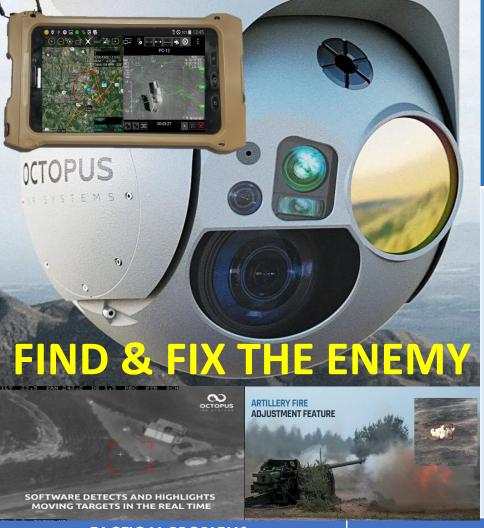
BATTLES.I.G.H.T.S. MOD

www.safer.ph

BATTLEspace Sensor Integrated Ground High-accuracy Targeting System



The BATTLESIGHTS Mod 1 is an enhanced aerial surveillance & targeting system integrating a multi-sensor EO-IR gimbal with artificial intelligence for target detection. It allows the pilot to share video, target data **Operational Picture** Common ground units using the BATTLECOMS over the 4G/LTE SATCOM/MN-MIMO BATTLENET

MULTI-SENSOR EO-IR CAMERA

- Epsilon 180, Octopus ISR [US]
- Color Camera: Full HD, 67X optical zoom
- Thermal Imager: MWIR, 640x512 15x optical zoom, 4x digital zoom
- Laser rangefinder: 15 km, 1.5 m accuracy
- Target tracking, scene steering, MTI

BATTLENET DATALINK SYSTEM

- SC 4400 radio, Silvus Technologies [US]
 - 100+ km range , up to 100+ Mbps
- · Only radio with anti-jamming feature
- Tactical Airborne 4G/LTE NioB, VNL [India]
- Up to 10 km transmission range
- · Use special SIM card for security
- Iridium Satellite Hotspot for BLOS link [US]

BATTLEPAD ELECTRONIC KNEEBOARD

- Ruggedized Samsung tablet [S. Korea]
- ATAK Situational Awareness app [US]
- Samsung Knox, US DoD-certified security
- 3D terrain navigation and COP sharing
- Live video over map, Blue Force Tracking
- 9-line Artillery/Mortar Spotting, Close Air Support, CASEVAC reporting template
- Augmented reality (AR) Vuzix Smart Glass

TACTICAL PROBLEMS.

AFP OPERATIONAL CHALLENGES

Inaccurate targeting and fratricide during Close Air Support and Artillery Forward Observation operations

Unfamiliarity of terrain & outdated military topographic maps [1953 s.]

Unsynchronized joint forces combat and combined arms maneuvers

Limited range, loss or lack of joint communication interconnectivity Voice only radio, no real-time Common Operational

allies in joint and combined operations

Picture ICOP1 and live video sharing Interoperability issues with AFP ground units, US Forces &

Expensive cost of equipment and slow defense acquisition processes

SAFER TECHNOLOGY SOLUTIONS

Precise location of friendly forces, & enemy targets, Kestrel Land Moving Target Indicator detect 2-pixel moving targets

3D mission planning & aerial navigation on detailed satellite imagery & maps, live video over map for rapid orientation

Maneuver dominance with live blue force tracking, sensor & Common Operational Picture sharing using ATAK app

Communicate anytime, anywhere with tactical SATCOM, 4G/LTE & MN-MIMO BATTLENET radio

Secure live video feed, teleconference & dynamic mission overlay update as the situation changes

BATTLENET Collaboration using multi-comms and **BATTLECOMS** mobile and HQ nodes

Affordable industry-standard components made in the US, EU and allied countries with flexible acquisition scheme



Partners:



BATTLECOMS, AIR



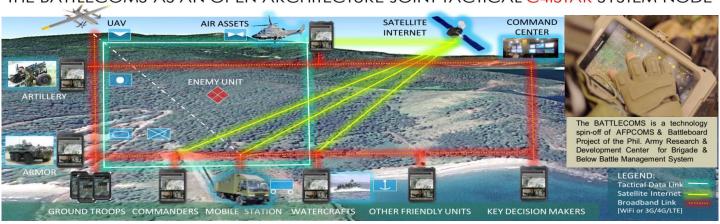
<u>BATTLE</u>space <u>Collaboration & Operations Management System – Air Node</u>



The **BATTLECOMS** Air is a component module of the BATTLECOMS Joint Battle Management System [BMS] & Joint Tactical C4ISTAR solution customized for use of AFP pilots with connectivity to BATTLECOMS Mobile and HQ nodes for Close Air Support, CASEVAC, Air Recon & other air-ground operation support. The system is designed for Philippine operational setting and will be proposed to be interoperable with the AFPCOMS of the AFP Command Center & other Operation Centers. It features the battle-tested ATAK [Android Tactical Awareness Kit] developed by the US Air Force Research Lab & DARPA for Persistent Close Air Support [PCAS]. ATAK is the standard Situational Awareness app for US Forces & allied countries for Common Operational Picture [COP] sharing. The system was successfully tested in PAF SIMEX in Crowe Valley & 5th Fighter Wing

The ruggedized BATTLETAB Electronic Kneeboard comes with an eye or helmet-mounted BATTLESIGHT Smart Glass with Augmented Reality & mirrors the tablet screen using voice control for hands-free operation. Multimode link is through Streamcaster radios and unlimited range with voice & data connectivity via Iridium satellite internet on demand. The onboard tactical private 4G/LTE from VNL will allow affordable video and mission data downlink to ground troops equipped with BATTLEPHONES with ATAK app and secure SIM cards.

THE BATTLECOMS AS AN OPEN ARCHITECTURE JOINT TACTICAL CAISTAR SYSTEM NODE





Email: sales@ safer.ph

Website: www.safer.ph