

# **Data Analysis Function**

Patrick K Welton

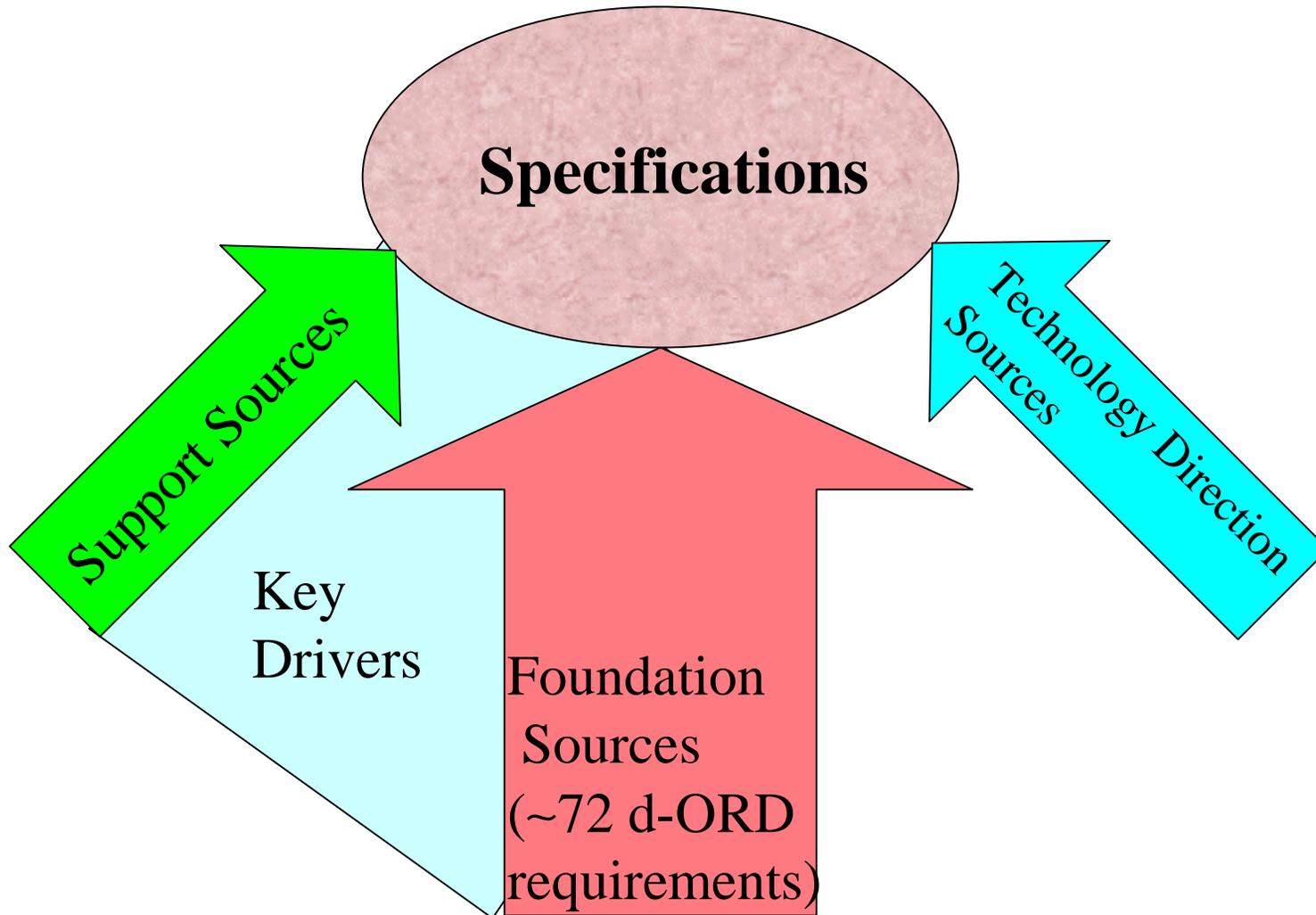
**CTC-OIS**

**Industry Day**

# Agenda

- Specification Generation Process
- What is Data Analysis?
- Key activities:
  - Indices
  - Create Alerts
  - Analyze units
- Analysis categories

# Specification Generation



# Specification Generation Sources

- **Foundation Sources**

- NTC-IS Operational Requirements Document (ORD)
- Selected Army ARTEPS

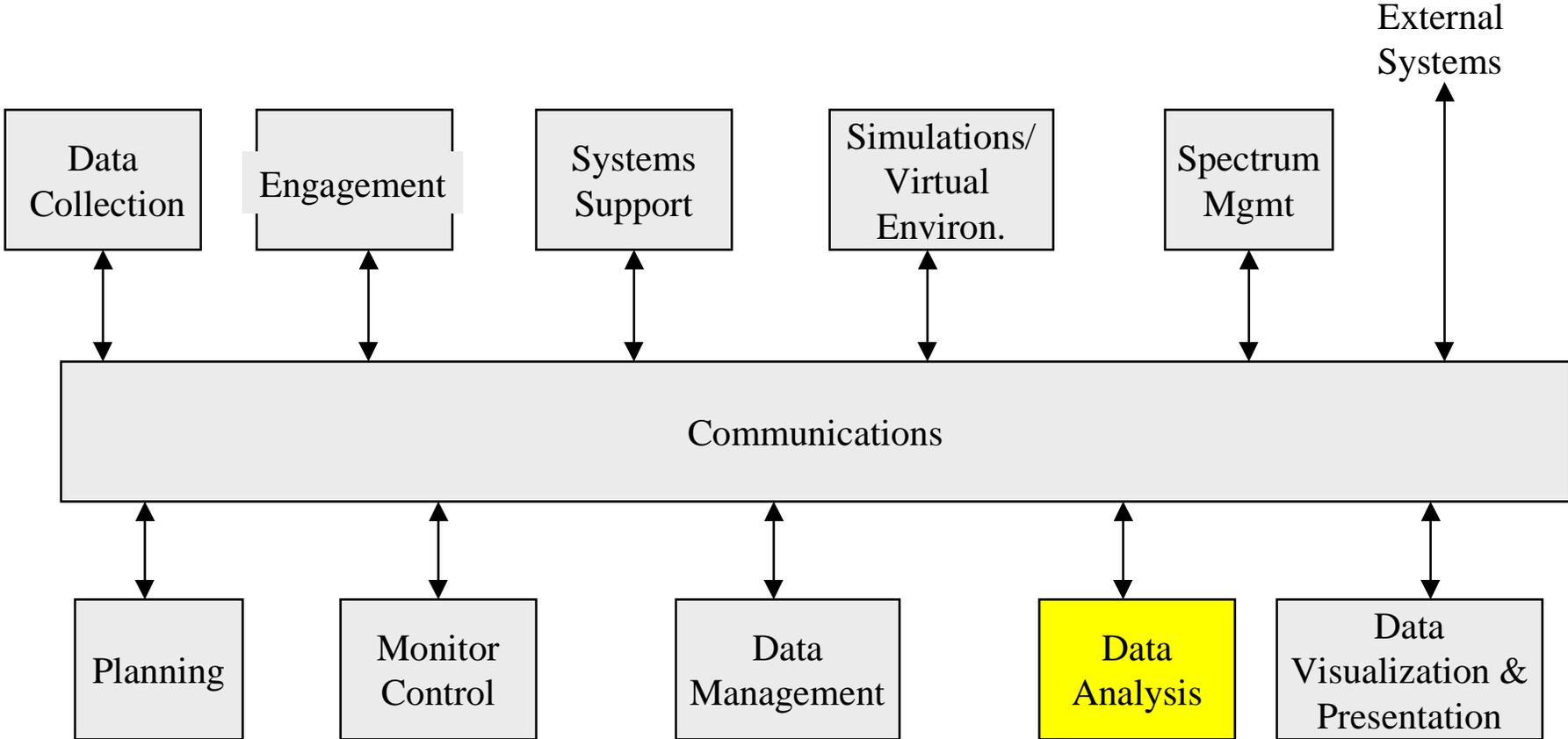
- **Support Sources**

- AFTS Documents
- CAF Study
- NTC Domain Modeling Interviews and Visits
- TAAF Aids Study
- CMTC-Live Fire/Objective Instrumentation System Technical Reports

- **Technology Direction Sources**

- Industry Suggestions & Information

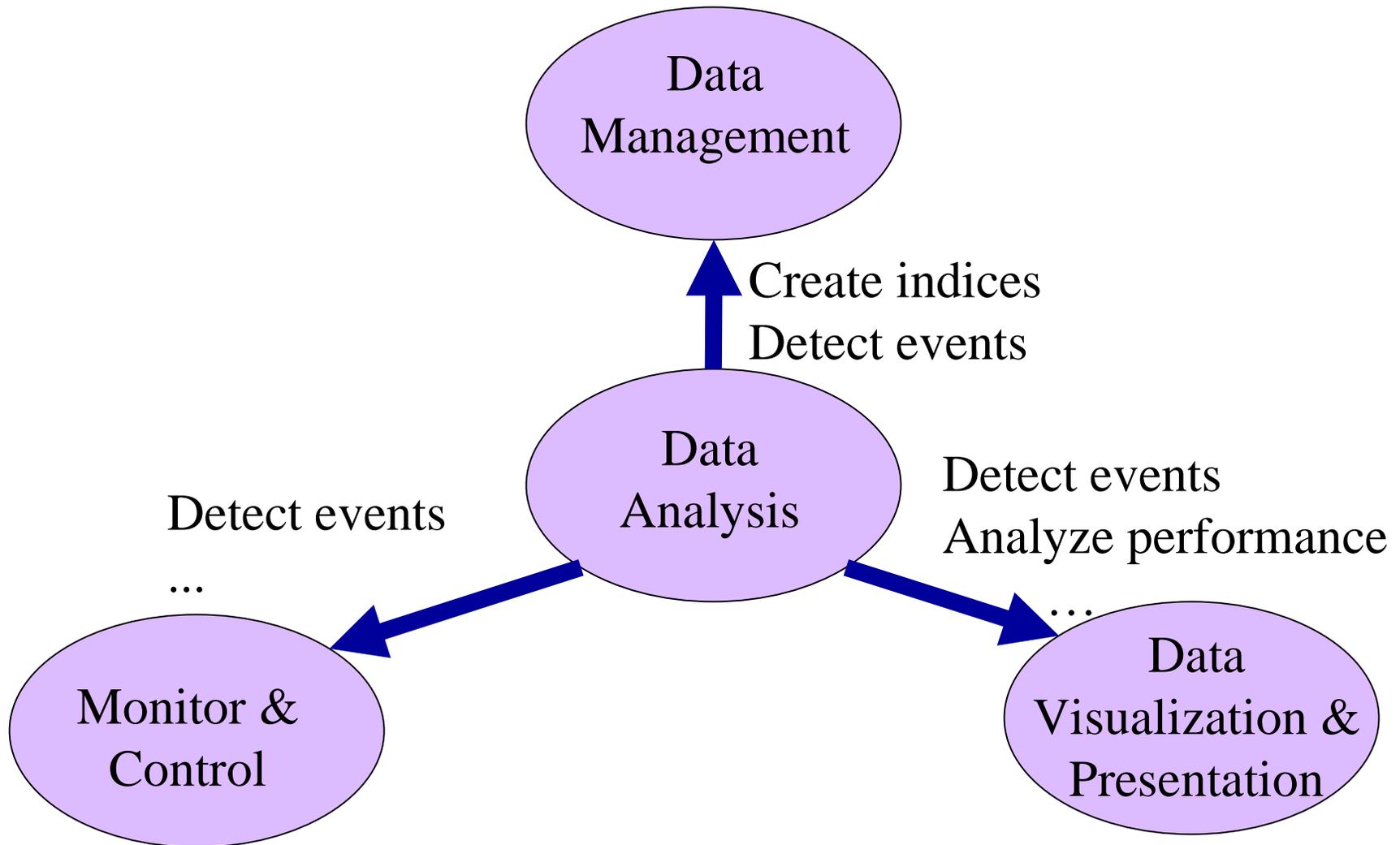
# OIS Functional Model



# Definition

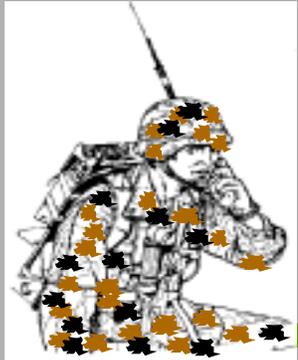
- The **Data Analysis** Function processes non-real-time exercise data for the Data Visualization and Presentation Function and processes real-time data in support of the Monitor and Control Function.
- This shall include functions to address:
  - User-requested training-performance information
  - Automatic detection of events of interest as determined by the user

# Key Activities

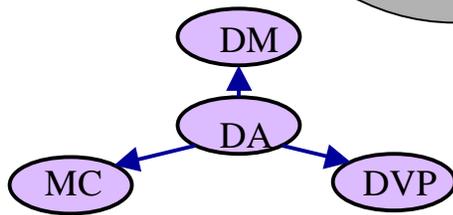


# Indices

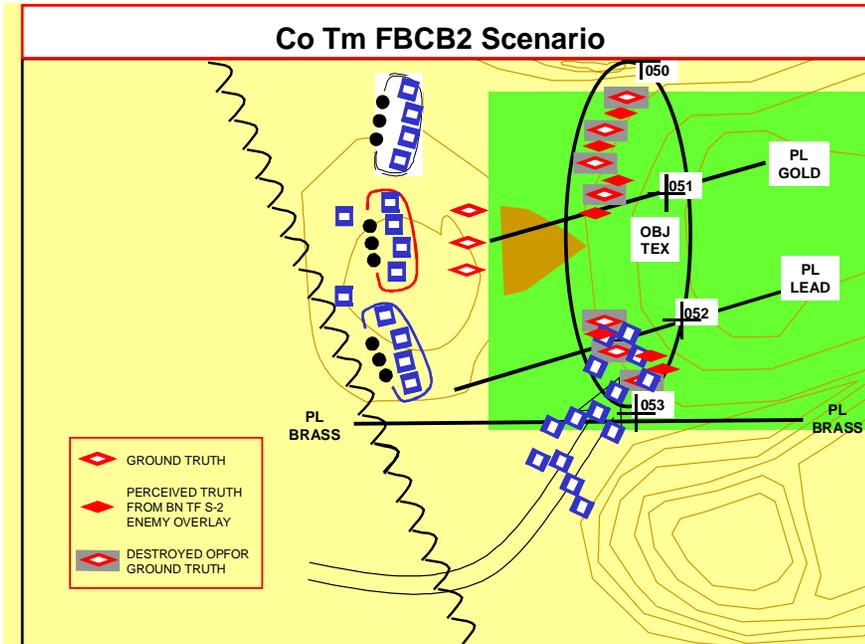
Who is talking?



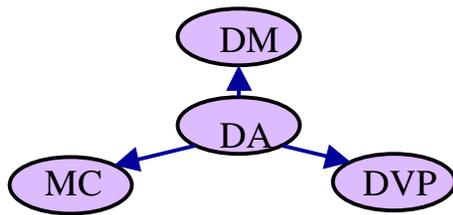
Who is in the video?



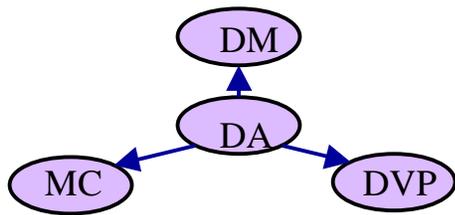
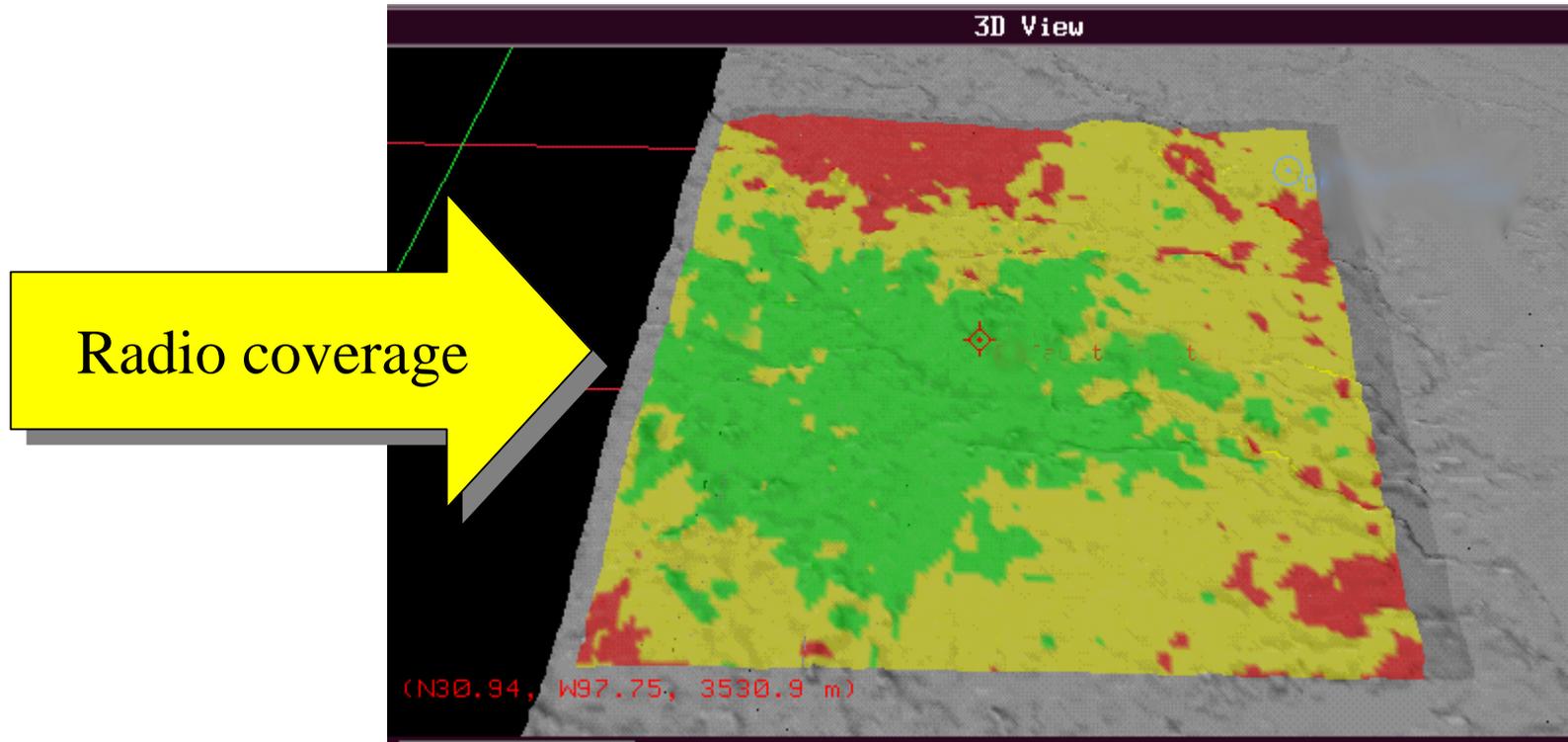
# Detect Event



Objective reached



# Analyze Performance



# Analysis categories



Maneuver

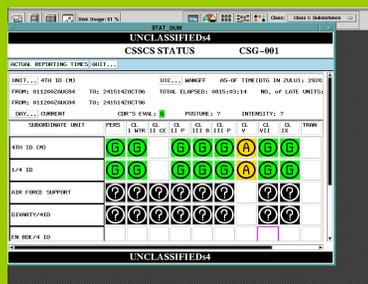
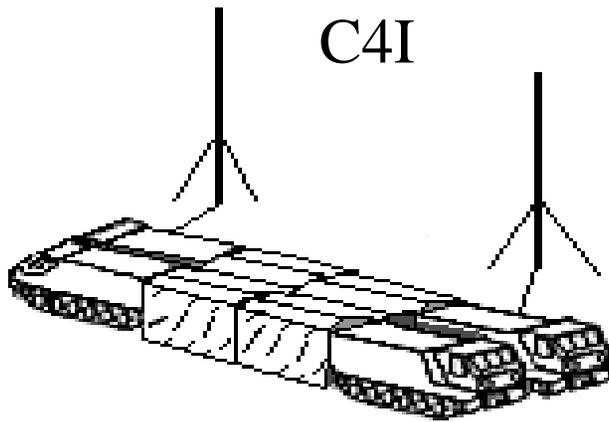


Fire Support



Force Protection

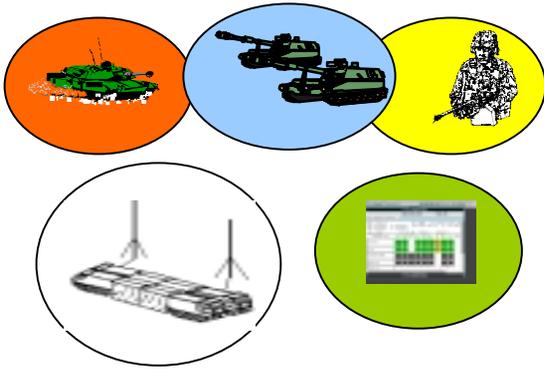
C4I



Logistics

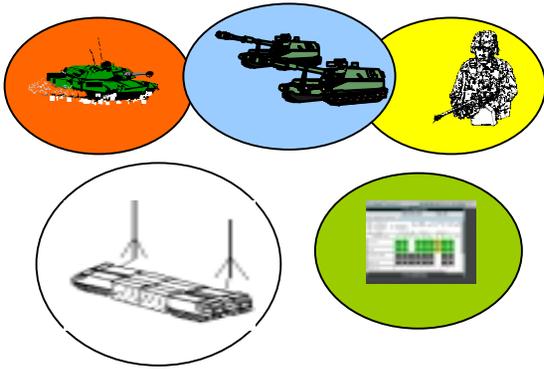
# Maneuver

- Formation movement to secure zones



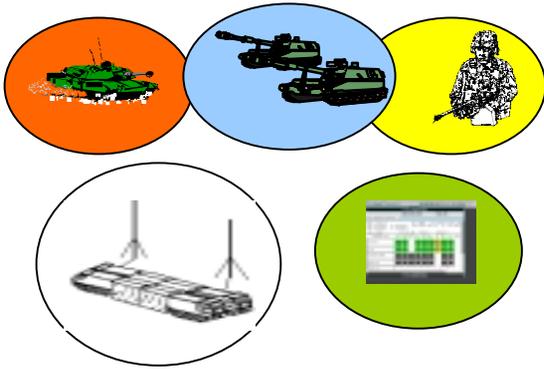
# Fire Support

- Suppression of fires



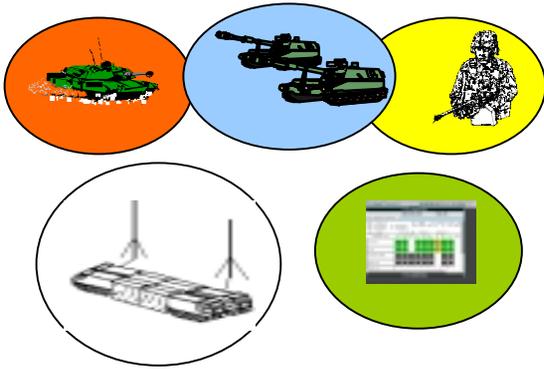
# Force Protection

- Determination of LOS



# C4I

- Change in targets



# Logistics

- Request Medical Evacuation

