



**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

## Process

- Mine Dog Operations
  - Minefield Clearance
  - Minefield Survey

## 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.



# 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.

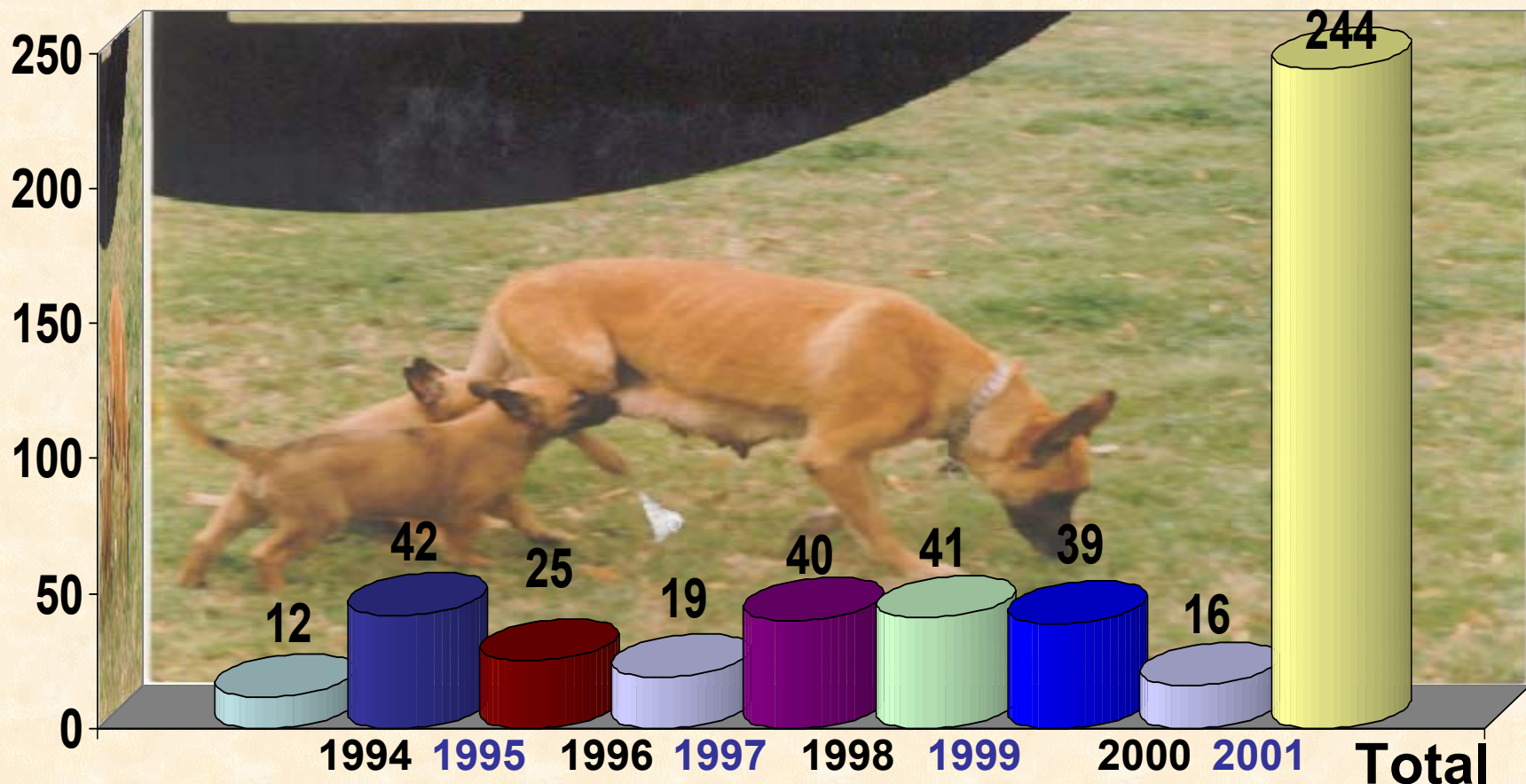
- **1989 establishment**
- **14 dogs donated by Thailand**
- **Deployment of 1<sup>st</sup> Dog team.**
- **Support of Mine Action NGOs.**
- **1990 Americans trained Afghans in the field of Mine Dog Training**
- **Evaluation of Result of Dogs**
- **Import of more trained dogs**
- **1994 deployment of first MDG**
- **1994 Start of Local Breeding program**
- **1989 to 1995 financial support of USAID**
- **1996 to Date financial support of Germany**



# Mine Dog Breeding Program:

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

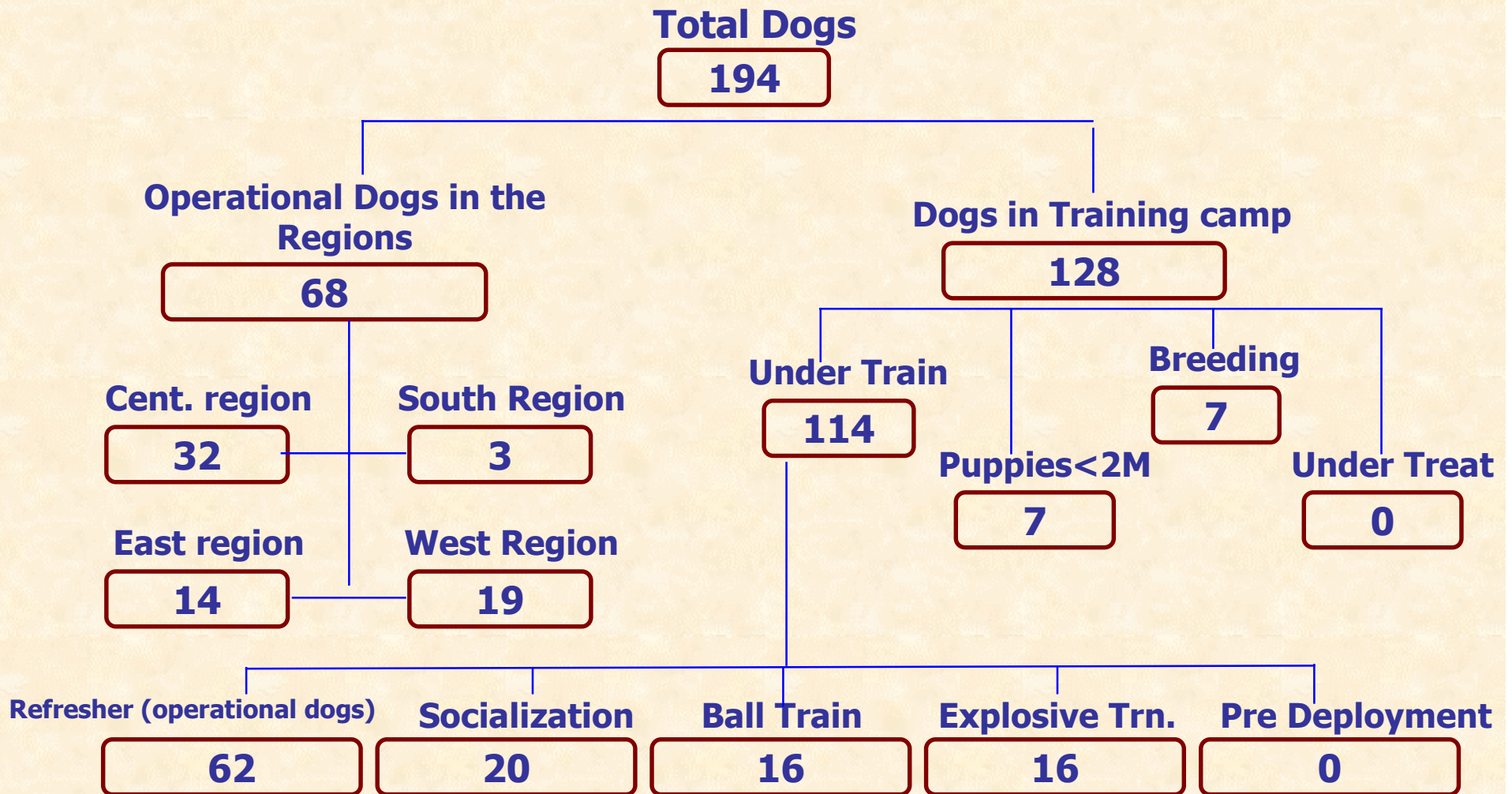


# Mine Dog Training:

- 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





## 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



## Medical Section

Central Clinic	East Clinic	South Clinic	West Clinic
Doctor = 1	Doctor = 1	Doctor = 1	Doctor = 1
Dentist= 1		Dentist= 1	
Paramedic= 4	Paramedic= 4	Paramedic= 5	Paramedic= 4

# 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:



## **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.**

<b>Time Period</b>	<b>Area/SQM</b>
<b>Daily</b>	2,000 to 5,000
<b>Monthly</b>	52,000 to 130,000
<b>Yearly</b>	Up to 1,000,000

## Minefield Clearance of MDGs Annually:

Years	MDGs	Area	A.T	A.P	UXO
1995	7	6556991	253	286	2433
1996	10	9496414	611	1720	2468
1997	10/15	15443699	1414	732	2452
1998	15/17	17649084	999	222	1233
1999	17	16540034	777	389	2054
2000	17	10442667	379	89	1211
2001	17	6210101	154	69	887

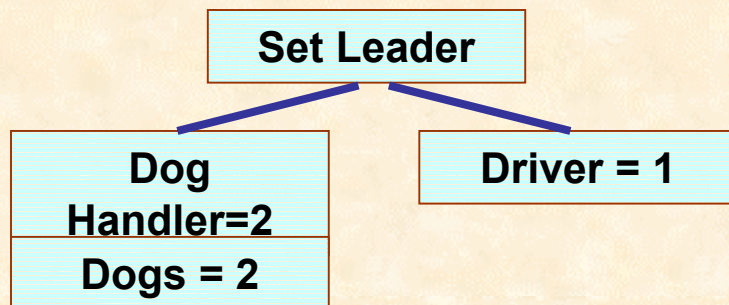


# Minefield Survey Operations:

- 1989 to 1994, Support De-mining NGOs in clearance and survey activities.
- 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.



# Mine Accidents

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

- Training of Handicaps
- Employment of Handicaps.





# Accident Chart since 1989:

Years	Personnel Injured	Personnel Killed	Dogs Killed
1989	0	2	2
1992	0	0	0
1993	3	0	1
1994	1	0	2
1995	4	0	0
1996	1	0	1
1997	8	2	1
1998	4	0	0
1999	3	1	0
2000	0	5	0
2001	0	0	0
Total	24	10	7

## **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 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 other 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,**