



Attack the Network – Defeat the Device – Train the Force

**AFCEA-GMU C4I Center Symposium
COL John McCarthy
Joint IED Defeat Organization**

May 19, 2010

This briefing is UNCLASSIFIED



Conventional Wisdom

Today's Planning Assumptions

UNCLASSIFIED



Attack the Network – Defeat the Device – Train the Force

- U.S. will face hybrid threats employing both conventional and asymmetric capability
 - “An era of persistent conflict”
- U.S. will fight as part of a Coalition Force
- Threats will be from Non-State actors that do not recognize boundaries or warfighting conventions
- U.S. will have to react rapidly to emerging threats and battlefield reality

“Our conventional modernization programs see a 99 percent solution in years. Stability and counterinsurgency missions – the wars we are in – require 75% solutions in months.”

Secretary Robert Gates, National Defense University, 2008

UNCLASSIFIED

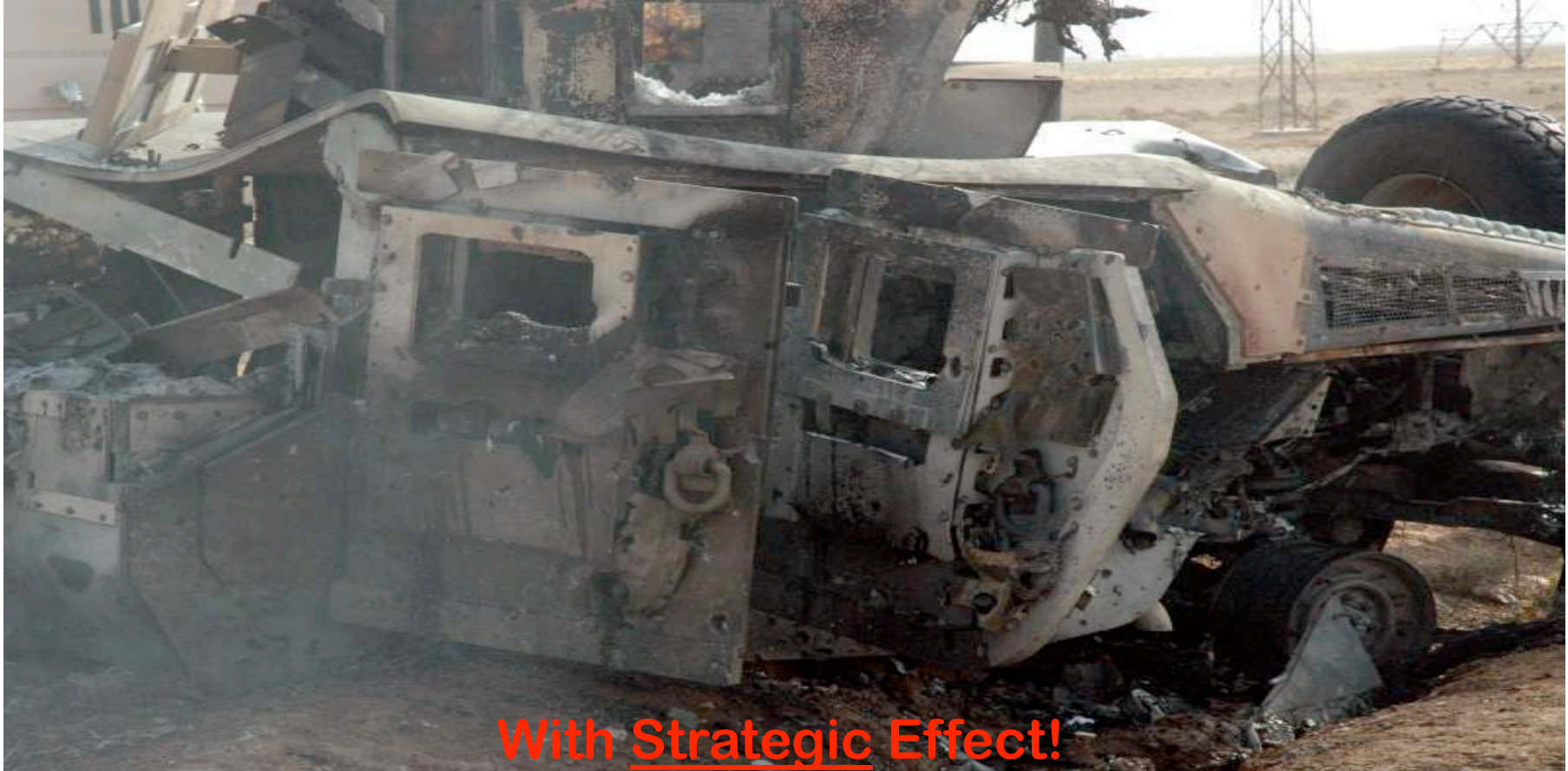


UNCLASSIFIED



IEDs are Tactical Weapons

Attack the Network – Defeat the Device – Train the Force



“IEDs remain the number one cause of casualties in Afghanistan. And let there be no doubt that, as long as our troops are in harm’s way, the Department will do everything it can to destroy these IED networks and protect those heroes in the fight.”

Secretary Robert Gates, AUSA, October 2009

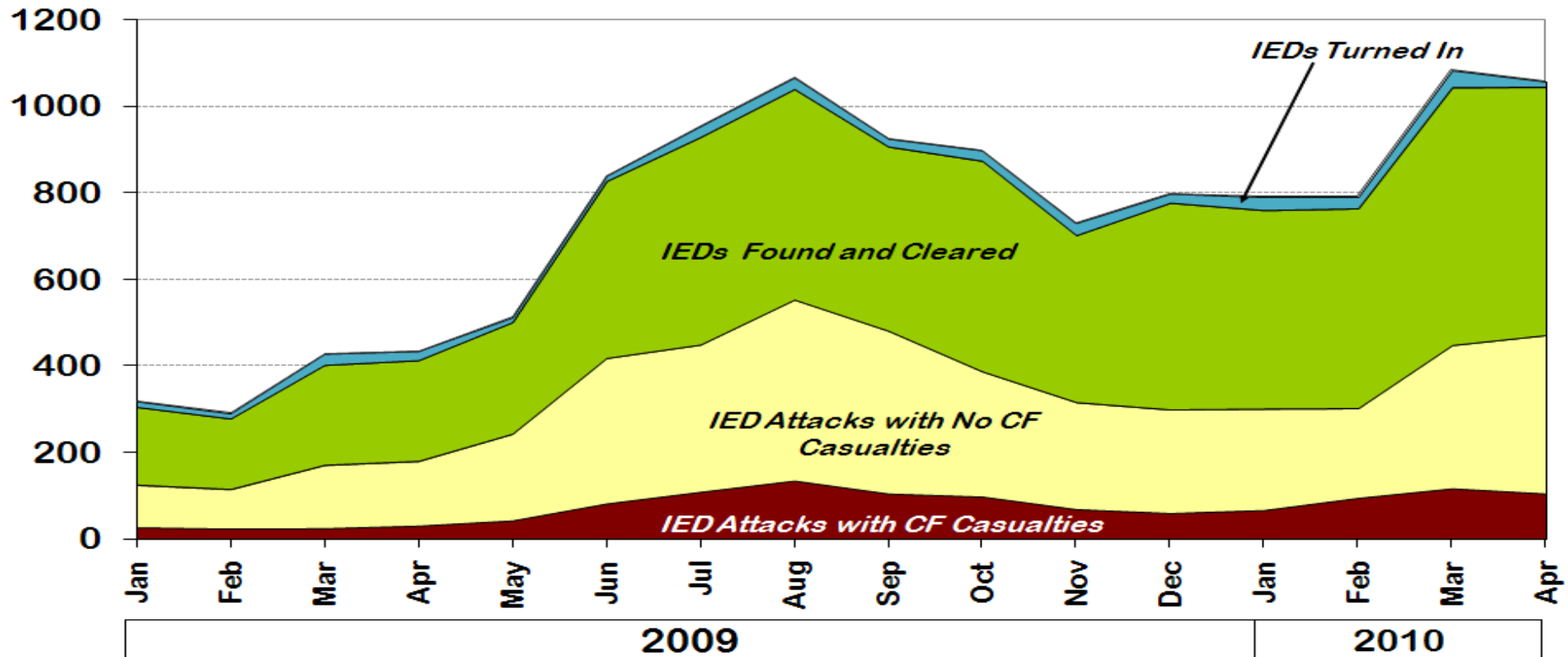


UNCLASSIFIED



Afghanistan - Recent IED Incident Trends: All Targets

Attack the Network – Defeat the Device – Train the Force



	Totals			
	CY 07	CY 08	CY 09	CY 10
IED Incidents	2,677	3,867	8,204	3,724
IED's Turned in	177	118	237	107
Found/Cleared	1,158	1,892	4,218	2,091
Ineffective IED Attacks	1,136	1,470	2,929	1,138
Effective Attacks	206	387	820	388
CF KIA	77	183	322	100
CF WIA	415	790	1,813	803

Trends (in month of Apr '09 vs Apr '10)

- Total IED incidents **increased** 143%
- Effective Attacks **increased** 231%
- Found/Cleared **increased** 146%

All incident categories more than doubled from 2009 to 2010

UNCLASSIFIED

JIEDDO J9 – 6 May 10
Source: IDA Scrubbed SigActs (CIDNE)

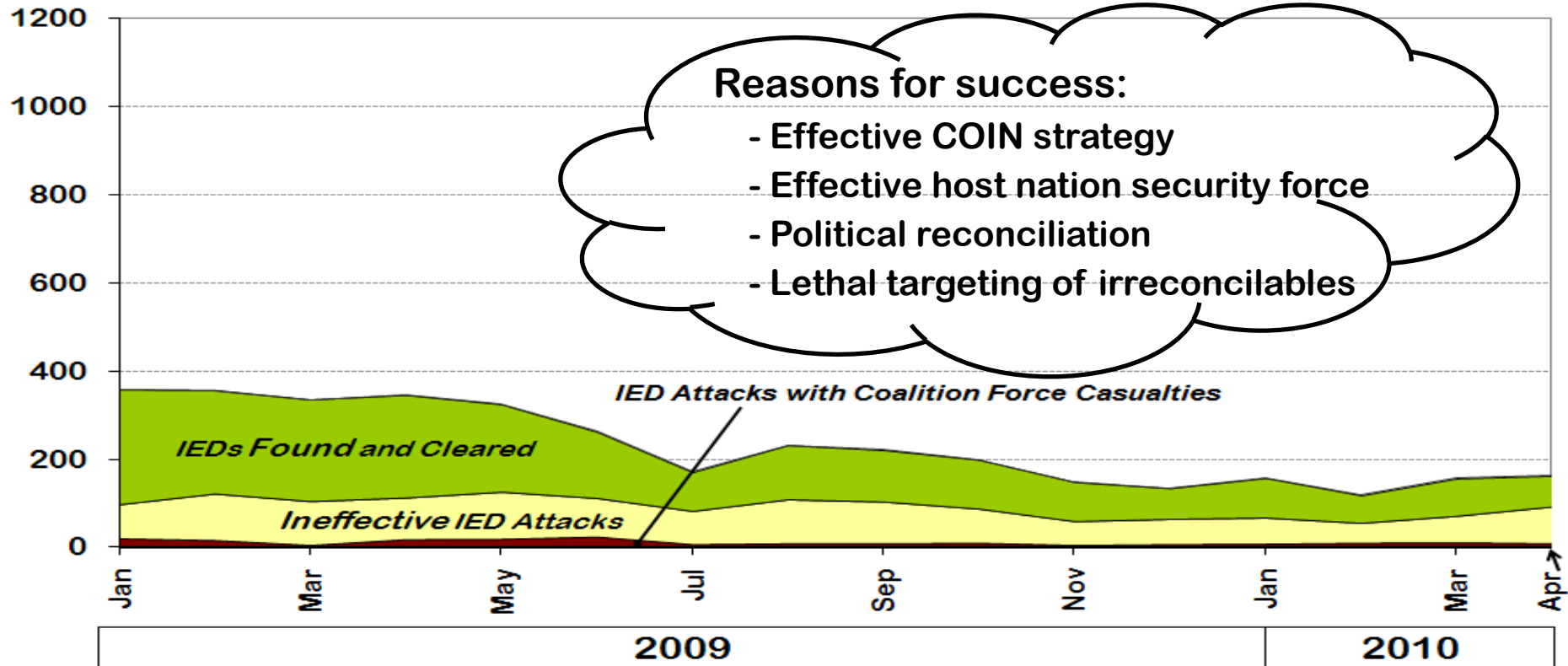


UNCLASSIFIED



Iraq - Recent IED Incident Trends: Coalition Force

Attack the Network – Defeat the Device – Train the Force



	Totals			
	CY 07	CY 08	CY 09	CY 10
IED Incidents	23,914	9,036	3,087	609
Found/Cleared	13,074	5,845	1,890	314
Ineffective IED Attacks	8,897	2,634	1,024	249
Effective Attacks	1,943	557	173	46
CF KIA	575	142	48	5
CF WIA	4,227	1,180	403	90

Trends (in month of Apr '09 vs Apr '10)

- Total IED incidents **decreased** 51%
- Effective Attacks **decreased** 45%
- Found/Cleared **decreased** 68%

The fight in Iraq continues to shift from Coalition Forces to the Host Nation (Iraq Army, Iraq Police)

UNCLASSIFIED

JIEDDO J9 – 7 May 10
Source: CIDNE (ODBC)



UNCLASSIFIED



Technology Challenges

Attack the Network – Defeat the Device – Train the Force

Predict and Prevent



- Social and Dynamic Network Analysis
- Tagging, Tracking, & Locating
- Detect/Prevent Pre-Emplacement Activity
- Persistent Surveillance Technologies
- Sensor Enhancement and Data Exploitation

Detect



- Command Wire Detection
- Buried IED Detection
- Detection of Pressure Initiation Devices
- Standoff Explosives Detection & Confirmation
- Explosively Formed Projectile Detection

Neutralize



- Passive Infrared Defeat
- Blasting Cap Defeat
- Counter Radio-controlled Electronic Warfare

Mitigate



- Vehicle and Crew Protection
- Dismounted Personnel Protection
- Pre-empt Use of New Technologies & TTPs
- Medical Initiatives for Post-Blast Injury

UNCLASSIFIED



UNCLASSIFIED



Institutionalizing C-IED

Attack the Network – Defeat the Device – Train the Force

Changing how we think about Counter-IED

What is Counter-IED?

C-IED is the organization, integration and synchronization of capabilities that enable offensive, defensive, stability, and support operations in order to defeat IEDs as operational and strategic weapons of influence

Counter-IED is Commander's Business

- How do we organize for the C-IED fight?
 - What are the C-IED Enablers available to Commanders?
 - What are the processes that leverage C-IED enablers?
 - How do units prepare and train for the current fight?
 - How should we prepare for the next fight?

UNCLASSIFIED



UNCLASSIFIED



How We Will Institutionalize

Attack the Network – Defeat the Device – Train the Force

- Develop Joint C-IED Doctrine – Campaign support
- Integrate C-IED organization, enablers, and processes in operations and exercises
- Standardize education and training in the institutional domain
- Investigate potential for establishment of C-IED equipment sets for issue to forces deploying to areas with an IED threat
- Establish key C-IED enabler governance guidelines (Biometrics, Forensics, Weapons Technical Intelligence)

“In light of the hard lessons of recent years, however, the U.S. military has reshaped and reformed itself to meet new threats. We have struggled to adapt our institutions and practices to the messy realities of counterinsurgency and irregular operations – where tactical victories can easily lead to strategic setbacks – where civilian casualties present unprecedented difficulties for war-planners.”

Secretary Robert Gates, Pakistan Military Academy, January 2010

UNCLASSIFIED

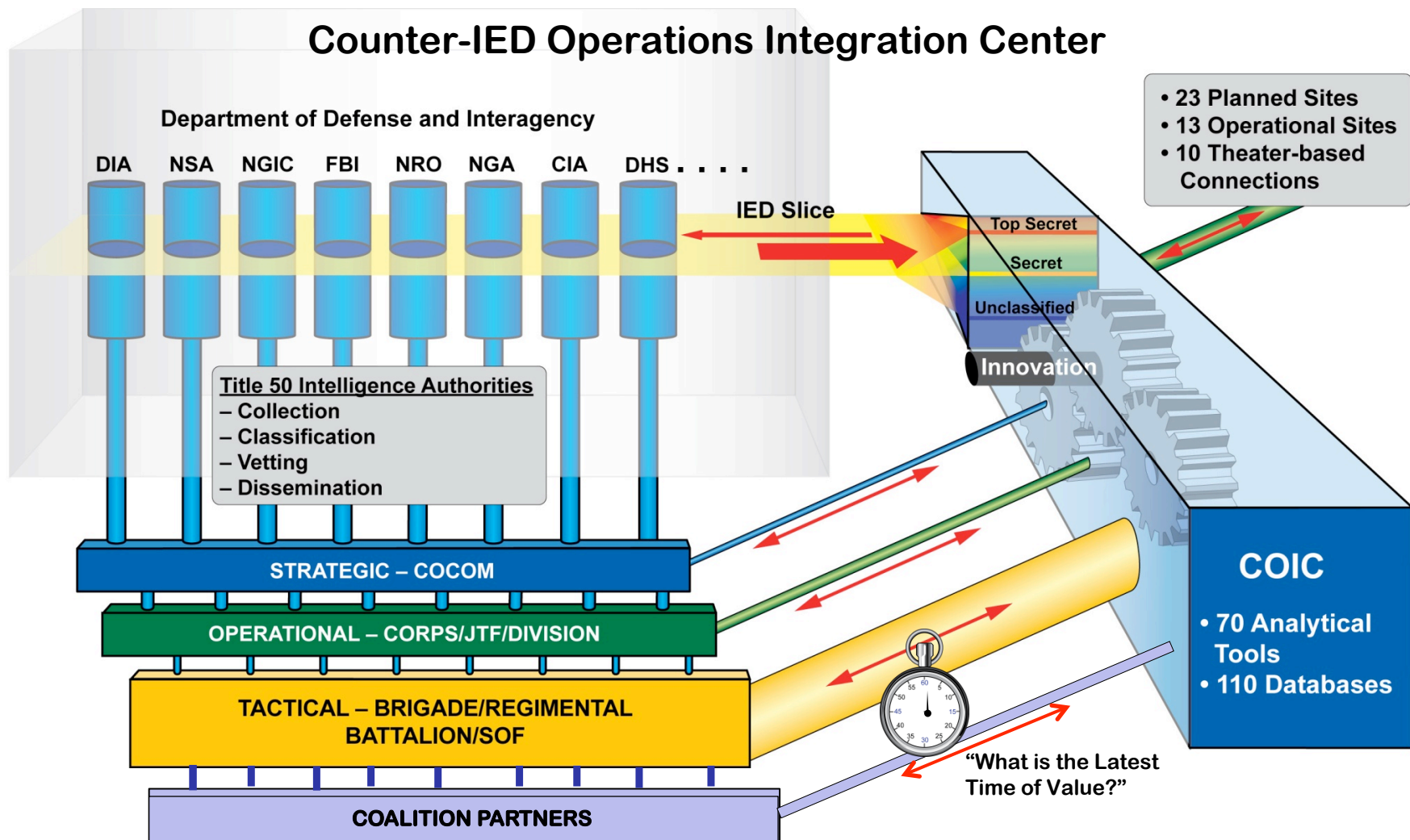


UNCLASSIFIED



Operations & Information Fusion

Attack the Network – Defeat the Device – Train the Force



UNCLASSIFIED

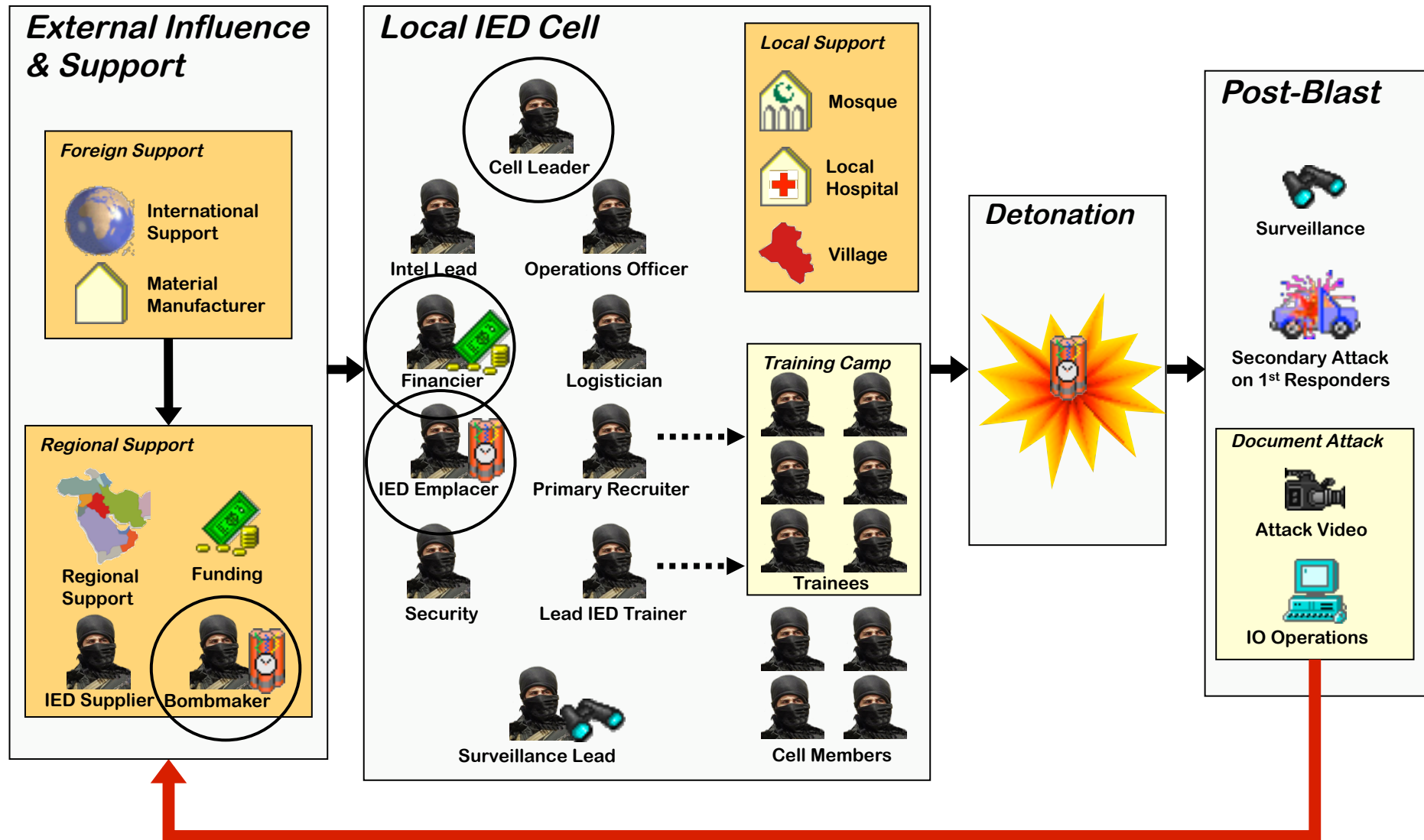


UNCLASSIFIED



Attack the Network

Attack the Network – Defeat the Device – Train the Force



UNCLASSIFIED



UNCLASSIFIED



Training

Attack the Network – Defeat the Device – Train the Force

Facilitates Training On Attack
The Network Using A Common
JIEDDO Training Support Plan



UNCLASSIFIED



←
Weapons
Intelligence
Teams



←
Electronic
Warfare
Targeting

Biometrics



Law
Enforcement
Program



←
Company
Intel Spt
Teams



←
Tactical
Site
Exploitation



Intel,
Surveillance
Recon



Pattern
Analysis



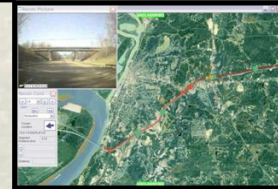
←
Home Made
Explosive



←
Counter IED
Targeting
Process



C-IED Ops
Integration
Center



Human
Terrain
Team



We need To Train Attack the Network



UNCLASSIFIED



Lessons Learned

Attack the Network – Defeat the Device – Train the Force

- **There is NO SILVER BULLET!**
 - Technology is part of the solution, but only part.
- **The ENEMY adapts quickly**
- **Training is where we get our HIGHEST PAYOFF**
- **Attack the Network is where we WIN**
- **C-IED fight is a joint and combined arms effort**
- **Information MUST be shared with the right people in a timely manner**
- **We will never prevent all IED attacks, but we can reduce their effects to a level that doesn't constrain our ability to operate**

UNCLASSIFIED



UNCLASSIFIED



The Way Ahead

Attack the Network – Defeat the Device – Train the Force

- Improve information fusion of multiple databases – focus on analysis
- Implement timely sharing of information and analysis with allies/interagency
- Identify and rapidly acquire C-IED capabilities (material and non-material)
- Develop an agreed approach for Attack the Network
- Standardize education and training in the institutional domain, assess frequently to remain current

UNCLASSIFIED