



# Remote Area Control Mine

# RACM

# The key to enabling RACM:



TRAP T-250

## Precision Remote's Weapons Platform

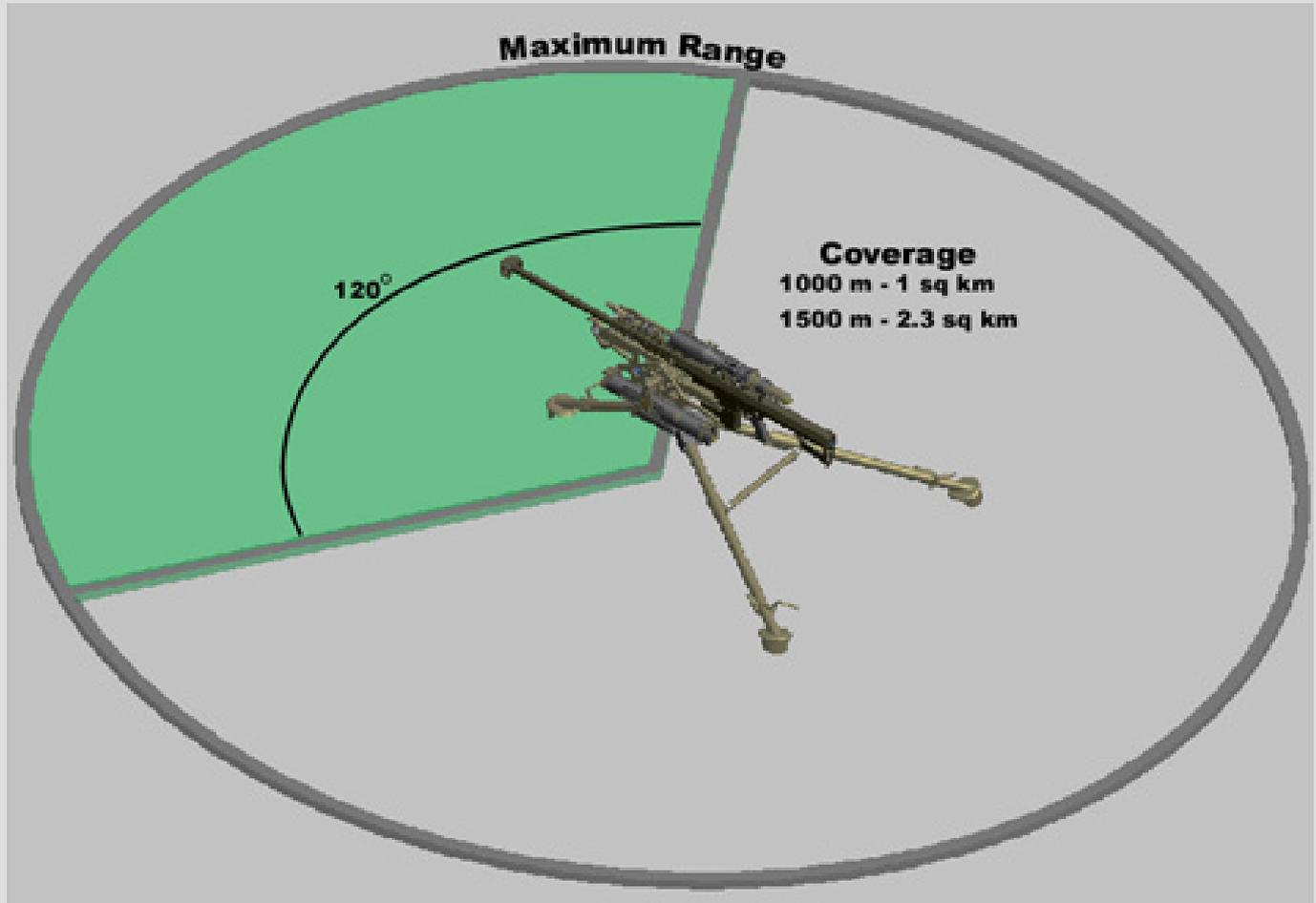


RACM / M82-A1:

Control arc - 1000 meter radius

RACM / MK-19:

Control arc - 1500 meter radius



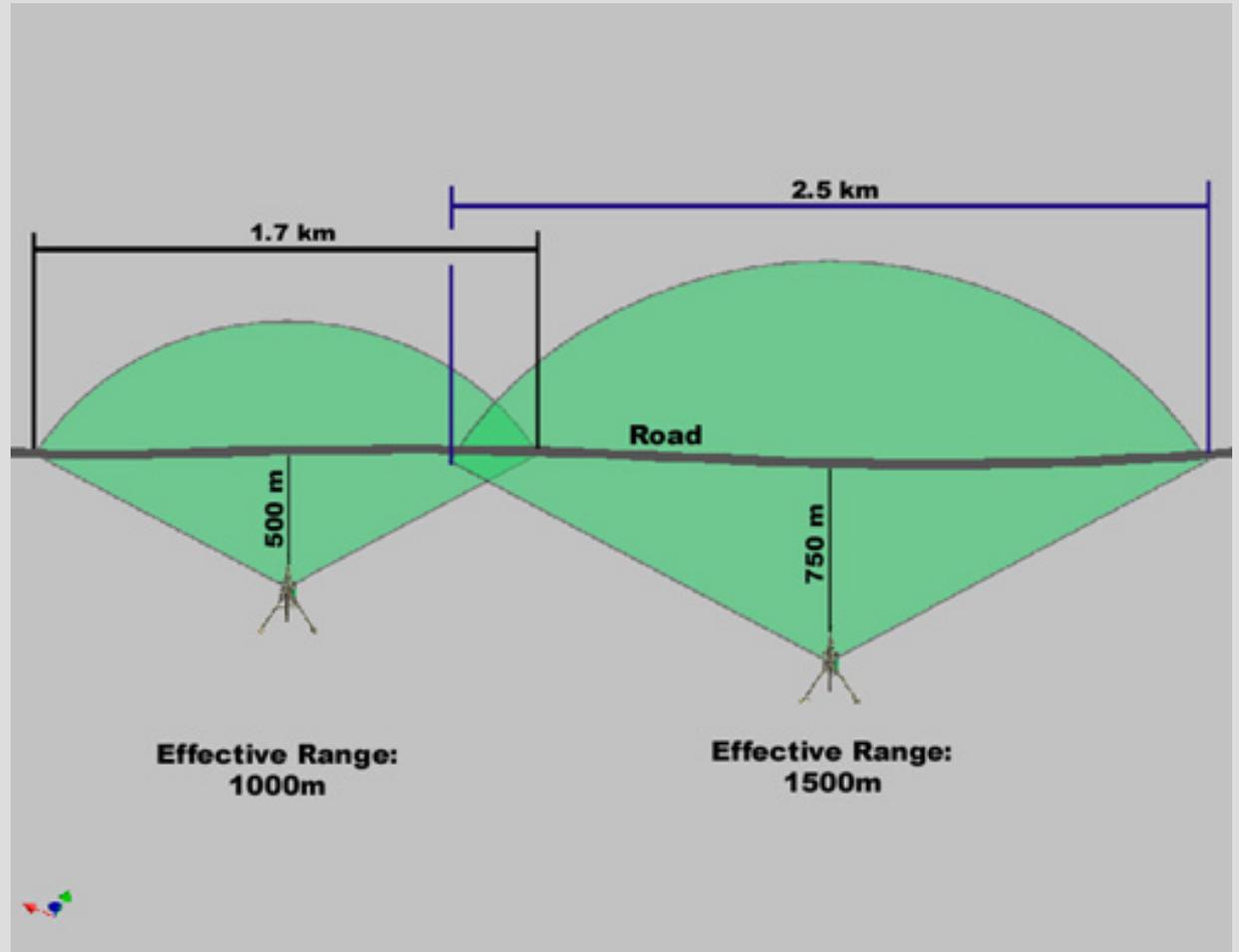
M82-A1: 0.8 square kilometers per 90 deg. coverage

MK-19: 1.8 square kilometer per 90 deg. coverage



RACM – Used to:

“Mine – Remote Ambush a Road”



RACM / M82-A1: 500m offset from road. Covers 1.7 km

RACM/MK19: 750m offset from road. Covers 2.6 km



## System Components:

- Remote Platform: TRAP / CROWS, etc.
- Weapon: M82-A1, MK-2, MK-19
- Power Supply
- Camouflage / Concealment
- Control Link
- Auto Destruct



## Control Options:

- Disposable Fiber Optic
- Line-of-sight Wireless

Orbiting Aircraft

Link via UAV

Satellite – Latency Issues



## Surveillance Options:

- Manual / Remote – Spot Check
- Use RACM with local remote sensors –  
Sound alarm
- Use with UAV



## Aim Options:

- Auto wake up aim to sensors – closed loop
- Auto aim to movement, etc.  
(solves satellite latency delay)
- Remote – Optical aim (video link)
- Aim to transmitted coordinates (LAN)



## Fire Control Options:

- Aim / Fire to sensors – closed loop or supervised oversight
- Aim Fire – Remote optical control
- Aim Fire to Coordinates – under observer control (LAN)



## Weapon Options:

Precision Aim via telescopic – .50 cal. M82-A1, MK2:

Requires remote manual aim via video link with zero latency

MK-19: Requires only coordinate for ranging fire – then observer directed precision adjustment. Requires only network data access to wireless LAN.



## Principle Advantages of RACM:

- ❑ Each Precision Directed Mine controls 1 sq. km.
- ❑ Full command oversight. Reacts in real time to changing ROE's, Optimum tactical (intelligent use)
- ❑ No local indicators area is covered by RACM
- ❑ A path can not be cleared through RACM. Note: the whole area within 1 km to each side would have to be cleared
- ❑ Near zero collateral damage
- ❑ Controls ground without physical access



## Challenges:

- Concealment
- Vulnerable to interference



RACM is a next generation solution  
attuned to the new realities