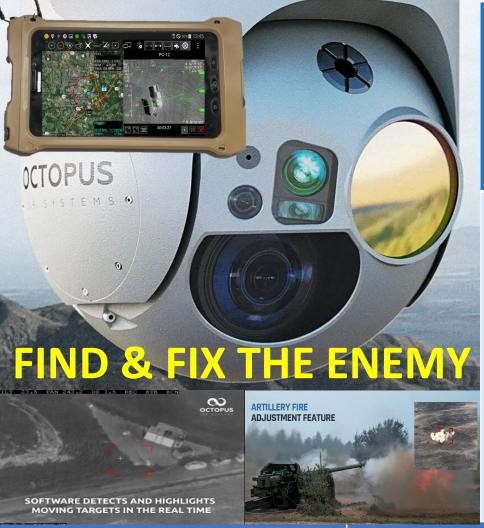
# BATTLESIGHTS. MOD 1

SAFER PH www.safer.ph

BATTLE space 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 Tracking9-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Unfamiliarity of terrain & outdated military topographic maps [1953 s.]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

allies in joint and combined operations

Voice only radio, no real-time Common Operational

Picture [COP] and live video sharing

Interoperability issues with AFP ground units, US Forces &

Expensive cost of equipment and slow defense acquisition processes

SOLVED.

## 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

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

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



SAFER PH INNOVATIONS, INC.

Partners:



## BATTLECOMS, AIR



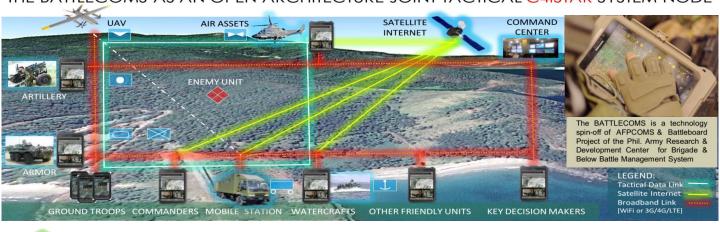
**BATTLE**space **C**ollaboration & **O**perations **M**anagement **S**ystem – **Air** Node



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 & 5<sup>th</sup> 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