LWUA	Lebalelo Water Users Association
MAFS	Ministry of Agriculture and Food Security
MC	management committee
MCM	million cubic metres
MCP	mixed complementarity problem
MDA	Municipal Demarcation Act
MENA	Middle East and North Africa
MSC	Mkoji Sub-Catchment
MWC	Moeding Water Committee
NEPAD	New Partnership for Africa's Development
NGO	non-governmental organization
NIMBY	not in my back yard
NIMP	National irrigation Master Plan
NPDAL	Northern Province Department of Agriculture, Land and Environment
NWA	National Water Act
NWRS	National Water Resource Strategy
O&M	operation and maintenance
OBA	output-based aid
OLS	ordinary least squares
OMM	operation, maintenance and management
ORMVAT	Office Régional de Mise en Valeur Agricole du Tadla
PIM	participatory irrigation management
PITC	policy induced transfer costs
PPP	public–private partnership
PSD	public service delegation
PTO	permission to occupy
PUWS	potentially utilizable water resources
RDP	reconstruction and development programme
RESIS	Revitalization of Smallholder Irrigation Schemes
RPG	role-playing game
SA	South Africa

SALGA	South African Local Government Association
SDM	Sekhukhune District Municipality
SIS	smallholder irrigation scheme
SIWI	Stockholm International Water Institute
SMC	scheme management committee
Smile	Sustainable Management of Irrigated Land and Environments
SSB	Steelpoort Sub-basin
TA	traditional authority
TD	total diversions
TLC	Transitional Local Council
URT	United Republic of Tanzania
WB	water bailiff
WC	water committee
WMA	water management area
WRC	Water Research Commission
WSA	Water Services Act (South Africa)
WSS	water and sanitation sector
WTA	willingness to accept
WTP	willingness to pay
WUA	water users association
WWAP	World Water Assessment Programme

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The idea of the present book originated during the international workshop on *Water Resource Management for Local Development: Governance, Institutions and Policies* (WRM2004, Loskop Dam, South Africa, 8–11 November 2004). The workshop gathered 90 delegates from 17 different countries. About 50 papers were presented, and case studies from South Africa, Zimbabwe, Tanzania, Nigeria, Mali, Burkina-Faso, Cameroon, Morocco, Senegal and Egypt were discussed. The core idea of the workshop was to create an opportunity for exchange, discussion, and knowledge- and experience-sharing between research teams, and policy and development agents. Full papers and further information on the workshop can be drawn from the website: <http://wrm2004.cirad.fr>

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