

Mosul Dam Emergency Preparedness in Iraq

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### Overview

#### A. Project Introduction

- B. Project activities and progress
- C. Lessons learnt



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### **MDEP Project Basic Information**

Project Title	Mosul Dam Emergency Preparedness in IRAQ			
<b>Project Period</b>	March 2019 – October 2021			
Donor	USAID   Bureau for Humanitarian Assistance (BHA)			
Focal Point	Prime Minister's National Operations Center (PMNOC)			
Main Objective	Safeguarding the lives of vulnerable populations and major installations/ facilities along the Tigris flood path through provisioning technical assistance to the Government of Iraq (GoI).			



# Project Locations



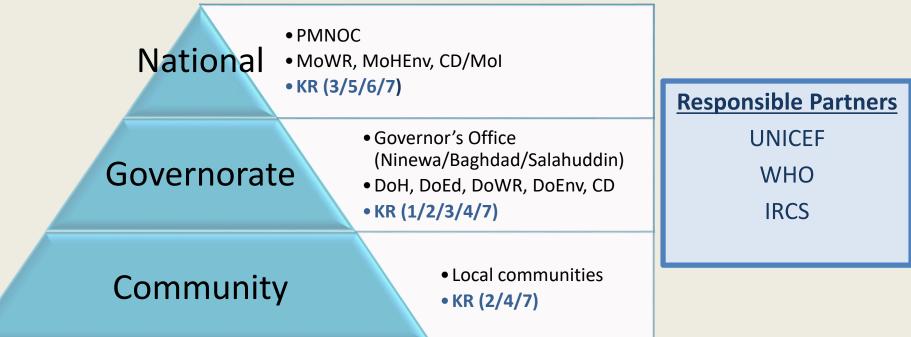
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### **MDEP Project Counterparts & Partners**





## **MDEP Key Results**





#1 Deploy training and tools to operationalize the Gov. preparedness plans



#2 Risks advocacy for the vulnerable communities (IRCS, WHO, UNICEF)



#3 Simulations /drills conducted (WHO, UNICEF)



#4 Volunteers network for community EW and evacuation (IRCS)



#5 Emergency preparedness of major Dams strengthened



#6 Major facilities protected along the Tigris flood plain



#7 Environmental risks of toxic and chemical pollution mitigated



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Key Result 1	Indicators	Results Achieved
Rapid deployment	Training of local and emergency officials on response and preparedness	204 officials
of preparedness training and tools to operationalize the Governorate	Training of governorate officials in multi-hazard early warning	107 officials
preparedness plans	Training to operationalize local preparedness plans	78 officials
	Activation of civil defense management committees	47 committees









Community Flood Risk Awareness

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Key Result 2	Indicators	Results Achieved
Risks advocacy for the vulnerable communities expanded and strengthened/WHO	Analysis of risk perceptions.	
	Persons targeted in at-risk communities through risk awareness messages along the Tigris	261,289
	Messages disseminated to at-risk communities through various media and social media platforms	- 4 million SMSs 3,680,176 Facebook, Instagram & Twitter - 4 Short videos





Key Result 2 Indicators	F	Results Achieved
Capacity building emergency prepa	of hospitals for - redness	211 nurses & paramedics 117 doctors Equipment to ERTC Baghdad 59,000 Community awareness
School preparedr	- ness and awareness - -	<ul> <li>Upgrade works in 78 schools as</li> <li>evacuation centers</li> <li>Teachers' training</li> <li>Student awareness</li> </ul>





#### **USAID** Community Flood Risk Awareness

الاستعدادات العامة للكوارث الكوارث والصحة النفسية	الاستعدادات العامة للكوارث تعلم كيفية إيقاف واطفا، كلفة الخدمات داخل المنزل								
		Governorate	Events	Beneficiaries	Females	Males	Folders	Posters	Guides
COS 553 55 Comments 3 Shares		Baghdad	3060	78650	25,164	53,486	77891	7474	194
الاستعدادات العامة للكوارث 👩 🧑 تعرف على 💦 👌 🆱	الاستعدادات العامة للكوارث الاستعداد على مستوى العائلة	Ninewa	4440	89984	31,070	58,914	89984	7496	296
خطة طواري الدسرة		Salah Al-Din	2460	53414	13,605	39,809	53414	6850	164
COS 426 4 Comments 2 Shares		Diyala	900	40000	14,754	25,246	40000	3000	150
الاستعدادات العامة للكوارث تعلم ردود فعل الاطفال إزاء الكوارث وكيفية التعامل معمم	الاستعداد للكوارث في حلات الطوارت أعلم الاخرين بوجمتك	Total	10860	262048	84,593	45,177 5	261289	24820	804



### **Emergency Response Drills**



Key Result 3	Indicators	Results Achieved
	National level drills	2 national drills
Simulations/drills conducted to	Governorate level drills	6 drills
ensure readiness and strengthen emergency preparedness at all levels (WHO, UNICEF, UNDP)	School-based drills	100 drills
	Hospital-based drills	1 drill



### **Emergency Response Drills**













#### Community volunteers network

Key Result 4	Indicators	Results Achieved
strengthened for community FW and	Community volunteers recruited and trained for Community Early Warning and Evacuation	<ul> <li>200 volunteers trained</li> <li>Community level early warning network setup by volunteers</li> </ul>



### Community volunteers network









#### Dam Safety Measures



Key Result 5	Indicators	Results Achieved
Emergency	Dam managers and staff trained in emergency preparedness and safety of dams.	124 officials trained
preparedness and	Dam Safety guidelines developed	1 set of guidelines
safety measures of major Dams strengthened	Dam operational plans developed	Operational plans developed for Mosul, Darbandikhan, Dukan, Haditha Dams.



#### Dam Safety Measures









### **Protection of Critical Facilities**

Key Result 6	Indicators	Results Achieved
Major facilities		
protected along the		
Tigris flood plain to		Contingency plans
avoid domino	Contingency plans/business continuity Plans	prepared for 10
impacts	prepared for the Critical Infrastructure Facilities	facilities
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### **Critical Infrastructure Protection**



	Facility	Location /District	Governorate
1	Al-Doura oil Refinery (Midland Refinery Company)	Al-Doura	Baghdad
2	Al-Doura Thermal Power Plant,	Al-Doura	Baghdad
3	Al-Karkh Water Treatment Plant,	Al-Taji	Baghdad
4	Battery Production Plant,	Waziriya	Baghdad
5	Rustamiya Sewage Treatment Plant,	Rustamiya	Baghdad
6	Al- Mishraq Sulfur Plant	Qayyara	Ninewa
7	Al-Taji Gaz Plant	Al-Taji	Baghdad
8	Tikrit Hospital	Tikrit	Salah Al-Din
9	Al Salam Teaching Hospital	Mosul	Ninewa
10	Al-Jamhury Teaching Hospital	Mosul	Ninewa



## Chemical and Toxic Risk Mitigation



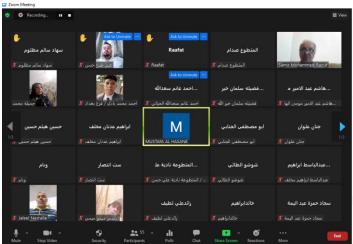
Key Result 7	Indicators	<b>Overall Targets</b>	Results Achieved	Status
Environme	Indicator 1: Risk response and mitigation plan developed.	1 plan	1 plan developed	Completed
toxic and chemical pollution	Indicator 2: # of first responders trained on	20 first responders	41 completed	Completed
mitigated	Indicator 3: # of key national officials trained.	40 officials	42 completed	Completed
	Indicator 4: # of targeted risk communication products developed.	2 communication products	- Two risk awareness workshops	Completed



## Chemical and Toxic Risk Mitigation







23



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### Lessons learned

- Risk of Mosul Dam collapsed has reduced due to the grouting works carried out.
- Many other dams remain vulnerable to damage and collapse due to earthquake risk and lack of maintenance
- Due to the growing risk of drought at the one hand and the occasional flooding, sustainable management of water in the reservoirs is crucial for Iraq's future



### Lessons learned



- Capacity building on flood preparedness contributed to overall improvement of ۲ national and local systems to deal with other hazards/crises;
- Engagement of locally rooted civil society organizations like the IRCS is crucial for reaching out to communities and sustainability;
- Online technologies of communication have a great potential to introduce global best practices and reduce costs
- Social media has emerged as a critical tool to reach out to larger communities quickly with customized messages at low cost.





## **THANK YOU**