Towards the end of the twentieth century, many developing countries were moving in the direction of major change in their economic policies, including reductions in the size and budgets of government. Pressure was mounting on the agriculture sector to become more efficient. Many governments made efforts to collect irrigation service fees but few were successful. The time for more basic change in the irrigation subsector was ripe. The perception that increased ownership, decision-making authority and active participation in the operation and maintenance of irrigation systems would create a binding commitment from water users to be more effective and responsible towards their obligations inspired the process of irrigation management transfer (IMT). Therefore, IMT is the process of devolvement of authority and responsibility from government agencies managing irrigation systems to farmers’ organizations and has been utilized as a tool for irrigation sector reform in more than 60 countries.

The present water report is the final product emanating from efforts by FAO, IWMI and others to document and understand the implications of the irrigation sector embarking on a wide reform process. It is intended to be a knowledge synthesis document that captures the global experiences emerging from a wide-reaching process targeting the reform of the irrigation sector.

This study indicates that IMT is an approach for irrigation sector reform with the potential to improve the sustainability of irrigation systems. However, in order to reap its benefits, IMT should involve a wider array of changes, including both “soft” and “hard” interventions. The process requires inter alia strong political commitment, negotiations among stakeholders, and long-term capacity development. Irrigation management transfer should not be seen as a process that has a clear “beginning” and “end”. While the former can be more easily identified, the latter is much more difficult to determine. In fact, IMT can be the initial stage of an evolving long reform process.
Irrigation management transfer
Worldwide efforts and results

by

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Contents

Acknowledgements viii
Preface ix
List of acronyms xi

Introduction 1
  Rationale for and objectives of this report 2
  Historical background of IMT, and definition of concepts 3
  Extent of IMT worldwide 5
  IMT-related activities undertaken by FAO and the IWMI 6

Policy and legal framework for irrigation management transfer 11
  Rationale for adopting IMT 11
  Policy and legal basis for IMT 12
  Policy and legal basis for WUAs 15
  IMT and financing irrigation 17
  Reform of irrigation agencies 19
  Improvements needed in the institutional framework 21

Implementing irrigation management transfer 23
  Mobilizing support and public awareness 23
  Implementing IMT and problems encountered 24
  Rehabilitation and modernization of systems 27
  Support services 28
  Reform of public-sector organizations 29
  Lessons learned during IMT implementation 30

Results of irrigation management transfer 35
  Outcomes 35
    Performance of WUAs after management transfer 35
    Operation and maintenance costs 36
    Quality of maintenance 38
    Rate of fee collection 39
    Timeliness and equity of water delivery 40
  Impacts 41
    Irrigated area 41
    Crop yield 41
    Farm income 42
    Soil salinity and waterlogging 43

Integrating lessons learned into future interventions 45
  Supporting objectives and expectations of IMT programmes 45
    Reduction in government costs 45
    Renewed support services to agricultural production 45
Improved payments for irrigation services 46
Improving agricultural productivity 46
Enhanced communication between users and managers 46
Main issues found in implementing IMT programmes 46
Legal status and degree of authority of WUAs 47
Delivering water and providing maintenance 47
Purposes of WUAs 47
Rights and responsibility of WUA members 47
Financing irrigation improvements 47
Coping with irrigation agency reform 48
Capacity building of WUAs 48
The process of implementing IMT 48
Matching IMT with the conditions of the country 48
Mobilizing support and awareness 48
Addressing financial and capacity-building constraints 49
The need for monitoring and evaluation 49
Recommendations for future IMT programmes 49

References 53

Annexes
1. Types of IMT programmes in country profiles 55
2. Rates of implementation of IMT programmes 57
3. Contents of basic documents for WUAs and IMT 59
4. Summary tables of impacts and outcomes by continent 61
List of tables

1. FAO irrigation sector reform studies, by country and type 7
2. Factors motivating adoption of IMT 12
3. Authority transferred 13
4. Type of organization taking over management after transfer 14
5. Entity providing water delivery and canal maintenance after IMT 14
6. Institutional framework for WUAs 15
7. Legal rights of and responsibilities granted to WUAs, 24 countries 15
8. Purposes of WUAs as specified by law 16
9. Legal rights of WUAs 16
10. Rights and responsibilities of WUA members 16
11. Roles of government irrigation sector agencies relative to WUAs and water users 19
12. Policy and institutional issues for IMT 21
13. Process of implementing IMT 24
14. Problems and issues in implementing IMT 27
15. Support services needed by WUAs after IMT 29
16. Reorientation of the irrigation agency 30
17. Institutional changes needed after IMT adoption 30
18. Stages in the transfer of irrigation schemes, by type of management, Turkey 32
19. Key lessons learned about IMT 33
20. Performance of basic O&M functions by WUAs after management transfer 35
21. Sources of financing for WUA after IMT, 27 cases 36
List of figures

1. Schematic diagram on definitions of irrigation sector reform 5
2. Map of countries represented in the study 9
3. Trends in agency staff following IMT implementation, Columbia Basin Project 20
4. Sources of support for IMT by region 24
5. Decision tree for the Colombian IMT model 26
6. Authority devolved index 28
7. Changes in O&M costs after IMT 36
9. Average rate of fee collection 40
10. Timeliness and equity of water delivery 41
11. Changes in area irrigated, crop yield and farm income 42

List of boxes

1. Adoption of IMT in Albania 12
2. Helping to ensure that WUAs represent women’s concerns 17
3. Theoretical process for establishing WUAs in Morocco 17
4. The Colombian IMT methodology 25
5. Characteristics of IMT implementation in New Zealand 27
6. Incremental change in the Office du Niger, Mali 28
7. Operation and maintenance in Romania 38
Documents available on CD-ROM

- Irrigation Management Transfer country profiles, case studies and WUA legislation country profiles for a number of selected countries, i.e. Albania, Argentina, Armenia, Australia, Bangladesh, Bolivia, Bulgaria, Burundi, Chile, China (Hebei), China (Hubei), China (Hunan), China (Ningxia), China (Shaanxi), China (Shenyang), Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Ghana, India (Andhra Pradesh), India (Karnataka), India (Madhya Pradesh), India (Orissa), India (Rajasthan), Indonesia – large systems, Indonesia – small systems, Italy, Kyrgyzstan, Mali, Mexico, Morocco, Nepal, Netherlands, New Zealand, Niger, Nigeria, Pakistan (Punjab), Pakistan (Sindh), Peru, Philippines, Romania, Senegal, South Africa, Sri Lanka, Sudan, Swaziland, Taiwan Province of China, Tunisia, Turkey, United States of America and Zimbabwe.
- International e-mail conference on irrigation management transfer (2001) organized by FAO and the International Network for Participatory Irrigation Management.
- Bibliography and links.

System requirements to use the CD-ROMs:

- PC with Intel Pentium® processor and Microsoft® Windows 95 / 98 / 2000 / Me / NT / XP
- 256 MB of RAM
- 50 MB of available hard-disk space
- SuperVGA monitor
- 256 colours at 1024 x 768
- Adobe Acrobat® Reader (not included on CD-ROM)
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Preface

The process of devolution of authority and responsibility from government agencies managing irrigation systems to private-sector entities (often a water users association) established for such a purpose is known as irrigation management transfer (IMT) and has been utilized as a tool for irrigation sector reform in more than 60 countries. The introduction of the IMT process can be traced back to the mid-1970s. However, the apex of the application of IMT occurred in the early 1990s after governments faced increasing financial difficulties in maintaining the irrigation systems and when increasing disenchantment with their performance reached its peak. Thus, the accumulated experience with the application of the IMT process now covers almost 40 years, with the last 15 years or so providing an increasing wealth of information.

The Water Development and Management Unit (NRL W) of FAO decided that IMT was an important issue that needed to be documented and analysed. Together with a number of collaborators, with the International Water Management Institute (IWMI) being the major one, NRL W designed a strategy to implement a set of activities that would (i) acquire in-depth knowledge on how countries were applying IMT, on their approaches, on successes and failures; and (ii) derive lessons and provide feedback to those same countries (and new ones in the process of initiating IMT activities). These activities included: an e-mail conference on the subject; various studies to gain specific information from countries engaged in the process; field visits to key countries; and a worldwide literature review. These activities spanned a period of almost 6 years.

The present water report is the final product emanating from efforts by FAO, IWMI and others to document and understand the implications of the irrigation sector embarking on a wide reform process. However, this document concentrates mainly on the results derived from the surveys undertaken in 33 countries. In order to carry out these surveys, three types of document were prepared: (i) IMT case studies, seen as in-depth documentation of the IMT process in countries where a major effort had already been undertaken or was underway; (ii) IMT profiles, involving a large set of countries and derived through a brief questionnaire; and (iii) legislation on water users associations (legislation country profiles), with an emphasis on legal issues emanating from newly established associations.

The lessons that have emerged from these efforts are both encouraging and reasons for concern. Much is now known about the conditions that need to be met if a reasonable degree of success from the interventions is to be expected. For example, political support at the highest level is essential. Similarly, IMT is not a “time-bound” intervention; each country or region needs to move at its own pace and adapt to its particular cultural and socio-economic environment. It follows that there may not be a single IMT “model”, and that trying to impose outside experiences will probably end in failure. On the other hand, the lessons already learned should provide the basis for others to keep in mind and build on those experiences.

Parallel to the introduction of IMT, there are many other issues that countries involved in the process need to consider, e.g. a clear legal framework for water rights, establishment of users associations, and land tenure. The IMT process does not stop once the management transfer has occurred. Indeed, it may be just the starting point for greater interventions, including the formulation of an entirely new structure for providing services to the emerging and revitalized irrigation systems. Thus, the introduction of IMT may open the door for further reforms relating to credit access, marketing and improvements in other support services.
However, key questions remain as to who will be responsible for the long-term rehabilitation or modernization of transferred schemes, how should governments guarantee the sustainability of support services to irrigated agriculture, how IMT will affect current water rights arrangements and how farmers’ organizations can be made effective in representing farmers’ interest at scheme, river basin and national levels. Answering unequivocally the above-mentioned questions is part of the work ahead.

It is hoped that this water report will provide a valuable contribution to the irrigation sector.

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## List of acronyms

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>DSI</td>
<td>General Directorate of State Hydraulic Works, Turkey</td>
</tr>
<tr>
<td>GVO</td>
<td>Gross value output</td>
</tr>
<tr>
<td>ID</td>
<td>Irrigation district</td>
</tr>
<tr>
<td>IMT</td>
<td>Irrigation management transfer</td>
</tr>
<tr>
<td>INPIM</td>
<td>International Network for Participatory Irrigation Management</td>
</tr>
<tr>
<td>IWM</td>
<td>Integrated water management</td>
</tr>
<tr>
<td>IWMI</td>
<td>International Water Management Institute</td>
</tr>
<tr>
<td>M&amp;E</td>
<td>Monitoring and evaluation</td>
</tr>
<tr>
<td>NGO</td>
<td>Non-governmental organization</td>
</tr>
<tr>
<td>O&amp;M</td>
<td>Operation and maintenance</td>
</tr>
<tr>
<td>PIM</td>
<td>Participatory irrigation management</td>
</tr>
<tr>
<td>PPP</td>
<td>Public–private partnership</td>
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<tr>
<td>WUA</td>
<td>Water users association</td>
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