



# **Office of the Under Secretary of Defense (Intelligence)**

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**The overall classification of this brief is Unclassified**



# Persistent ISR

## ■ **Must:**

- Employ** multi-INT, multi-domain **collection**
- Provide** relevant and timely **analysis** to address the threat
- Result in actionable information** for operators
- Take advantage of** key enabling **technologies**

**Things have changed...**



# Key Collection Issues

- Multi-INT, multi-domain persistence – responsive to dynamic, tech-savvy adversaries
  - Speed of light and thought
- Integrated Tasking, Collection and Analysis Management
  - Sensor location and awareness
  - Smart tasking – include collecting on transactions and social networks
  - Analysis Gap awareness
  - Automated feed back loop to multi-discipline tasking recommendations
- Unattended Sensors
  - Integrated tasking and data access
- Operations-based collection management process – analogous to an effects based ATO
  - Collection plans must allow for long-term activities based ISR
- Non-traditional ISR (e.g. OSINT) feeding spatially and temporally searchable ISR data bases
- Collections should be able to support various timelines, from real time operator support to forensics and longer term situational awareness



# Key Analysis Issues

## ■ Integrated Intelligence Architecture

- Easy data access
  - Non-traditional data queries – not necessarily temporal or spatial
- Automated tipping and cueing up and down echelon
- COP available down to lowest tactical level; including both Red and Blue forces.
- Robust, responsive, and tested information transfer layer
- Integrated Data Centers and storage solutions for rapidly increasing volumes of data
- Predictive and forensic analysis – must understand metrics, and they are different



# Key Analysis Issues (cont.)

## ■ **Maritime and Air Domain Awareness**

- Connect the vertical dots into a horizontal theme
- Build and support COPs

## ■ **Nuclear Forensics**

- Post Detonation Attribution

## ■ **Biometrics and Social Network Analysis Integration**

## ■ **Reduced analyst workload and footprint**

- Better tools and Automated analysis optimized for their particular problem
- Make volume our friend
- Treat IMINT like SIGINT



# “Last Tactical Mile” Issues

- **Multi-level security vice “Multiple levels of security”**
  - Sensitive but releasable data at the lowest possible levels without separate networks
  - Common message and email systems
- **COP and supporting analysis down to lowest tactical level**
- **Ensure Intel drives Ops**



# Enabling Key Technologies

- **Bridge the technology provider-end user gap**
- **Streamline technology-to-operations cycle**
- **Select most promising technologies and rapidly transition to operations**
- **Reduce barriers that hinder discovery of cutting-edge technology**

**Stretch today's technologies and invest wisely in future technologies**



# Questions?

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