UNITED STATES SOUTHERN COMMAND

Science, Technology and Experimentation Perspective on USSOUTHCOM Capability Needs
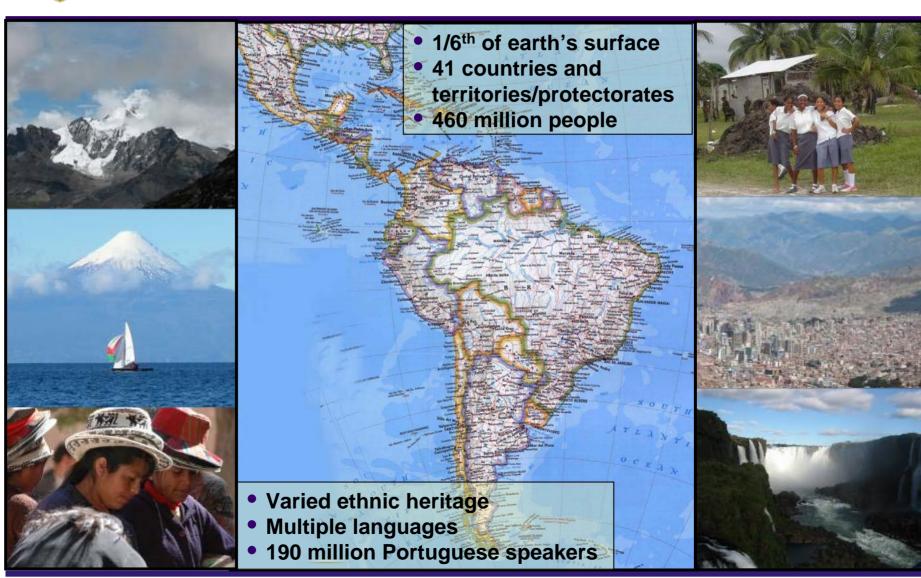
10th Annual Science & Engineering Technology Conf / DoD Tech Exposition

April 23, 2009

THIS BRIEFING IS UNCLASSIFIED

- **1/6th of earth's surface**
- **41 countries and territories/protectorates**
- **460 million people**

- **Varied ethnic heritage**
- **Multiple languages**
- **190 million Portuguese speakers**

Challenges

Security

- Crime/urban gangs
- Illicit trafficking
- Transnational terrorism
- Forgery/money laundering
- Mass migration
- Narco-terrorism
- Natural disasters

Warfighter

- Maritime Domain Awareness
- Counter Narcotics
- Information Collaboration and Integration
- Obscured Target Detection
- Cooperative Security Engagement
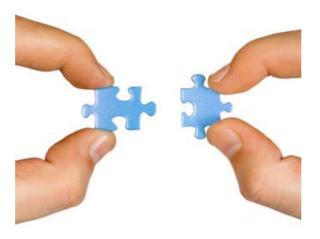
Transnational & Adaptive Threats

Regional challenges require cooperative solutions

Technology

Experimentation

International R&D

Security, Stability,
Prosperity
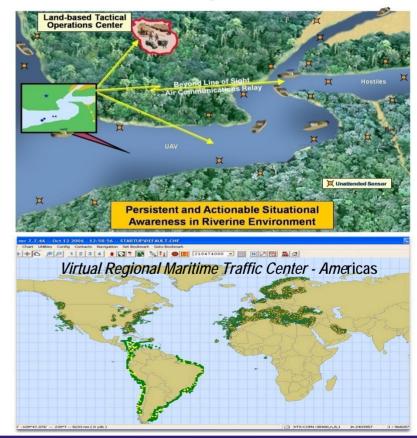.... for the Americas

MDA / Counter Narcotics

Warfighter Challenge

- **River-based criminal/terrorist activities represent a significant Operational and MDA challenge to Combatant Commanders**

- **Rivers are a primary lines of communication - drug trafficking & kidnapping generate tremendous revenues for terrorists**
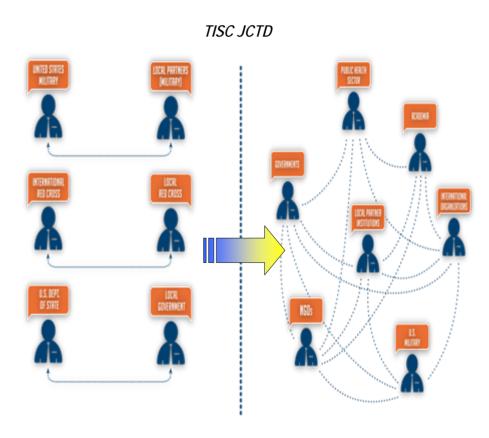

Current ST&E Initiatives

RIO JCTD

Persistent and Actionable Situational Awareness in Riverine Environment

Virtual Regional Maritime Traffic Center - Americas

Information Collaboration / Integration

Warfighter Challenge

Current ST&E Initiatives

- Today's environment requires effective communication, coordination, and collaboration among militaries, interagency communities, non-governmental organizations, private organizations, and international organizations involved in stability operations, complex humanitarian emergencies, and reconstruction activities
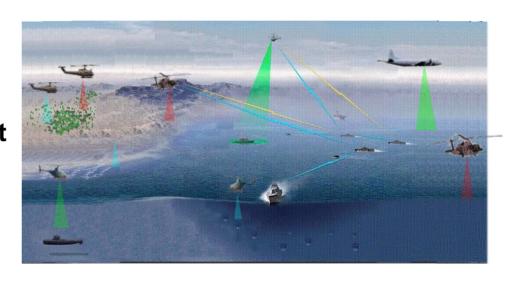

TISC JCTD

Obscured Target Detection

Warfighter Challenge

- **Full spectrum capability to detect adversary use of jungle, weather and camouflage for concealment and evasion**

Current ST&E Initiatives

- Forester / A-160: UAV / GMTI
- Shadow Harvest JCTD: C-130-based / Multi-INT
- JMMES JCTD: Common Multi-Mission Sensor
- MASTIF JCTD: Data Fusion Engine

Cooperative Security Engagement
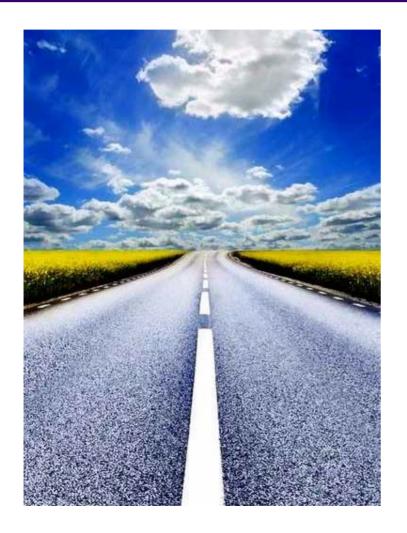
Warfighter Challenge

- Planning for conflict prevention and security cooperation is fragmented
- Assessment/Evaluation often an afterthought and largely unresourced
- Host nation assets often overlooked; survey/info focused mainly on "deficiencies"
- Visibility of employable USG and Partner assets, capabilities, projects and programs obscured
- Inputs/Outputs not always linked to Goals/Impacts
- Policy and technical barriers discourage routine information sharing

Current ST&E Initiatives

Cooperative Security JCTD and Experiment

Potential Way Ahead

- Investigate where applicable

- Integrate

- Prioritize

- Assess, Plan, Execute, Evaluate

- Persistence

Fulfilling the Promise Together

Partnership....

Security

Stability

Partnerships

....for the Americas

Discussion