



# Mission Threads In The DI2E

19<sup>th</sup> Annual NDIA Systems Engineering Conference

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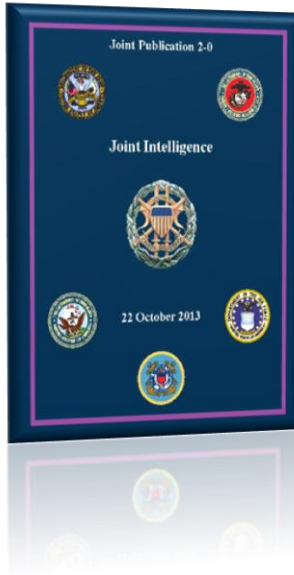
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A few Questions

A poster presentation



## *Have you heard of “Mission Threads”?*

*Joint Intelligence Preparation of the Operational Environment  
Indications and Warning  
ISR Mission Management  
Intelligence Support to Targeting  
Battle Damage Assessment*

## *Why do you suppose Mission Threads are useful?*

***Do you have an actionable architecture? Why, or why not?***

***Is your project using Mission Threads to validate interfaces?***

**Mission Thread:** A description of doctrinal concepts and activities.

**Mission Pattern:** A representative ISR Analytical Technique, depicted with supporting Events and Actions, in support of a typical C2 request.

# A DI2E Enterprise Scenario

**Context** – Typhoon then terrorists!

**Problem** – AI Foxxn actors are stealing humanitarian supplies from convoys

- NGA**, Provide **Regional Maps** for **Country Studies**
- DCGS-Navy**, Provide **Common Intel Picture (CIP)**
- DCGS- Marine Corps**, Support ground ops with **Object-Based Production (OBP)**
- DCGS-Army**, Provide threat warning support using **Network Analysis**
- Air Force DCGS**, Coordinate airborne ISR with **Overwatch Mission**
- DCGS-SOF**, Support HVT ops using **Pattern of Life Analysis**
- US BICES-X**, Support **Host Nation Data Sharing**
- DCGS-IC**, Support national data sharing in theatre

- Mission Pattern referenced herein*
- Future Mission Pattern*



## Acronyms

**BICES-X** = Battlefield Information Collection and Exploitation Systems - Extended  
**CSG** = Carrier Strike Group  
**DCGS** = Distributed Common Ground/Surface System  
**ESG** = Expeditionary Strike Group  
**HVT** = High Value Targets  
**TF** = Task Force



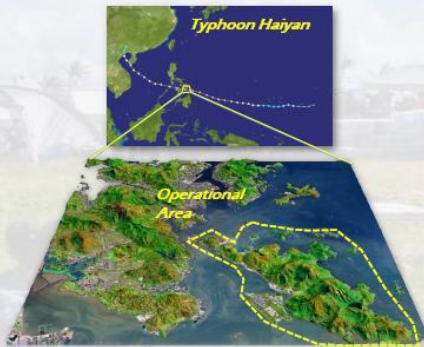
# Five DI2E Mission Threads

Snapshot of 4' x 3' wall poster



## Operation Barclay Gardens

*Typhoon then Terrorist! Who is disrupting humanitarian aid?  
Desperate Locals, or AI Foxxn Insurgents?*



**Joint Force Commander (JFC):**

- Defines Op Area and Objectives
- Directs Collection
- Designates Intel Targets



**Regional Map Development**



**Overwatch Missions**



**Network Analysis**



**Common Intel Picture**

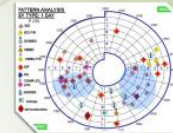


**JFC determines Course of Action**

**Intel, Surveillance and Reconnaissance (ISR) Cycle**



**Structured Analysis**

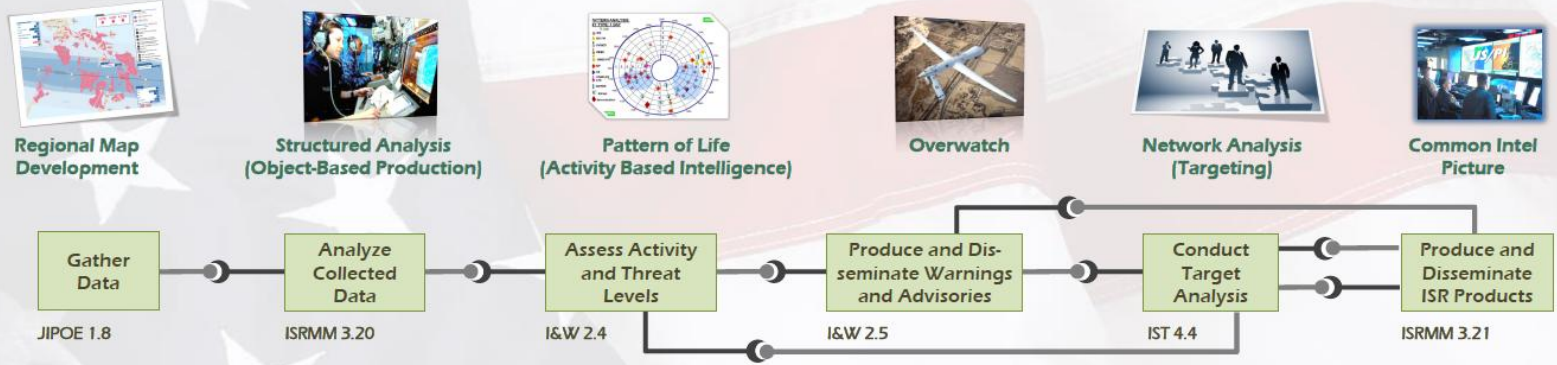


**Pattern of Life Analysis**

# Decomposition

Snapshot of 4' x 3' wall poster

## ISR Cycle

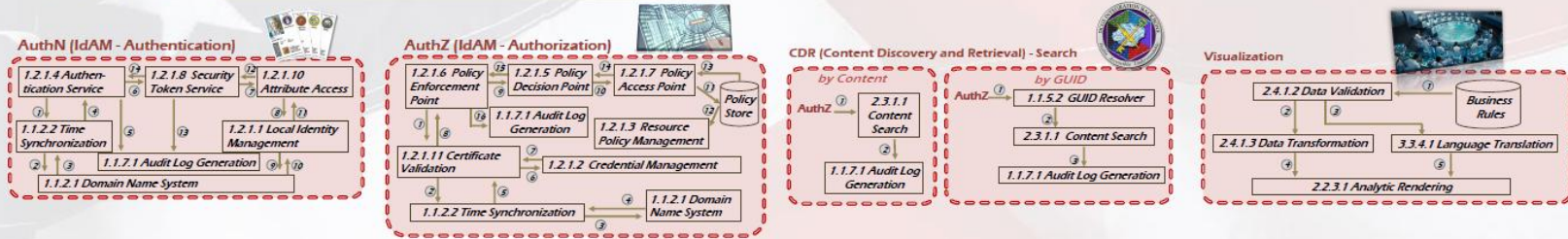


## Operational Mission Activities (OV-5b)

## Activity Decomposition (OV-5a)



## SvcV-4 Chains (SV-10c)



## Enterprise Standards (StdV-1)





- Mission threads will ...
  - Reduce interoperability risk upfront
  - Highlight critical interfaces
  - Place technology into “real world” context
  
- Mission threads serve to ...
  - Allow early evaluation by Industry, at Prototyping
  - Enable formal assessment, at Validation stage



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