Science, Technology and Experimentation
Perspective on
USSOUTHCOM Capability Needs
Our Focus:
A Diverse Region

- 1/6th of earth’s surface
- 41 countries and territories/protectorates
- 460 million people
- Varied ethnic heritage
- Multiple languages
- 190 million Portuguese speakers
Transnational & Adaptive Threats

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

Regional challenges require cooperative solutions
Addressing WFCs through ST&E

Security, Stability, Prosperity... for the Americas

Technology

Experimentation

International R&D
**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**

- Virtual Regional Maritime Traffic Center - Americas

- Persistent and Actionable Situational Awareness in Riverine Environment

- RIO JCTD
Information Collaboration / Integration

Warfighter Challenge

• 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.

Current ST&E Initiatives

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**
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