(U) Modernizing Defense Intelligence:
Object Based Production and Activity Based Intelligence

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(U) Modernizing Defense Analysis

(U) Imperative to change
- (U) Growing complexity – diminishing resources
- (U) Drowning in data: Cyber, FMV, Open Source, Languages
- (U) Linear production model makes less and less sense

(U) In experiments, demos and pilots we've seen some significant results
- (U) Object Based Production (OBP) – new way organize the data
- (U) Activity Based Intelligence (ABI) – tradecraft for handling technology, volume & complexity
- (U) Big Data / Social media – strategies to extract value

(U) Enabling Behaviors; tagging, sharing, alignment get us to the objective; greater integration, efficiency & depth

(U) Object Based Production Theory

(U) Definition

(U) Organizing intelligence around objects of interest

(U) Thesis

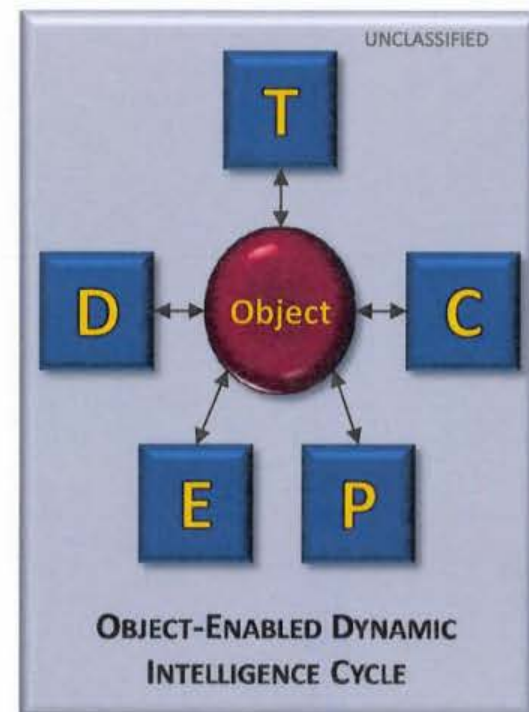(U) Fundamental problem – poor organization of known information

(U) Organize the "knowns" and usefulness of intelligence will increase

(U) OBP Approach

(U) Intelligence reports reflect real-world things

(U) Deliver "assembled" information

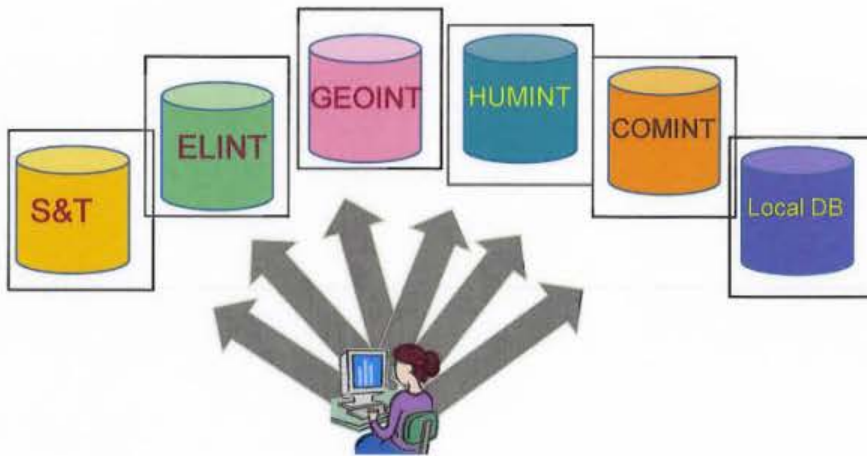(U) Disseminate based on objects, not organizations

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OBJECT-ENABLED DYNAMIC
INTELLIGENCE CYCLE

Dynamic processes are required to support decision advantage

(U) Object Based Information Organization

Current Approach

Intelligence organized by Owner

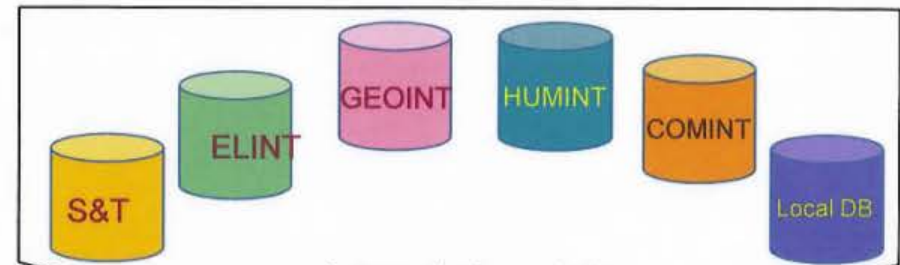S&T | ELINT | GEOINT | HUMINT | COMINT | Local DB

Intelligence discovery requires accessing numerous data sources across the IC

All source analysts spend a majority of their time assembling "known" data

OBP Approach

Intelligence Organized by Object

S&T | ELINT | GEOINT | HUMINT | COMINT | Local DB

Automatic Association

OBJECT

OBP auto-associates collected intelligence across disciplines into a specific object

This object-based approach streamlines discovery and reveals intelligence gaps more readily

(U) QUELLFIRE

(U) IC's Program to deliver OBP as an enterprise service

- (U) All producers publish to a Unifying Object Model
- (U) Delivers true integration, enterprise management

(U) Based on Successful Pilots that demonstrated enhanced, speed, efficiency and depth of analysis

(U) Project is native to the cloud environment

- (U) Runs on Ghost Machine Nodes, using Ozone Widget Framework to manage/produce objects
- (U) Tool agnostic it delivers analysts an assembled view of intelligence within the production workflow

(U) Activity Based Intelligence

(U) Grew out of experiences working dynamic targets in support of Special Operations

(U) Focus is on discovery and association of unknown activities

(U) ABI tradecraft and production incorporate key practices, core to the future production environment

(U) Has been shown to directly enhance OBP – aligns activity to objects

(U) Can provide the key strategies for pulling useful data from overwhelming big data

(U) Dynamic Analytic Paradigm
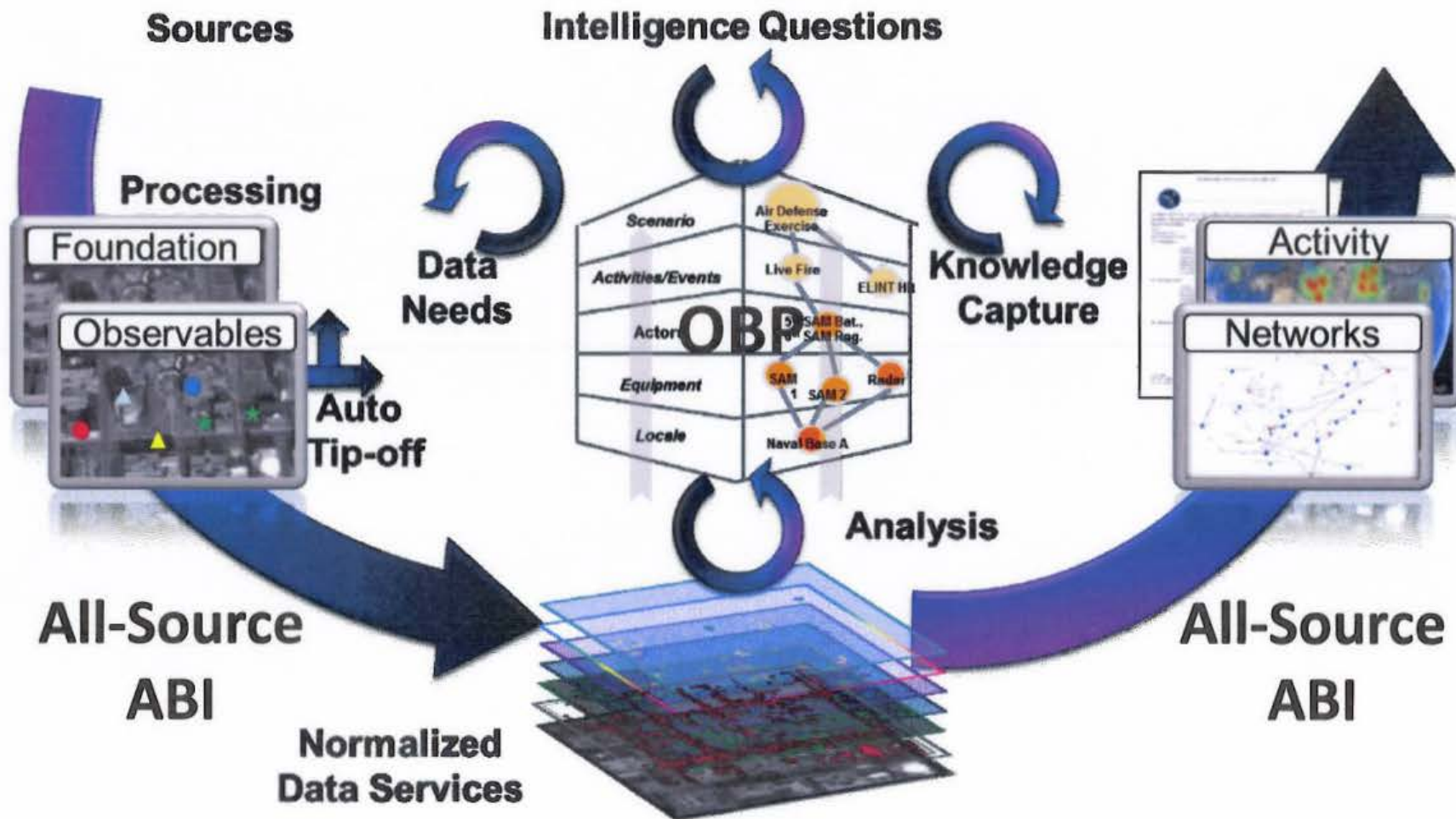
(U) Modernizing Defense Intelligence
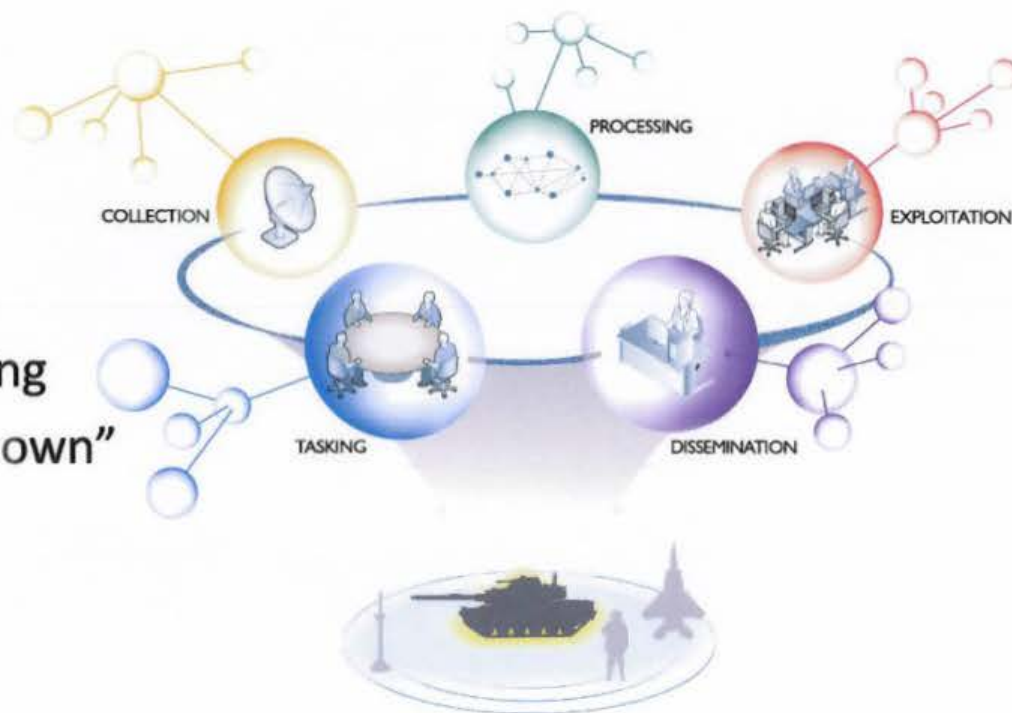
(U) Integration

- (U) Eliminate stovepipes
- (U) Speed of Discovery
- (U) Tactical-National data

(U) Efficiency

- (U) Cloud Based Data Sharing
- (U) Output aligning the "known"

(U) Quality

- (U) Depth
- (U) Focus of analysis

COLLECTION PROCESSING EXPLOITATION TASKING DISSEMINATION

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(U) OBP/ABI will enhance the Integration, Efficiency and Quality of Defense Analysis

(U) Partnership Considerations

(U) We need help dealing with:

- (U) Large Unstructured Data Sets – one bite at a time
- (U) Concepts and tradecraft to deal with Volume and Velocity

(U) Integration vice Stovepipe solutions

(U) Tools that will thrive in a Data and App driven environment

(U) Questions?

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