

Developing Geospatial Intelligence Stewardship for Multinational Operations

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GEOINT Stewardship

- “The practice and responsibility of assuring decision makers that geospatial intelligence resources are properly utilized and developed.”
- I propose
 - That a higher level of cognitive understanding for GEOINT comprehension and application is required for multinational operations
 - That we must understand and incorporate open environment GEOINT solutions to Ends, Means, and Ways
 - That GEOINT stewardship is the glue that ties a geospatial intelligence cell to the decision maker (or commander)

Multinational Operations

- US more recently fights as a coalition of willing, not unilaterally
- How do we provide understanding, visualization and describing?
- ISO and Interoperability often does not apply!

US Joint Force Command, Joint
Publication 2-03 (update)

National Geospatial-Intelligence
Agency (NGA), etc.

North Atlantic Treaty Organization

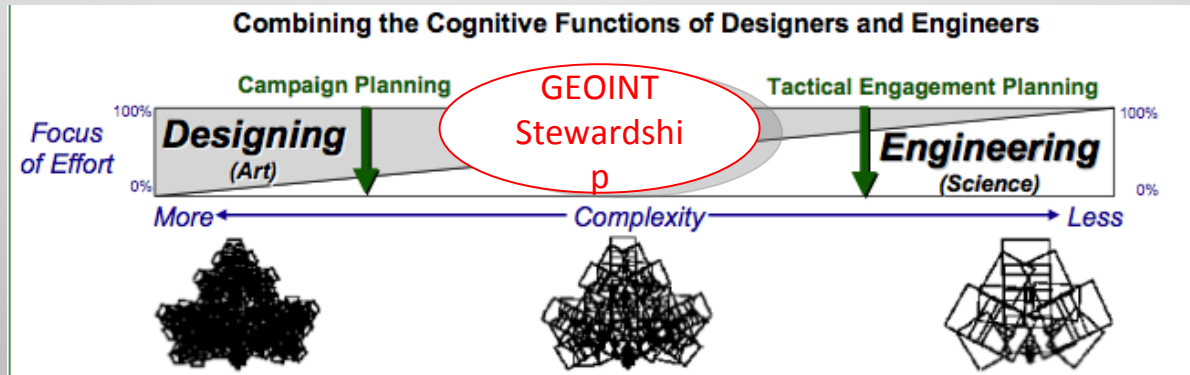
Five-Eye Operations & Information
Sharing

United Nations
Humanitarian/Disaster
Operations

TYPES OF MILITARY OPERATIONS

- | | |
|----------------------------|------------------------------------------|
| ● Major Operations | ● Support to Insurgency |
| ● Homeland Defense | ● Counterinsurgency Operations |
| ● Civil Support | ● Combating Terrorism |
| ● Strikes | ● Noncombatant Evacuation Operations |
| ● Raids | ● Recovery Operations |
| ● Show of Force | ● Consequence Management |
| ● Enforcement of Sanctions | ● Foreign Humanitarian Assistance |
| ● Protection of Shipping | ● Nation Assistance |
| ● Freedom of Navigation | ● Arms Control and Disarmament |
| ● Peace Operations | ● Routine, Recurring Military Activities |

Military Planning



Designing

- Problem-framing
- Start with a blank sheet
- Questions the limits of existing knowledge
- Questions assumptions and method
- Conceptual
- Develops understanding
- Paradigm setting
- Complements planning, preparation, and assessment
- Output: a broad approach to problem solving (a design)

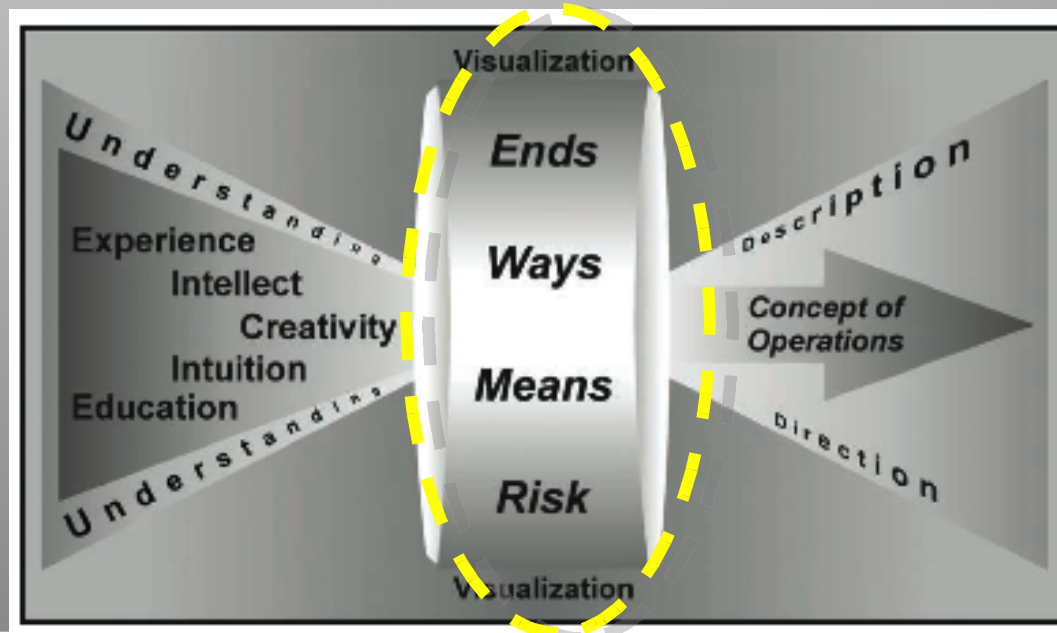
Understand
Visualize
Describe
Direct
Assess

Engineering

- Problem-solving
- Start with a coherent design or plan
- Functions within the existing paradigm
- Follows established procedure
- Physical and detailed
- Develops products
- Paradigm accepting
- Patterns and templates activity
- Output: detailed plan for action (blueprints)

Center of Gravity

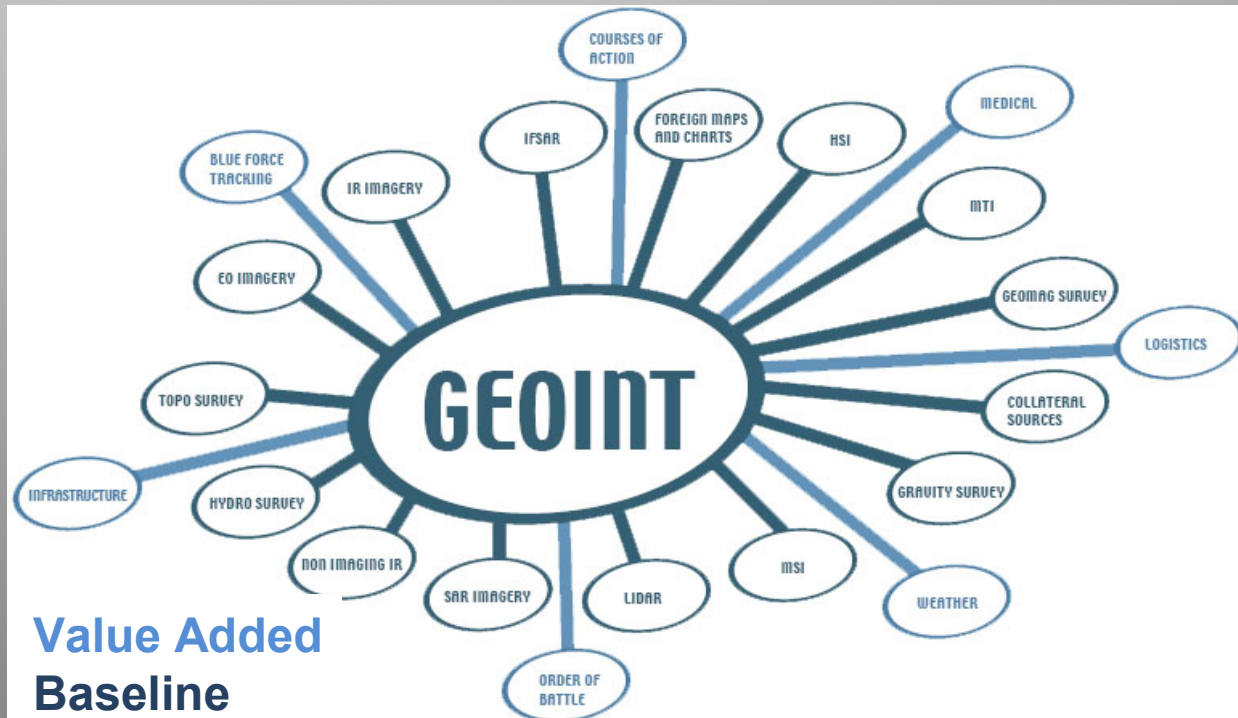
- Tied to a decision maker
- GEOINT Cell owns the decision maker's understanding and visualization of the operational environment
- Assumption: Commander's will direct GEOINT Cell to provide situational awareness and visualization
- Limitation: Intelligence/Operations will compete for analysis & production time
- How do we assess?
 - Fit for purpose
 - Fitness



GEOINT Cell

- US Joint Forces Command- doctrinally sound, but limited multinational applications
- US Army- **new efforts; doctrinally immature; initially tied to systems?**
- Afghanistan
- Provides
 - Collection strategy, 1st Phase Analysis, Directs reachback analysis
 - Improved Situational Awareness/Understanding
 - Greater Common Operational Picture

Don't forget about:
Point Mensuration
Targeting
Full Motion Video
PI
ONIR
AGI Analysis



Survey

- A detailed survey to a broad multinational audience consisting of Joint, Interagency, Intergovernmental, Multinational, Industry and Academia (JIIM-IA) will shed light on *past and current multinational GEOINT challenges*.
- Initial comments
 - Commonwealth nations work well together, US Army GEOINT support is often confusing or US chain of command unwilling to integrate other nations GEOINT
 - Able to integrate US source, and instruct Cdr on GEOINT ops
 - US tactical commanders do not understand GEOINT capabilities
 - Some US forces do not exploit Commonwealth GEOINT; they often lack new Area of Operations understanding and visualization
 - Balance of phased analysis forward, versus reachback analysis

Synthesis of “Fitness”

- Mission Specific Data Sets (MSDS)
 - Ends (Objectives), Ways (Purpose) and Means (Resources)
 - Foundation, Ad Hoc & Standing Updates
- Common Operational Picture: you can’t symbolize/generalize everything to scale
- Situational Awareness & Commander’s Circulation
- Intelligence, Surveillance & Reconnaissance (ISR)
 - Ends, Ways, Means versus Full Motion Video Addition; Predator “Porn”
 - Collection Strategy “Fitness”
 - NIIRS across the Electro-Magnetic Spectrum; one truly international classification
- GEOINT Analysis Phases (1-4): Immediate response versus standing Request For Information (RFIs) [Simple, to advanced GEOINT/attack the terrorist networks]

Recommendations

- US Joint Forces Command (JFCOM) & US Army must continue to develop GEOINT Cells and career set
 - Recent Iraq and Afghanistan operations have produced some of the most aggressive GEOINT operators and analysts
 - GEOINT stewards must be multi-disciplined
 - Steeped in years of operational and educational experience
- GEOINT stewards must get their feet dirty, their appetite hungry, and operationally integrate educational reachback
- GEOINT operators should be developed by the entire JIIM-IA