I. Hybrid Warfare and Critical Infrastructure Protection

The Militarization of Natural Resources and Associated Infrastructure

Dr. Kevin Rosner
Rosner@iags.org
Kevin.rosner@sei-international.org
Mobile: +32 4 7375 4949
II. Definitions

• Asymmetric
• Hybrid War
• Critical Infrastructure
III. The IS Neighborhood/This is Your Neighborhood

ISIS’s Global Strategy: September 2015
IV. Critical Infrastructure: Oil/Gas & Beyond: WHAT TO DO?

- Define and catalog critical infrastructure and resources on a network basis.
  - BOTTOM UP and DO NOT assume someone else (THE NATIONAL GOVERNMENT) has done it
- Understand network criticality on a node-by-node basis
  - Particularly important in a post-conflict or post event recovery period
V. Critical Infrastructure: Oil/Gas & Beyond

- Embrace a human security approach to criticality
  - Beyond the Shareholder: Appreciate your infrastructure and judge its value in terms of how it serves human needs
  - Understand, appreciate, protect and prevent asymmetric access to and control over resource and resource-infrastructure, i.e. electrical power, water, agriculture (food and land deprivation) and portable resources that can be easily monetized i.e. fossil fuels, precious minerals and stones, radioactive minerals and materials
VI. Critical Infrastructure: Oil/Gas & Beyond

- Treat these resources as if they are military assets
- Why? Because they are
- Oil, water, food and other associated assets necessary for human survival have already been militarized in Iraq and Syria.
- This is the new norm
  - Seizure-capture-control and manipulation of these assets both directly through consumption and indirectly through taxation to their access HAS ALLOWED THE IS TO REMAIN IN THE FIELD
VII. Oil/Gas & Beyond

- IS in the field is INDICATIVE of state failure to recognize how civilian assets have been highjacked for terrorist purposes. How to respond?
- Study, define and map the location of YOUR network systems and their contribution to state stability and security in the following contexts:
  - Socio-economic contribution to societal and state stability
  - Ethno-religious (sectarian) access to network system resources and deliverables i.e. water and power or denial of access by groups to said assets
  - ‘Local’ resource and resource infrastructure greed and grievance tracking
  - History of civil disturbance and instability proximate to resource access or denial
VIII. Process Deliverable: Integrated Security Assessment

- This methodology is an integrated security approach leading to active risk assessments. The methodology draws on expertise inherent in multiple, complementary disciplines almost endless in their range. The methodology is flexible versus static and adaptive versus staid. The focus is on a comprehensive end result that minimizes uncertainty, maximizes positive outcomes, and incorporates unforeseen change as it occurs. This is different than the integrated security concept that will be discussed later on today.
IX. Integrating Technology & Intelligence

- The lack of information about Iraq’s infrastructure and government institutions made it difficult for the working group to determine what would be needed to restore essential services. “We never had anything more than a PowerPoint briefing,” a Defense official later commented.

- Missing from the intelligence, according to the report, were assessments of the economy, governance, agriculture, and other “soft” aspects of Iraq's condition. “If it couldn't be got by a satellite, we just didn't have it,” he said
X. INVITATION: Join Middle East Initiative

- University of Texas, Austin: Strauss Center
- The Strauss Center’s Middle East Initiative seeks to develop a framework for analyzing the intersection of infrastructure, water and energy security in the Middle East, **provide new data to analyze strategies that seek to promote human security, interstate cooperation, and stability in the region.**
- Inform strategies to meet the needs of state and private sector enterprise, indigenous and refugee populations proximate to these assets, with a particular focus on assessing sustainable water-energy solutions that respond to both immediate and longer-term water and energy needs in both countries.
XI Al Qaeda in Afghanistan: Slash and Burn
XII. ISIS in Syria: Slash and Burn
XIII. ISIS in Syria: Clear, Hold
XIV. ISIS in Syria: Sell-The Economicization of Terror
INTEGRATED SECURITY ANALYSIS NETWORK ARCHITECTURE