

New Directions for Mine Warfare



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UNCLASSIFIED

Mine Warfare Association
08 May 2007



Leading the Way



- Global MIW CONOPS will allow Naval forces to seize initiative & shape battle space
- Training Continuum will instill integrated, aligned training at every echelon
- Effects-based metrics and operational analysis will provide fleet warfighting readiness assessment
- Stretching MIW capacity through innovative, forward leaning force structure and posture
- Fleet Collaborative Team affords forum for fleet alignment and “voice”



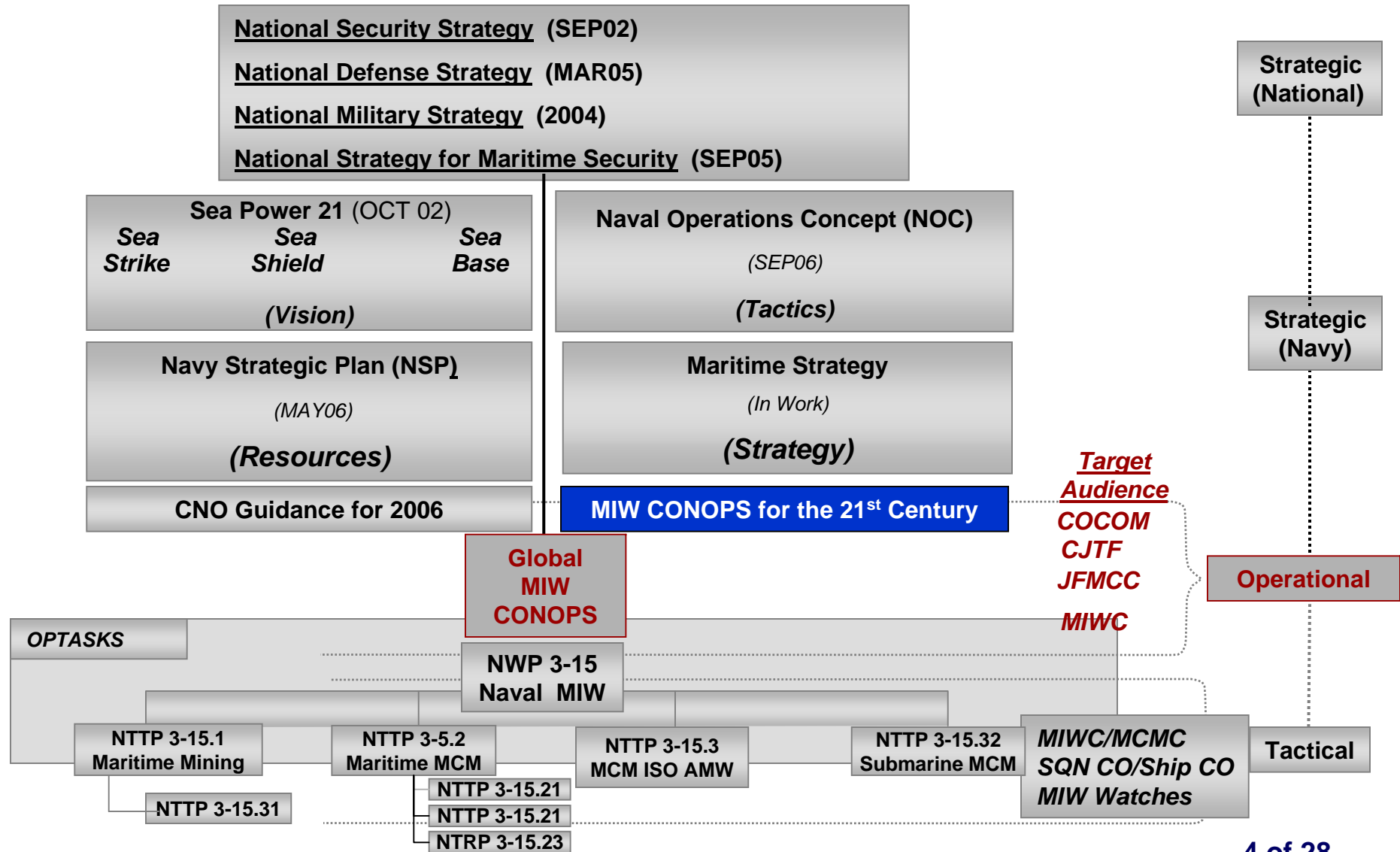
Agenda



- Doctrine and TTP
- Integrated Training Continuum
- Metrics-based Assessments
- Warfighting Readiness
- Fleet Integration



Global MIW CONOPS





Full Spectrum Mine Warfare



- Campaign-based operational concept for defeating minefields and employing mines
 - Operational focus on shaping the operational environment and seizing the initiative
 - Doctrinal foundation for future MIW operations and platforms
- Fills MIWIP identified gap in Operational level CONOPS
 - FSMIW concept will be the foundation for Global MIW CONOPS
- Provides Joint context, and link with higher level doctrine using a campaign approach

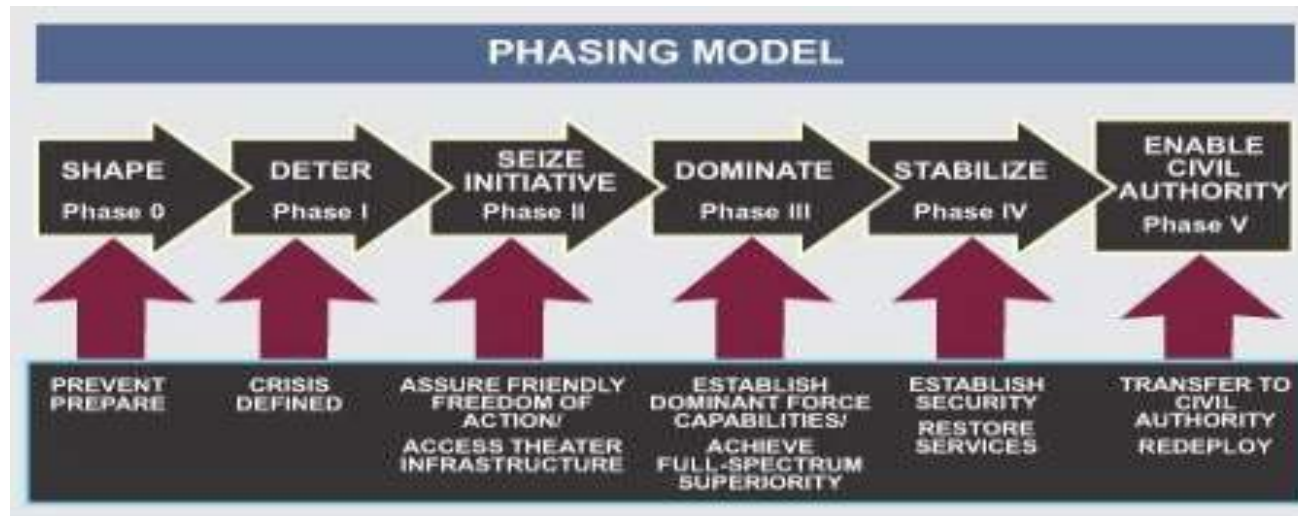




FSMIW Objectives



- Joint Campaign integration



- Effects-Based
 - Effects accomplished with kinetic or non-kinetic means
 - Defeat vice Destroy
- Simultaneity and Depth
 - Engage the enemy throughout the campaign in multiple domains

Seize the Initiative & Shape the Battle Space



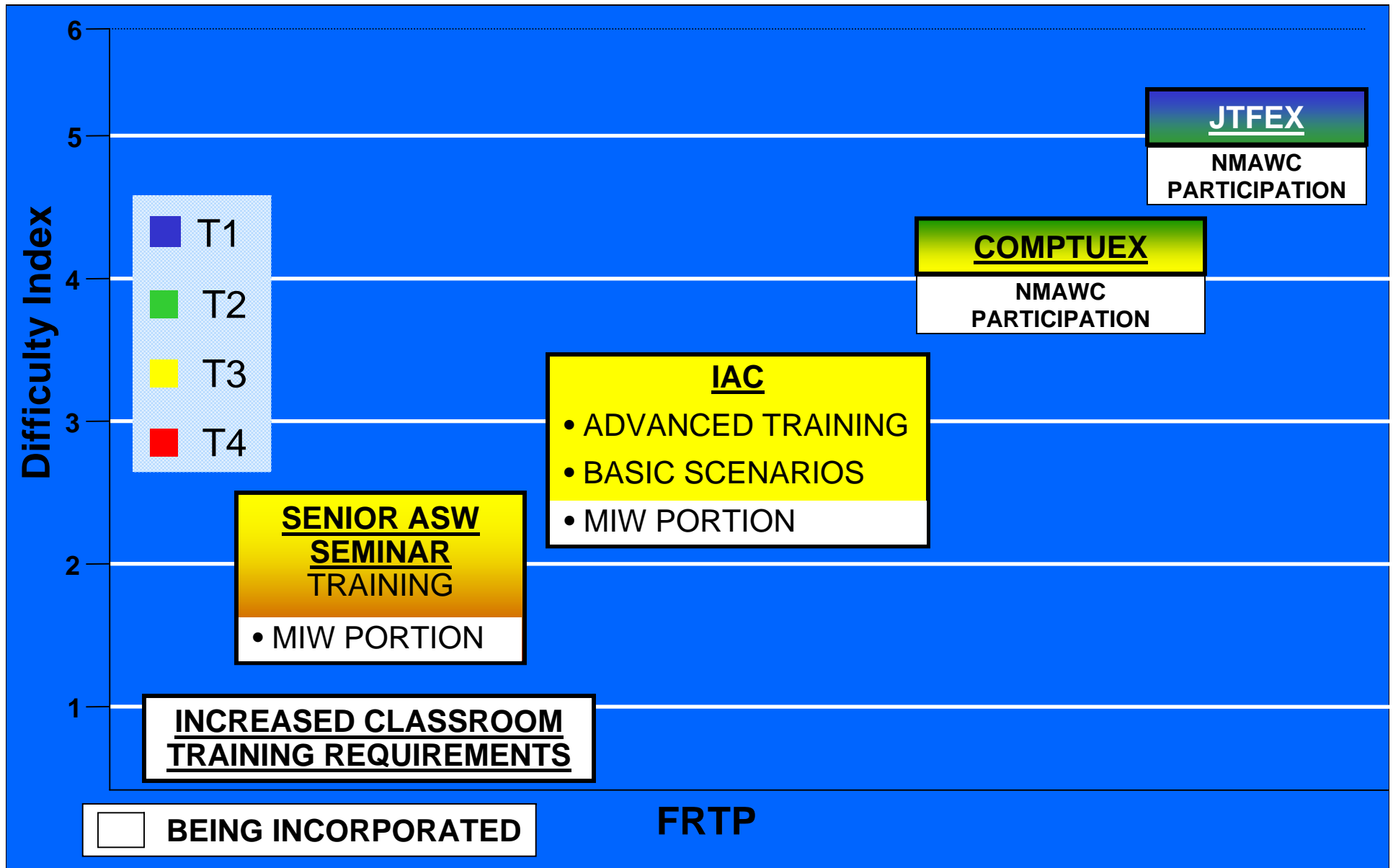
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- **Integrated Training Continuum**
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Strike Group Training Continuum





Strike Group Training

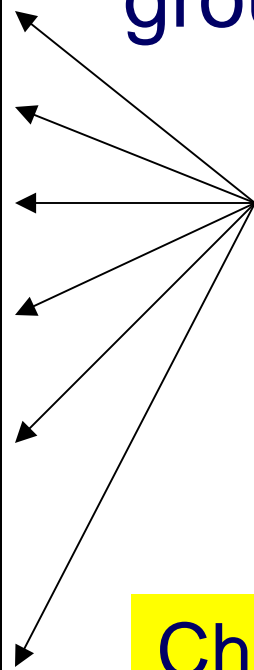


NMAWC'S MIW assessors will be part of every facet of strike group MIW training

Breaking new ground with deploying strike groups.

Change Training *Zeitgeist*

CSG/ESG TRAINING		
PRE-NMAWC	IDRC TRAINING	POST NMAWC
	SENIOR ASW SEMINAR	X
	INTEGRATED ASW CRX	X
	SYNTHETIC TRAINING	X
	COMPTUEX	X
	JTFEX	X
X	FLEET CERTIFICATION	X
	TRAINING FEEDBACK	X





MCMRON Training

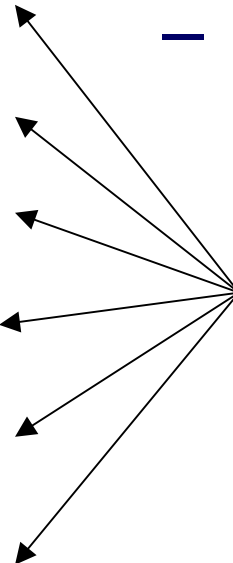


MCMRON TRAINING		
PRE-NMAWC	GOMEX	NEXT
X	INTEGRATED	X
	NMETL DRIVEN	X
	DATA COLLECTED	X
	R & A	X
	ASSESSORS ONBD SHIPS	X
	FLEET CERTIFICATIONS	X
	TRAINING FEEDBACK	X

NMAWC integration adds

- Tools
- Experience
- Manpower

Firsts during GOMEX 07-2





Agenda



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Integrated Fleet Assessments



- Effects-based assessments
 - First step towards defining capability and capacity gaps
 - Provide data-driven analysis to improve MIW
- End product
 - Assessment of Integrated MIW Readiness
 - Address MIW solutions through capability improvement strategies
 - Provide results that can be used to improve operations, doctrine/TTP, training, and acquisition

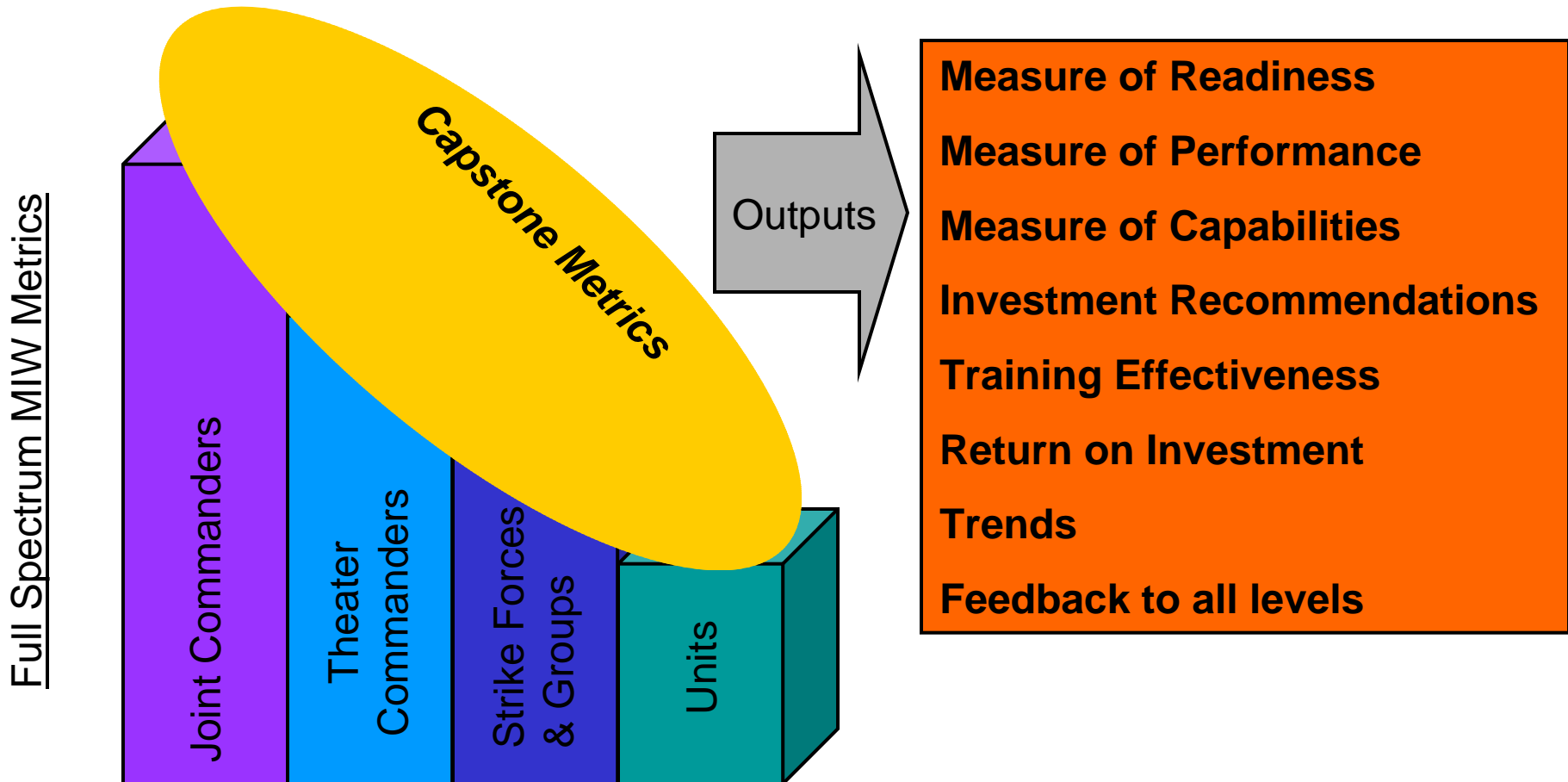


Full Court Assessment

- Command Center
 - 1 x Post-Command O-5/6 (MIWC/MCMC)
 - 1 x O-4 (AO/staff/watch officer)
 - 2 x E-7/8/9, O-3 (Staff/watch officer support)
- SMCM
 - 1 x E-7/8/9, O-3/4
- AMCM
 - 2 x E-7/8/9, O-3/4
- UMCM
 - 2 x E-7/8/9, O-3 (EOD)
- Ashore Reconstruction & Analysis
 - 3-4 man rotation providing 24/7 support



Metrics Based Analysis





Final Assessment



- Assessment brief to Fleet Commander
- Comparison to MCO
- Capacity and Capability Assessment
- Fleet Implications and Recommendations
- Staffed via Assessment WG and C3F/C2F

Critical Assessment at every echelon using standard metrics



Agenda



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- Metrics-based Assessments
- **Warfighting Readiness**
- Fleet Integration



Preparing to Fight – Today and Tomorrow



- Theater / MHD requirements and footprint allowances are diverse and demanding
- Warfighting structure *phased and scalable* to meet any level of threat employing existing support structures
- Tomorrow's warfighting structure dependent on force structure decision re. organic vs stand-alone capabilities
- Future MIW C2 architecture will be designed to support “plug-and-play” insertion into JFMCC or JTF MHQ w/MOC organizational structure



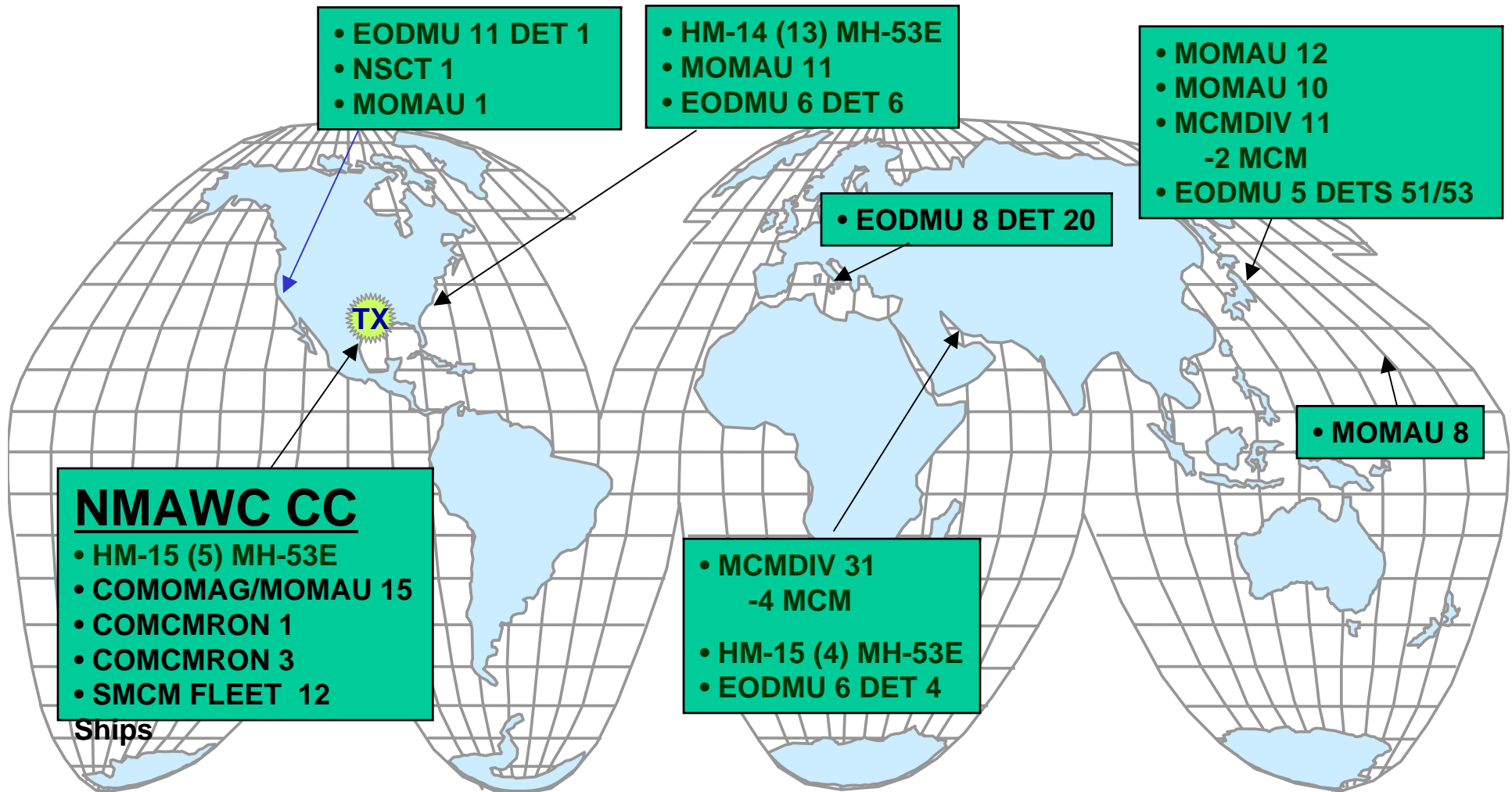
Flexible MIW Command Element



- MIW command elements respond to events in both a “phased” and “scalable” manner
- Phased Response: MIW command elements flow into theater in direct response and in proportion to the threat
- Scalable Response: Provides appropriate level of C2 to support operational commanders. Scalable structure is tailored to fleet requirements, staff location (afloat or ashore), and allowable footprint ([MOC](#), shipboard).



Global MIW Forces





MIW Warfighting Drivers



- Global MIW CONOPS
- MIW Mainstreaming
- MHQ w/ MOC “universal” construct
- MCM Decom & LCS rollout
- MH-53 EOS & MH-60S FOC
- New Technology (such as RMS) capabilities
- Continued 3 & 4 Star interest (\$\$\$)



Alternate Warfighting Paths



Organic

- LCS part of CSG / ESG
- MIWC / MCMC capability embedded within CSG / ESG staffs
- Technology / systems advance to support integration

Stand-alone

- LCS operates independently from CSG / ESG
- Requires MCMC support (MCMRON)
- Limited organic systems



Maritime Homeland Defense/Security C2



- MHD - MCM under control of DoD component
- MHS - MCM under control of USCG / DHS within Incident Command System (ICS) structure
- Shift from HD to HS at the sea buoy
- Acts of Terror utilizing WMD – FBI is lead Federal Agency.

Many agencies & non-traditional Command & Control

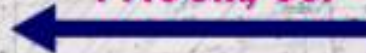
HD vs. HS

Department of Defense

"The SECDEF directs CDRUSNORTHCOM and CDRUSPACOM to conduct MHLA operations and CDRUSNORTHCOM, CDRUSPACOM, CDRUSUSOUTHCOM, CDRUSJFCOM, and CDRUSTRANSCOM to support the DHS and the USCG for MHLA, within their respective AORs."

CJCS EXORD (dtg 011515 June 05)

Homeland Defense
PACAREA Supporting
PACOM, C3F



Homeland Security
PACOM, C3F Supporting
PACAREA

Sea Buoy

NMAWC Concept of Operations

MHD – MIW support IAW "Global MIW CONOPS" (Draft)

MHS – MIW support IAW "CONOPS for Mine Warfare

Activities in support of Maritime Homeland Security" (Draft)

San Francisco Harbor Approaches



Agenda



- Doctrine and TTP
- Integrated Training Continuum
- Metrics-based Assessments
- Warfighting Readiness
- **Fleet Integration**



Fleet Collaborative Team - MIW



- Mine Warfare Improvement Program (MIWIP)
 - Semi-annual meeting of MIW FCT
 - Forum to formally staff issues and deficiencies
- FCT Deliverables
 - Global MIW CONOPS
 - Effects-based metrics
 - Refine IPCCL & develop POM10 Issues

FCT provides forum to develop the 'Voice of the Fleet'



MIW FCT Organization

ESC Members

- COMTHIRDFLT
(SEA SHIELD OA)
- COMUSFLTFORCOM (N8)
- COMUSPACFLT (N8)
- COMNAVSUBFOR
- COMNAVSURFOR
- COMNAVAIRFOR
- COMNETWARCOM
- COMNECC
- COMSECONDFLT
- COMFIFTHFLT
- COMSIXTHFLT (C6F-CNE)
- COMSEVENTHFLT
- CNMOC
- NMAWC (EA)

Working Groups

Doctrine/Tactics

DTE

Assessment

Experimentation

Training

IPE/C3

MHD Cross Functional Team

Mining Cross Functional Team



Integrated Prioritized Capability List



- Draft IPCL includes:
 - Capabilities to counter high priority & emerging threats
 - Both MCO & MHD Capability
 - Both Mining & MCM
- Enabling Technology (Automation & Training)
- Current & Future Force



Key Work List

- Draft Global MIW CONOPS
- Implement MIW Training Continuum
- Develop Full Spectrum MIW Metrics
- Provide Metrics-based Assessment of Fleet's MIW Readiness
- Conduct Gap Analysis / Refine IPCL
- Review/Revamp TTP
- Complete NMAWC Re-alignment & Resourcing
- Complete BRAC Relocation

Comments



**RDML John Christenson
Commander, NMAWC CC**



MIW Warfighting Mission

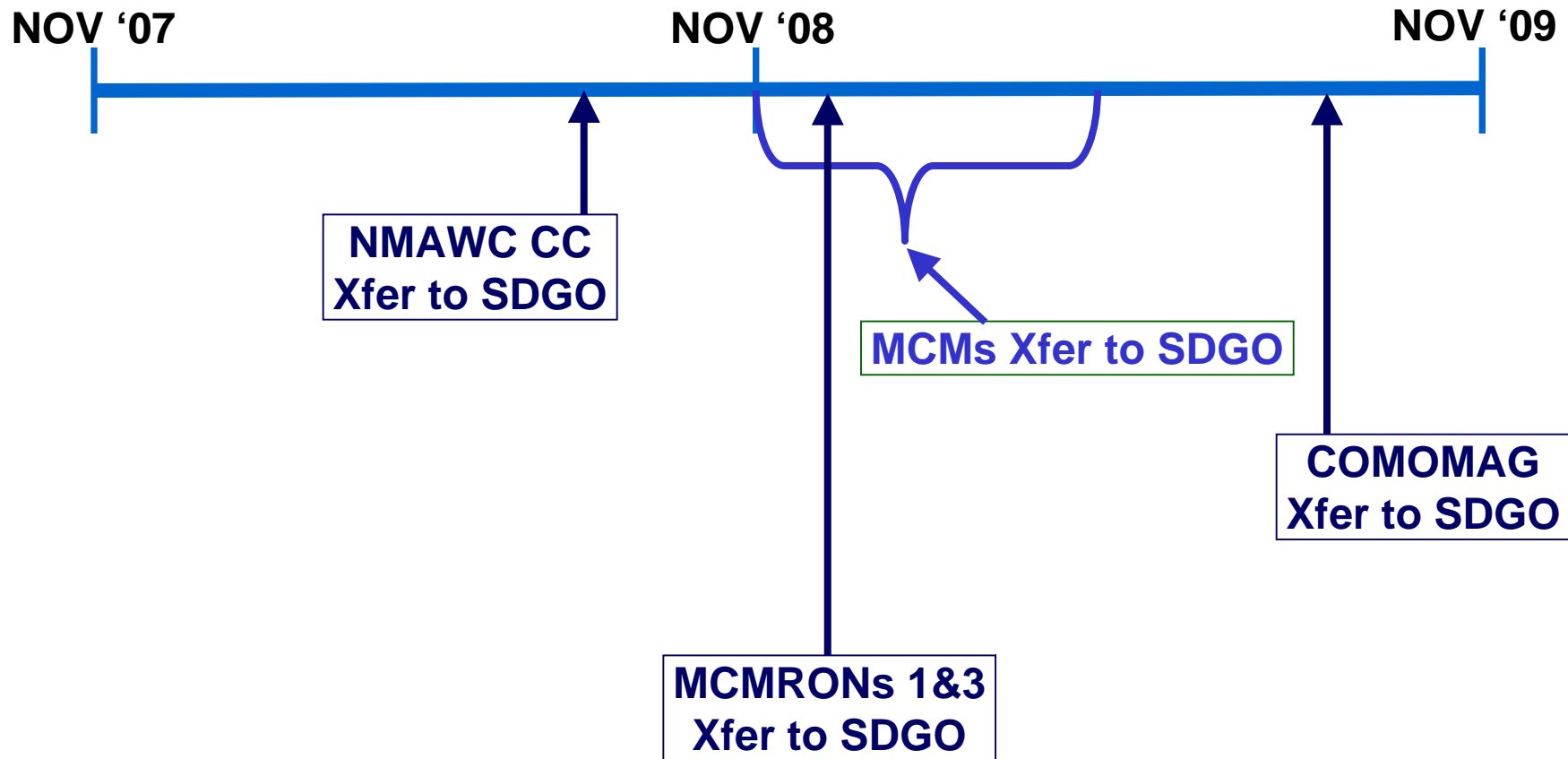


- Support Operational Commanders with: a standing deployable MIW Battle Staff, deployable mine countermeasures staffs, Combatant Commanders' MIW operational and contingency plan development, and maritime component commander and theater staff support.
- “The MIW Battle Staff, as the Naval Component Commander MIW Commander, will execute delegated Operational Control of Air, Surface, and Underwater Mine Countermeasures forces.”

Warfighting structure provides appropriate response to any threat in any theater



Current BRAC Timeline





Doctrine/Tactics

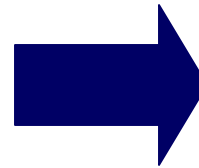
Today

MCM CONOPS

Strategic mining for
CONPLANS/OPLANS

Adapting to MHD &
GWOT

TTP requires refinement
– Based on optimistic
performance
parameters



Goal

Global MIW CONOPS

- Full Spectrum MIW
 - MCM
 - Mining
- Define tactical chain
 - MHQ w/MOC,
Theater
- Integrated MHD

Developing doctrine to
optimize organic force

Improve Doctrine & TTP to elevate warfighting proficiency





Assessment and Metrics

Today

Unit Assessment

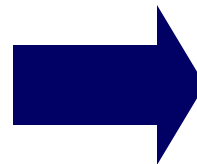
- Formal Instruction
- Watch Station and Team performance
- Weapons Practices Assessment

Standards

- NMETLS

Process not codified

No assessment above unit level



Goal

Full Spectrum MIW Metrics

- Comprehensive
- One-stop Fleet Metrics
- Metric modules, e.g. JFMCC, MIWC, unit

Effects and Process based

- CAPSTONE metrics
- Weighting appropriate to *bottom line* profession
- Goal: provide trend analysis across wide range of exercises

Critical Assessment at every echelon using standard metrics





Certification

- Fleet Training Strategy (FTS)
 - Maritime Security Surge (MS)
 - Focused MIW training as a MS strike group
 - NMETL based
 - Process based
 - Similar to C2X with T-ratings for product
- T-2 Achievement
 - Certification recommendation will be forwarded to C2F/C3F





Potential MOC Structure

