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Tools and Technologies Benefitting Mine Action Effectiveness

Where can we improve?

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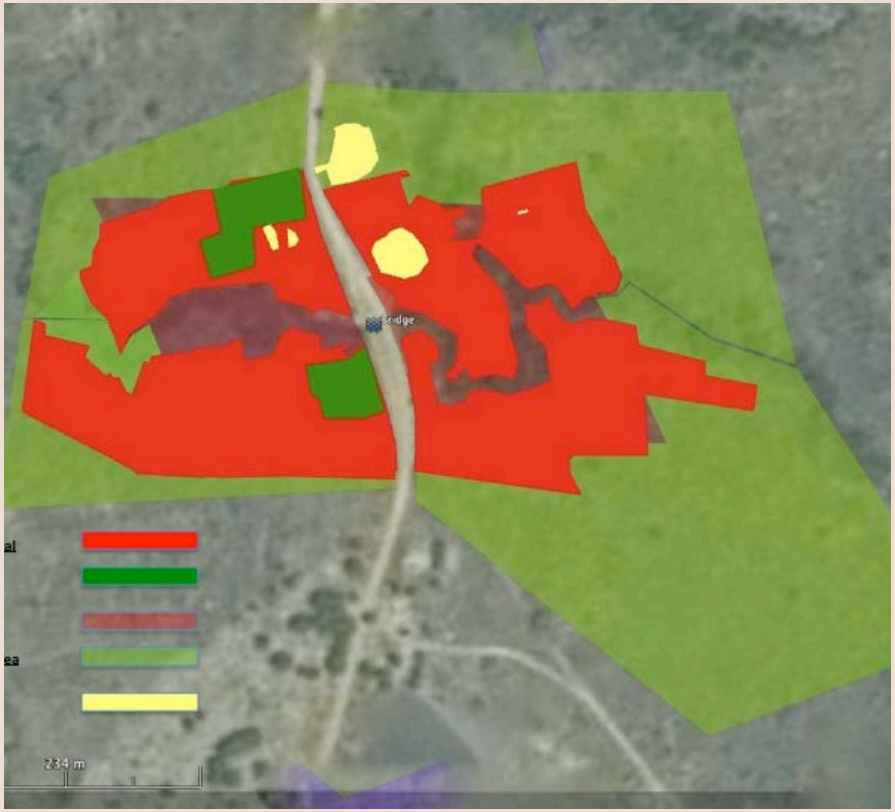
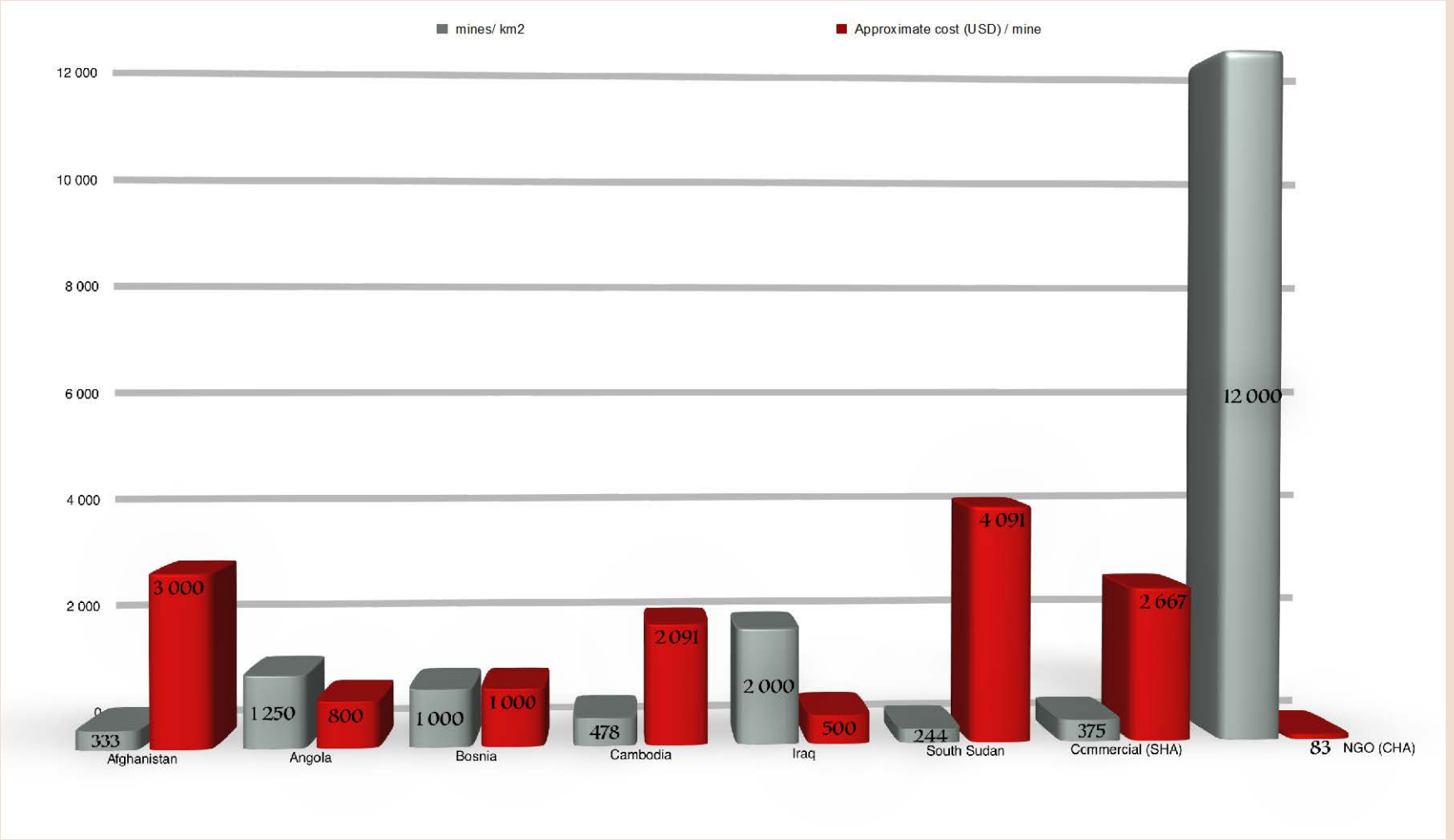
Efficient land release can remove the threat of antipersonnel mines in ten years.
See the movie by NPA at:
http://youtu.be/DDtmbWnBfno

Problem Statement



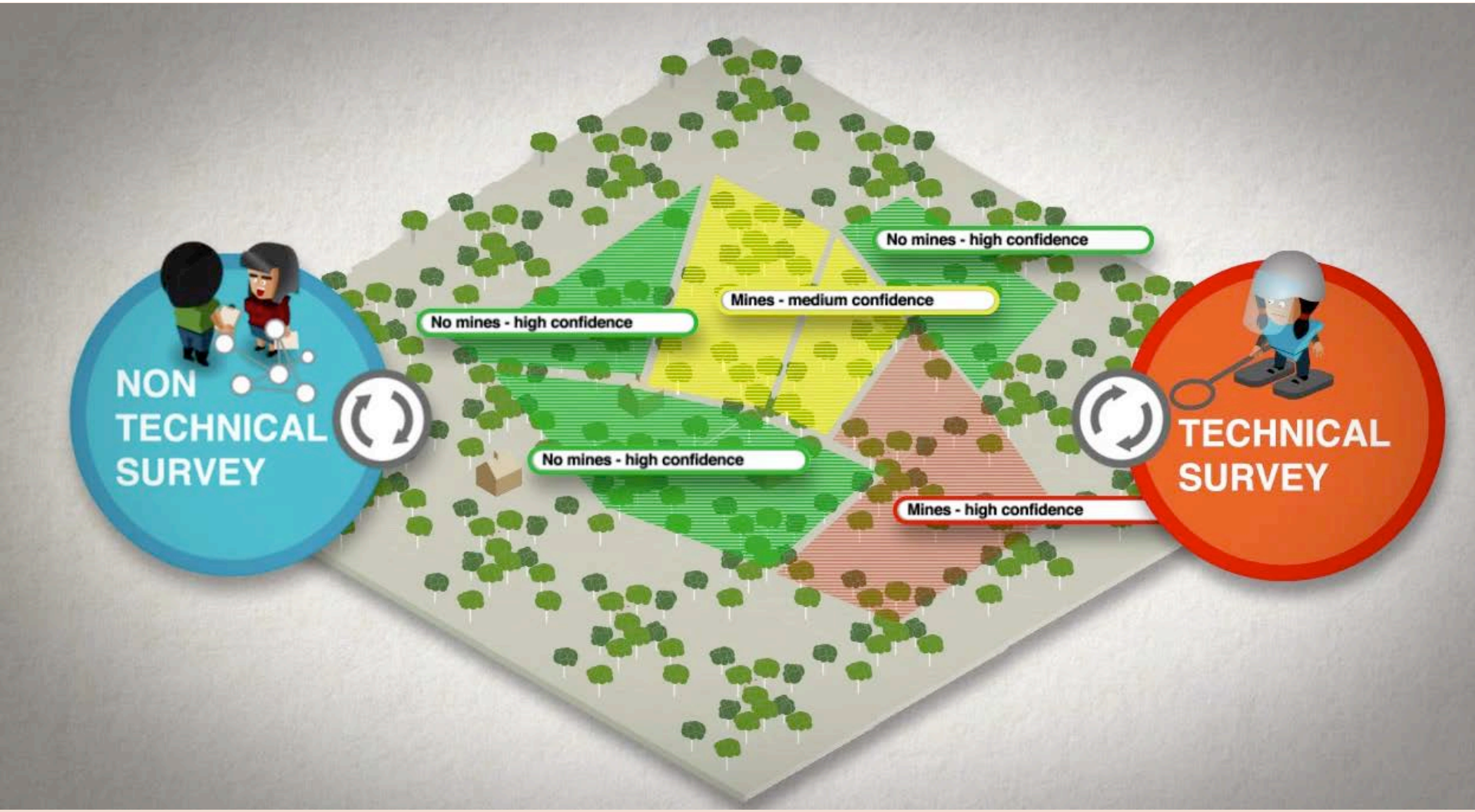
- Excessive use of clearance resources in areas that may not contain landmines and/or ERW
- Many contaminated areas consist of unpredictable patterns of hazards
- High proportion of remaining sites have a lower probability of containing hazards

Effectiveness?

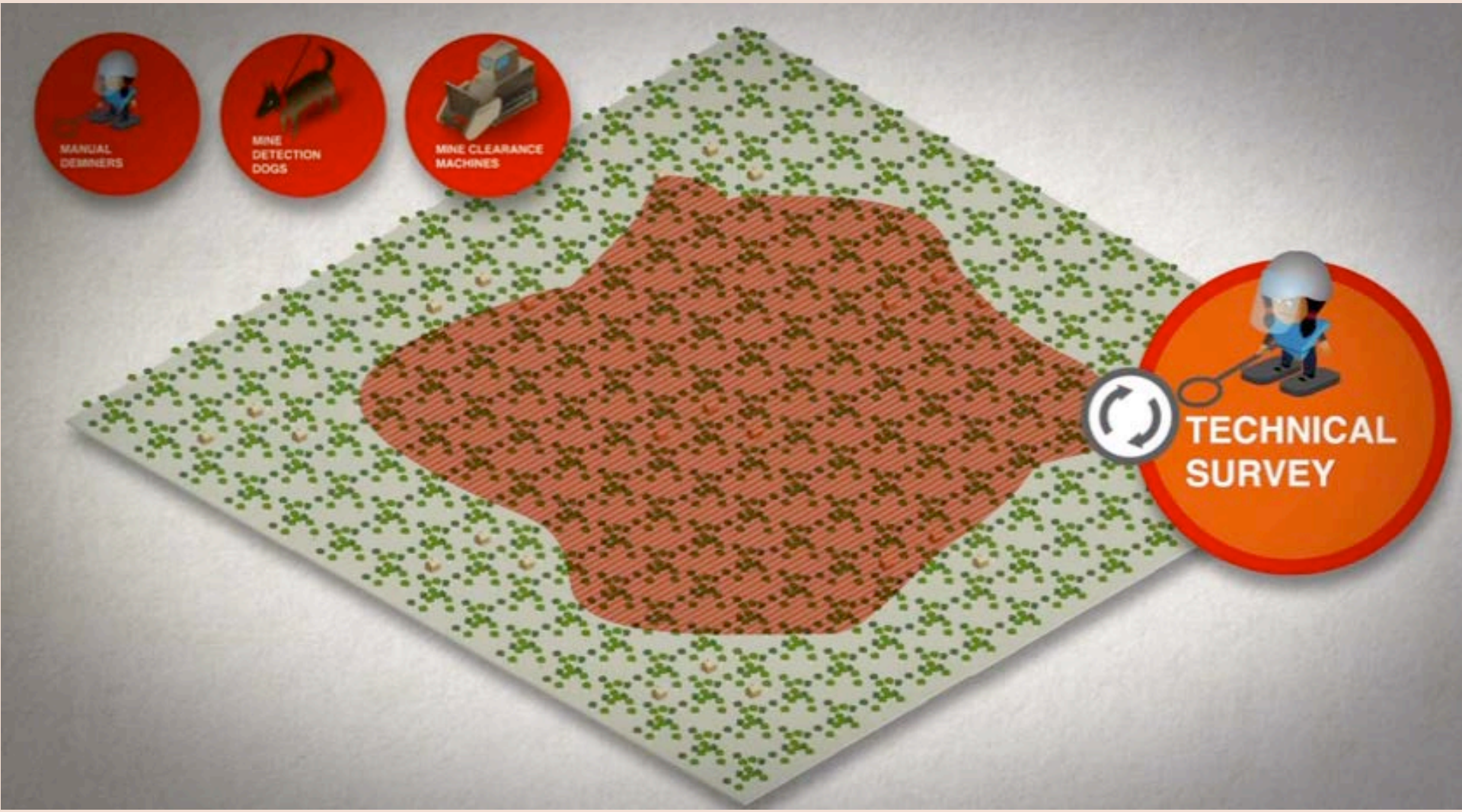


NB: Clearance data from 2013 Land Mine Monitor

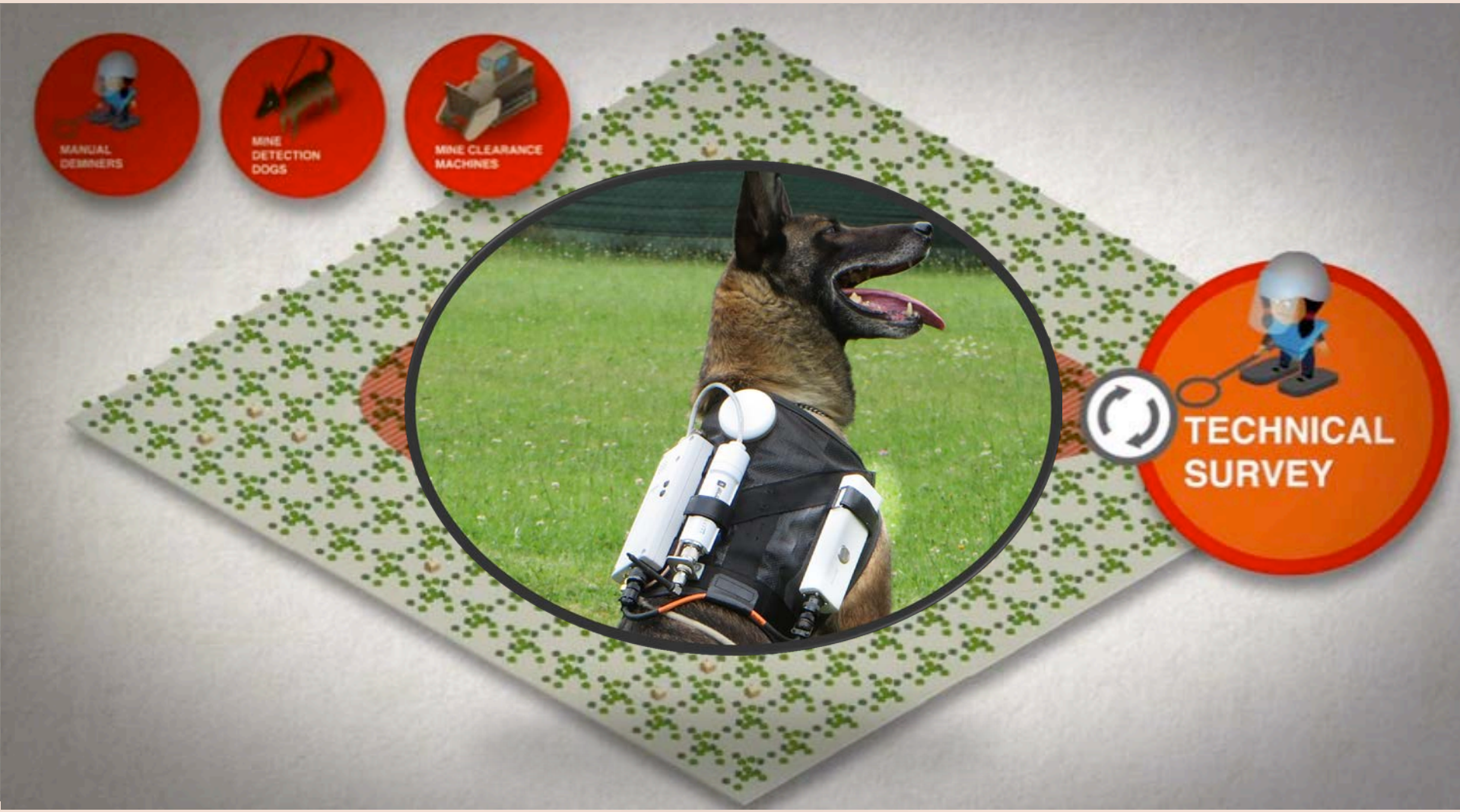
Better survey procedures and methods



Technical survey in focus



and in particular on the usage of dogs



Conclusion

GICHD movie:

Introduction to demining

http://bit.ly/Demining-Introduction

- 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

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Survey Solution

- 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

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Accomplishments

GICHD movie:

Animal Detection System Survey Project – Cambodia

http://bit.ly/GICHD-Animal-Detection-Systems

- 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

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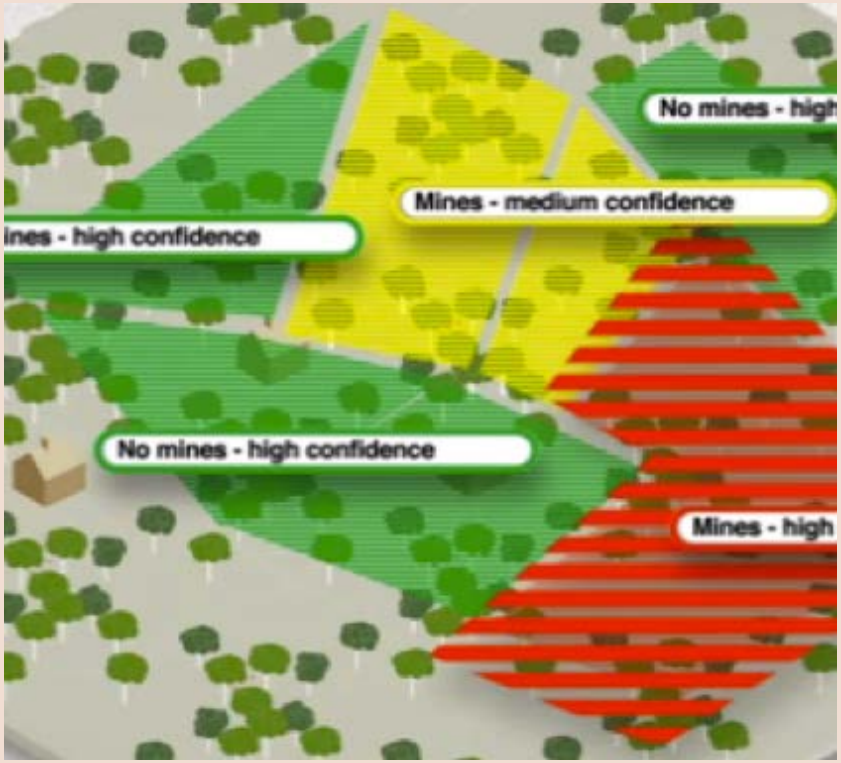
Costs and Outputs



- 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

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Questions