




*Directorate For Mine Action*




#

**REPUBLIC OF IRAQ**  
**Ministry of Health and Environment**  
**Directorate for Mine Action (DMA)**

**IRAQ Extension Request for AP Mine Ban Convention**  
**Achievements and challenges**

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**NATURE AND EXTENT OF THE ORIGINAL ARTICLE 5 CHALLENGE:**  
**QUANTITATIVE ASPECTS**

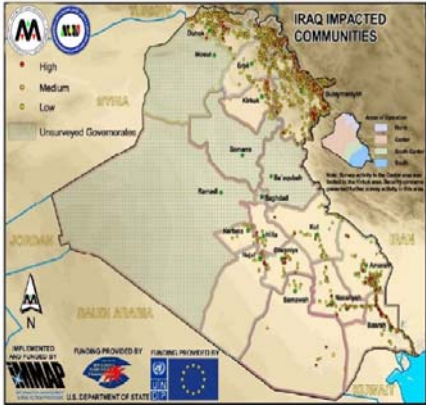
Iraq is one of the most affected countries by landmines, as a result of wars and internal conflicts as follows:

- ❖ Since 1961 the start of mine-laying operations in Iraqi Kurdistan as a result of aggressive policies in Iraq against the Kurdish people
- ❖ During the war (1980-1988), the previous Iraqi Army planted minefields along the Iraqi-Iranian border and over 1,200 kilometers
- ❖ In 1991, the previous Iraqi army planted large tracts of minefields inside Iraqi territory
  - ❑ During this period, the dividing line was also laid between the Kurdistan Region of Iraq (called Green Line)
- ❖ As a result of the events that followed the Iraq War of Freedom in 2003, the Iraqi Ministry of Defense lost all maps of the mine fields planted on the Iraqi side
- ❖ After 2003, Iraq suffered almost daily terrorist attacks using car bombs or roadside bombs
- ❖ In 2014 and until now and after the entry of gangs of terrorist advocates to many areas of Iraq

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## Implemented Surveys and Baseline

- General surveys (1992 - 2003) in Kurdistan**  
The work included public surveys and warning signs near dangerous areas, and subsequent emergency surveys were carried out in 1998 by UNOPS where the total area of dangerous and recorded areas was suspected (SHA) 442 km<sup>2</sup>
- LIS Survey (first phase 2004-2006)**  
Including 13 governorates (Dohuk, Erbil, Sulaymaniyah, Kirkuk, Babel, Karbala, Najaf, Qadisiyah, Wasit, Basrah, Thi Qar, Muthanna and Missan).
- LIS survey (second phase 2007-2009)**  
The second phase of the survey was carried out with the support of iMMAP for the period (2007-2009) in five governorates (Baghdad, Anbar, Diyala, Salahuddin, Mosul). The polluted area as a result of this survey reached about 127,85 km<sup>2</sup>



**As a result of surveys conducted and referred to above it was considered as the initial baseline of Contamination (2,309) km<sup>2</sup>**

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## NATURE AND EXTENT OF THE ORIGINAL ARTICLE 5 CHALLENGE: QUALITATIVE ASPECTS

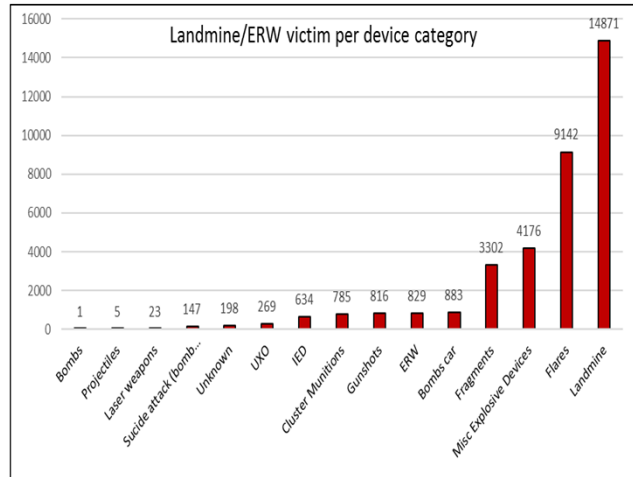
- The Impact of Contamination on Population**
- Landmine and ERW affect to 961 communities and a total of 1,661,952 people
- The high impact risks are represented in the governorates that fall under the responsibility of the Southern Center with an impact area of 688,861,027 Sq.m

Region	Impact	Mined areas	Area (m <sup>2</sup> )
IKMAA	High	495	30,531,638
	Medium	2,498	182,653,507
	Low	129	9,981,631
	Total	3,122	223,166,777
RMAC-N	High	0	0
	Medium	106	124,500,566
	Low	21	28,271,100
Total	127	152,771,666	
RMAC-M EU	High	3	3,882,667
	Medium	43	37,348,826
	Low	15	5,344,313
Total	61	46,575,806	
RMAC-S	High	201	688,861,027
	Medium	40	55,755,596
	Low	3	28,434,861
Total	244	773,051,483	
<b>Total</b>		<b>3,554</b>	<b>1,195,565,732</b>

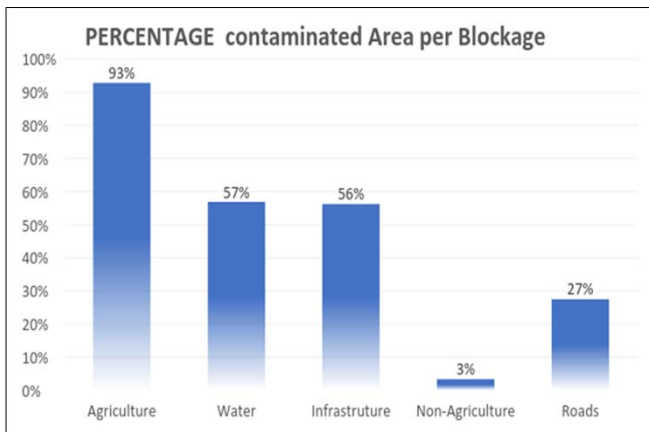
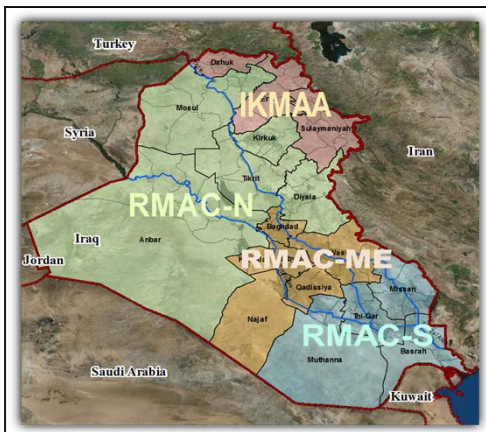
**NATURE AND EXTENT OF THE ORIGINAL ARTICLE 5 CHALLENGE:  
QUALITATIVE ASPECTS**

**The nature and extent of the impact of contamination to mine victims**

- ❖ The number of victims registered in the database is 36,081
- ❖ 38% of the victim are dead
- ❖ 62% of whom have survived, but 31% being jobless
- ❖ (26%) are retired from work due to injury,
- ❖ 57% of them are without daily income, (22%) of these survivors are unknown occupations



**Impact of Minefields and their Intersection with (or blockage of) Economic and Service activities**





### Efforts to ensure that civilians do not approach mined areas (MRE)

Since 2008, Iraqi Mine Action Program, implemented a large awareness campaigns by coordination with all partners concerned, covering all areas of Iraq and its activities have spread in many sectors, education, training, mutual contact with community and dissemination of information

Region	Children		Youth		Adult		Mixed		Total
	Male	Female	Male	Female	Male	Female	Male	Female	
IKMAA	70,444	61,301	93,008	81,001	121,715	107,700	16,846	14,125	566,140
RMAC-M EU	12,877	7,697	8,128	4,798	6,189	3,564	0	0	43,253
RMAC-N	8,390	4,816	6,472	3,831	4,334	1,851	0	0	29,694
RMAC-S	56,760	41,773	13,805	7,764	17,163	6,341	0	0	143,606
<b>Total</b>	<b>148,471</b>	<b>115,587</b>	<b>121,413</b>	<b>97,394</b>	<b>149,401</b>	<b>119,456</b>	<b>16,846</b>	<b>14,125</b>	<b>782,693</b>



### Nature and extent of progress

#### ❖ Non-technical survey (NTS)

(Minefields as a result of NTS)

Region	Province	No of Hazards	Area size (Sqkm)
RMAC-M EU	Wassit	31	39,646,306
RMAC-S	Basrah	38	688,685,273
	Missan	35	41,835,755
	Muthanna	2	37,845,692
<b>Total</b>		<b>106</b>	<b>808,013,025</b>

#### ❖ Preliminary Survey (PTS)

Governorate	Original SHA Area (m <sup>2</sup> ) (No of SHAs)	Canceled/reduced Area (m <sup>2</sup> )	Identified CHA Area (m <sup>2</sup> )	Areas not surveyed	Percentage released
Erbil	354,500,000	274,500,000	71,000,000	5,000,000	77.4%
Duhok	124,500,000	99,500,000	26,000,000	4,000,000	79.9%

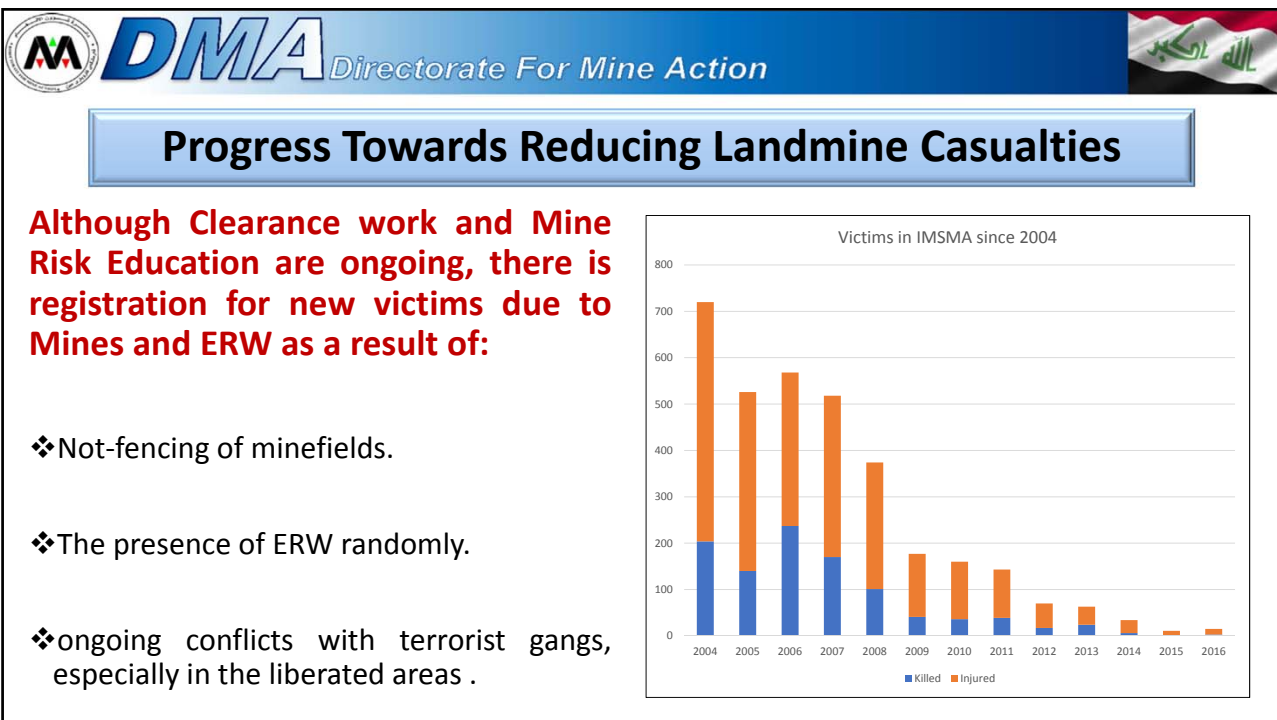
Governorate	Original SHA Area (m <sup>2</sup> )	Canceled/reduced Area (m <sup>2</sup> )	Identified CHA Area (km <sup>2</sup> )	Percentage released
Sulimani	146,300,000	59,600,000	86,700,000	59%


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## Nature and Extent of Progress


- ❖ Technical Survey (TS)
- ❖ Clearance

Regions	Governorates	Area cleared (m <sup>2</sup> )	Area canceled/ reduced by TS/PTS (m <sup>2</sup> )	Total Area addressed (m <sup>2</sup> )	Total device
IKMAA	Duhok	5,251,649	148,546,442	153,798,091	28,036
	Slemani	44,451,235	244,038,594	288,489,829	125,627
	Erbil	7,578,622	438,948,295	446,526,917	33,826
RMAC-N	Anbar	441,294	1,468,400	1,909,693	2,103
	Diyala	2,097,448	0	2,097,448	3,776
	Kirkuk	0	9,237,809	9,237,809	3,633
	Ninewa	0	0	0	1
RMAC-ME	Salah al-Din	84,527,387	0	84,527,387	1,389
	Babylon	6,212,064	0	6,212,064	2,476
	Baghdad	1,426,089	0	1,426,089	6,738
	Kerbala	1,306,712	0	1,306,712	5,334
	Najaf	636,151	0	636,151	42
	Qadisiya	21,838,400	0	21,838,400	27,738
RMAC-S	Wasit	7,305,705	7,677,502	14,983,207	23,302
	Basrah	294,861,040	45,453,943	340,314,983	196,849
	Missan	42,280,135	16,303,669	58,583,804	64,708
	Muthanna	12,782,999	0	12,782,999	23,630
	Thi-Qar	18,361,243	3,274,039	21,635,282	95,453
<b>Grand Total</b>		<b>551,358,173</b>	<b>914,948,693</b>	<b>1,466,306,865</b>	<b>644,795</b>






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### Obstacles to Compliance for Convention

- ❖ Lack of financial resource
- ❖ Human resources
- ❖ The security situation and the war against the terrorist gangs
- ❖ New and discovered minefields
- ❖ Climatic and topographical conditions
- ❖ Mine Action Technology
- ❖ Random minefields



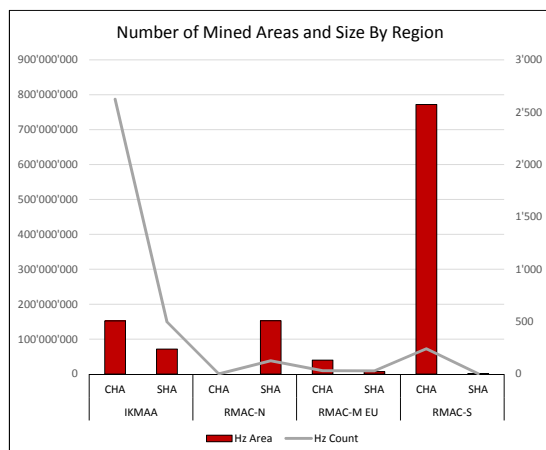
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### Obstacles to Compliance for Convention

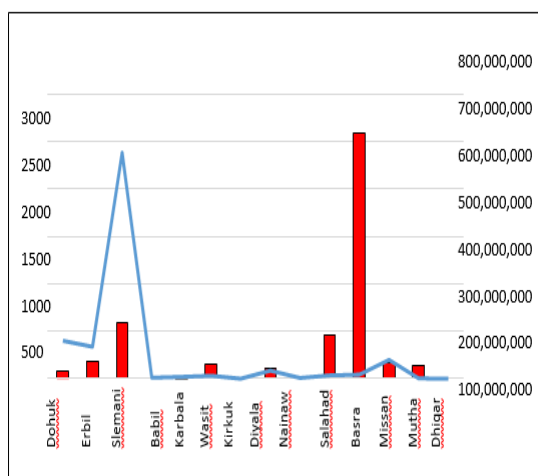
- ❖ Lack of information, records and maps of mined areas
- ❖ Lack of international support for Iraq
- ❖ Lack of international organizations operating in Iraq
- ❖ Economic impact
- ❖ Environmental Impact
- ❖ IDPs
- ❖ Lack of experts

## Nature and extent of the remaining challenge for Article 5







Region	Hazard Type	Hazards	% of Hazards	Area (m <sup>2</sup> )	% of Area
IKMAA	CHA	2,624	74%	151,921,092	13%
	SHA	498	14%	71,245,685	6%
RMAC-N	CHA	1	0%	0	0%
	SHA	126	4%	152,771,666	13%
RMAC-M EU	CHA	31	1%	39,646,306	3%
	SHA	30	1%	6,929,500	1%
RMAC-S	CHA	241	7%	771,989,024	65%
	SHA	3	0%	1,062,459	0%
<b>Total</b>		<b>3,554</b>	<b>100%</b>	<b>1,195,565,732</b>	<b>100%</b>

## The Current Situation of Minefield Areas



Region	Governorate	Hazards	% of Hazards	Area (m <sup>2</sup> )	% of Area
IKMAA	Duhok	400	11%	19,108,042	2%
	Erbil	337	9%	48,091,213	4%
	Slemani	2385	67%	155,967,522	13%
RMAC-M EU	Babylon	10	0%	1,301,600	0%
	Kerbala	20	1%	5,627,900	0%
	Wasit	31	1%	39,646,306	3%
RMAC-N	Diyala	85	2%	29,438,137	2%
	Ninewa	7	0%	137,500	0%
	Salah al-Din	35	1%	123,196,029	10%
RMAC-S	Basrah	42	1%	690,266,648	58%
	Missan	199	6%	44,839,415	4%
	Muthanna	2	0%	37,845,692	3%
	Thi-Qar	1	0%	99,728	0%
<b>Total</b>		<b>3,554</b>	<b>100%</b>	<b>1,195,565,730</b>	<b>100%</b>

 <b>DMA</b> Directorate For Mine Action 								
DMA - Clearance Plan								
Year	Type of clearance team	RMACs	Teams	Clearance cost (US\$/m <sup>2</sup> )	Daily expected clearance per team (m <sup>2</sup> )	Annual expected clearance (m <sup>2</sup> )	Total cost (US\$)	Note
2018	Manual	RMAC-S	60	4	200	2,400,000	9,600,000	The price involve 20% each sqm for 30-60 cm depth
	Mechanical	RMAC-S	19	2	1,500	5,130,000	8,977,500	The price involve 30% each sqm for relative activity
	TS	RMAC-S RMAC-M EU	15	1	8,000	24,000,000	12,000,000	This area covered ≈240 Km <sup>2</sup>
<b>Total</b>						<b>31,530,000</b>	<b>30,577,500</b>	
2019	Manual	RMAC-S RMAC-M EU	60	4	200	2,400,000	9,600,000	The price involve 20% each sqm for 30-60 cm depth
	Mechanical	RMAC-S	19	2	1,500	5,130,000	8,977,500	The price involve 30% each sqm for relative activity
	TS	RMAC-S RMAC-M EU	15	1	8,000	24,000,000	12,000,000	This area covered ≈240 Km <sup>2</sup>
<b>Total</b>						<b>31,530,000</b>	<b>30,577,500</b>	

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IKMAA – Clearance Plan								
Year	Clearance team type	Teams	Clearance cost (US\$/m <sup>2</sup> )	Daily expected clearance per team (m <sup>2</sup> )	Annual expected clearance (m <sup>2</sup> )	Total cost (US\$)	Note	
2018	Manual	75	9	160	2,400,000	21,600,000	Price for each Sqm involve all other relative activities	
	Mechanical	13	6	250	455,000	2,730,000		
	MDD	2	5	250	50,000	250,000		
	TS		1	1,000	200,000	200,000		
<b>Total</b>					<b>3,105,000</b>	<b>24,780,000</b>		
2019	Manual	75	9	160	2,400,000	21,600,000	Price for each Sqm involve all other relative activities	
	Mechanical	13	6	250	455,000	2,730,000		
	MDD	2	5	250	50,000	250,000		
	TS		1	1,000	200,000	200,000		
<b>Total</b>					<b>3,105,000</b>	<b>24,780,000</b>		



## DMA Current Situation

