

# Meteorological Measuring Set-Profiler (MMS-P)

Increases the lethality of all field artillery platforms by providing modern, real-time meteorological data over an extended battlespace.

## INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



### Description & Specifications

The AN/TMQ-52 Meteorological Measuring Set-Profiler (MMS-P) uses a suite of meteorological (MET) sensors and MET data from communications satellites, along with an advanced weather model, to provide highly accurate MET data for a wide range of deep fire weapons and munitions.

Profiler measures and transmits MET conditions, such as wind speed, wind direction, temperature, pressure and humidity, rate of precipitation, visibility, cloud height, and cloud ceiling, that are required for precise targeting and terminal guidance. Profiler uses this information to build a four-dimensional MET model (height, width, depth, and time) that includes terrain effects.

By providing accurate MET messages, Profiler gives the artillery a greater probability of first-round hit with indirect fire. This new capability

increases the lethality of field artillery platforms such as the Multiple Launch Rocket System (MLRS), Paladin, and self-propelled or towed howitzers, and produces significant savings for the Army.

The system is housed in a Standard Integrated Command Post System (SICPS) rigid wall shelter and transported on an M1152 A1 High Mobility Multipurpose Wheeled Vehicle (HMMWV). The system uses common hardware, software, and operating systems. The initial configuration provides MET data throughout a 60-kilometer radius, while the follow-on variant extends coverage to 500 kilometers. For the first time, the artillery community has the capability of applying MET data along the trajectory from the firing platform to the target area.

### Program Status

- **FY06:** Full rate production and fielding to Modular Brigade Combat Teams (MBCTs)
- **FY07:** Full rate production and fielding to MBCTs

### Projected Activities

- **FY08:** Continue full rate production and fielding to MBCTs

## ACQUISITION PHASE

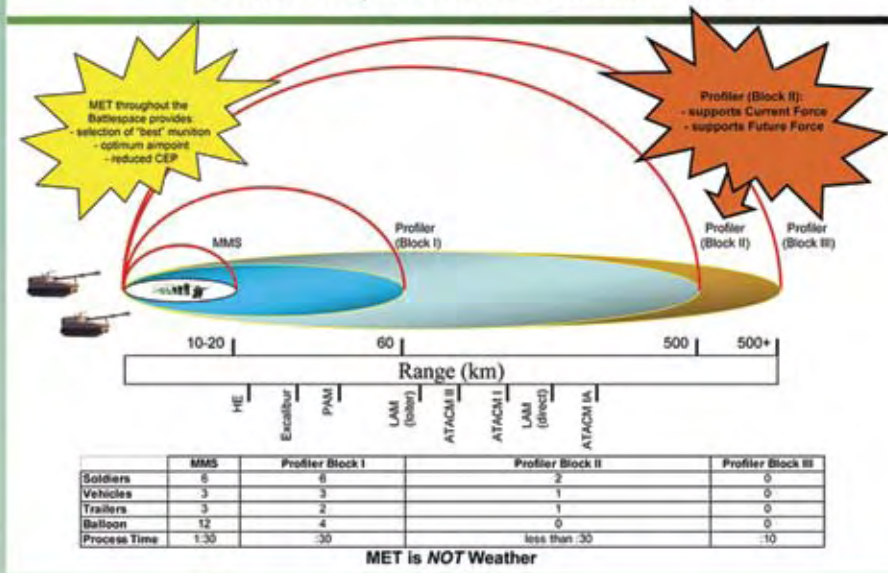
Concept & Technology Development

System Development & Demonstration

Production & Deployment

Operations & Support

## Profiler Impact on Battlefield MET



### Meteorological Measuring Set-Profiler (MMS-P)

#### FOREIGN MILITARY SALES

None

#### CONTRACTORS

Smiths Detection (Edgewood, MD)  
 Penn State University (University Park, PA)

