UN Mine Action Program for Afghanistan
Mine Detection & Dog Center (MDC)
INPUT
• Mine Dog Breeding
• Mine Dog Training
• Mine Dog Groups
• Mine Dog Sets
• Vet. Services
• Medical Services

OUTPUT
• Minefield Clearance of 17 million SQM annually.
• Participation in the survey of 30 million sqm of minefields.
  • Reduction of 2.5 million SQM Mined areas in survey operations annually.
  • Clearance of 1 million SQM of minefield boundaries/special tasks annually.

Process
• Mine Dog Operations
  • Minefield Clearance
  • Minefield Survey
Introduction:

- A Non Governmental, non-Political Organization.
- Specialist in Mine Dog Breeding, Training and Deployment for Mine Action activities.
- Functioning under the UN Supervision.
- Financially Supported by UN MAC/Germany.
- Hundreds cleared minefields are evidences of MDC success.
- Capability of exporting Mine Dog Techniques.

» Mine Dog Project of MDC & GTZ (Germany) in Republic of Yemen in 2001.
Project Objectives:

• Primary objective:
  – Clear high priority mined areas by deploying Mine Dog Groups (MDGs).
  – Assist in the survey of minefields through the deployment of mine dog sets in support of survey teams.

• Secondary objective:
  • Develop the techniques for using mine dogs.
  • Development of a local dog breeding program.
• 1989 establishment
• 14 dogs donated by Thailand
• Deployment of 1st Dog team.
• Support of Mine Action NGOs.
• 1990 Americans trained Afghans in the field of Mine Dog Training
• Evaluation of Result of Dogs
• Import of more trained dogs
• 1994 deployment of first MDG
• 1994 Start of Local Breeding program
• 1989 to 1995 financial support of USAID
• 1996 to Date financial support of Germany
The National Mine Dog breeding program makes the program cost effective. MDC started its local dog breeding program in 1994.

MDC BREEDING PROGRAM'S OUTPUT

12 42 25 19 40 41 39 16 244
Mine Dog Training:

- 12 breeding dogs
- 50 to 60 puppies per year
- Training of a Dog takes 1 to 1 and ½ year.

Mine Dog training process:

- Small Puppies Training
- Young Dogs Training
- Refresher Training
- Dog handlers, instructors and group command members
- Evaluate and monitor of the mine dog teams
MDC Mine Dog Capacity as of 2001

- Total Dogs: 194
  - Operational Dogs in the Regions: 68
    - Cent. region: 32
    - East region: 14
    - South Region: 3
    - West Region: 19
  - Dogs in Training camp: 128
    - Under Train: 114
      - Puppies<2M: 7
      - Breeding: 7
      - Under Treat: 0
    - Ball Train: 16
    - Explosive Trn.: 16
    - Pre Deployment: 0
    - Refresher (operational dogs): 62
    - Socialization: 20
Vet. Services:

- Medical care of Mine Dogs
- Supervision of Breeding
- Vaccination
- Treatment
- Pharmacy management,
- Sterilization and laboratory operations

Vet Section

- East Clinic
  1Vet & 1 Para-vet

- Central Clinic
  1Vet & 1 Para-vet

- South Clinic
  1Vet & 1 Para-vet

- West Clinic
  1Vet & 1 Para-vet
Medical Services:

• Medical Support of Personnel
  • 17 MDGs
  • 33 MDSs

• Medical care of Local people
  • Displaced people in Kabul
  • Medical assistance of Germany
  • Annual treatment of 12000 patients

<table>
<thead>
<tr>
<th>Medical Section</th>
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<tbody>
<tr>
<td>Central Clinic</td>
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<tr>
<td>Doctor = 1</td>
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<td>Paramedic = 4</td>
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<tr>
<td>Paramedic = 5</td>
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<tr>
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<tr>
<td>Doctor = 1</td>
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<tr>
<td>Paramedic = 4</td>
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**Mine Dog Operations:**

- Dogs and minimum metal mines.
- Lower accident rate.
- More speed than manual teams.
- Lower cost than manual teams.
- Use of Dogs in Minefield Clearance/Survey.

**Mine Clearance Operations:**

- **1994**
  - Start of clearance operations
  - 4 Mine Dogs + 8 de-miners = 1 MDG
  - 7 Mine Dog Groups

- **1995**
  - 3 months Trials and evaluation of MDGs
  - 4 dogs proved working faster than 8 de-miners
  - 4 Mine Dogs + 12 de-miners = 1 MDG
  - 45% increment in MDG productivity

- **1997**
  - Number of MDGs increased from 10 to 15

- **1998**
  - Number of MDGs increased from 15 to 17
Structure of a MDG:

- Group Leader
  - G. Clerk
  - Paramedic
  - Asst G. Lead
  - Section Lead
    - 4 Dog Handlers
    - 12 De-miners
    - 4 Dogs
  - 4 drivers
MDG Productivity (Clearance Rate)

- Clearance rate of a MDG is depended to the type of the minefield. If the area is suitable for mine dog operations, clearance rate increases.

<table>
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<tr>
<th>Time Period</th>
<th>Area/SQM</th>
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<tr>
<td>Daily</td>
<td>2,000 to 5,000</td>
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<tr>
<td>Monthly</td>
<td>52,000 to 130,000</td>
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<tr>
<td>Yearly</td>
<td>Up to 1,000,000</td>
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### Minefield Clearance of MDGs Annually:

<table>
<thead>
<tr>
<th>Years</th>
<th>MDGs</th>
<th>Area</th>
<th>A.T</th>
<th>A.P</th>
<th>UXO</th>
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<td>887</td>
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Minefield Survey Operations:

- 1995 to 2001 MDSs just to assist MCPA in minefield survey.

Role of MDSs in Survey:

- Increase of survey speed.
- Two meters boundary lanes.
- Reduction of Minefield boundaries.
- Clearance of special tasks.

Set Leader

Dog Handler=2
Dogs = 2
Driver = 1
Mine Accidents

• Since 1989 MDC
  • 10 Personnel were killed.
  • 24 injured
  • 7 dogs killed

- Training of Handicaps
- Employment of Handicaps.
## Accident Chart since 1989:

<table>
<thead>
<tr>
<th>Years</th>
<th>Personnel Injured</th>
<th>Personnel Killed</th>
<th>Dogs Killed</th>
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</tr>
<tr>
<td>2001</td>
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<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>24</td>
<td>10</td>
<td>7</td>
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Cost of Mine Dog Operations:

• The most cost effective aspect of mine action program.
• Monthly cost of a MDG = US$ 13,000
• Monthly cost of a MDS = US$ 3,000
• The cost of one mine dog group is half of a manual team and from output output point of view is double than manual team.
Recommendation:

• As the mine dog operations is:
  • Safe Operation
  • More reliable in minimum metal minefields
  • Very cost-effective
  • High from clearance rate(output) point of view than manual teams
  • Easy available
  • Interested to donor’

So it is recommended that this technology be expanded in another mine affected countries, so that the threat of mine and UXO’s be deleted in shorter time.
MDC Message:

MDC is ready to share its experience in the fields of mine dog breeding, Training and operations with any mine affected country.
Thank You,