



WARRIOR INNOVATIONS

# Call for Innovation (CFI)

## Opportunities for Member Consideration

### Objective:

The EDGE Network is requesting Member collaboration for antenna technologies and products for an immediate need aligned to the Ground Soldier Equipment (GSE) competition sponsored by Project Manager – Soldier Warrior (PM SWAR). Other potential applications include: Land Warrior, Law enforcement, Homeland security, and other Military opportunities.

### Requested Innovation:

This CFI seeks wearable antennas that yield performance comparable or superior to a whip antenna. Current antennas are often cumbersome and prone to breakage.

### Description:

The focus of this Call for Innovation (CFI) is to identify a cost-effective system suited to the following minimal capabilities and conditions:

1. Military radios currently in use by dismounted soldiers are largely UHF band, typically operating between 250 and 450 MHz. Some legacy VHF equipment is also still in use.
2. Transmit power is typically 5 watts, although some instances may be as much as 25 watts
3. Radiation Patterns & Gain comparable/superior to a whip antenna
4. The antenna should accommodate the soldier wearing a ruck over his back and ammo magazines on his front
5. It is preferable to require no wires to the helmet
6. The soldier will be wearing IOTV body armor. No snag hazards are acceptable, and breakaway connections may be required depending upon antenna placement
7. It is anticipated that antenna diversity will be needed. If so, then an active method may be needed to determine which antenna is performing best at a given instant

### Targeted Timelines:

\*Confirmation of Interest in CFI no later than 17 October 2008

\* Overview/Whitepaper on Technology Concept by 24 October (Prefer the delivery of white paper to be delivered with CFI intent on 17 October)

\* One-on-One discussions on technology and capability demo with The EDGE Network Team – 30 October

EDGE CFI Focal: Terence Winn – [Terence.winn@gdc4s.com](mailto:Terence.winn@gdc4s.com)

Responses due to: [info@EDGEwarrior.com](mailto:info@EDGEwarrior.com)