



Irregular Warfare Analysis Workshop
WG 4: Counterinsurgency
Military Operations Research Society
Working Group Out Brief

3-6 February 09

**Mr. Steve Stephens, LTC Tedd Dugone, Mr. Fred Cameron,
Capt Arun Shankar**

Agenda



- **Purpose/Charges**
- **Participants**
- **Presentations**
- **Past**
- **Present**
- **Future**

Working Group 4 Purpose/Charges



Purpose: Explore Various Analytical Tools And Methods For Use In Planning And Conducting Counterinsurgency

1. What analytical efforts have been done in support of COIN activities in the past and what was the result? What works and doesn't work?
2. What is the present state of the art in analytical efforts for COIN and how are they progressing? What are we doing right now?
3. What are the gaps in analytical efforts and analytical planning that we need to address in the future? Where do we need to go?

Working Group 4 Participants



Mr.	Jaime Alfaro	USJFCOM J-7
COL	Jeffrey Appleget	U.S. Army TRADOC Analysis Center
Maj	John Bancroft	MCCDC OAD
Ms	Justine Blaho	Center for Army Analysis
Maj	Dave Blankenship	USSOCOM, J10
Mr	Frederick Cameron	OR Advisor to Director General Land Capability Development (CA)
Mr.	David Collins	Lockheed Martin
LTC	Tedd Dugone	Joint Staff (J8/WAD)
Mr.	Pat Eberhart	USSOCOM, J9
Ms	Nancy Evans	USJFCOM, Joint Irregular Warfare Center
LTC	Paul Ewing	Naval Postgraduate School
Mr.	Doug Garbark	Lockheed Martin
LTC	Thomas Glover	U.S. Army TRADOC Analysis Center
Mr.	Michael Hall	Lockheed Martin
Mr.	Anthony Hermes	Institute for Defense Analysis

Working Group 4 Participants



Mr.	Dwayne Hill	US Army Test and Evaluation Command
Dr.	Seth Howell	JIEDDO
Mr.	Bill Inserra	MCCDC OAD
Capt.	Chris Jeffreys	HQ USAF A9A
Ms	Lisa Kaiser	Center for Army Analysis
Mr.	Gregory Keethler	Lockheed Martin Missiles and Fire Control
MAJ	Marvin King	Center for Army Analysis
Ms	Regina Kistner	Army Material Systems Analysis Activity
Mr.	Michael Mazzocco	NSWCDD
Lt Col	Kirsten Messer	OSD PA&E SAC
Mr.	Joseph Mlakar	MCCDC OAD
Mr.	George Monroe	Air Force QDR Office
Mr.	Joseph Nowak	U.S. Army TRADOC Analysis Center
Mr.	Nicholas Pioch	BAE Systems
Mr.	Morgan Polk	SOCCENT/CEG

Working Group 4 Participants



LTC	RussellSchott	TRADOC Analysis Center, WSMR
Capt	Arun Shankar	MCCDC OAD
Ms	Brittlea Sheldon	Northrop Grumman
Mr.	Steve Shields	Lockheed Martin
Dr.	Adam Shilling	Center for Army Analysis
Mr.	Bruce Simpson	SRA Int'l
Mr.	Thomas Spoon	Center for Army Analysis
Mr.	Cortez Stephens	MCCDC OAD
Ms	Pattie Vedder	U.S. Army TRADOC Analysis Center
MAJ	Brittian Walker	USSOCOM, J9
COL	Scott Waterman	USJFCOM JIWC
Mr.	Robert Wiebe	Boeing Research and Technology

Working Group 4 Presentations - Wednesday



<u>Wednesday, 4 February</u>	
<u>C-IED Support to Canadian Forces</u>	<u>Dr. Philip Eles, Department of National Defence (Canada)</u>
<u>Crime Mapping and Analysis Techniques</u>	<u>Mr. Joseph Mlakar, USMC OAD</u>
<u>Operational COIN Databases</u>	<u>Maj. Marvin King, USA, CAA</u>
<u>Analysis of Counter-Insurgency Database</u>	<u>Ms Justine Blaho, CAA</u>
<u>Oz Wargame Integration Toolkit</u>	<u>Dr. Deborah Duong, OSD PA&E SAC</u>
<u>Canadian OR Applications</u>	<u>Mr. Fred Cameron, Operational Research, Kingston, Ontario</u>

Working Group 4 Presentations - Thursday



Thursday, 5 February

Africa IW Corps/Div Scenario

LTC Tom Glover, TRAC
Leavenworth

Irregular Warfare Analytic Baseline

LtCol Kirsten Messer, USAF, OSD
PA&E SAC

Irregular Warfare Model Evaluation

Mr. William Inserra, USMC OAD

Peace Support Operations Model

Maj. George Holland, USAF, J8
WAD

Past



- **Interdisciplinary teams**
- **Past combat models based on physics**

Past



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- Past combat models based on physics
- **Deployed analysts**
 - Vietnam
 - Bosnia/Kosovo
 - OIF/OEF

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 - Vietnam
 - Bosnia/Kosovo
 - OIF/OEF
- Interagency cooperation with DoD
- Historical databases and historical research

Present – COIN Execution



- **COIN analytical techniques applicable to general purpose forces (GPF) are equally applicable to special operations forces (SOF)**
 - **IED Analysis, Polling, Social Network Analysis, ISR Network Analysis, Assessment Analysis, Trend Analysis, Criminal Activity Profiling, RIO Analysis, Etc.**
- **Strengths and weaknesses of COIN analytical support for GPF are the same for SOF**
 - **Assessing influence on population**
- **Problem Area – at times data obtained from host nation untrained collectors**

Present – COIN Planning



- **Human-in-the-Loop (HITL) computer-supported wargaming**
 - Adequate way to provide insights now
 - Federations of specialized simulations
 - Wargame Integration toolkits
 - Must use caution; not mature enough for some contexts

- **Models and Simulation**
 - Warm and fuzzy – not!
 - Emerging but still in its infancy

Present – COIN Planning (Contd.)



- **Substantial efforts ongoing**
 - M&S as well as Non M&S
 - Data is problematic across the board

- **Context specificity**
 - Strategic, operational, tactical
 - Difficult to separate analytical implications between levels of war (“Strategic Corporal”)
 - Realize need for a conceptual framework for understanding and integrating causality across all levels of analysis
 - Iterative process/dialogue

Future - COIN Execution



- **Recommend USSOCOM develop a structure to provide analytical support to COIN forces**
 - **Established during planning – every operation is different**
 - **Diverse operating environments – varying footprints**
 - **Reachback analytical support**
 - **Support through GPF - when GPF are available**
- **Recommend SOF training/education/familiarization with benefits of analytical support**

Future – COIN Planning



- **Recommend USSOCOM consider interdisciplinary teams**
 - **Centralized**
 - **Decentralized**
 - **Hybrid**

Future – COIN Planning



- Recommend USSOCOM consider interdisciplinary teams
 - Centralized
 - Decentralized
 - Hybrid
- **Recommend USSOCOM look into a conceptual analytical framework to provide analytical support to USSOCOM COIN planning**
 - **Mr. Miller's Trinity (crime, migration, extremism)**
 - Left of boom
 - Forecast next hot spot
 - Correlation, not causality

Future – COIN Planning (Contd.)



- **Scenario development for COIN is different than scenario development for conventional warfare**
 - Whole of government
 - Relevant populations are the focus
 - Legitimacy is the center of gravity
 - Include progress/success metrics
 - Must be specified in the campaign design
 - 800lb guerilla – data!

Future - DOD Analytical Community



- **Interdisciplinary expertise is critical**
 - **Doing it now but could do it much better**
 - **M&S as well as Non-M&S, including wargaming**
 - **Organizational, Disciplinary, Commercial/Industry, Geographic**
 - **Required expertise depends on the situation**
 - **Early and throughout the process**
 - **Conflict and disagreement among experts**
 - **Cooperative decision making instead of competing decision making**

Future - DOD Analytical Community (Contd.)



- **COIN M&S Validation**
 - There are different levels of validation – “Fit for purpose”
 - Buffalo Chip Principle
 - Stradivarius Syndrome
 - Human Behaviors (Dr. Wong)
 - Data
 - Taxonomy of data elements
 - Not just COIN issue
 - Whole of government issue
 - Joint Data Support (JDS) – central repository

Foot-Stompers



- **Human involvement is critical**
- **Broaden horizons beyond the physical science paradigms to include the social sciences**