

THE MARSHALL LEGACY INSTITUTE

Removing Landmines, Promoting Stability

NDIA Global EOD Symposium & Exhibition

HMA Technologies Panel

August 2019

MARSHALL LEGACY INSTITUTE & MINE DETECTION DOGS

Through our Mine Detection Dog Partnership Program, MLI seeks to increase the quantity and quality of highly trained Mine Detection Dogs (MDDs) working to accelerate the pace of landmine detection in countries around the world



MLI strives to build, expand &/or enhance the MDD capacities of local demining organizations working to rid their countries of the scourge of landmines



MINE DETECTION DOGS

- Simple 'technology' that detects odors found in landmines
- Efficient, versatile asset which can be used for:
 - Technical survey
 - Low-medium density minefields
 - Quality control
- Can work up to 30X faster than manual deminer with probe
- Valuable tool in demining toolbox



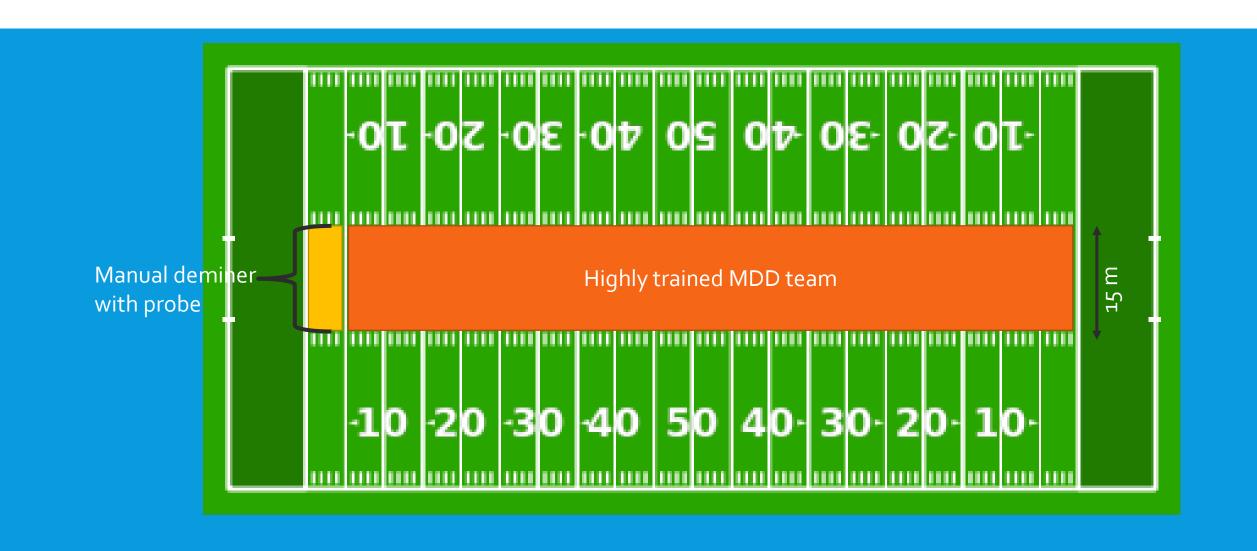


MDD CAPABILITIES: 1 WORKING DAY





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HOW MDDS WORK

- Trained to detect explosive "off gas" odors found in buried landmines
- Indicate presence of explosive odors using sit and stare response
- Work on long leash tethered to handler
- Motivated by play with handler
- Typical MLI MDD program training timeline:

Acquisition of candidate MDDs (1 month)

Initial training of candidate dogs (odor compounds, block search, lane search) (3 months) Pair dogs with local handlers for MDD team training course, culminating in IMAS certification (3-6 months)

Integration training of dog teams with other demining assets; field supervision of operational MDD teams (3-6 months)





MLI MDD PROGRAM ACCOMPLISHMENTS

- 250 dogs donated to 26 indigenous demining organizations located in 11 mineaffected countries around the world
- Dogs sponsored by private American citizens, schools, companies & associations
- USG funding for training + field supervision courses
- Over 50 million square meters searched by MLI-donated dogs
- No dog lost to minefield accident
- Beneficiary organizations have often expanded MDD capacity



MDD CAPACITIES

Potential disadvantages:	Advantages:
Cost & effort to sustain MDDs	Faster detection/clearance capability
Continuous investment in training	 Strategic deployment of all assets → more efficient overall operations
 Lack of support/buy in from national authorities 	Ability to locate non- or low-metallic mines



THANKYOU – QUESTIONS?

