

Project Brief

Improvement of the Steering Competence in the Water Sector Project

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Background of the Project

The objective of the project is to support the decision making process in the water sector through the establishment of an integrated information management. The focus of this project is thus on information management tools and business process optimization.

Project topics

- ▶ Integrated Information Management
- ▶ Institutionalisation of the NWMP
- ▶ Investment planning, integration with NWMP

Project indicators – 1st phase

Phase objective:

MWI carries out a systematic information management

- ▶ At least 80% of the data necessary for administration and updating of the monitoring and allocation of water resources as well as investment planning comply with the data model MWI has introduced as binding
- ▶ At least 70% of historical data in the WIS database (e.g. water production or quality) are transferred from data source to MWI in an automated way
- ▶ At least 90% of the spatial data used in the water sector are administered on a central GIS server
- ▶ Based on the investment project database, MWI has developed a mid-term investment plan

Project indicators – 2nd phase

Overall objective:

Steering competence of MWI for
the water sector is improved

- ▶ Yearly water allocation is executed by MWI using solely the instruments of the NWMP.
- ▶ MWI's yearly reports on water resources monitoring and allocation are delivered 50% earlier than at the project's commencement.
- ▶ Degree of compliance of the yearly investment budget with MWI's mid-term investment planning (plan/actual comparison)

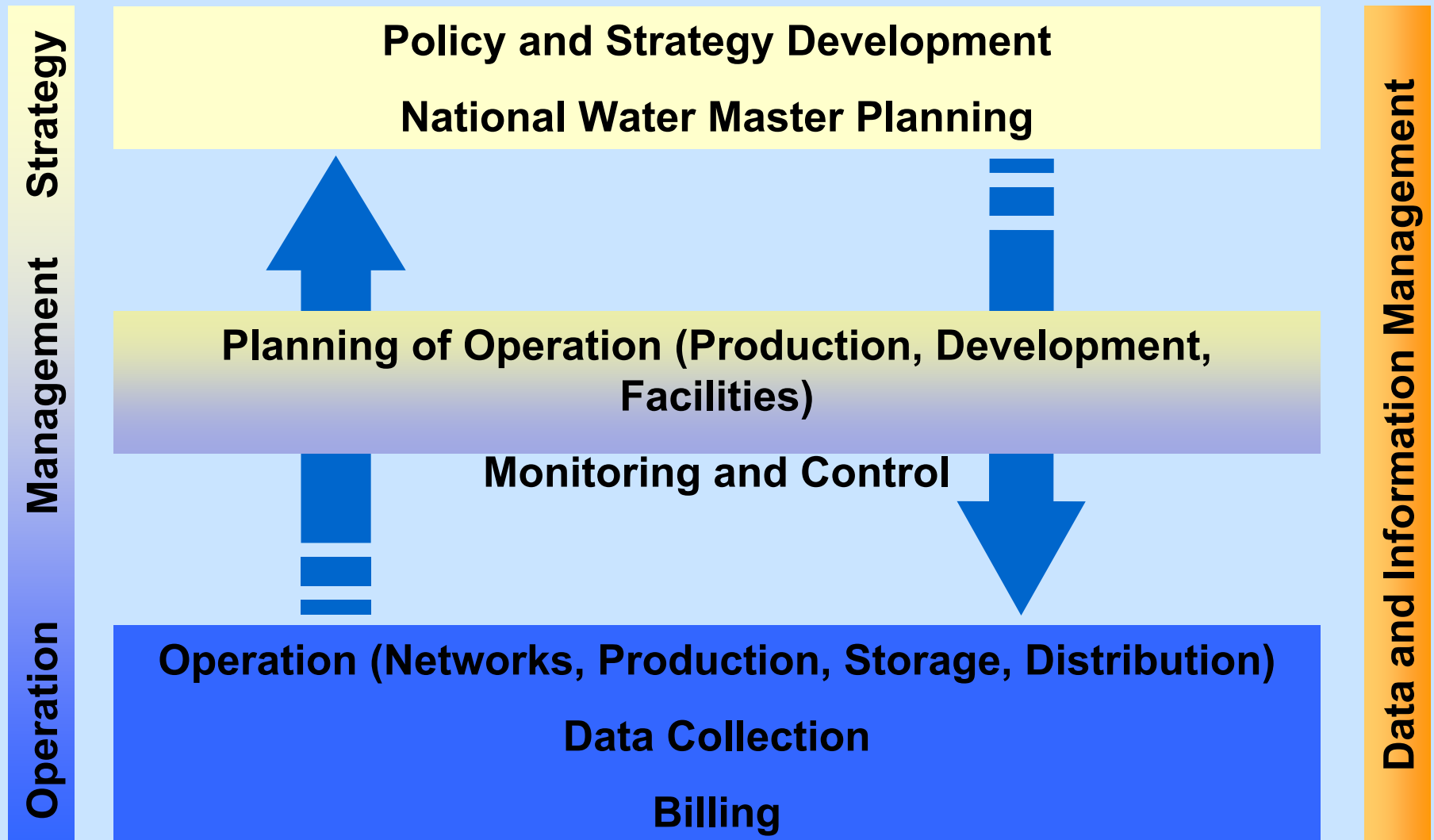
Vision

A systematic data and information management supports the Jordanian water sector in further increasing efficiency in planning, design and operations.

Therefore:

- ▶ Data formats and codes as well as reporting from the water sector databases are centrally coordinated, empowered and supervised. Spatial data are centrally registered → **Centralised data and information structure**
- ▶ Data are kept in the databases related to the business processes of the data owners, data quality controlling and updating is systematically applied by the data owners → **Decentralised data management**

Role of Information Management



New developments

- ▶ GIS Committee recommends action towards unification of efforts
- ▶ HE Ministers asks WAJ for fact sheets on districts/governorates
- ▶ USAID starts projects on groundwater management and private wells
- ▶ PMU increases performance monitoring efforts

Project topics (2004 - 2007)

Workgroup
Integrated
Information
Management

Workgroup
NWMP
Institutionalisation

Workgroup
Investment
Planning

Industry Codes
GIS
Water Quality
Object Data
New Well ID
Prod. Data
BMFO SW
Operat'nl Data
WIS Awareness
Info Policy
Private Wells

NWMP Directive
WIS Directive
NWMP Tools
DVS Update
NWMP Data
Sources



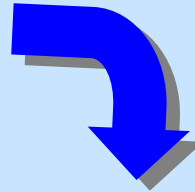
Planning
Objectives
Project Selection
Project Database
Investment Plan

Project Approach

- ▶ Small individual **work packages**, done by **task forces** & consultants → improvement of efficiency in individual units as **building blocks** for sector information system
- ▶ Needs-based, role-conscious approach
- ▶ Organisational development through introduction of **defined procedures** and responsibilities
- ▶ **Example**: Improvement of well production data quality

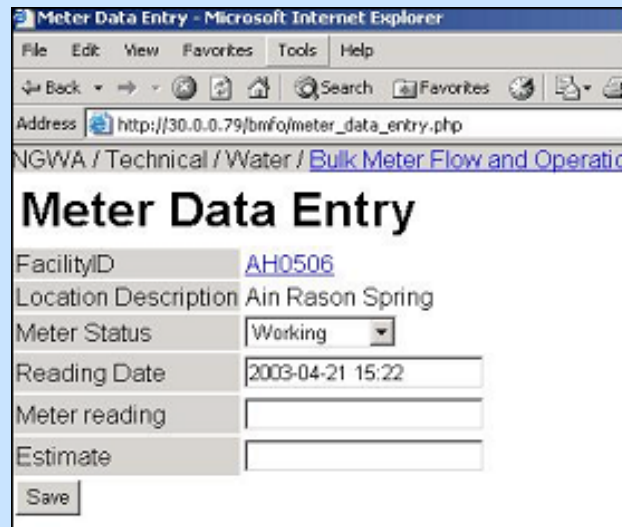


1. Introduction of Well ID



2. Water Production Data Collection Sheet

Date	Time	Well ID	Meter #	Totaliser Reading
dd/mm/yy	hh:mm	رقم البئر	رقم العداد	قراءة العداد
التاريخ	الوقت			
01/12/2002	10:00	AD 3257	65545621	1202544
01/12/2002	10:15	AD 3015	56564545	



Meter Data Entry - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://30.0.0.79/bnfo/meter_data_entry.php

NGWA / Technical / Water / Bulk Meter Flow and Operation

Meter Data Entry

FacilityID AH0506

Location Description Ain Rason Spring

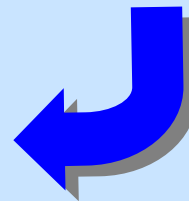
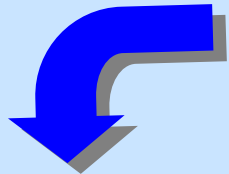
Meter Status Working

Reading Date 2003-04-21 15:22

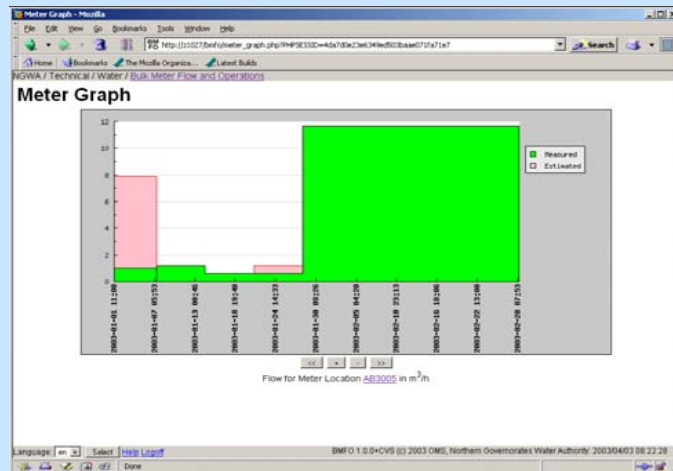
Meter reading

Estimate

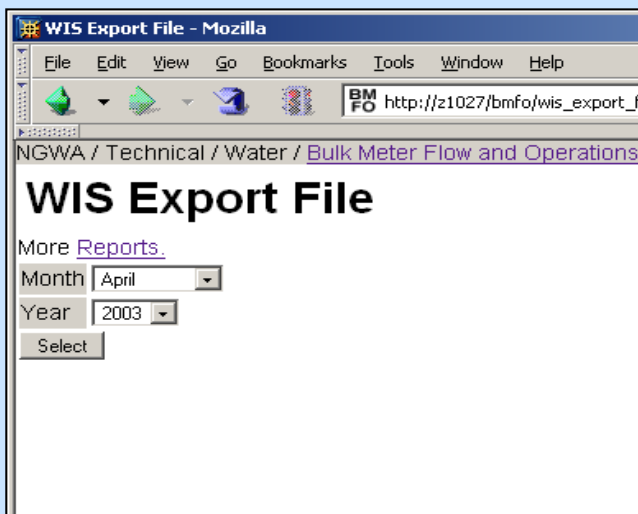
Save



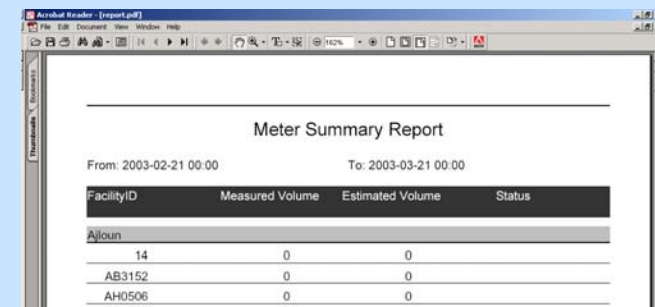
3. Data entry at regional units using web-based data entry application



4. Quality Control & Data Analysis



5. Report Preparation WAJ Standard Report



FacilityID	Measured Volume	Estimated Volume	Status
14	0	0	
AB3152	0	0	
AH0506	0	0	

Ministry of Water & Irrigation / Water Authority
Irbid Governorate Water Administration

Information Form no. (3)
Monthly production of utilized water resources

No.	Water Resource	Monthly Production (m3)	Working Hours (hour)	Added Chlorine (kg)	Meter Status	Water Production (m3/h)
1	Wadi Al-Arab Well no. (1) - AE1007	151354	744	303	NA	203
2	Wadi Al-Arab Well no. (2) - AE1008	214790	740	430	NA	290
3	Wadi Al-Arab Well no. (3) - AE1009	336784	744	674	Good	453
4	Wadi Al-Arab Well no. (4) - AE1010	201885	744	404	Good	271
5	Wadi Al-Arab Well no. (5) - AE1011	248895	638	498	Good	390
6						
7						
8						
9						
10						
11						
Total production of the treatment plant		1153708	3610	2307	0	1608
Water pumped from the plant to Zibda tank		1153708				
Water pumped from the plant to the valleys		0				

6. Data transmission from operator to WAJ, then to MWI

MWI view of SCWS role

- ▶ "It is of paramount importance that [donor] activities share the same vision and **integrate** themselves into the overall **information management framework** that will be set and implemented by the **SCWS project**."
- ▶ "**Information flow to WIS** is part of the SCWS activities. Any effort put forth should integrate into the SCWS project activities."

GTZ's cooperation interest

- ▶ There is a lot to do, so **coordination is vital** to guarantee a streamlined sector development
- ▶ Given previous experience, we believe it is important that especially during **planning and SOW development** for any new project dealing with data and information, the **MWI's position** is taken into consideration. Adjusting things later is much more tedious...