> Efficient survey and clearance of Cluster Munitions

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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
- Limited donor pressure to improve efficiency
# Different Characteristics

Mines, Explosive Submunitions and other UXO

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

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

No further Evidence

Evidence/claim submunitions
Technical Survey

Evidence/claim submunitions

- Cleared Area
- Released Area

CHA
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
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.
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.
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.
GICHD Publication

Land Release and Cluster Munitions