



United Nations
Educational, Scientific and
Cultural Organization



International
Hydrological Programme
of UNESCO



WORKSHOP OBJECTIVES & AGENDA

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The GEF IW LEARN Project and the role of UNESCO-IHP in MENARID

Second Learning Workshop for MENARID Project Managers

“Opportunities for Managed Aquifer Recharge”

& MENARID planning meeting

Amman, 11-14 December 2012

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The Global Environment Facility



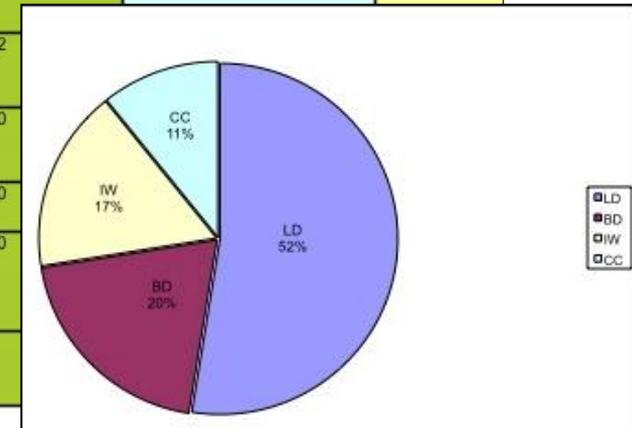
- ◉ Financial mechanism unites 182 member governments — in partnership with international institutions, nongovernmental organizations, the civil society and the private sector - to address **global environmental issues**.
- ◉ Born in 1991, today the GEF is the largest public funder of projects to improve the global environment.
- ◉ An independently operating financial organization, the GEF provides grants for projects related to different focal areas: biodiversity, climate change, **international waters**, land degradation, and persistent organic pollutants.



(International Waters) have created an enormous amount of knowledge...

10 +1 GEF MENARID Projects involving different focal areas (and co-financing) [ICARDA KM umbrella]

Agency	Project Type	Country	Region	Project Title	FA	Total GEF Funds (excluding PPG) and fees)			
						LD	BD	IW	CC
World Bank	FSP	Tunisia	MENA	MENARID - Land and Water Optimization Project	LD, CC, CC/ SPA	4,9995	0,0000	4,5450	0,6996
UNDP	FSP	Algeria	MENA	MENARID Conservation of Globally Significant Biodiversity and Sustainable Use of Ecosystem Services in Algeria's Cultural Parks	LD, BD	2,2000	3,7300	0,0000	0,0000
UNDP	FSP	Iran	MENA	MENARID-Institutional Strengthening and Coherence for Integrated Natural Resources Management	LD, BD, CC, IW	3,0635	0,4500	0,8250	0,5500
IFAD	FSP	Jordan	MENA	MENARID: Mainstreaming Sustainable Land Management Practices	LD, IW	5,5350	0,0000	1,5895	0,0000
IFAD/UNIDO	FSP	Morocco	MENA	MENARID: Participatory Control of Desertification and Poverty Reduction in the Arid and Semi Arid High Plateau Ecosystems of Eastern Morocco	LD, IW	5,5350	0,0000	1,1000	0,0000
IFAD	MSP	Regional	MENA	MENARID Cross Cutting M & E Functions and Knowledge Management for INRM within the MENARID Programme Framework	LD	0,8000	0,0000	0,0000	0,0000
IFAD	FSP	Tunisia	MENA	MENARID: Support to Sustainable Land Management in the Siliana Governorate	LD, BD	5,0530	0,4782		
UNEP	MSP	Regional	MENA	Reducing risks to sustainable management of the North West Sahara Aquifer System	IW	0,0000	0,0000		
World Bank	FSP	Tunisia	MENA	Ecotourism and Conservation of Desert Biodiversity	LD, BD	1,4850	3,2140		
IFAD	FSP	Morocco	MENA	A circular Economy Approach to Agro-biodiversity Conservation in the Souss Massa Draa region of Morocco	BD		3,0000		
World Bank	FSP	Yemen	MENA	Adaptation to climate change using agro-biodiversity resources in the rainfed highlands of Yemen	SPA				



IW LEARN Project (2011-2014)

“Strengthening IW Portfolio Delivery and Impact”

International Waters
Learning
Exchange
And
Resource
Network



Global Project

Groundwater

Supporting the Middle East
and North Africa
Development (MENARID)

Goals:

⦿ To strengthen Transboundary Waters Management (TWM) by facilitating portfolio learning and **information/knowledge management** amongst GEF IW projects and partners and by providing a series of services to facilitate this exchange



Benefits/Services to GEF Projects: What IW:LEARN Does

🕒 **IWLEARN.NET** supports knowledge management and sharing in the GEF IW portfolio and contains project-related information, contacts, documents, news and events

Some examples:

- Targeted Training Workshops
- Project-Project Learning Exchanges
- Support to Regional/Global Dialogue Processes
- Community of Practice Facilitation
- Portfolio-Wide Learning: Biennial International Waters Conferences
- Outreach: Information Dissemination (E-Bulletin, IW Experience Notes)



Groundwater in the IW LEARN Project

Rationale: Water use for irrigation is projected to soon account for 67 percent of the total renewable water resources in the region. This average figure hides situations where extraction of groundwater is exceeding recharge, thus depleting strategic reserves



executes two components on groundwater:

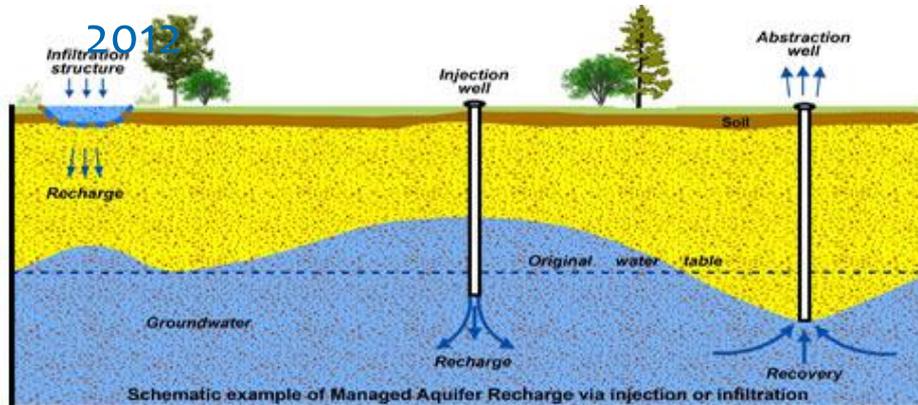
1. **Menarid support via land/groundwater integrated management:**
EXPECTED OUTCOME: Improved effectiveness in combating land degradation in MENARID through an enhanced role of groundwater and improved subsurface space management
 - a. ACTIVITY 1: Integration of groundwater into MENARID land and water projects at the MENA regional level through a Knowledge Management Platform
 - b. ACTIVITY 2: Technologies for land management with enhanced recharge to aquifers.
 - c. ACTIVITY 3: Targeted learning workshops
2. **Establishment of a Global Groundwater Community of Practice [...]**

Series of learning workshops

1. **Traditional Knowledge:** Building awareness and capacity on various sustainable water utilization and harvesting practices in dry lands, with focus on traditional knowledge, including rainwater harvesting practices and groundwater management systems, such as qanats. Yazd, Iran at the UNESCO Center on Qanats (ICQHS), February 2012



2. **Opportunities for Managed Aquifer Recharge:** Overview of different MAR strategies, practical examples worldwide. Amman, Jordan in cooperation with the MoWI of Jordan, ICARDA-IFAD, IGRAC, December

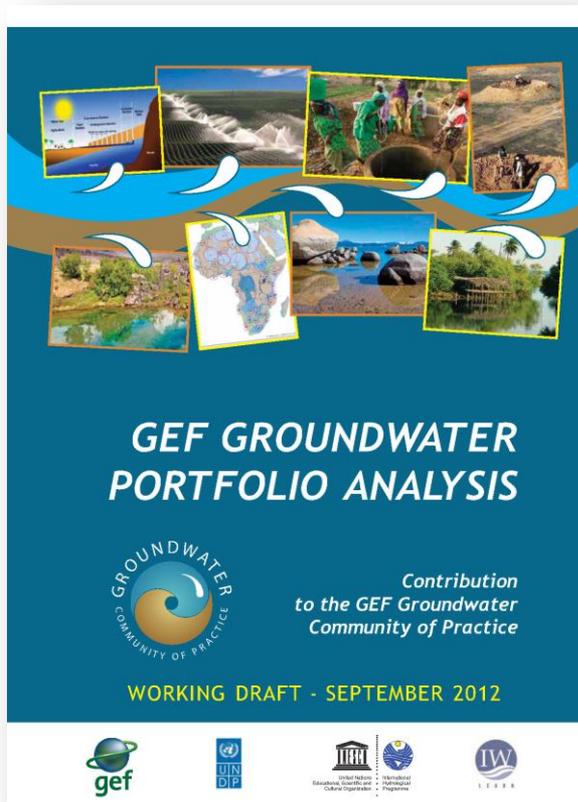


3. **Role of groundwater in climate change adaptation (tbc):** Morocco 2013 (tbc)

GEF Groundwater Community of Practice and GEF Groundwater Portfolio Analysis



- Structured targeted dialogues around main challenges and themes (GW Governance, CC Adaptation, Traditional knowledge, TBAs, MAR, etc)
- WHO: Project Managers of GEF groundwater (& surface) projects; National experts and policy makers of the key ministries of project countries (water, agriculture, environment, land use planning)
- www.iwlearn.net/community



- Living document (tb finalized in 2013)
- Tool to present and review the portfolio of GW projects (co-)financed by the GEF and implemented by different Agencies and partners
- Regional (11) and Global Projects (3) - ongoing or completed – addressing gw as main focus or as component
- Added value: analysis and digestion of these project in light of disseminating outstanding results, lessons learned and replicable practices
- **MENARID chapter to be written together**

Examples of Expert Networks on groundwater mobilized by UNESCO-IHP for MENARID

•**UNESCO Chairs on Water:** This programme serves as a prime means of building the capacities of higher education and research institutions through the exchange of knowledge and sharing. It covers training, research and exchange of academics and act as “bridge builders” between the academic world, civil society, local communities, research and policy-making. They create and facilitate regional or sub-regional poles of innovation and excellence. Like the NEPAD Southern Africa Water Centre of Excellence



UNESCO water related Centres (17):
i.e. **IGRAC** and **ICQHS**

IHP National Committees: that operate in close cooperation with Land/Water/Environment Ministries

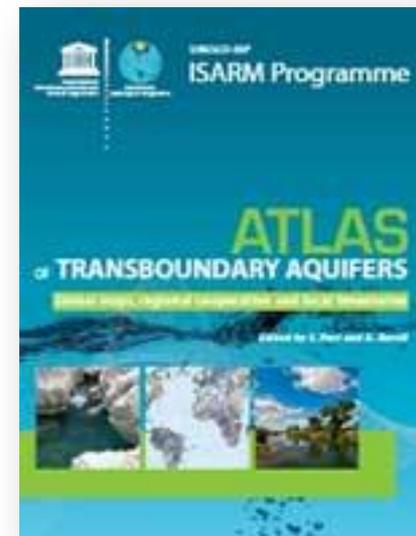
The IAH Commission on Managing Aquifer Recharge (IAH-MAR)

The International Shared Aquifer Resources Management Initiative

National Geological Surveys

GRAPHIC

www.menarid.icarda.org



Workshop Objectives & Agenda

- Provide MENARID Project Managers with a basic knowledge of strategies for Managed Aquifer Recharge in arid and semi-arid areas
- Encourage groundwater consideration in the MENARID portfolio by providing expertise on specific aspects of groundwater management
- Facilitate better integration and involvement of Land/Water Ministries
- Plan joint activities within the portfolio (ICARDA)

1. **TUESDAY:** Introductions and lectures by MAR experts: general overview, types of MAR, country specific presentations on how MAR is being applied. Role play-practical workshop.
2. **WEDNESDAY:** FIELD TRIP to Wala Dam in the Madaba Governorate (Guiding experts from the University of Jordan and the Jordanian Valley Authority)
3. **THURSDAY:** Presentations from MENARID Project Managers (how and if MAR could be applied in ongoing projects) to be discussed with the rest of the group and experts. Presentation of the MENARID platform by ICARDA
4. **FRIDAY:** Meeting to plan upcoming MENARID activities led by ICARDA

Thank you!



Hashemite Kingdom of Jordan



MINISTRY OF
WATER AND IRRIGATION

