



Lebanon Mine Action Center

المركز اللبناني للأعمال المتعلقة بالألغام



Intersessional Meeting

*Clearance-Technical Workshop
Identification Phases in Lebanon*

Geneva – April 2013



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- **Historical Scope of the Problem in Lebanon**
- **Impact Assessment and Surveys**
- **Gap Identification, Analysis, and Interventions**



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Historical Scope of the Problem

- **1975 - 1990: Onset of the Civil War.** Mines and different explosive ordnance were used and minefields were laid repeatedly, at different times and by different parties.
- **2000: Liberation of the South.** Millions of unevenly scattered mines, cluster munitions, unexploded ordnance, booby-traps and varied explosive remnants of war in addition to a large number of minefields were left behind.
- **2006: Hostilities against Lebanon.** 4.2 millions of cluster munitions were used, contaminating large inhabited areas, houses, school yards, hospitals, and farmland.



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Three Phases of Contamination

Post 1990

Post 2000

Post 2006

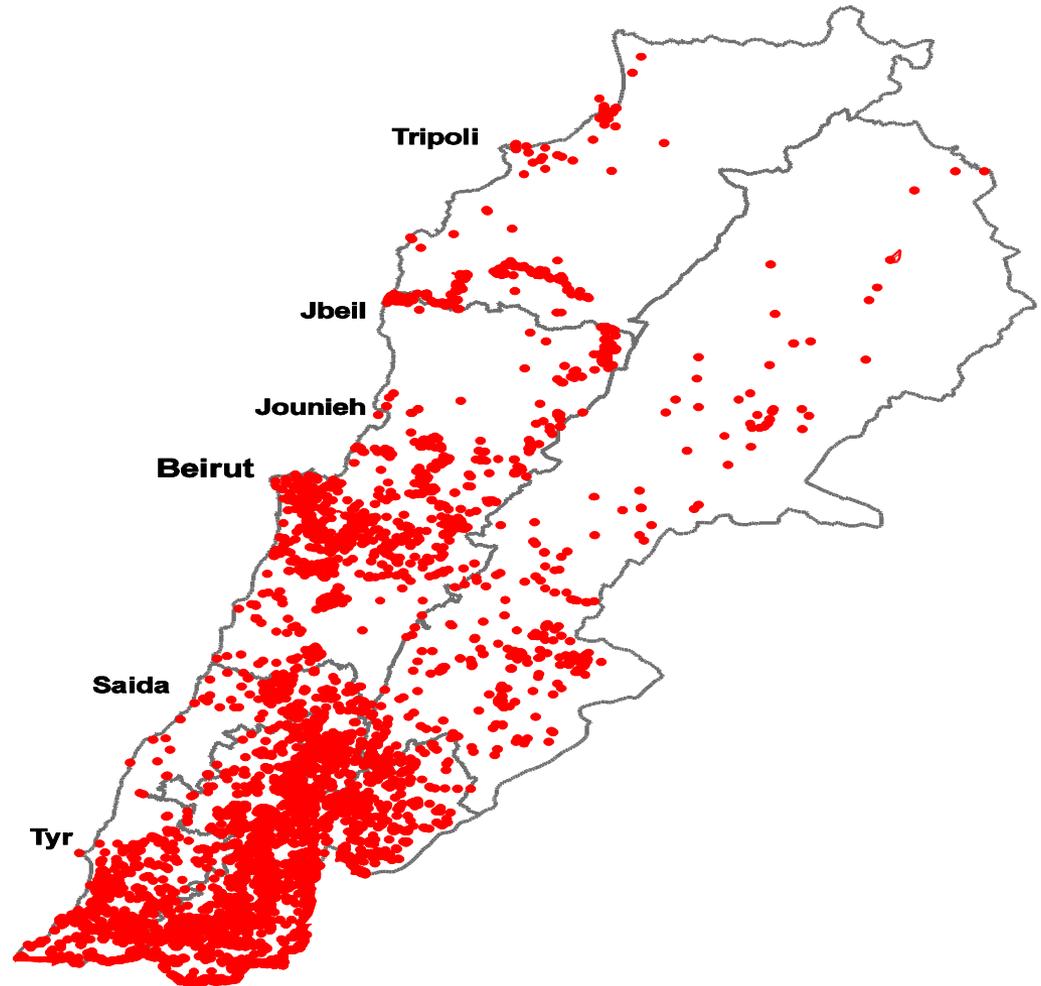




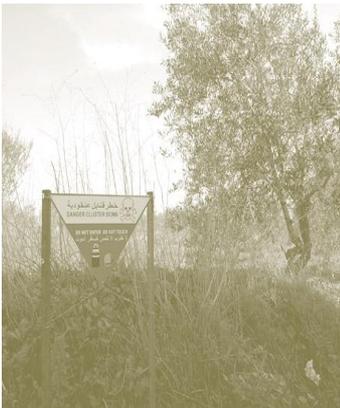
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- Historical Scope of the Problem in Lebanon
- **Impact Assessment and Surveys**
- Gap Analysis and Interventions



Impact Assessment and Surveys

- Socio economic development substantially affected
- UXO's affecting areas that are very poor (south Lebanon)
- Approximately 36% of contaminated land is used for livelihood activities
- Estimated cost of lost agricultural production is 126.8 million USD in 2007 and decreased to be 25 millions USD in 2011.





Impact Assessment and Surveys

- Landmine Impact Survey (LIS):
 - Implemented in 2003
 - Provided a preliminary overview of impacted communities.

- The Nontechnical Surveys aimed at:
 - Confirming the initial information about contaminated lands.
 - Releasing non-contaminated areas.
 - Preparing clearance plan for confirmed contaminated areas.



Impact Assessment and Surveys

- Nontechnical Surveys Phases:
 - PHASE 1: Started early 2005 and ceased operations as of August 2006.
 - PHASE 2: Resumed in Feb 2008 till July 2010.
 - PHASE 3 : Started in July 2010 for LAF, August 2010 for LDO.
 - PHASE 4: Started in October 2011 by LAF for Blue Line area.



Impact Assessment and Surveys

Period	No. of surveyed sites	Initial size (m ²)	Added size (m ²)	Total size (m ²)	No. of sites requiring clearance operations	Area requiring clearance operations (m ²)	No. of sites released	Area of sites released (m ²)
09/05/05-06/07/06	470	41,910,075	1,260,998	43,171,073	202	2,356,244	268	40,814,829
25/02/08-02/07/10	821	55,433,220	17,717,494	73,150,714	512	30,313,060	309	42,837,654
26/07/10-14/10/10	771	64,873,798	800,466	65,674,264	403	15,754,022	368	35,920,242
17/10/11-31/03/13 (Ongoing)	536	9,213,726	218,300	23,431,988	474	4,028,654	62	19,403,444
Total	2,598	171,430,819	19,997,258	205,428,039	1,591	52,451,980	1,007	138,976,169



Impact Assessment and Surveys

The Problem/ Type	Initial Contamination	Cleared	Remaining
All Minefields			
Identified locations	2,287	1,619	668
Surface area (m ²)	43,203,643	20,929,173	22,274,470
Blue Line Minefields			
Identified locations	890	0	890
Surface area (m ²)	7,415,199	0	7,415,199
Mined Area			
Identified locations	1,079	906	173
Surface area (m ²)	129,947,804	81,390,504	48,557,300
Dangerous Areas (no CBU)			
Identified locations	2,414	2,071	343
Surface area (m ²)	44,416,203	29,216,080	15,200,123
CBU			
Identified locations	1,293	834	459
Surface area (m ²)	55,288,231	36,539,050	18,749,181
Total identified locations	7,963	5,430	2,533
Total surface area (m²)	280,271,080	168,074,807	112,196,273



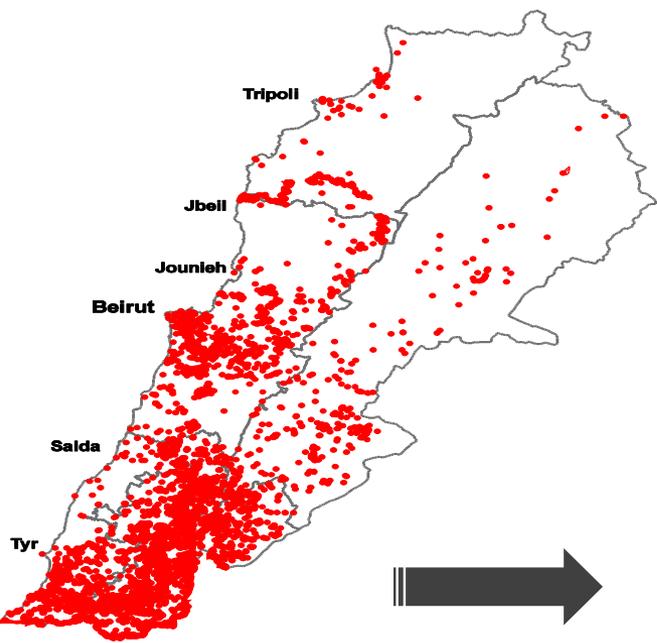
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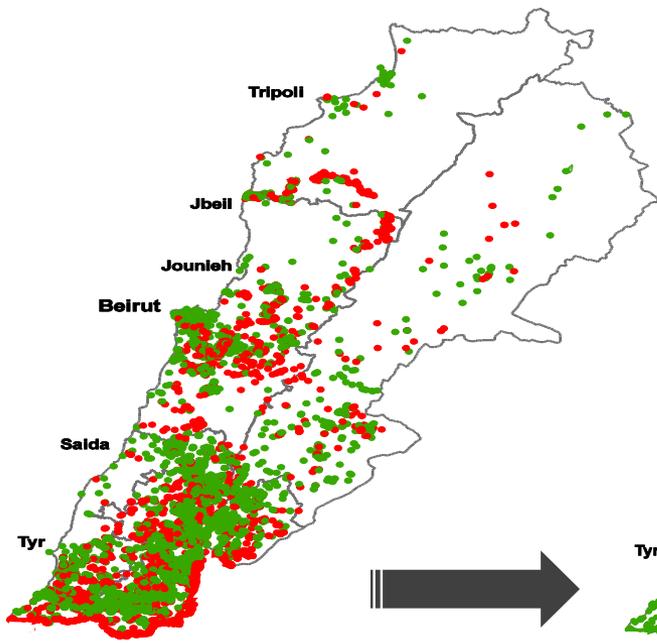


Gap Identification, Analysis, & Interventions

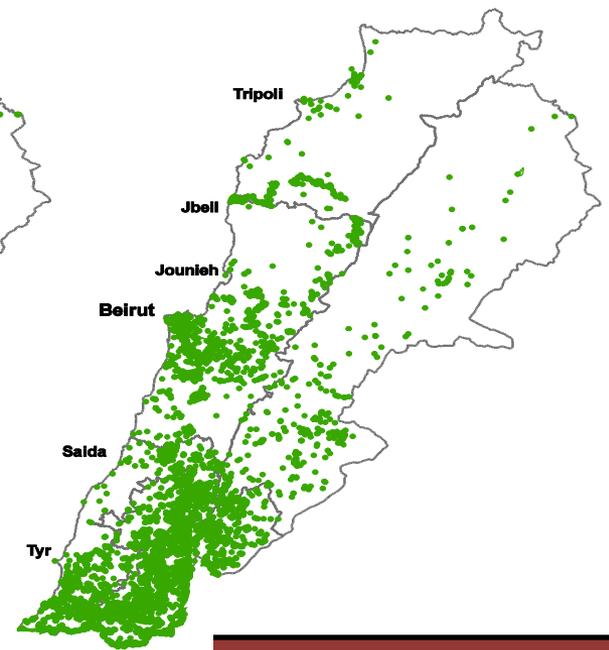
Before



Now



Vision



Lebanon free from :

- Cluster bombs (2016)
- Landmines (2021)
- ERW (2021)



Gap Identification, Analysis, & Interventions

