



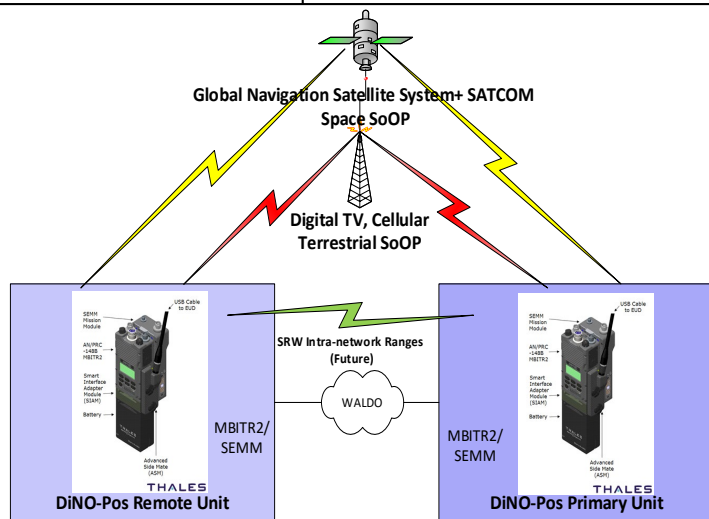
Colorado Springs, CO
<http://www.navsys.com/>
 719-481-4877

SINCE ITS FOUNDING IN
1986
168 SBIR Awards
13 Employees
Women-Owned Small Business
5 Patents from SBIR/STTR

Tactical Applications of Distributed Network Opportunistic Positioning (DiNO-Pos)

DoD users require back-up position, navigation and timing (PNT) in the event GPS is denied and continuous PNT coverage in urban environments where GPS is degraded.

NAVSYS Corporation developed DiNO-Pos solution, that can be embedded within Software Defined Radios (SDRs) for tactical applications and is implemented with an open architecture Internet of Things (IoT) protocol to facilitate use of current and future terrestrial, networks and space Signals of Opportunity (SoOP) for PNT.



IMPACT TO THE MISSION

The DiNO-Pos solution is a cost effective assured PNT in the absence of GPS. The precision timing provides Time Difference of Arrival or Time of Arrival observations for signal geolocation and Real-time spectral Situational Awareness through Software Defined Radio fast Fourier transform. Overall benefits of the solution will increase military operational effectiveness, providing higher probability to save lives.

BEYOND PHASE II

NAVSYS has received follow-on contracts with NAVAIR, Air Force, and Navy SSP. DiNO-Pos technology is targeted for insertion into WALDO compliant radios developed under DARPA's RadioMap project. NAVSYS has garnered commercial licensing with multiple industry partners for manufacturing of A-PNT and SDR devices. The DiNO-Pos technology was demonstrated at Army's PNTAX20 and US Special Operations Command Technical Experimentation (TE) 21-2 event.

Solicitation:
Robust Distributed GPS Apertures

DARPA SBIR Sponsor
SB091-012 Topic Number
Resilience Primary Innovation
Upgradability Secondary Innovation