



Seminar on Exploring Alternatives to Using Live Anti-Personnel Mines for Permitted Purposes

1st Stockpile Destruction: 1st Apr 2003



2nd Stockpile Destruction: 2nd Aug 2019



TMAC Demining Training





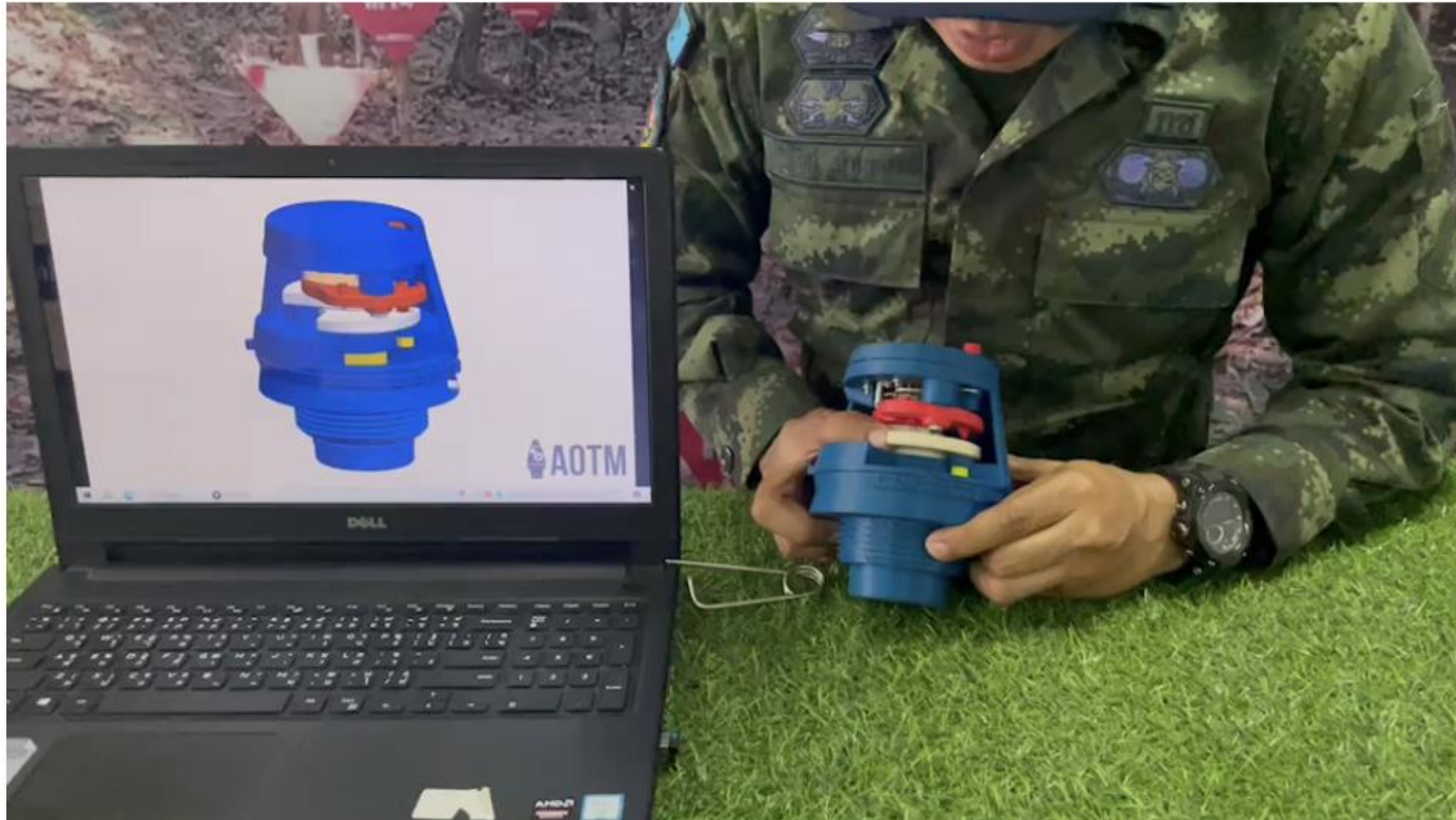
Inert Training Devices and Replicas for TMAC Demining Training



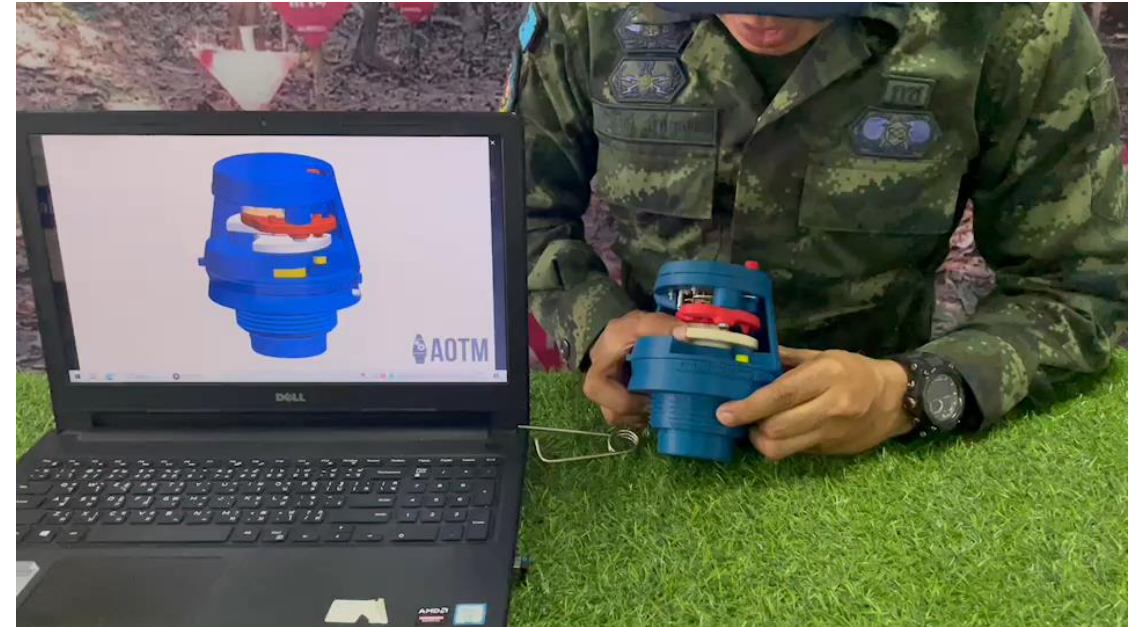


Inert Training Devices

AOTM Training Ordnance



Simulation





TMAC and Advance Technologies

Technologies

Existing:

Additive Manufacturing

- 3-D Printed Binary Charges Containers
- 3-D Printed Targets

Vehicles:

- Bearcat and RAMBO
- Minewolf/GCS-200
- Mobile Cutting System

Requirements

- Information Management System
- Hot weather PPE
- Detectors
- Center of Excellence Training and Testing Center

3-D Printed Charge Containers



Cooperation: TMAC, Golden West and MARFORPAC

3-D printed binary containers.
Current results highlights:

- Costs and logistics Effectiveness
 - One barrel provide enough binary 5,000 3-D-printed containers
 - One barrel costs less \$2,000 USD / each charge being ~25 US cents
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- Future plans
set up a small in-country 3-D lab

Metallurgically Accurate 3-D Printed Mines

Alternative to using live
anti-personnel mines for training



Vehicles



RAMBO UTV Mobile Operators Station

Mobile two-person operational command station custom configured with several design features for the user needs.

- Carry operational supplies – tools, PPE, etc.
- Low cost



- Front seat (Firewall/Windscreen/doors) Protection
- Solar Panel with onboard power storage
- Computer mount/IP camera ready

Bearcat



Mini-Minewolf



Mobile Cutting System



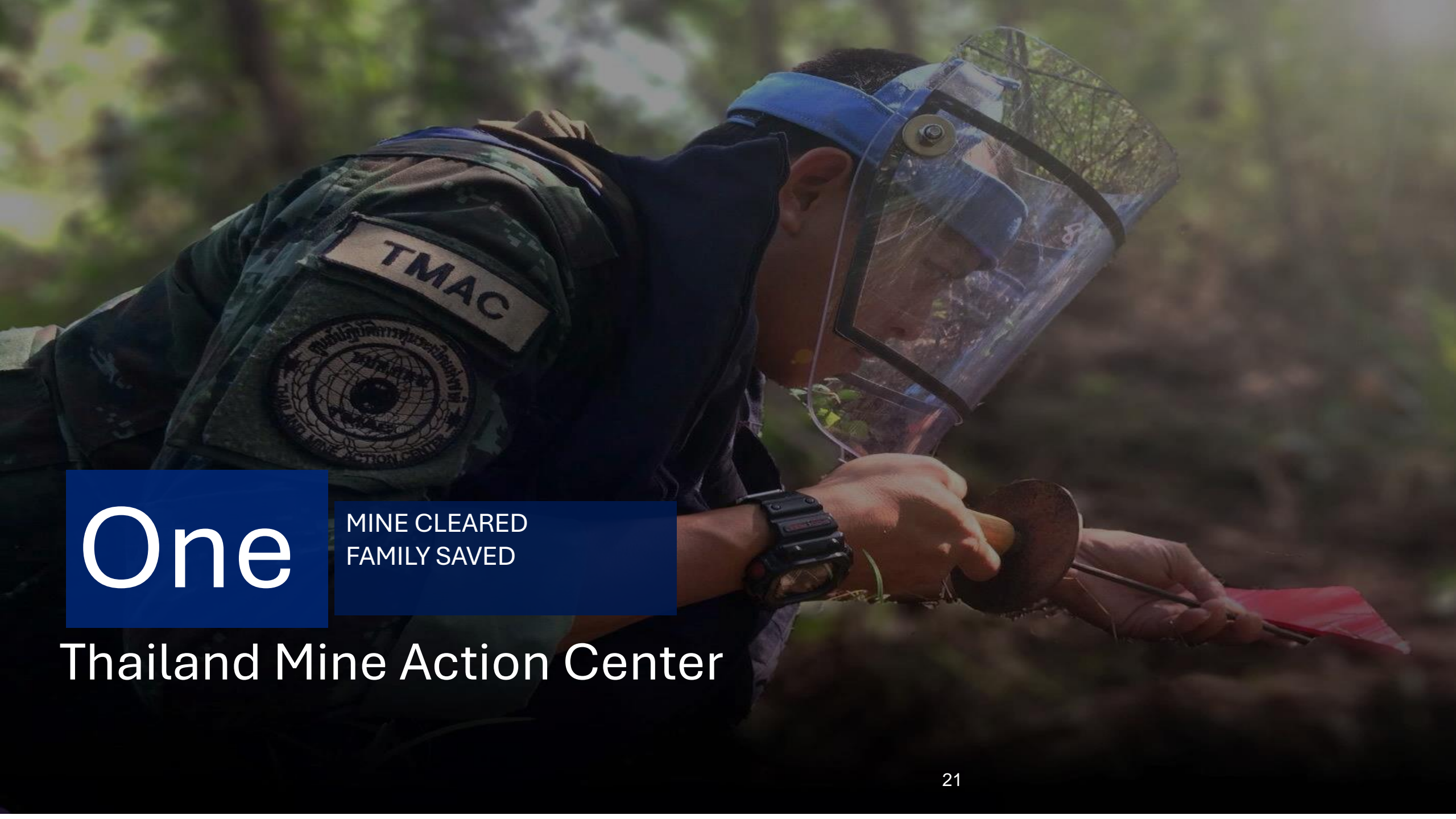
Technology Requirements



1. Information Management System
2. Personnel Protection Equipment (PPE)
3. Detectors

Mine Risk Education: MRE





One

MINE CLEARED
FAMILY SAVED

Thailand Mine Action Center