**Data to Understanding: Enterprise Arrangements to Optimize Intelligence Production**

**Context:** The collection of data to be processed, exploited and disseminated by the very large Army intelligence enterprise represents a significant organizational challenge. Although reorganizations of individuals units to multi-star command levels occur, little research is done to assess the impact of these reorganizations and even less consideration is given individual level impact. Specifically, how the new organizational arrangement will change the individuals micro-decision making process and its overall affect on producing intelligence.

**Purpose:**  An enterprise “laboratory” to explore different organizational arrangements based on intelligence and operational requirements.

To explore:

* What arrangements are best able to deal with different time scaled requirements?
* Is there a critical point of interaction across the enterprise which produces shared understanding?

**Model Design**:

Insert flow chart: requestor agent linked to enterprise(where and how linked is the COG) ----cycle begins: data collected (collection agents making decision on collection)----- data exploited (agents linked with collection and ??? (\*\*COG for model- how do exploiters get requirements\*\*)------ disseminated (\*\*understood by requestor based on complexity and amount of interaction\*\*)

* Can use talkspan to determine understanding between requestor and expoiter
* “energy” (shared understanding) should increase or decrease based on # of interactions and time between interactions - need reference and formula
* Recommend we scale down to GEOINT path through enterprise

Agents descprition:

Requestor: Quality of request based on experience and interaction with enterprise- recommend 3 kinds- immediate, deep, partial; key feature is “happiness with intelligence”

Collector: ?

Exploiter: understanding of request, level of effort to exploitation, randomized quality of work, feedback by boss (mix determine overall quality of product)

**Model Assessment**:

* Big metric: Quality of intelligence (determined by requestor agents aunderstanding) for different requirements
* Supporting metrics- where in structure breakdowns occur to reduce overall quality.