

## IEWTD Modeling, Simulation & Instrumentation (M&S&I) Mission

**Primary:** To provide a realistic and robust threat-based multispectral environment for test and evaluation, experimentation, and force development.

**Secondary:** To provide *threat based* M&S&I support to the TEMO and RDA domains under the tenets of Simulation Based Acquisition (SBA); Simulation & Modeling for Acquisition, Requirements, and Training (SMART); and Simulation Test & Evaluation Process (STEP).

## Points of Contact

Uniquely qualified to  
create the *threat-  
based multispectral*  
Modeling, Simulation  
and Instrumentation  
(M&S&I) environment.

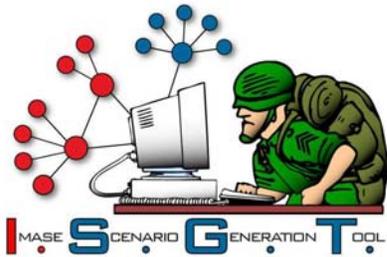


Intelligence Electronic Warfare Test  
Directorate (IEWTD)  
Fort Huachuca, AZ

Intelligence  
Modeling &  
Simulation for  
Evaluation  
**(IMASE)**

# IMASE Subcomponents

## Modeling & Simulation (scenario generation)



IOC: Jun 03, FOC: Sep 05

### Scenario Generation

- Automated Scenario Generation (expansion, vignettes)
- Foundation for **Live, Virtual, Constructive**
- 350km X 350km battlespace
- 150K entities

### Product Development

- Assists in Master Time Ordered Events List (MTOEL)

### Product Delivery

- Provides *Instrumentation Stimulation* Control

## Modeling & Simulation (simulation & scoring)



IOC: Sep 03, FOC: Mar 05

### Simulation

- Synthetic Natural Environment Supports **Constructive** Mode
- Blue RISTA Models
- Message/Report Writers

### Product Development

- High Fidelity & Robust Messaging
- **Product Delivery**

### System Under Test Scoring

- SITDEV, TGTDEV-Attrition, Sit. Awareness, Collection Mgmt, Asset Tracking & Tasking.
- Causality Resolution

## Instrumentation

**Live and Virtual**  
(RF Injection)

**Live** (over-the-air) Target Communications Emitters

Automated Intelligence / Electronic Warfare Test System (AI/EWTS)

An array of mobile communications simulators.



Tactical Radios/Systems

RF Injection (**Virtual**) (Hardware)