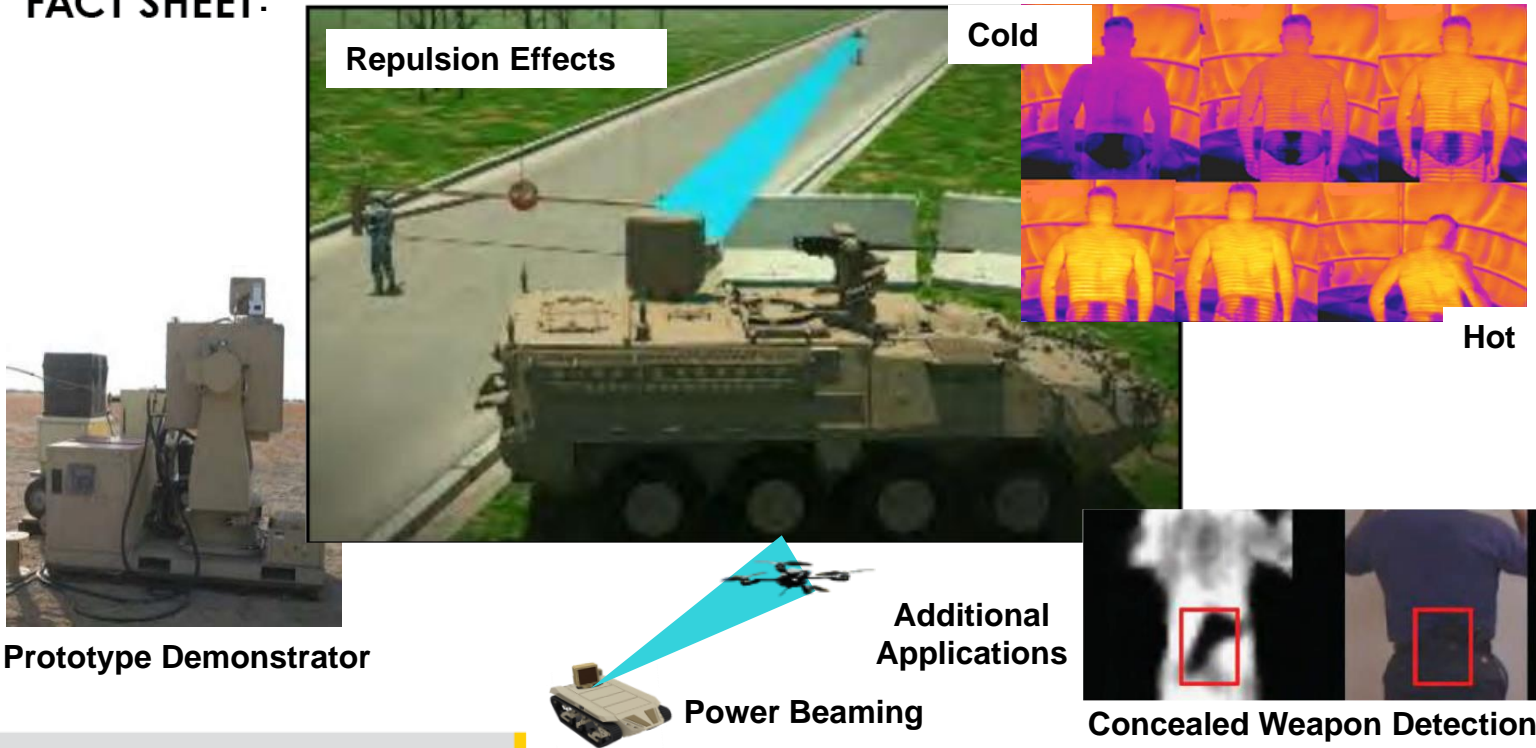


# Solid State Active Denial Technology (SS-ADT)



ON EVERY MISSION

## FACT SHEET:



### KEY FACTS:

- Intermediate Force Capability
  - Transmits a focused beam of Directed Energy (DE)
  - Causes skin heating sensation
  - Repels individuals and/or groups with minimal risk of injury
  - Power source for remote recharging (power beaming)
  - Remote personnel scanning
- Current Status & Plan**
- Relocatable fixed-site prototype demonstrator exists (repel effect)
  - Development focus:
    - Size, Weight, Power and Cost (SWAP-C) reduction
    - Improved transmitter duty cycle for deeper “magazine”, power beaming, and scanning
  - Targeting manned and unmanned vehicle implementations

### Characteristics:

- Aimable, high power millimeter wave (95 GHz)
- Energy is absorbed in top 1/64th inch of skin, producing intolerable burning sensation in seconds
- Burning effect stops when adversary leaves beam
- Operationally Relevant Ranges

### Capabilities:

- Preserve freedom of maneuver amid noncombatants & urban populations
- Establish security standoff distances, nonlethal crowd control
- UAV mid-air recharging on the move
- Stand-Off concealed weapon detection

### Stakeholders:

- Joint Intermediate Force Capabilities Office (JIFCO)
- United States Army Military Police School (USAMPS)
- Joint Program Executive Office Armaments & Ammunition (JPEO A&A)
- Defense Advanced Research Projects Agency (DARPA)

### Industry Partners:

- Raytheon Intelligence and Space, El Segundo CA
- Raytheon Missiles and Defense, Andover MA

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<https://jpeoaa.army.mil/Project-Offices/PM-CCS/>