

# **SIMULATORS FOR TRAINING SOLDIERS ON DISASTER MANAGEMENT AND MITIGATION**



when [IT] really matters

# TYPES OF DISASTER

- ACTS OF GOD
  - TSUNAMI
  - EARTHQUAKES
  - CYCLONES
- COLLAPSE OF MANMADE STRUCTURES
  - DAM BURST
  - BHOPAL GAS TRAGEDY
  - TRAIN ACCIDENTS
- CAUSED BY HUMAN MISDEMEANOUR
  - RIOTS AND VIOLENCE
  - STRIKES
  - STAMPEDES

# **CONSEQUENCES**

- LOSS OF LIVES
- INJURIES AND INCAPACITATION
- LOSS OF PROPERTY
- DISRUPTION OF COMMUNICATION
- LOSS OF EARNING POTENTIAL

# **ROLE OF SOLDIERS**

- **SAVING LIVES**
- **MITIGATION OF SUFFERING**
- **RE-ESTABLISH LAW AND ORDER**
- **REHABILITATION OF VICTIMS**
- **RESTORATION OF COMMUNICATIONS**

# **NEED FOR PREPARATION** **AND TRAINING**

- **FORMAL TRAINING FOR AID TO CIVIL AUTHORITIES**
  - **COMMANDERS AND STAFF TO PLAN**
  - **TROOPS TO EXECUTE**

# SIMULATION TECHNIQUES

- CASUALTY/VICTIM  
SIMULATORS



when [IT] really matters

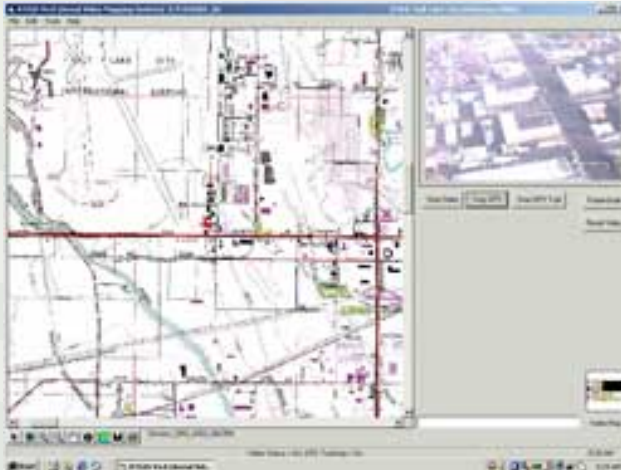


# SIMULATION AIDED DECISION MAKING USING IMAGE ANALYSIS

- READING AND ANALYSING AIR PHOTOGRAPHS NEEDS TRAINING



PART OF ANJAR - AFTERMATH OF EARTHQUAKE



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# ROLE OF TETHERED AEROSTATS



- FOR SIMULATING INTELLIGENCE GATHERING
  - FOR GENERATING PHOTOGRAPHS AND VIDEOS
  - FOR GENERATING COMMUNICATION TRAFFIC

when [IT] really matters



# TETHERED AEROSTATS



when [IT] really matters



**TETHERED AEROSTATS ARE  
A CHEAPER ALTERNATIVE  
TO HELICOPTERS AND  
AEROPANES FOR AERIAL  
INTELLIGENCE  
ACQUISITION ESPECIALLY  
WHILE OPERATING IN NON  
HOSTILE ENVIRONMENT**

**when [IT] really matters**

# **EMERGING TECHNOLOGIES**

- DIGITAL CAMERAS
- SENSORS
- GIS INFORMATION
- COMMUNICATION NETWORKS

# **THE ROAD AHEAD**

- EMPLOY SPIN OFF TECHNIQUES TO CREATE SIMULATORS FOR
  - MANNEQUIN BASED SYSTEMS FOR LIFE SAVING
  - SIMULATORS TO HONE INFORMATION MANAGEMENT TECHNIQUES

**Thank you!  
Questions?**



**when [IT] really matters**