Tools and Technologies Benefitting Mine Action Effectiveness
Where can we improve?
Efficient land release can remove the threat of antipersonnel mines in ten years. See the movie by NPA at: http://youtu.be/DDtmbWnBfno
Problem Statement

- Excessive use of clearance resources in areas that may not contain landmines and/or ERW

- Many contaminated areas consist of unpredictable patterns of hazards

- High proportion of remaining sites have a lower probability of containing hazards
Effectiveness?

NB: Clearance data from 2013 Land Mine Monitor
Better survey procedures and methods

- Non-technical survey: No mines - high confidence
- Technical survey: Mines - high confidence
- Mines - medium confidence
- No mines - high confidence
Technical survey in focus
and in particular on the usage of dogs
Conclusion

GICHD movie: Introduction to demining

- Non technical survey solutions can and are being improved
- Technical survey assets are still expensive and slow
- Clearance assets are efficient but expensive
- There is a problem on how to define the extent of the remaining hazards
• How do we improve the information gap between survey and clearance?

• What existing technology can we use to verify indirect evidence inside a suspected hazardous area?

• How can we efficiently reduce large suspected hazardous areas (SHA) and effectively define confirmed hazardous areas (CHA)?
Technical Survey and Information Management Project for Animal Detection Systems

- Funded and initiated by GICHD
- NPA providing MDD expertise and dogs
- DIGGER providing IM expertise and product development
- 12 month project in Cambodia
GICHD movie: Animal Detection System Survey Project – Cambodia


Accomplishments

- Vegetation is not a problem for dogs
- User friendly system on a “mobile device” providing real time data
- Up to 40,000 m2 area coverage per day
- Accuracy down to 2 cm
Costs and Outputs

- 10 ¢ per m² for an average daily output of 15,000 m²
- Up to 75% reduction of clearance costs
- System ready for deployment Q1 2015
Questions