

> Efficient survey and clearance of Cluster Munitions

Åsa Gilbert Geneva International Centre for Humanitarian Demining (GICHD)





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Application of all available methods for the efficient survey and clearance of cluster munition remnants

> The Problem

- Often poor information available on the location of unexploded sub-munitions
- Faulty survey processes that inflate the problem
- Subsequent tasking of huge areas
- Operator conservatism producing "over clearance" (when is enough?)
- Use of slow mine clearance procedures instead of procedures adopted to address areas contaminated by submunitions
- Fear of liability



Different Characteristics Mines, Explosive Submunitions and other UXO



	Pattern	Metal Content	Failure Rate	Risk of accidental activation (accessibility during survey)
MINES	Laid in a pattern or placed for tactical reasons.	Low/ Medium/ High	Not applicable	Victim activated No access to the area during survey
SUBMUNITIONS	Create a pattern or Footprint as a result of their delivery or dispersal process	High	Variable - can be as high as 30%	Designed to function by detonation prior to, on or after impact Possible to access the area during survey in most cases
OTHER UXO	Generally no pattern	High	Depends on type, but in general lower than for submunitions	Generally designed to detonate on impact <u>Possible to access the area during survey</u>



Land Release

'Increasing efficiency in Survey and Clearance'

- National Authority to accept the concept of Land Release
- More land cancelled/released through Survey processes
- More effective use of technology and assets
- More efficient operational planning/contracting/QM

Also applicable in a cluster munition context!

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Methodology

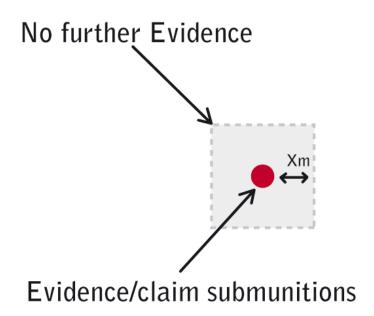
- > Evidence based approach
- > Non-technical Survey
- > Technical Survey and Clearance
- > Guidance on where to start and stop



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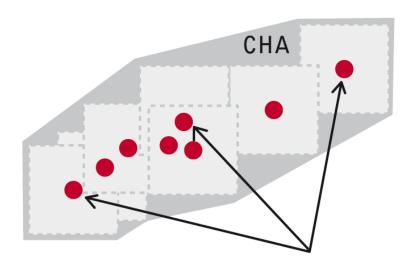


> Survey – identify the footprint





> Technical Survey



Evidence/claim submunitions

Cleared Area Released Area



> Challenges for survey and clearance

- > "Old" vs "New" contamination
- > Bombing data
- > Mixed contamination
- > Tasking of survey/clearance teams
 - > Evidence based vs. community/development driven
 - > 33% of all completed clearance tasks had no items found

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Main Points (1)

Submunitions vary from mines and other UXO and therefore require different methodologies and operational systems to gain the most effective outcome for survey/clearance



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Main Points (2)

Recording of 'Evidence Points' (or similar), as opposed to recording polygons (hazardous areas), should be considered when the boundaries of the contamination can not be accurately determined



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Main Points (3)

While some procedures and equipment used in mine clearance are suitable for submunitions, more efficient procedures and more suitable detection equipment should be used



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