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Irregular Warfare II (IW) Analysis Workshop

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Title of Presentation:
IRREGULAR WARFARE ANALYSIS AT THE TACTICAL LEVEL

This presentation is believed to be: SECRET CONFIDENTIAL UNCLASSIFIED and will be presented in:
 Plenary Special Session List all WG(s) #: WG 2, WG 5 (tentative: WG 3, WG 4)

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Irregular Warfare: Building a Counterinsurgency Based Tactical-level Analytic Capability



MORS Irregular Warfare Analysis Workshop

4-6 February 2009

THE OVERALL CLASSIFICATION OF THIS PRESENTATION IS UNCLASSIFIED

Purpose and Agenda

Purpose: To provide an overview of TRADOC Analysis Center (TRAC) efforts to create a tactical-level, Irregular Warfare (IW) analytic capability to effectively inform Soldier decision issues regarding organizing, equipping, or employing ground forces in an IW environment.

Agenda:

- Background.
- IW Analytic Capability Development Strategy.
- Mission.
- Task – Event(s) – Outcomes (TEOs).
- TEO Execution.
- TEO Execution Illustrative Example.
- Multidisciplinary Adjudication to Address Decision Issues.
- Way Ahead.

Background

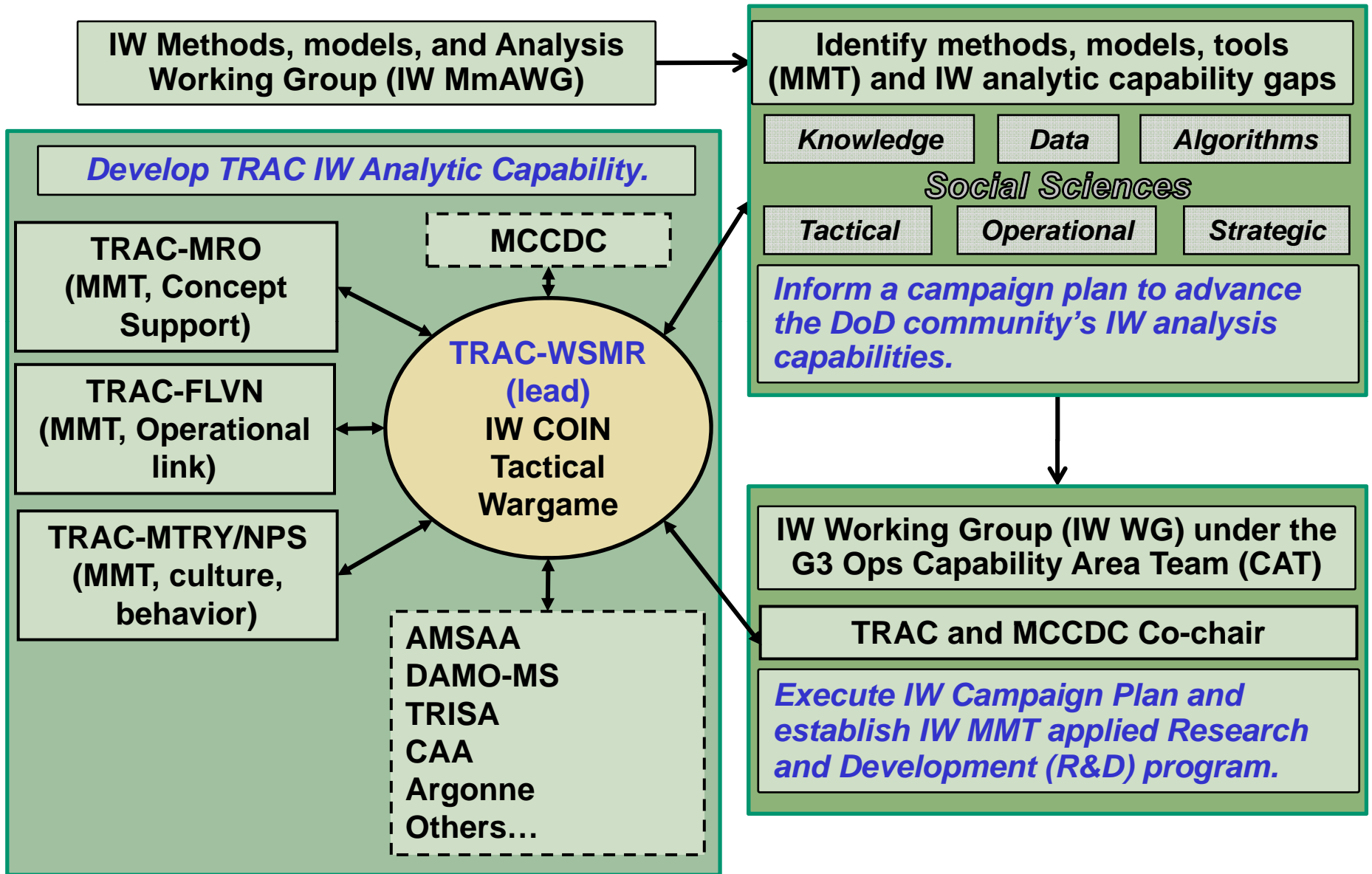
Need analytic capabilities to inform DOD decisions about change and investments based on the conduct of current and future Joint operations in an IW environment.

This is a hard problem...the analytic community has been here before...

“...requirements exist for methods or analytical models that are suitable or adequate for gaining greater understanding of insurgency/counterinsurgency-type situations, for measuring progress; for detecting and assessing causal relationships; and for evaluating alternative allocations of effort, tactics, and strategies.”

Lawrence J. Dondero, Head, Military Gaming Department
“Measurement of Pacification Progress in Vietnam (U)”
Research Analysis Corporation, [September 1968](#)

IW Analytic Capability Development Strategy



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Mission

Develop an analytic capability to support leader decisions focused on organizing, equipping, and employing ground forces in an IW environment.

“Insurgencies are local. They vary greatly in time and space.”
(FM 3-24, Counterinsurgency, Dec 2006)

“While it is true that every AO is different, the overarching COIN principles will apply anywhere. You just have to figure out the finer tactical means of employing them...”
(“The Counterinsurgency Cliff Notes,” Craig Coppock, 2008)

The focus of TRAC’s IW representation is the Soldier at the tactical-level.

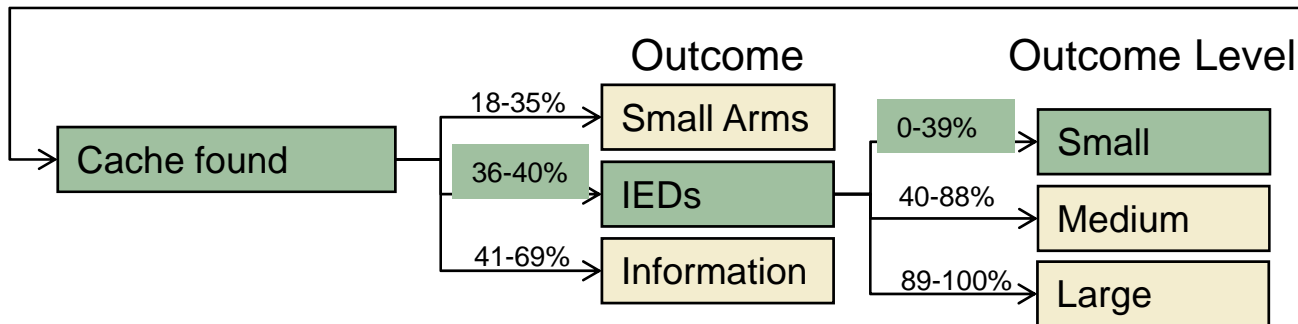
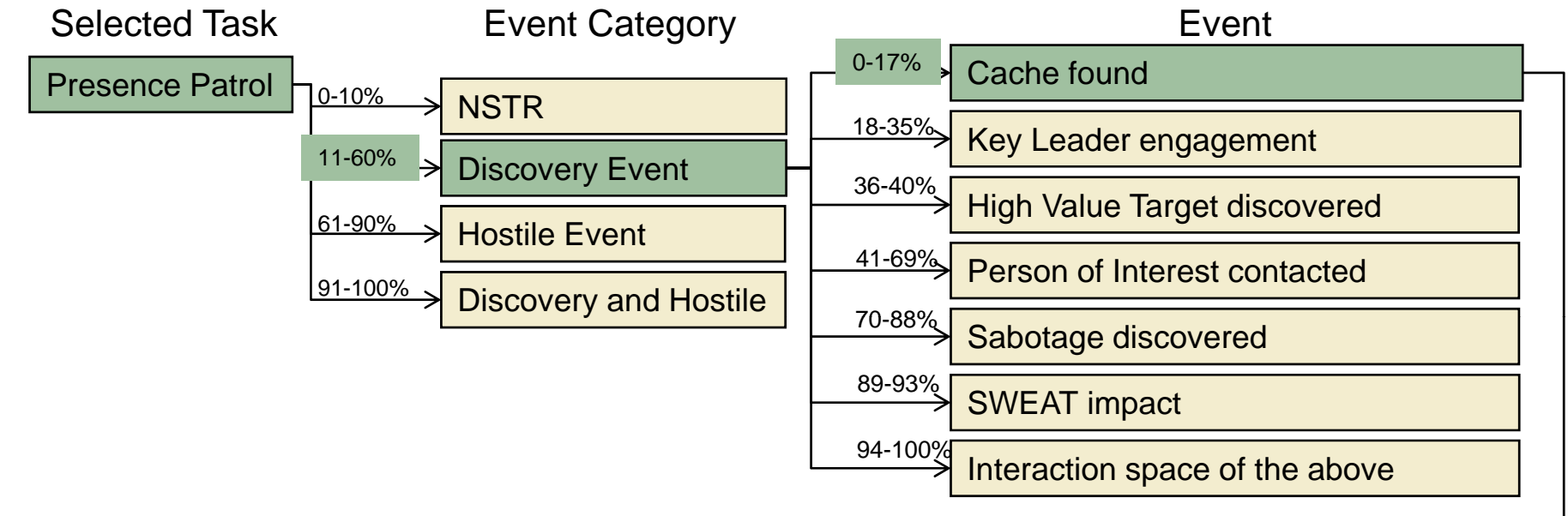
Task – Event(s) – Outcomes (TEOs)

- Friendly tactical-level tasks (Company (CO) and below), such as “Conduct a Security Patrol,” establish the framework of the IW COIN Tactical Wargame. A task is executed
 - repetitively within an area of operations (AO) over time,
 - with an intended purpose in mind,
 - and by an appropriate force size (Soldier to CO) to accomplish the purpose.
- Tactical commanders use LOEs to develop tactical tasks, allocate resources, and *assess task effectiveness towards endstates*.
- A TEO is a Friendly task executed and adjudicated with other player tasks.
 - Multiple events and outcomes may occur—both good and bad.
 - Well-defined metrics associated with outcomes can help commanders...
“understand the links between tasks, endstate, and lines of effort.” (FM 3-24.2)
- *How do tactical tasks and associated events and outcomes influence the population along LOEs?* There is much R&D to be done here!

Current TEO research and adjudication process is based on empirical data associated with an Infantry Rifle Company in Operation Iraqi Freedom (OIF).

TEO Execution Illustrative Example (1 of 2)

Task: Conduct dismounted platoon presence patrol in sector A.

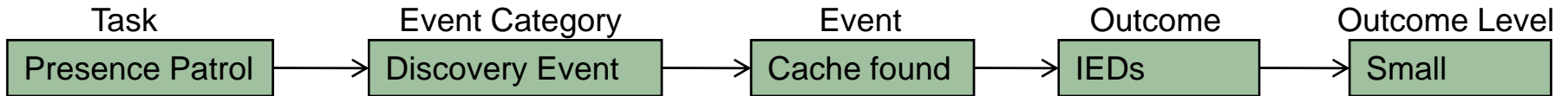


Random numbers are drawn four times to determine the event category, event, outcome, and outcome level using the probabilities computed from empirical data.

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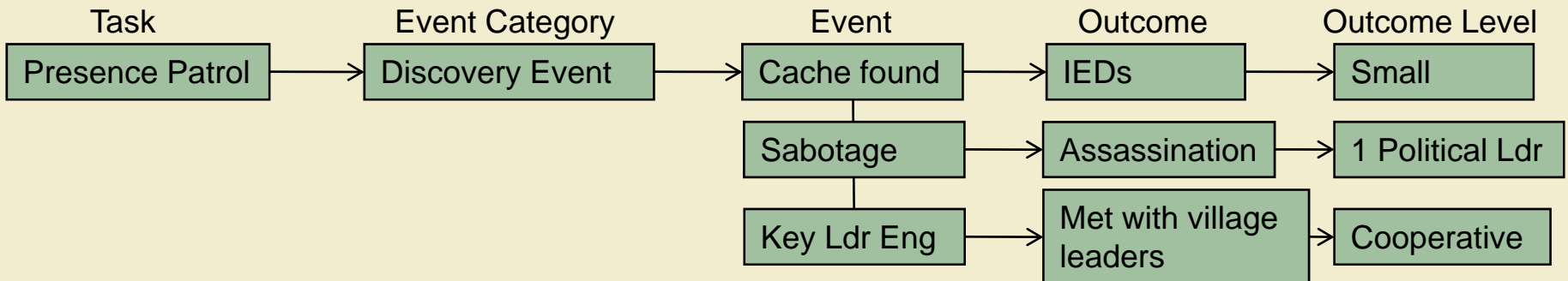
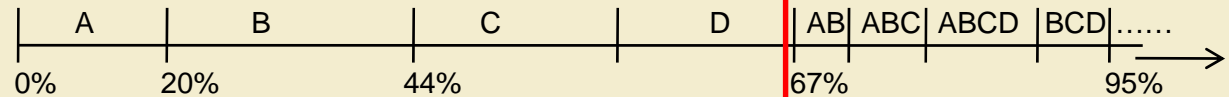
TEO Execution Illustrative Example (2 of 2)

Task: Conduct dismounted platoon presence patrol in sector A.



In this example TEO iteration, it was determined that the dismounted platoon presence patrol discovered a small IED Cache.

Based on the probabilities of interaction and the random numbers selected, it is possible to have numerous events and outcomes generated from a single task.

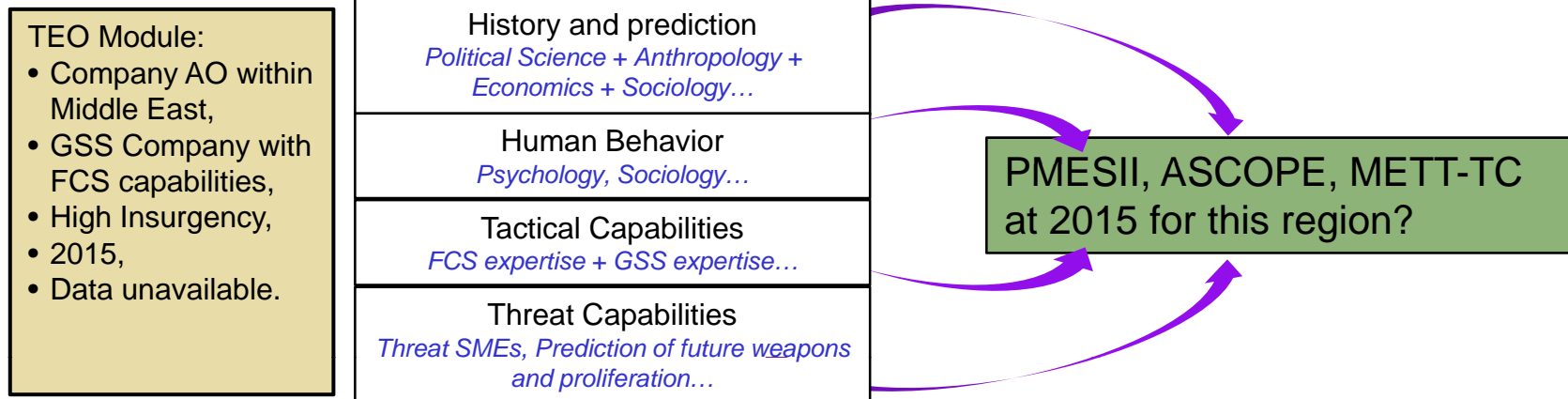


Metrics link Outcomes to LOE status and higher-level PMESII states. *Understanding how tactical tasks influence the local population along LOEs is essential.*

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Multidisciplinary Adjudication to Address Decision Issues

Considerations to Adjudicate Outcome Tables



Notional example: What is the probability of an IED attack with Coalition Force casualties from a presence patrol of a GSS equipped dismounted squad in ___ in 2015?

Example questions requiring the appropriate expertise (and luck) to develop adjudicated outcome tables:

- What is the PMESII condition in the local area and how does that interpret to local cooperation with insurgents to place the IED? *This will impact the frequency of IEDs and therefore the probability of occurrence amongst other outcomes.*
- How is the threat organized and what is their capability to successfully build and emplace an IED? *This will impact the frequency and effectiveness of an IED outcome.*
- What additional protection will GSS, FCS equipped Soldiers in 2015 have available? *This impacts Soldier survivability against such attacks and therefore the extent of casualties.*
- Will improved doctrine be utilized to combat against IED threat in an urban environment? *This will impact Soldier tasks and overall outcome from the event.*
- What are the ASCOPE conditions in the area in 2015? *This impacts the areas, structures, and other civil considerations that create the environment permitting or preventing such an attack.*

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Way Ahead

Develop Initial Tactical Level IW Analytic Capability



Establish Generalized *Protocol* for Building Out the IW Capability



Link Tactical Level Assessments to Localized and Higher PMESII States



Rapidly Expand Out Analytic Capability

- Establish *proof of principle* Company-level IW COIN Tactical Wargame.
- Use development of TEO adjudication processes to *focus gap mitigation, R&D efforts, and required resources.*
- Engage the analytic and social science communities to close the knowledge, data, and algorithm gaps → *understand how tactical actions influence the population.*
- Establish an *adaptable and enduring* IW analytic capability.

Provide operationally relevant, credible analysis to better inform Soldier decision issues focused on organizing, equipping and employing ground forces in an IW environment.

Questions



COIN LOEs (FM 3-24.2)

							End State
Conduct Information Tasks	Tell story to US public	Marginalize insurgent influence	Isolate pop from insurgent forces	Provide context for HN govt. opns	Reinforce the legitimacy of the HN govt.	Create divisions between insurgent leadership and armed insurgents	Increased support to the HN Govt.
Establish Civil Security (Combat Operations)	Restore and maintain order	Conduct OPs to halt violence	Establish border security	Provide public safety support	Provide civil defense support	Perform HN police training and support	Safe, secure, and stable environment established
Establish Civil Control (Police-Type Operations)	Provide rule of law support	Conduct populace and resource control	Disarm, demobilize and reintegrate ex-combatants	Resettle displaced civilians	Provide populace with humane care and treatment	Support HN Police, Fire, Rescue and Penal Units	Rule of law established
Support HN Security Forces	ID indigenous security forces	Conduct training of security forces	Integrate HN security forces into COIN OPs	Transition to HN control of security forces	Transition to HN lead in COIN OPs	Transition to HN only security forces	Self sufficient national security forces established
Restore Essential Services	Restore sewage services	Restore water services	Restore electrical power and services	Restore academic institutions	Restore trash services	Restore medical services	Essential services restored
Support to Governance	Provide public administration support	Identify and recruit leaders	Facilitate local government	Provide cultural affairs support	Support and secure elections	Support HN reforms	Functioning legitimate government that does not require external support
Support to Economic and Infrastructure Development	Provide public works support	Provide commerce support	Provide civilian supply support	Provide civilian health support	Provide agriculture support	Coordinate civic assistance programs	Economic foundation with sufficient infrastructure established

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Terminology

- **Irregular Warfare (IW)**; a violent struggle among state and non-state actors for legitimacy and influence over the relevant populations. *People, not platforms and advanced technology, will be the key to IW success.* (FM 3-0 Operations, IW JOC 1.0)
- **PMESII**; the operational variables of **Political, Military, Economic, Social, Infrastructure, and Information**. Using these variables as components, a vector is constructed with which the operational environment is represented and evaluated. (FM 3-0 Operations)
- **METT-TC**; the mission variables of **Mission, Enemy, Terrain and Weather, Troops and Support Available, Time Available and Civil Considerations**. (FM 3-0 Operations)
- **Civil considerations**; reflect how the man-made infrastructure, civilian institutions, and attitudes and activities of the civilian leaders, populations, and organizations within an area of operations influence the conduct of military operations. (FM 3-24.2 Tactics in COIN)
- **ASCOPE**; Commanders and staffs analyze civil considerations in terms of the categories expressed in the memory aid ASCOPE: **Area, Structure, Capabilities, Organization, People and Events**. (FM 3-24.2 Tactics in COIN)
- **Lines of Effort (LOE)**; a line of effort links multiple tasks and missions using the logic of purpose—cause and effect—to focus efforts toward establishing operational and strategic conditions. (FM 3-0 Operations, FM 3-24.2 Tactics in COIN)
- **SWEAT-MSO**; **Sewage, Water, Electricity, Academics, Trash, Medical, Safety, and Other Considerations**; a memory aid used to focus the LOE Restore Essential Services. (FM 3-07 Stability Operations)
- **TEO**; **Task, Event(s), Outcomes**; the narrative of specific actions, the adjudication of the events resulting from those actions, and their consequences within the local context.

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