NCO Conceptual Framework: Special Operations Forces Case Study

FINAL BRIEF

Prepared and Presented by Booz Allen Hamilton

21 June 2004





Outline

- Background
 - Objectives of research
 - Scope and assumptions
 - Approach (solution strategy)
 - Discuss data collection and data analysis plan
- Data Analysis
- Discuss implications for NCO
- Recommendations





Objectives of Research

Did the evolution of the MSC between OEF and OIF demonstrate improvements in the *Quality of Networking*, the *Degree of Information Shareability*, the *Quality of Individual Informtion*, the *Quality of Interaction* and the *Degree of Shared Information*...

Did these improvements contribute to an increased <u>Degree of</u> <u>Decision Making (for mission planning)</u> and lead to an increased <u>Degree of Effectiveness (not implicitly quantified)</u>?

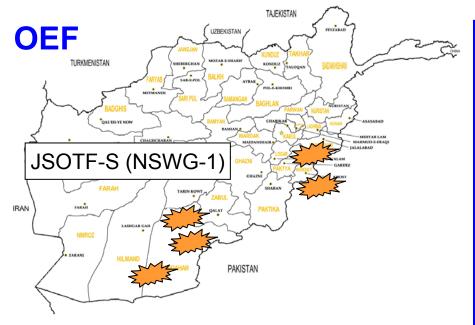


Operational Context

- Objective of the Case Study:
 - Examine the effect of the Mission Support Center (MSC) on the Degree of Decision Making within the Naval Special Warfare (NSW) Group 1 (NSWG1).
- Key Difference
 - Baseline: People, Process, and Technologies within the MSC during Operation Enduring Freedom (OEF)
 - Treatment: People, Process, and Technologies within the MSC during Operation Iraqi Freedom (OIF)





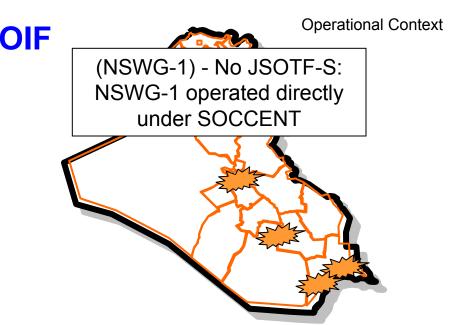


<u>Missions:</u> Special Recon (SR), Direct Action (DA), Maritime Interdiction, Beach Survey, Coalition Operations

Desired Effects: Harass and Destroy Terrorist Forces in Afghanistan

Operational Tempo: 42 SR missions, 23 Direct Action missions, 12 Underway ship takedowns

Significant Missions: Cave Clearing Operation, Operation Anaconda, Hazar Gadam Raid, Short Notice High Value Target Mullah Khairullah Capture, Hydrographic survey



<u>Missions:</u> Direct Action, Special Recon Maritime Interdiction, Coalition Operations

Desired Effects: Harass and Destroy Iraqi Forces

Operational Tempo: 70+ Combat Support missions

Significant Missions: AI Faw Oil Field, GOPLAT Operations, SR Support to ARFOR/MARFOR, Maritime Interdiction

Operational Context

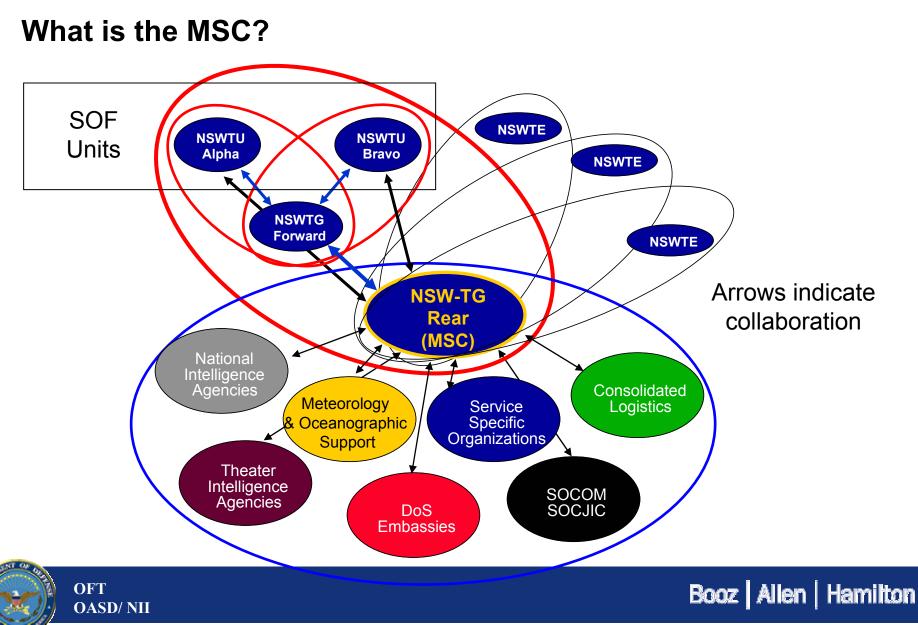
Distinguishing Baseline & Treatment

Focus of Case Study

FORCE ELEMENTS	BASELINE Operation Enduring Freedom	TREATMENT Operation Iraqi Freedom
Information Sources	Sensors, HUMINT	Collaborated Intel/Info Sources Sensors, HUMINT
Value Added Services	Microsoft Office(PowerPoint) SATCOM, Phone, Radio, JWICS, SIPRNET Tactical Missions	Federated network, Blue Force Tracking, A3, Global Broadcast System, WEBBE, JWICS, SIPRNET Strategic and Tactical Missions
Command and Control	Mission Support Center ad hoc and distributed MSC	Mission Support Center permanent and co-located; MSC staffed 24 hours, 7days/week
Effectors	Force Composition 30 staff Forward in Theater 30 staff Rear at MSC Supporting 600 SOF Forces (US & Coalition) 5079 METOC requests	Force Composition 110 staff Forward in Theater 75 staff Rear at MSC Supporting 600 SOF Forces (US & Coalition) 7805 METOC requests
Operating Environment	Mountains	Desert

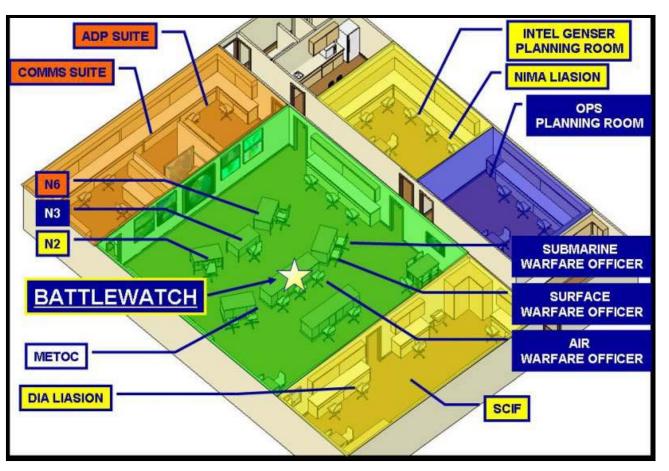






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What is the Mission Support Center?

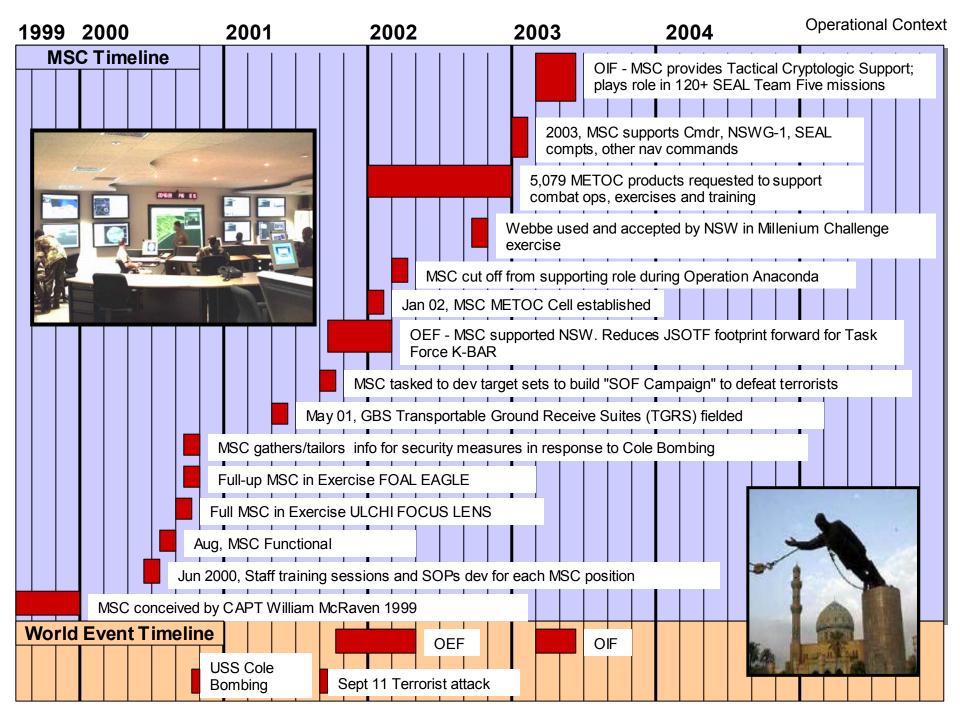


OFT

OASD/ NII

- Funded on Experimental Basis
 2000 in San Diego, CA
- Maintain situation awareness on all NSWG-1 deployments
- Provide single POC for deployed forces (for log, intel, planning, etc.)
- Centralize blue force monitoring
- Reduce deployed footprint

8



1999 2000 2001	2002	.20	03	2004 Operational Cont	text
1999 2000 2001 MSC Timeline Image: Comparison of the RFI and Planning process (not officially "in theater") • Co-located intel and ops personnel • No theater rep familiar w/ MSC • GBS terminals fielded to NSW (largely used to push unclass media – not leveraged by MSC) • Used revised version of product called "Quiver" (aka "Aljaba") for data manipulation to track NSW targets and integrate NSW-specific EEIs • Used ArcView for geospatial mission planning products • STEs were available for communication			03	2004 Comparison of the second	
World Event Timeline USS Cole Bombing	Sept 11 Ter	OEF prist attack		OIF	

Operational Context

What Are the Technologies?

	Description	Key Points
Aljaba	Updated version of Quiver tool (database originally developed to track SAMs and plot directly to FalconView) used for target tracking by NSW during OEF	 Used to track NSW targets Used to integrate NSW-specific Essential Elements of Information Repository for: Images Target data Reports Lists Did not have the extensive report and tailored product generation capabilities of A3
<image/>	Relational database that manages research, cataloging, dissemination, and integration of information. An application that automates majority of intelligence production tasks	 Intuitive MS Access front and backend Could pull and display data from numerous and disparate IC and DoD databases (e.g. RMS, MIDB, SOJICC) along with local intel Data can be exploited into new products: FalconView Local Point, Threat and Drawing overlays (SHP files in 3.2) Tailored PowerPoint presentations Static Web Pages Mission Data Cards (target Intel with all associated data categorized and linked.)



What Are the Technologies?

	Description	Key Points
<image/>	An instant- messenger communication tool (like MSN Messenger or AOL IM) used for secure multi-point communication	 Notes, voice, and files can be sent securely to anyone Secure voice communication is possible with the option of maintaining a record of what was said The protocol is light and can be used amid the most severe bandwith constraints Software application used on handhelds and laptops Integrates with: IRC Chat DCTS Netmeeting MSN and Outlook email
GBS	Satellite broadcast system (based on commercial direct broadcast satellite technology) that acts as a data pipeline to forces with receiver units	 Capable of multiple levels of security Initially used to send unclass media content One-way dedicated data pipeline for transmission of large data files (e.g. Images) to field units An extension of the Defense Information Systems Network (DISN) and a part of the overall DoD MILSATCOM Architecture. NSW fielded 9 GBS Transportable Ground Receiver Suites in May 2001



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Scope and Assumptions

- Scope of the case study has evolved based on continuing guidance; Would be nice to provide an end-to-end impact assessment, but not feasible given the scope and timeline to complete
- What the case study examines is the impacts of Mission Support Center and associated technologies (A3, WEBBE, GBS) on the ability to plan SOF missions
 - Minor impact for OEF
 - Large impact for OIF
- End result/mission effectiveness are not specifically addressed, but certain inferences have been made based on data collection/analysis

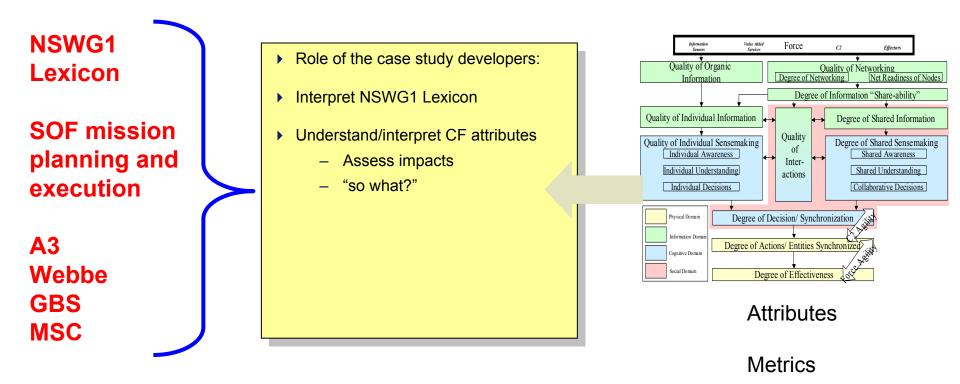




Approach

USE OTHER BAH Approach

Understanding the Problem

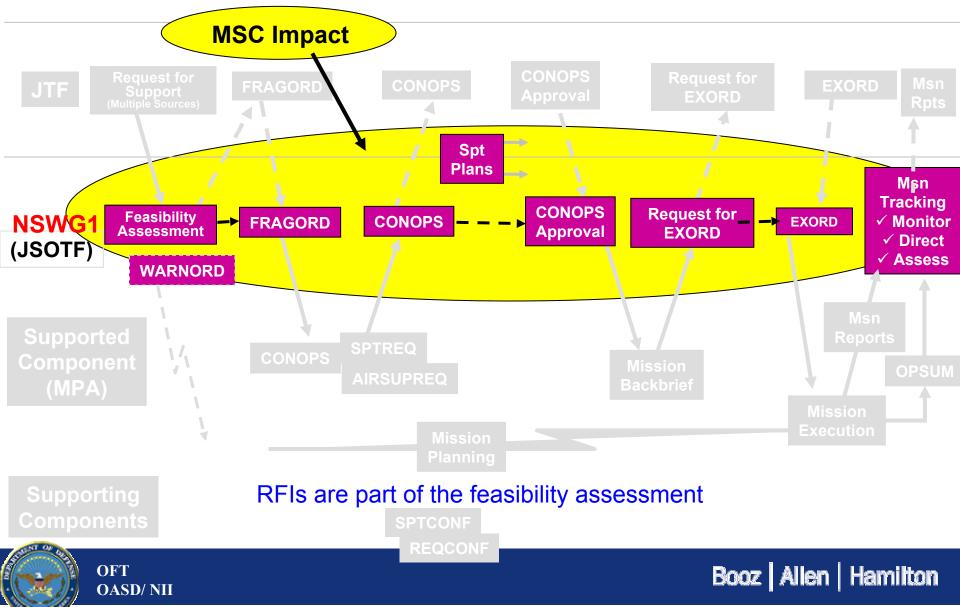


Variables

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SOF Planning and Execution Process

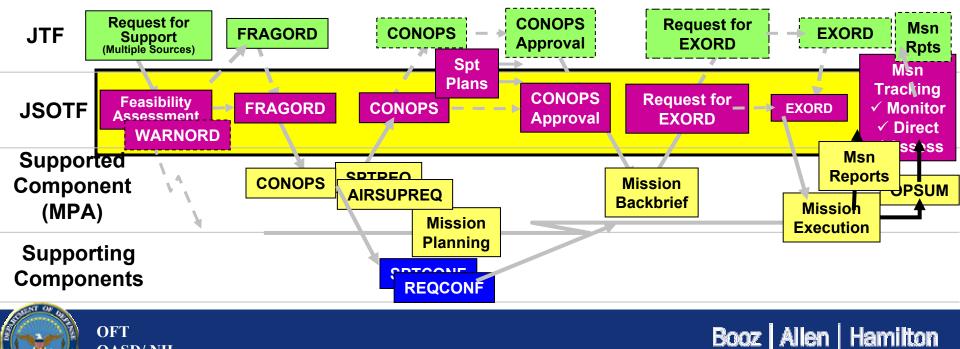


Activity Flow

OASD/ NII

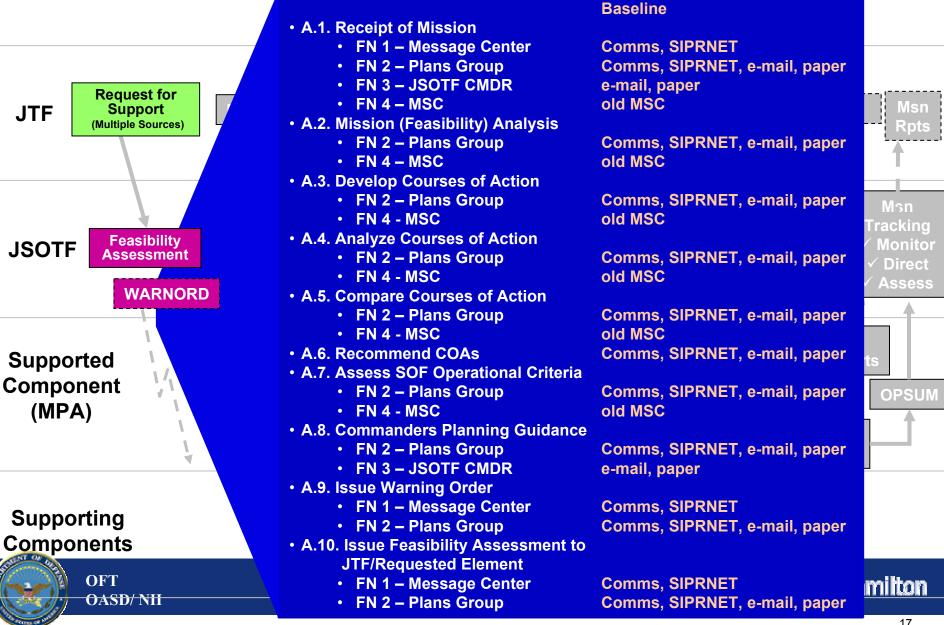
- Detailed SOF mission planning process activity flow is shown below
- For the purpose of the case study, the SOF Planning and Execution process is assumed to be constant between OEF and OIF
- Mission preparation improvements in efficiency between OEF and OIF are in terms of NCO changes (processes and technology) within the activity flow diagrams
- Activities bounded within the box in the diagram below will be researched in detail using the CF in the case study.

SOF Planning and Execution Process (Baseline and Treatment Case)



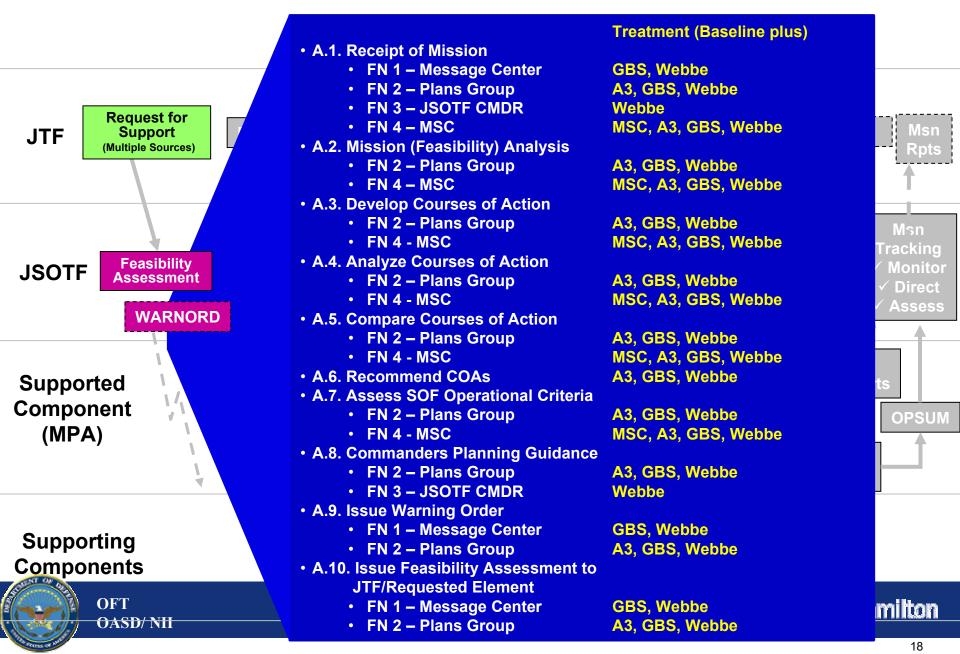
Data Collection and Analysis Approach

SOF Planning and Execution Process (1 of 5)

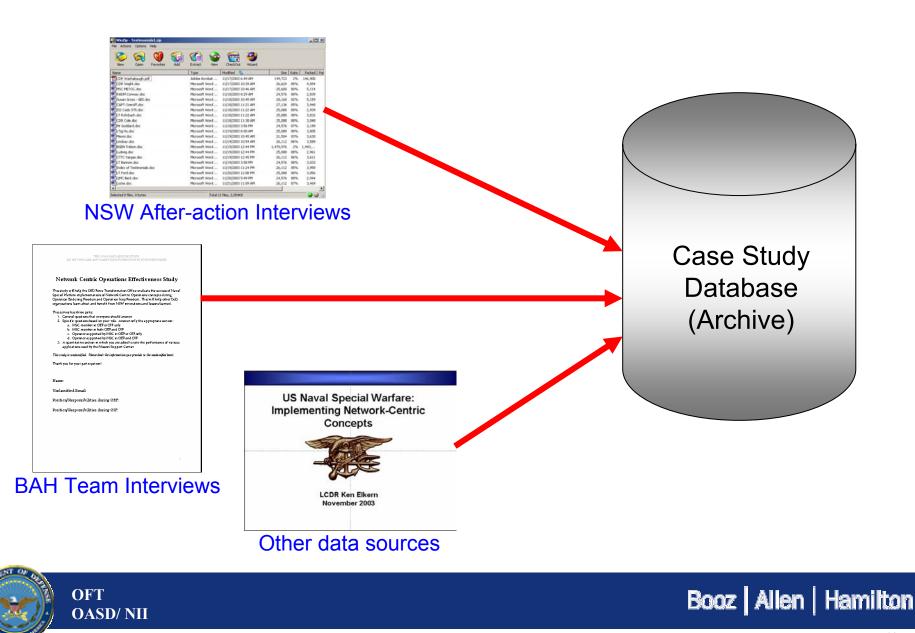


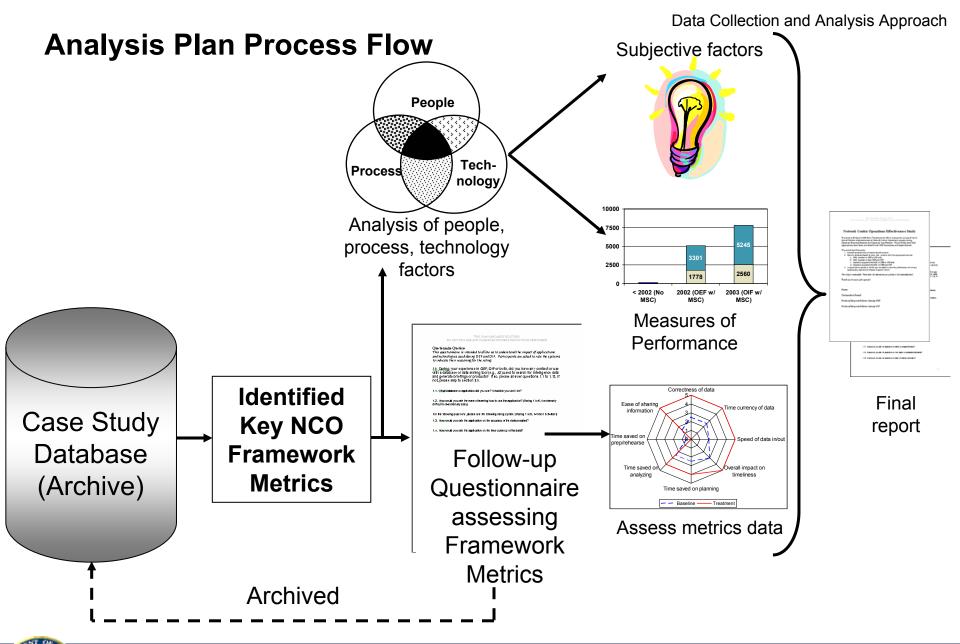
Data Collection and Analysis Approach

SOF Planning and Execution Process (1 of 5)



Analysis Plan Process Flow







Data Collection Plan

- Two primary sources of information
 - 20 detailed after-action interviews conducted by NSW on MSC performance
 - Multiple levels of hierarchy included flag officers, Navy staff, contractors and intelligence community liaisons
 - Multiple mission perspectives included operators, forward support and rear support (i.e., MSC)
 - 13 detailed interviews conducted by BAH team on MSC performance in the context of NCO framework, based on interview guidance
 - Included follow-up interviews with subjects of above interviews
 - Included other Special Operations Forces participants from Joint community to facilitate diverse perspectives
- Other sources of information
 - 15 follow-up surveys quantifying MSC in context of NCO framework, based on interview guidance (in progress)
 - Six after-action reports and briefings on MSC and SOF performance



Data Sources – NSW Interviews

- 1. Brigadier General Gregory L. Trebon, USAF Commander, Special Operations PACOM
- 2. Rear Admiral Conway, Commander Expeditionary Strike Group ONE
- 3. Captain David F. Ozeroff, USNR, Senior Battle Watch Captain, Mission Support Center
- 4. Norven Goddard, GS-15, Division Director Missile Defense Directorate, US Army Space and Missile Defense Command Battle Lab
- 5. Commander Brad Voight, Officer in Command, Mission Support Center
- 6. Mark Meoni, GS-13, SOMPE-M Program Manager, Naval Special Warfare Command
- 7. Susan Gross, GS-13, N6, Commander Naval Special Warfare Group ONE
- 8. Doctoral Candidate John R. Lindsay, Department of Political Science, Massachusetts Institute of Technology (former NSWG1 @ MSC)
- 9. Lieutenant Junior Grade Eric Hu, Assistant Operations Officer, SEAL Delivery Vehicle Team ONE

10. Commander Jason Washabaugh, USN, SOCOM





Data Sources, cont. – NSW Interviews

- 11. Commander Dave Cole, SEAL, Commander Naval Special Warfare, Liaison Expeditionary Strike Group ONE
- 12. Intelligence Specialist Second Class Dan Cady, SEAL TEAM FIVE, CENTCOM Intel LPO
- 13. Lieutenant Ed Rohrbach, SEAL TEAM FIVE, ECHO Platoon Commander
- 14. Chief Petty Officer Neftali Vargas, Commander Naval Special Warfare Group ONE
- 15. Wayne Ludwig, GS-14, NIMA Geospatial Analyst, Special Targeting Branch, NIMA
- 16. Lieutenant Larry Bannon, OPS Naval Special Warfare Group ONE
- 17. Lieutenant Jim Ford, Senior Intelligence Officer for NSWTG-Cent in OIF
- 18. John Locke, MSC contractor (Titan)
- 19. QMC Chris Beck, Combat Systems Officer SEAL TEAM FIVE

20. MSC METOC staff, NSWG1





Data Sources, cont. – Case Study Interviews

- 1. LT Jim Ford, NSWG1, Senior Intelligence Officer for NSWTG-Cent in OIF; 08/05/03 & 10/15/03
- 2. LT Jon Lindsay, NSWG1, MSC support; multiple times from 10/20/03 to present
- 3. Doug Iovinelli, NSWG1, MSC support, December 2003
- 4. CDR Brad Voigt, Officer in Command, Mission Support Center; 01/13/04 (informal)
- 5. LT Brady Babcock, NSWG1 Staff cryptologist and acting N2; 01/13/04 (informal)
- 6. LCDR Banks, JFCOM SEAL Planner during OIF; November 2003
- 7. LTC (Ret) Bennet, JFCOM Special Forces Ops/Plans Trainer during OIF; November 2003
- 8. LTC Burkland, JFCOM Intelligence Trainer during OIF; November 2003
- 9. LTC Hept, JFCOM Strategic Studies; November 2003
- 10. MC Spenser, JFCOM SEAL Ops/IM Trainer during OIF; November 2003
- 11. MSG Richardson, JFCOM Ranger Ops/IM Trainer during OIF; November 2003
- 12. SGM Teske, JFCOM Ranger Ops/IM Trainer during OIF; November 2003
- 13. Jon Cannon, NSW Task Unit Commander during OEF; April 2004





Data Sources, cont. – After-Action Reports and Briefings

- 1. NSW Warsaw Network Centric Event UNCLAS, LT Jon Lindsay; 22 June 2003
- 2. Naval Special Warfare's Mission Support Center, NSW; no date
- 3. Naval Special Warfare Group ONE Mission Support Center Vanguard of Naval Special Warfare's Network Centric Enterprise, LT Jim Ford; 28 August 2002
- Sombrero "A3" Uniting Operations and Intelligence via the Third Wave, LT Jim Ford & LCDR Ken Elkern; 10 July 2002
- 5. US Naval Special Warfare: Implementing Network-Centric Concepts, LCDR Ken Elkern; November 2003
- 6. The Lessons of the Iraq War: Main Report, Eleventh Working Draft, Anthony H. Cordesman & Arleigh A. Burke, CSIS; 21 July 2003



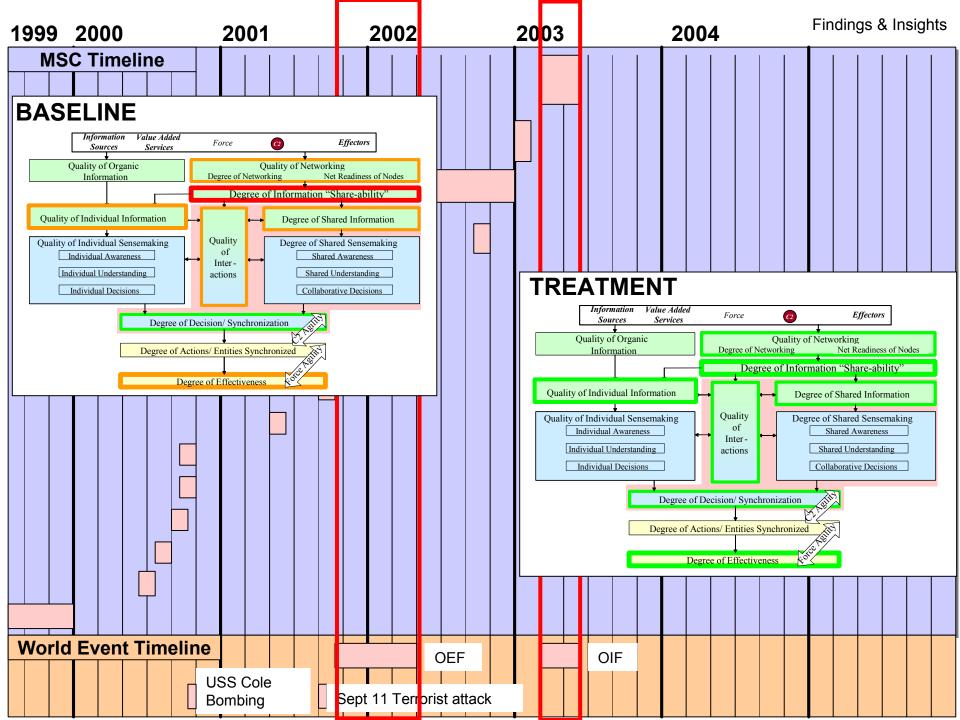


Findings/Insights

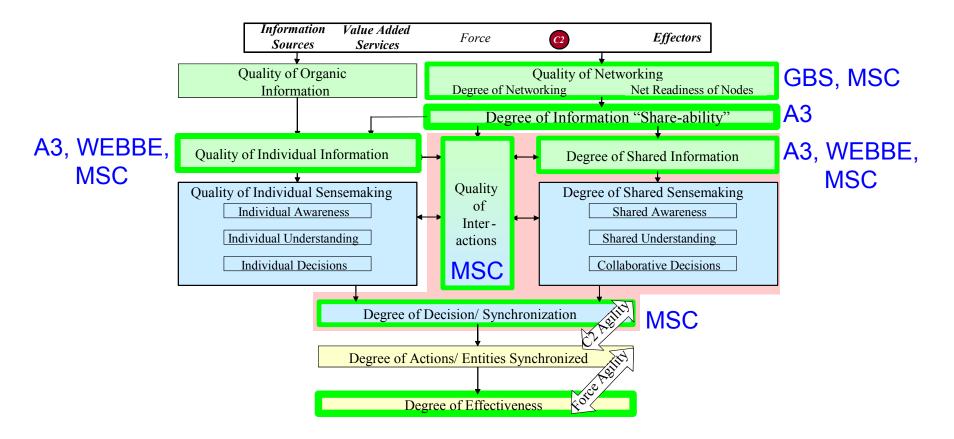
- > Analysis of data collected has shown demonstrable impacts on:
 - Quality of Networking
 - Degree of Information Share-ability
 - Quality of Individual Information
 - Degree of Shared Information
 - Quality of Interactions
 - Degree of Decision Making (for mission planning)
- Inferences based on data analysis have also been made to tie in impacts on Degree of Effectiveness
- Specific vignettes and stories have been embedded with analysis, findings and impacts to illustrate impacts







Bottom Line Impacts

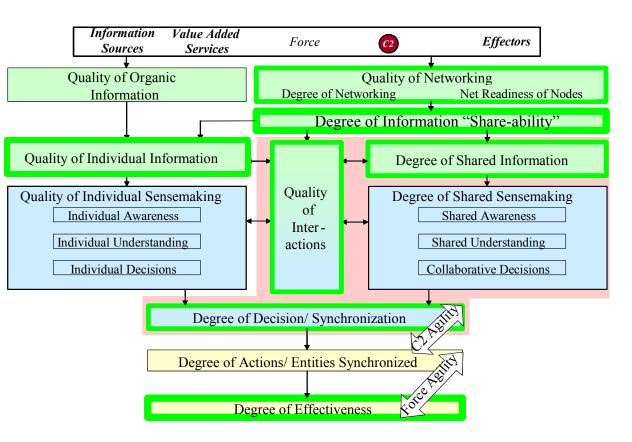




The evolution of the MSC between OEF and OIF...

...demonstrated improvements in the *Quality* of Networking...

The Story Line

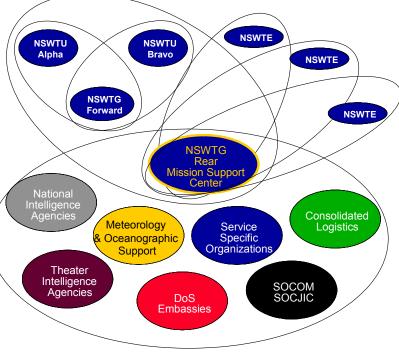






Improvements in the "Quality of Networking"

- <u>Connectivity</u> changes within the MSC between OEF and OIF
 - Reservist (INTEL Corp. employee) upgraded MSC LAN
 - MSC and GBS Program Office identified process for MSC to leverage downtime and available bandwidth of GBS system (NSW had already fielded 9 GBS Transportable Ground Receiver Suites May 2001)
 - Operators trained on WEBBE for instant messaging and chat functionality during Millennium Challenge
- Changes in MSC's <u>Reach</u> between OEF and OIF
 - Intelligence Community liaisons operated within MSC for OIF
 - MSC designated "Naval Surface Warfare Task Group Rear" (even though it was in CONUS). This enabled it to formally generate RFIs which could be designated hi priority

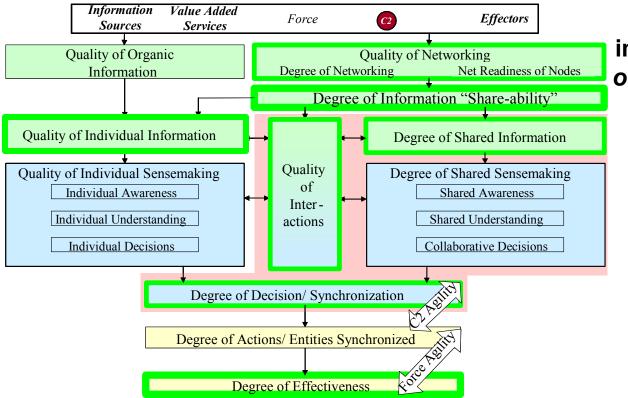




The evolution of the MSC between OEF and OIF...

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...demonstrated improvements in the *Quality* of Networking...

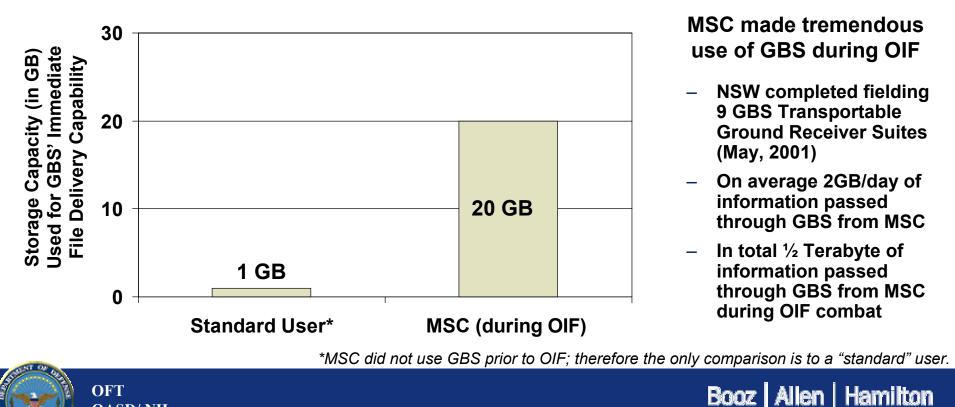


... demonstrated improvements in the Degree of Information Shareability...



Improvements in the Degree of Information Shareability

- MSC increased the <u>Ease of Use</u> by becoming a part of the official RFI process and by having staff forward deployed familiar with the MSC's capabilities
- MSC used GBS as a surrogate FTP site to increase the <u>Quantity of Posted</u> <u>Information</u>

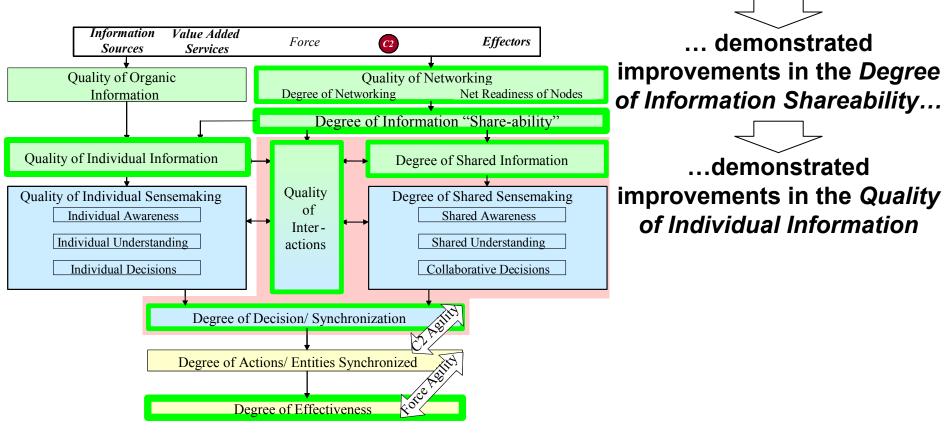


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The evolution of the MSC between OEF and OIF...

The Story Line

...demonstrated improvements in the *Quality* of Networking...







The evolution of the MSC between OEF and OIF...

The Story Line

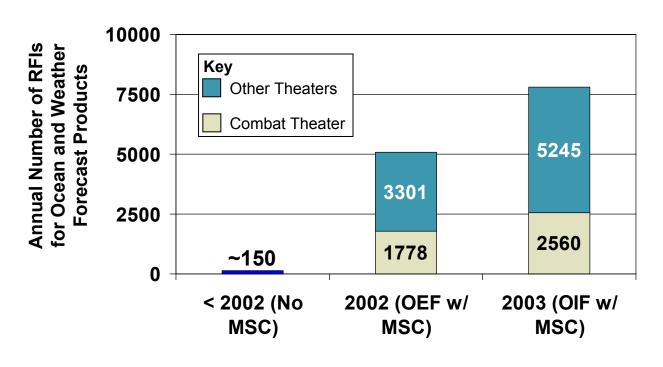
...demonstrated improvements in the *Quality* of Networking...

Value Added Information ... demonstrated Effectors Force *C2* Sources Services improvements in the *Degree* **Ouality of Organic Ouality of Networking** Degree of Networking Net Readiness of Nodes Information of Information Shareability... Degree of Information "Share-ability' Quality of Individual Information Degree of Shared Information ...demonstrated Quality improvements in the *Quality* Quality of Individual Sensemaking Degree of Shared Sensemaking of Individual Awareness Shared Awareness of Individual Information Inter-Individual Understanding Shared Understanding actions Individual Decisions **Collaborative Decisions** ...demonstrated Agility improvements Quality of Degree of Decision/ Synchronization Interaction. Kelliny Degree of Actions/ Entities Synchronized KOTCE' Degree of Effectiveness



Improved Quality of Interactions

The prompt performance of the MSC led to dramatic increases in the number of RFIs – demonstrating both an improved Quantity, and anecdotally, and improved Quality



OFT

OASD/ NII

MSC response to the increased RFIs resulted in higher quantity (see METOC RFIs at left)...

...and higher level of quality

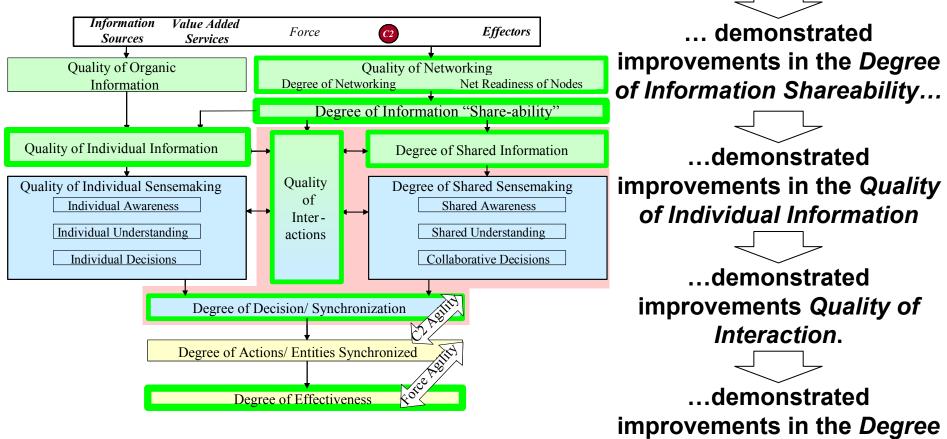
- MSC provided "...state of the art" products
- During exercises, commander required that ONLY products from the MSC-METOC be briefed in the command center



The evolution of the MSC between OEF and OIF...

The Story Line

...demonstrated improvements in the *Quality* of Networking...

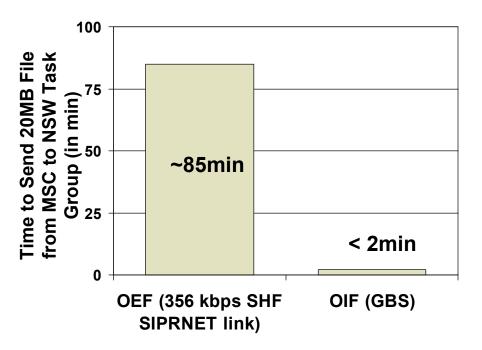


of Shared Information

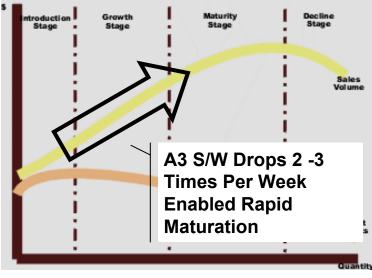


Improvements in the Degree of Shared Information (Time Currency of Data)

Access to GBS Enabled MSC to Provide Rapid Data Transfer to NSW TG FWD



Access to GBS Enabled MSC to Rapidly Update A3 based on Real Time FWD Analyst Needs



Notional Product Life Cycle Curve*



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Improvements in the Degree of Shared Information (Quality and

			209100					<u>Quant</u>			
Quantity)		17 .	JUN	18 .	JUN	19 .	JUN	20 JUN			
		00Z-	12Z-	00Z-	12Z-	00Z-	12Z-	00Z-	12Z-		
		12Z	00Z	12Z	00Z	12Z	00Z	12Z	00Z		
	PERSONNEL	Т	Т	Т	Т	Т	Т	Т	Т		
	HELO		V	V	V	V	V	V	V		
	MK-V				W		W		W		
	RIB				W		W		W		
	SDV				S	S	S	S	S		
TS TB F HZ DU C S =	 Surface Winds (KTS) Visibility (NM) Temperature (F) Rainshowers Thunderstorm Turbulence Fog Haze Dust Ceilings Sea Heights Sea State 	W: VRB 5 BCMG NW 10-15 BY 12Z V: 4-6 HZ DCRG 1-3 BLDU T: 99/83 SST: 80-83 S: 1-2, 2-4 SEC SS: 2		W: NW 13- NW 15-200 12Z V: 3-5 HZ, BLDU T: 99/85 SST: 80-83 S: 1-2, INC 4 SEC BY SS: 2-3	G25 BY OCNL 1-3 RG 2-4, 2-	W: NW 13- NW 15-200 12Z V: 3-5 HZ, BLDU T: 97/83 SST: 80-83 S: 2-4, 3-5 SS: 2-3	625 BY OCNL 1-3	W: NW 13-18 BCMG NW 15-20G25 BY 12Z V: 3-5 HZ, OCNL 1-3 BLDU T: 98/81 SST: 80-83 S: 2-4, 3-5 SEC SS: 2-3			
SS = Sea State HI = Heat Index = No Impact = Marginal Impact = Significant Impact											

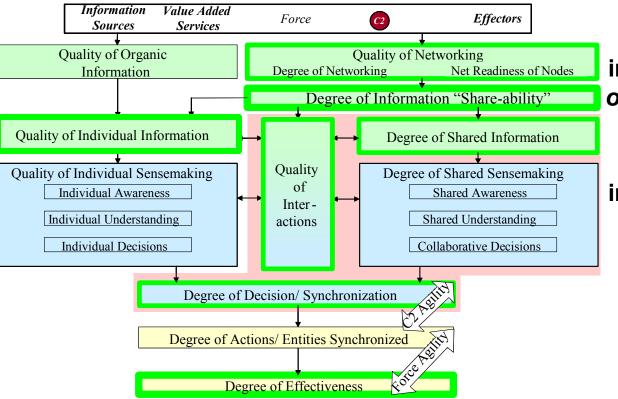


The evolution of the MSC between OEF and OIF...

The Story Line

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These improvements contributed to an increased

Degree of Decision Making (Mission Planning) and

increased Degree of Effectiveness.

...demonstrated improvements in the *Quality* of Networking...

... demonstrated improvements in the Degree of Information Shareability...

...demonstrated improvements in the Quality of Individual Information

...demonstrated improvements *Quality* of *Interaction*.

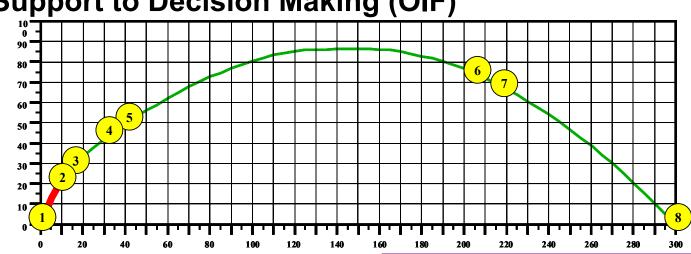
...demonstrated improvements in the Degree of Shared Information

High Support to Decision Making (OEF)

Real-time		
Near-Real time (2-3 minutes)	Tracked SA with digital operational picture of Afghanistan, updated digitally	
Delayed		Tracked SA with 40 maps of southern Afghanistan with pins & stickies updated with position reports

3-man Task Unit TOC Supported by MSC 75-man USMC MEU Landing Force Operations Center





High Support to Decision Making (OIF)

Timeline:

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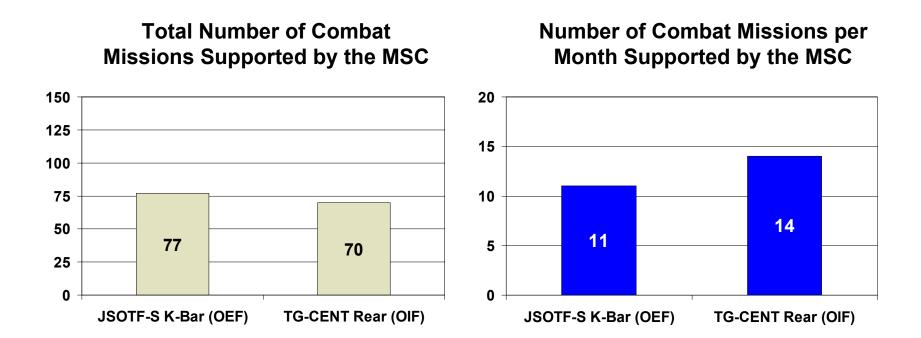
OASD/ NII

- 1. 0:00 TBM Launch
- 2. 0:30 Detect
- 3. 0:45 Initial Launch Report
- 4. 1:30 Impact Point Prediction
- 5. 1:45 "Lightning" Alert/data relayed to MSC
- 6. 4:00 HPAC product sent forward
- 7. 4:15 Decision made to stay in/exit from MOPP Condition
- 8. 6:00 Impact time





Degree of Effectiveness (Missions Supported by MSC)







Overall Impact – NSWG1 Perspective

Enhanced Command and Control (NSWTG)

- Increased mobility of the commander and his key battle staff
- Effective information management provided commander with rapid, tailored, decision quality information
- Increased global situational awareness of the operational commander
- Increased consistency of global planning efforts
- Increased survivability reduced force protection concerns
- Increased Mission Unit Effectiveness (NSWTU)
 - Increased quality of information available <u>earlier</u> in the planning process
 - Increased situational awareness at the unit level
 - Increased time for mission planning and rehearsal
 - Reduced risk increased probability of mission success

Bottom Line:

- Altered initial conditions
- Significantly increased combat power by increasing the number of combat missions that could be simultaneously conducted world wide
- Decisively impacted events in Global War on Terrorism

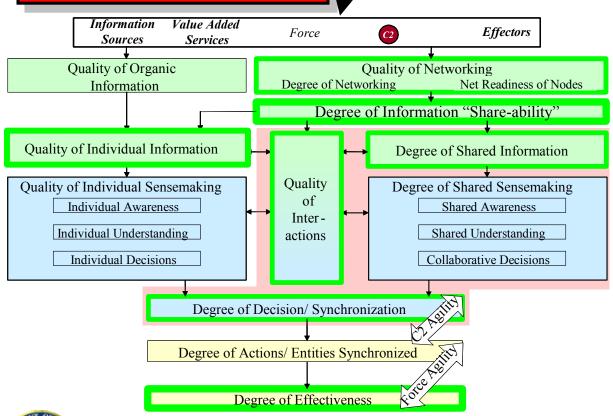


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The Bottom Line

MSC Increased the Operational Tempo in OIF: - MSC continued to work while Command Staff moved - Reduced time to take down and set up Command Staff



A3 replaces numerous disparate applications that do not communicate with capability to store, retrieve intel data, and generate tailored reports

Webbe allows for quick and secure one to one communication with units inaccessible via traditional comms (i.e., Voice)

GBS allows quick delivery of large software packages or packets of intel directly to individual stations or servers



Analysis of After-Action Reports

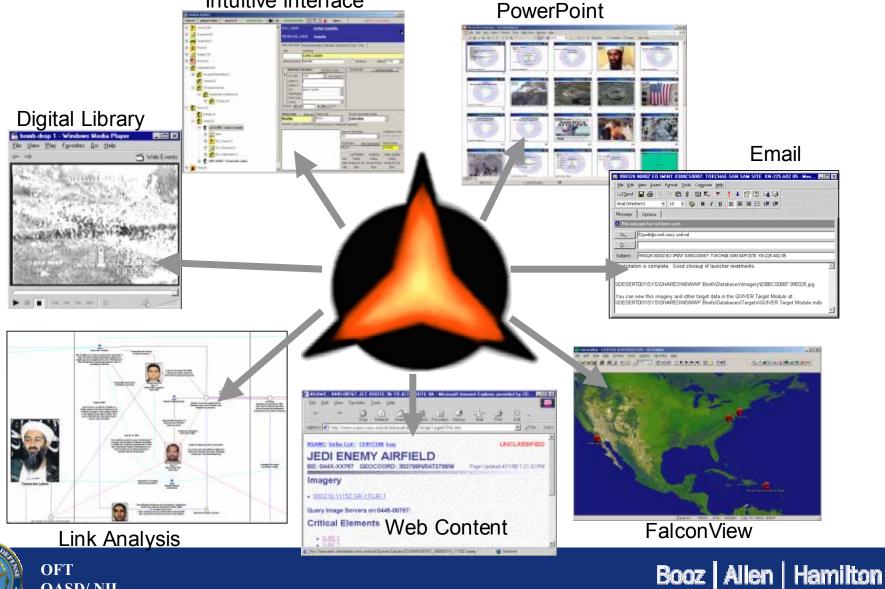
Current data consists of written statements and recorded answers to interview questions. The following table shows the relationship of data from specific individuals to referenced concepts from the Conceptual framework. The bottom of the table shows a color depiction of the aggregated percentage of references to the specific framework concept.

	Person #																			
<u>Legend</u>																				
< 5 % - RED																				ð
5 – 10 % - YELLOW																				Jat∈
11 - 15 % - GREEN																				Leç
> 15% - BLUE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	Aggregated
Quality of Organic Information																				
Quality of Networking	X							X		X	Х		Х	Х			Х		Х	
Quality of Indiv Information			Х						Х											
Degree of Information Shareability	х	Х	Х	Х	х	X				х			Х	Х	х	Х		Х	Х	
Quality of Individual Information					х				Х											
Quality of Individual Sensemaking																				
Degree of Shared Information					х															
Degree of Shared Sensemaking			Х	Х		Х				Х					Х			Х		
DoSS - Shared Awareness			Х	Х		Х						Х		Х				Х	X	
DoSS - Shared Understanding														Х						
Quality of Interactions			X		Х	X	Х			X	X	X				Х	Х	X	X	
Degree of Decision/Synchronization	Х		Х		х	Х	Х						Х							



A3 Data Fusion Flexibility Intuitive Interface

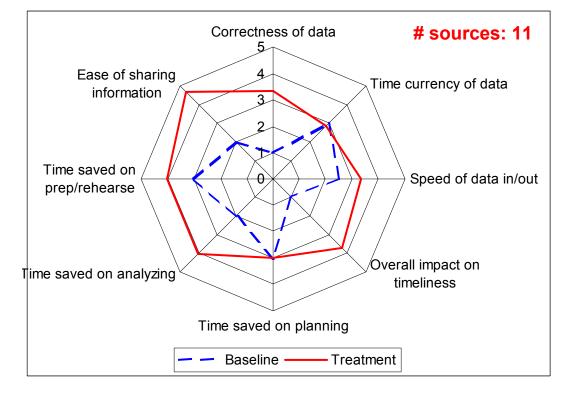
OASD/ NII



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Overview of Perceived Value of Systems – A3

- Rapid data assimilation
- Overlay national, theater, and local intelligence and databases
- Creates automatically tailored reports
- Allowed analysts more time to think and less time "cutting and pasting"

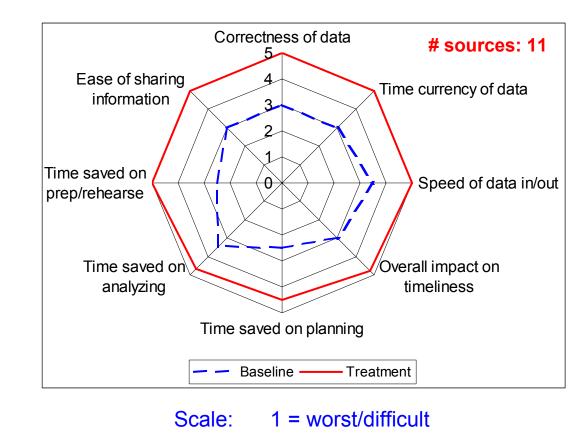


Scale: 1 = worst/difficult 5 = best/easiest



Overview of Perceived Value of Systems – WEBBE

- Instant communications with chain-of-command
- Verbalize orders and record all directives simultaneously
- Communicate simultaneously with multiple, geographically dispersed personnel
- Collaboration
 - application design
 - code debugging
- Also used for near real-time administrative help, even to other regions

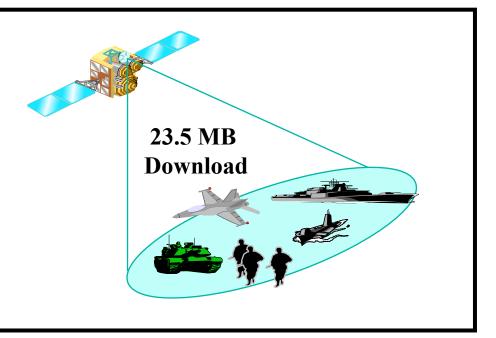


5 = best/easiest



GBS: Faster Data Transfer

- Enabled <u>dynamic</u> file transfer (FTP) of large files up to ~600 MB to forward deployed units via CONUS Satellite Ground Station
- Files transferred faster from Satellite to forward units than from start point via SIPRNET to ground station
- Biggest challenges: reliability of remote broadcast manager (RBM), finding files sent, and disk space on remote servers





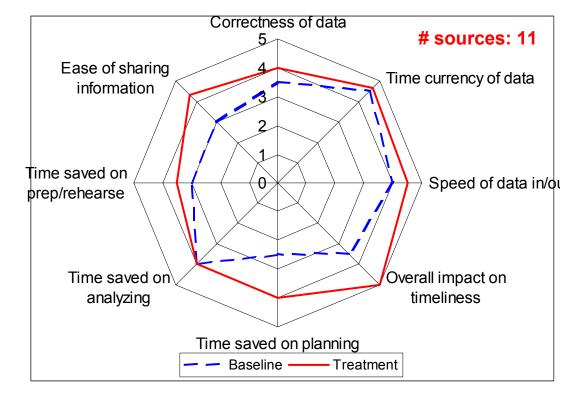
Example: Raw image was 3 Gigabytes 130 Meg cropped image sent via GBS





Overview of Perceived Value of Systems – GBS

- Data transfer accomplished via GBS:
 - METOC
 - Imagery
 - Custom-tailored Orders-of-Battle
 - Near-real-time A3 uploads

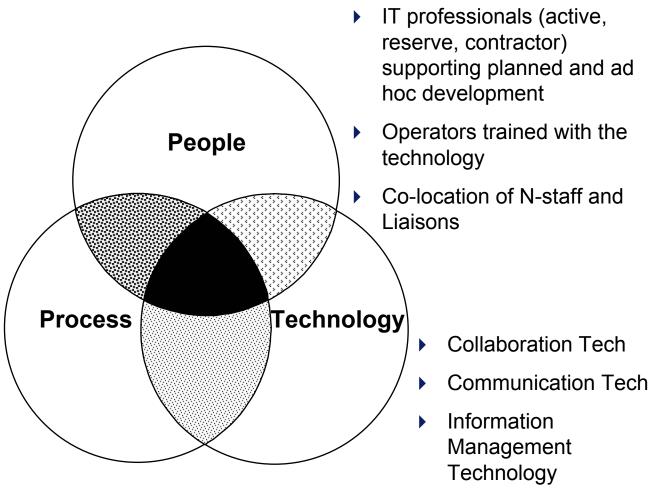


Scale: 1 = worst/difficult 5 = best/easiest



MSC Factors for Success

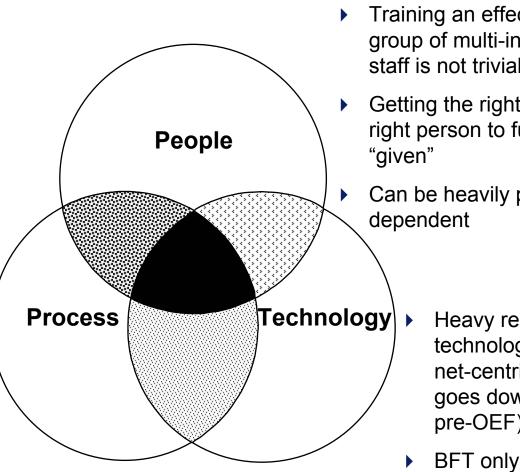
- Part of Official Planning and RFI Process
- Developed Process for close interaction between forward and rear personnel





MSC Inhibitors of Success

- MSC personnel involved in most aspects, but rarely had "big picture" information to provide all data necessary
- Difficult to deal with multiple versions of the same data



- Training an effective core group of multi-intelligence staff is not trivial
- Getting the right RFI to the right person to fulfill is not a
- Can be heavily personality

- Heavy reliance on technology – no longer net-centric if the net goes down (back to pre-OEF)
- BFT only works when it's turned on





Overall Impact

The MSC takes full advantage of its extensive access to government agencies and intelligence assets. Bandwidth limitations are continually overcome using innovative technological solutions, and the amount of useful, relevant data sent to forward commanders continues to increase. Intelligence, METOC, force tracking, and operational planning products are continually developed; packaged to conform to technological and bandwidth constraints forward; and formatted and sent in a user-friendly manner.

> - CAPT David Ozeroff, USNR, Senior Battle Watch Captain, Mission Support Center

While I'm certain that the current MSC staff has volumes of information regarding the effectiveness of the the MSC in supporting combat operations, I can tell you from personal experience that the **training and early use of the MSC paid off** at the outset of OEF. ... MSC was tasked to develop target sets to build a "SOF Campaign" to defeat terrorist networks in the CENTCOM AOR. In less than 72 hours, the MSC staff produced CONOPS for three separate regional mission sets to defeat the Al Qaeda network in both Afghanistan and the Horn of Africa. Three mission sets were briefed to and approved by General Holland, (Commander, US Special Operations Command) and to Secretary of Defense Rumsfeld, who ultimately approved two of the three, less than a week from initial tasking. The success of the MSC in producing time sensitive planning products to both NSW operators and SECDEF were critical to not only NSW forces, but proved to be the genesis of USSOCOM's designation as the supported commander in the Global War on Terrorism.

- Commander Jason Washabaugh, USN, SOCOM

Booz Allen Hamilton



Outline

- Background
 - Objectives of research
 - Scope and assumptions
 - Approach (solution strategy)
 - Discuss data collection and data analysis plan
- Data Analysis
- Discuss implications for NCO

Recommendations (and Musings)





"Hard to Quantify" Impacts

- Numbers and types of different missions (whether conducted or not) were not necessarily quantified
- Different methods of reach-back (e.g., MSC or other) bottom line is that in the heat of battle, whatever needs to be done will get done regardless of network
- Social domain (reach-back or MSC) spans beyond the social domain aspects of the Conceptual Framework and cross multiple domains
 - Includes Quality of Networking, Quality of Individual Information and Individual Sense-making aspects and other command and control aspects
- Leadership domain was not expressly considered



What We'd Do Differently

- Expand scope of case study to include aspects of:
 - Leadership:
 - Include definition and questions targeted at how leadership was or wasn't a factor in mission planning
 - Assess leadership impact on NCO
 - Social Domain:
 - Importance (especially within MSC) and detail how aspects of the social domain factored into better mission planning
 - Assess social domain impact on NCO
- Expand baseline to provide better understandings of NCO to fully quantify metrics for baseline vs. treatment



Lessons Learned

- Nature of SOF deployment impacted ability to perform data collection

 key personnel deployed throughout the case study
- Understanding of Conceptual Framework and how it might need to be changed – as evidenced in our "hard to quantify" aspects of the case study for certain technologies and processes
- Educational challenges
 - Learning and understanding NSWG1 lexicon, activities, processes, functions
 - Interpreting this lexicon into the CF





Strengths and Weaknesses of the CF

Strengths

Ability to take a groups activities, processes and functions and demonstrate how they were/weren't network centric

<u>Weaknesses</u>

 Ability to stratify inputs to a certain attribute is difficult – many activities and processes span multiple attributes



