

UNITED STATES Southern Command

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S SOUTHERN CT

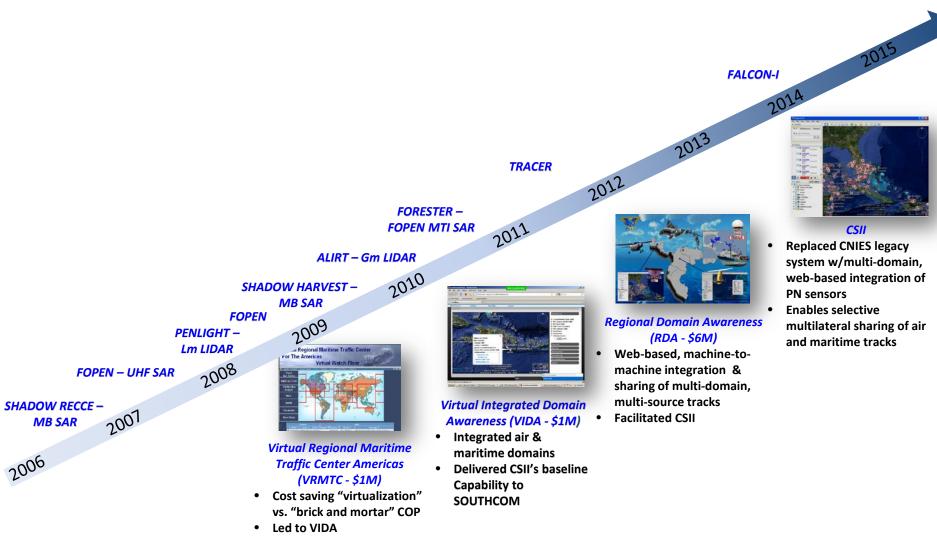
Technology & Innovation 25 Mar 2016

Juan A. Hurtado

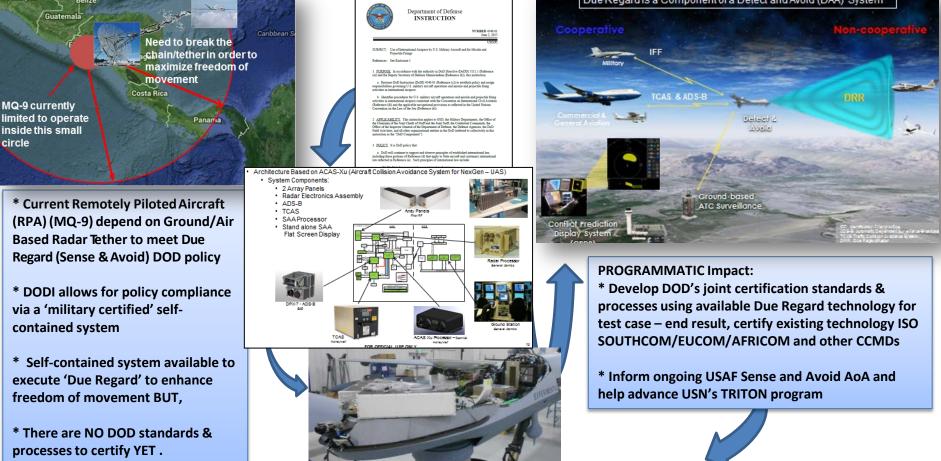
NITED STATES SOUTHERN COMMAND



Where We've Been Examples of capabilities *delivered*







OPERATIONAL IMPACT: BREAKS the RPA ground/air based radar tether in order to maximize the RPA's sensor collection and exploit its long endurance and range

UNCLASSIFIED



Providing Counter IED capability for theater Joint Improvised-threat Defeat Agency (JIDA)

Problem

Solutions

Impact

- IEDs, a global problem > 30,000 incidents per year > 66,000 casualties per year
- COL avg. > 2,200 IED incidents per year, 4th in the world
- IEDs prevalent throughout SOUTHCOM



Colombia's IEDs: - Low or no metal - Victim operated - Chemical initiated - HME main charge

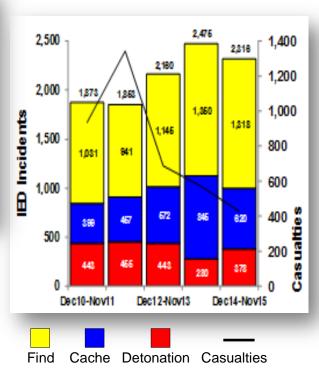


Getting Left of Boom



- Full-time C-IED presence in Bogota (OSC), SC HQs and SOCSO
- C-IED Strategy
- 3-Year US-COL Work Plan
- Key Leader Engagements
- Data Analysis/Sharing
- SMEEs

- IED incidents down 8%
- Casualties down 29%



Going Forward:

- Continued Support to C-IED
- Close Coordination with Demining
- DDR



Advancing space resilience



Legacy Satellite ~ \$600M

Problem:

- Expensive
- **Overtasked**
- Limited COCOM Access

Disadvantaged User

~ \$150K

Nano Satellites

Solution:

- Space resiliency
 - Low cost
 - Spacecraft \checkmark
 - Launch Vehicle \checkmark
- Ground Force Tactical Control

3 nanosatellites in Low Earth Orbit (LEO)





MUOS \$600M





\$36M







<u>SNaP</u> \$550K Comm Relay 12 pounds 10 x 10 x 30 cm

Comm Relay 1,500 pounds

ORS-1 \$198M Imagery 1,000 pounds



Developing domain awareness

Problem



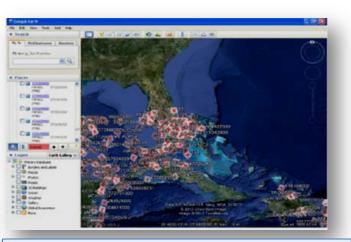


Solutions





Impact



Efforts supported the Collaborative Sensor Information Integration (CSII). Replaced CNIES legacy system with a multi-domain, webbased integration of PN sensors, enabling selective multilateral sharing of air and maritime tracks

Next - the Caribbean Collaborative Environment (CCE) initiative, a \$9M congressional plus-up to address security concerns in the Caribbean



Leading the way DoD Technology in Global Peacekeeping

Problem

"Peace operations...remain one of the world's most important tools to address armed conflict."¹



1. President Obama remarks at UN peacekeeping summit 2. White House Memo, 28 Sep 15: pledges U.S. support to UN Peace Operations

Solutions

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The Secretariat of the United Nations presents its compliments to the Permanent Mission of United States of America to the United Nations and has the honour to refer to the United Nations Multidimensional Integrated Stabilization Mission in the Cernel African Receditio (UNIVID/CA).

The Security Council established MINUSCA through its resolution 2149 (2016) of 10 April 2014 and requested the Securaty-General to subsame IIINUCA in the new mission as of the dark of the advejoin of that resolution. It further requested the Securitary-General to ensure a semileus transition free: IIINUCA to MINUSCA.

The Severaria thereby wides to replote possibility of the Government of Ubles States of Annetics to provide segues in a brackey solution for one of the three Sever Endoquarters, in Bours, Philor or Kage Bandson, to include a 100 near camp for the Sector Endoquarter Seuff. Camp of an infrarity Bandlour of 359 personnel, to be completed by 15 September 2014 and a camp for an Engineering Company of 200 personnel, to be completed by 15 August 2014, in coder to ensure a seamlers ramilion and successful startup via Letter of Assist (LOA).

Should the Government of Unites Status of America he willing to consider providing adversariational support to MINUSCA, islandy send a confirmation to the Lingbin Support Division of the Departments of Field Support (LSDDPS). Additional details and technical information may be obtained through discussion with LSDDPS. The Secturation of the Unites Status and through discussion with LSDDPS. The Secturation of the Unites Status of America to the United Nation the automation of histophot conduction.

12 June 2014

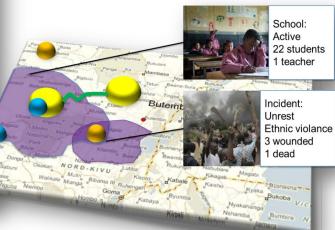


DoD Enabling Technologies for UN Peacekeeping Operations

August 2015

Impact





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Facilitating Information Sharing

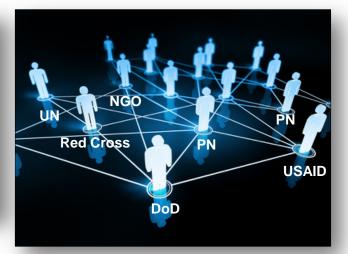
Problem

Solutions

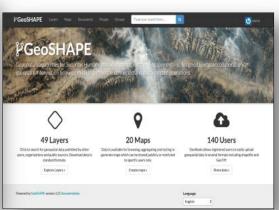
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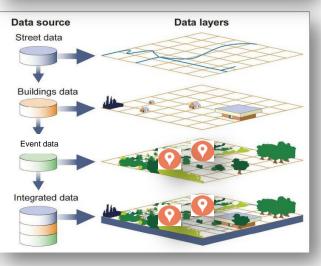












Investing in the future

Building Partnerships







Developing Partners







Locally



Export to theater



Impact



- **Community of** Interest
- Informs "way ahead"
- FY16 efforts:
- Water Security \checkmark Workshops in Brazil and Peru
- Technology pilots to \checkmark reduce global environmental footprint of PKO missions



