

TOOLBOX

Integrated Water Resources Management

Policy Guidance and Operational Tools

67/20960

 Global Water Partnership

CONTENTS

Policy Guidance

The Rationale of IWRM.....	1
The ToolBox – Main features.....	6
Working with the ToolBox.....	11

Operational Tools

A The Enabling Environment

A1	POLICIES – Setting goals for water use, Protection and conservation	18
A1.1	Preparation of a national water resources policy.....	19
A1.2	Policies with relation to water resources	20
A2	LEGISLATION – Water policy translated into law	21
A2.1	Water rights.....	22
A2.2	Legislation for water quality	23
A 2.3	Reform of existing legislation.....	24
A3	FINANCING AND INCENTIVE STRUCTURES – Allocating financial resources to water needs.....	25
A3.1	Investment policies.....	26
A3.2	Public sector institutional reform	27
A3.3	Role of the private sector.	28
A3.4	Cost recovery and charging policies.....	29
A3.5	Investment appraisal.....	30

B Institutional Roles

B1	CREATING AN ORGANISATIONAL FRAMEWORK – Forms and functions.....	32
B1.1	Transboundary organisations for water resource management	33
B1.2	National apex bodies	34
B1.3	River basin organisations	35
B1.4	Regulatory bodies and enforcement agencies	36
B1.5	Service providers and IWRM.....	37
B1.6	Civil society institutions and community based organisations.....	38
B1.7	Local authorities.....	39
B2	INSTITUTIONAL CAPACITY BUILDING - Developing human resources	40
B2.1	Participatory capacity and empowerment	41
B2.2	IWRM capacity in water professionals	42
B2.3	Regulatory capacity.....	43
B2.4	Knowledge sharing.....	44

C Management Instruments

C1	WATER RESOURCES ASSESSMENT – Understanding resources and needs.....	46
C1.1	Water resources knowledge base	47
C1.2	Water resources assessment	48
C1.3	Modelling in IWRM.....	49
C1.4	Developing water management indicators	50
C2	PLANS FOR IWRM – Combining development options, resource use and human interaction	51
C2.1	River basin plans	52
C2.2	Risk assessment and management.....	53

Contents *continued*

C3	DEMAND MANAGEMENT – Using water more efficiently	54
C3.1	Improved efficiency of use.....	55
C3.2	Recycling and reuse	56
C3.3	Improved efficiency of water supply.....	57
C4	SOCIAL CHANGE INSTRUMENTS – Encouraging a water-oriented civil society	58
C4.1	Education curricula on water management	59
C4.2	Training of professionals.....	60
C4.3	Training of trainers.....	61
C4.4	Communication with stakeholders	62
C4.5	Water campaigns and awareness raising	63
C4.6	Broadening participation in water resources management.....	64
C5	CONFLICT RESOLUTION – Managing disputes, ensuring sharing of water	65
C5.1	Conflict management	66
C5.2	Shared vision planning	67
C5.3	Consensus building	68
C6	REGULATORY INSTRUMENTS – Allocation and water use limits.....	69
C6.1	Regulations for water quality	70
C6.2	Regulations for water quantity	71
C6.3	Regulations for water services	72
C6.4	Land use planning controls and nature protection.....	73
C7	ECONOMIC INSTRUMENTS – Using value and prices for efficiency and equity.....	74
C7.1	Pricing of water and water services.....	75
C7.2	Pollution charges	76
C7.3	Water markets and tradeable permits	77
C7.4	Subsidies and incentives.....	78
C8	INFORMATION MANAGEMENT AND EXCHANGE - Improving knowledge for better water management.....	79
C8.1	Information management systems.....	80
C8.2	Data sharing – national and international.....	81