



**Program Executive Office
Command, Control, Communications,
Computers and Intelligence (PEO C4I)**

Maritime Tactical Command and Control (MTC2) Industry Day

**09 November 2011
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Statement A: Approved for public release, distribution is unlimited (1 NOVEMBER 2011)

***Information Dominance
Anytime, Anywhere...***





Agenda



- **Introduction**
 - Opening/Admin - Contracts
- **MTC2 Overview**
- **Current C2 Environment**
- **MTC2 PoR**
- **MTC2 Program Direction**
- **MTC2 Vision**
- **MTC2 Notional Software Package/Delivery Model**
- **MTC2 Architecture**
- **MTC2 Training**
- **MTC2 Notional Program Schedule**
- **Conclusion**
 - Closing Remarks
 - Questions & Answers



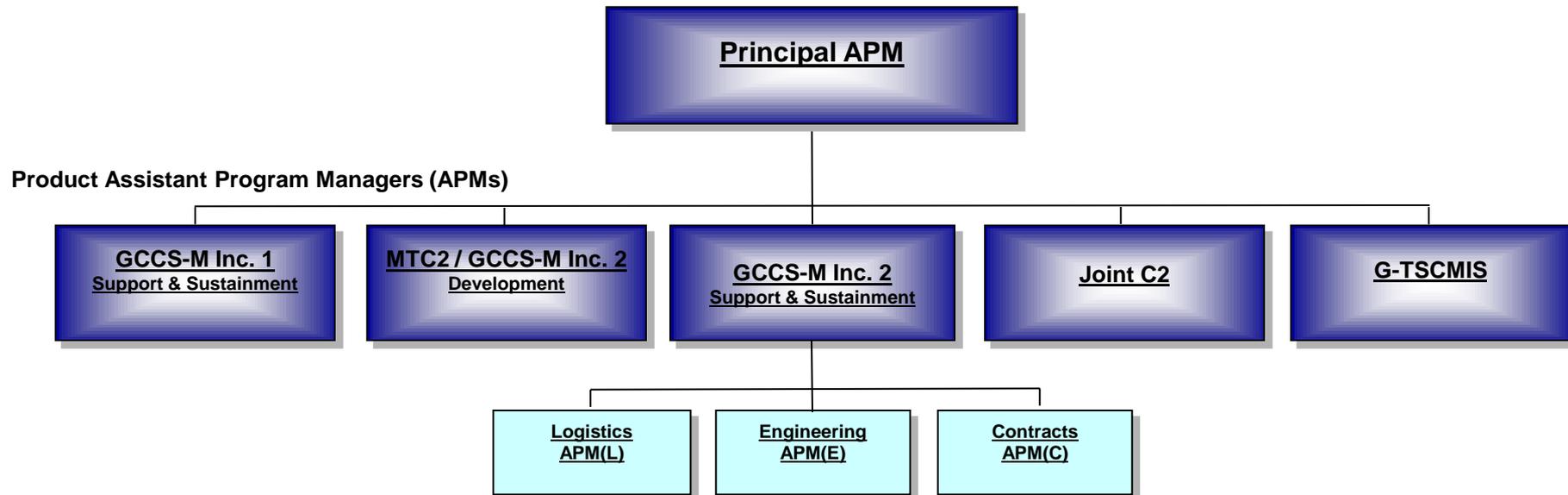
Introductions



- PMW-150 MTC2 Development
 - APM:
 - APM-E:
 - APM-C:
 - COR: YNC Anthony Knight
- SPAWAR 2.0 Contracts
 - PCO (pre-award): Mary O'Hara
 - Contract Specialist: Lindsay Taelman
- SPAWAR 3.0 Legal



PEO C4I Command and Control Systems Program Office (PMW 150) Maritime Command and Control (MC2) Division





Opening

- The goals of today's MTC2 Industry Day are to:
 - Introduce industry and research communities to MTC2's vision and goals
 - Encourage and promote teaming arrangements among potential organizations that have the relevant expertise, facilities, and capabilities for executing strategies responsive to the MTC2 program goals; and
 - Facilitate interaction between investigators who may have capabilities to develop elements of interest and relevance to MTC2's goals
- The Program Office anticipates that this will be the first in a series of MTC2 Industry Days to continually keep industry informed and engaged throughout MTC2's acquisition planning process



Administrative Matters



- For the purposes of today's meeting, the Program Office will not discuss any specific contract strategies that MTC2 is contemplating
- This presentation will be posted to the FBO website by Thursday, November 10, 2011
- Questions and Answers
 - Time will be allotted after the presentation of this brief to answer questions from those in attendance
 - Written questions must be submitted by Thursday, November 17, 2011
 - Send written questions via email to YNC Anthony Knight (COR) at anthony.s.knight@navy.mil
 - Questions received after COB November 17 will not be answered
 - Answers to timely written questions will be posted on the FBO Industry Day website



What is MTC2?

- New Start in FY12 (funded in FY13) as a follow-on to Global Command and Control System Maritime (GCCS-M)
- Software-Only
 - Leverage ISNS/CANES/CCE/NGEN
 - Fields to MOC, Afloat, and Ashore from operational down to tactical level
- Will deliver an entire suite of maritime C2 capabilities
- Addresses identified gaps in operational and tactical Maritime C2 requirements
- MTC2 will leverage capabilities resident in the Command and Control Rapid Prototyping Continuum (C2RPC) effort as well as other Science & Technology (S&T) projects
- Will align to the joint C2 objective architecture, and will augment the joint C2 capabilities delivered at the Force/MOC
- MTC2 is investigating teaming with International Partners in a cooperative development environment

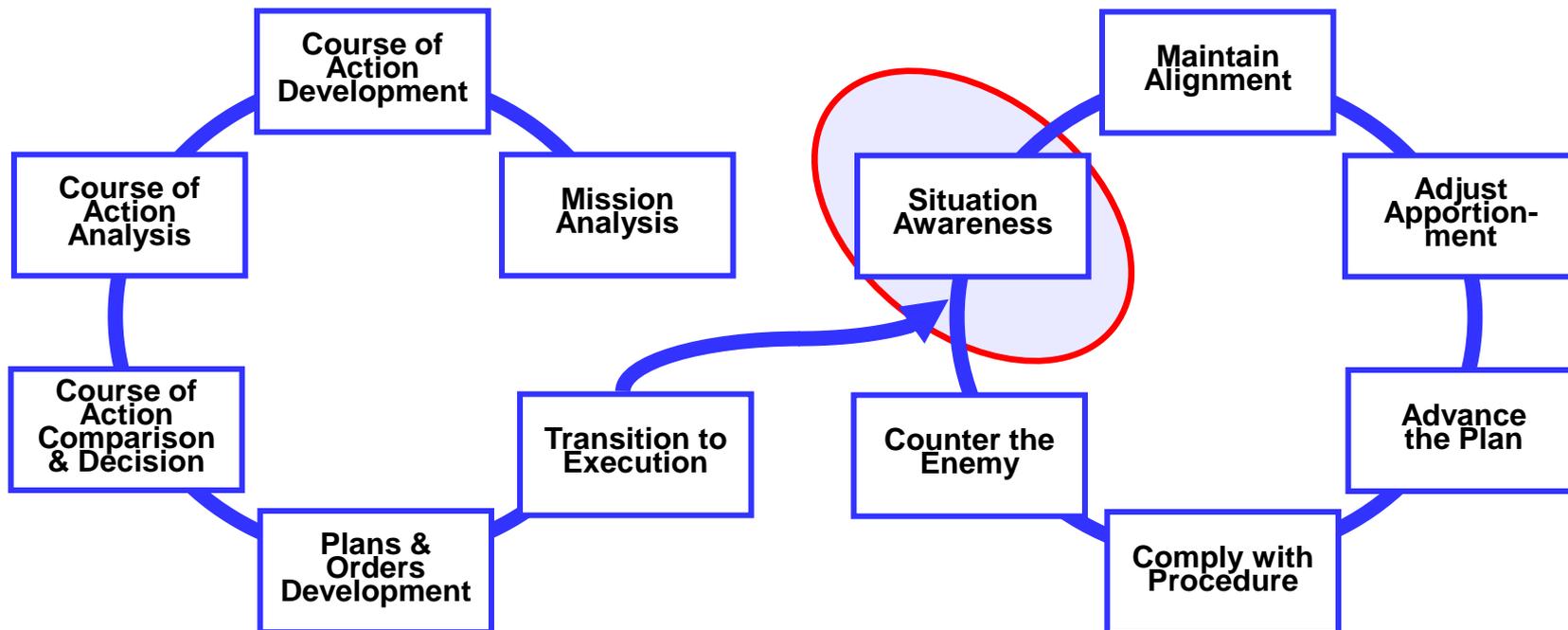


Current C2 Environment

PLANNING

C2 POR Today:
“Tracks on a Map”
Current Ops
(Comms, COP, Intel)

EXECUTION



Navy Planning Process

NWP 5-01 Navy Planning

ADM Willard's "Areas of Control"

*NWP 3-32 Maritime Operations
at the Operational Level of War*

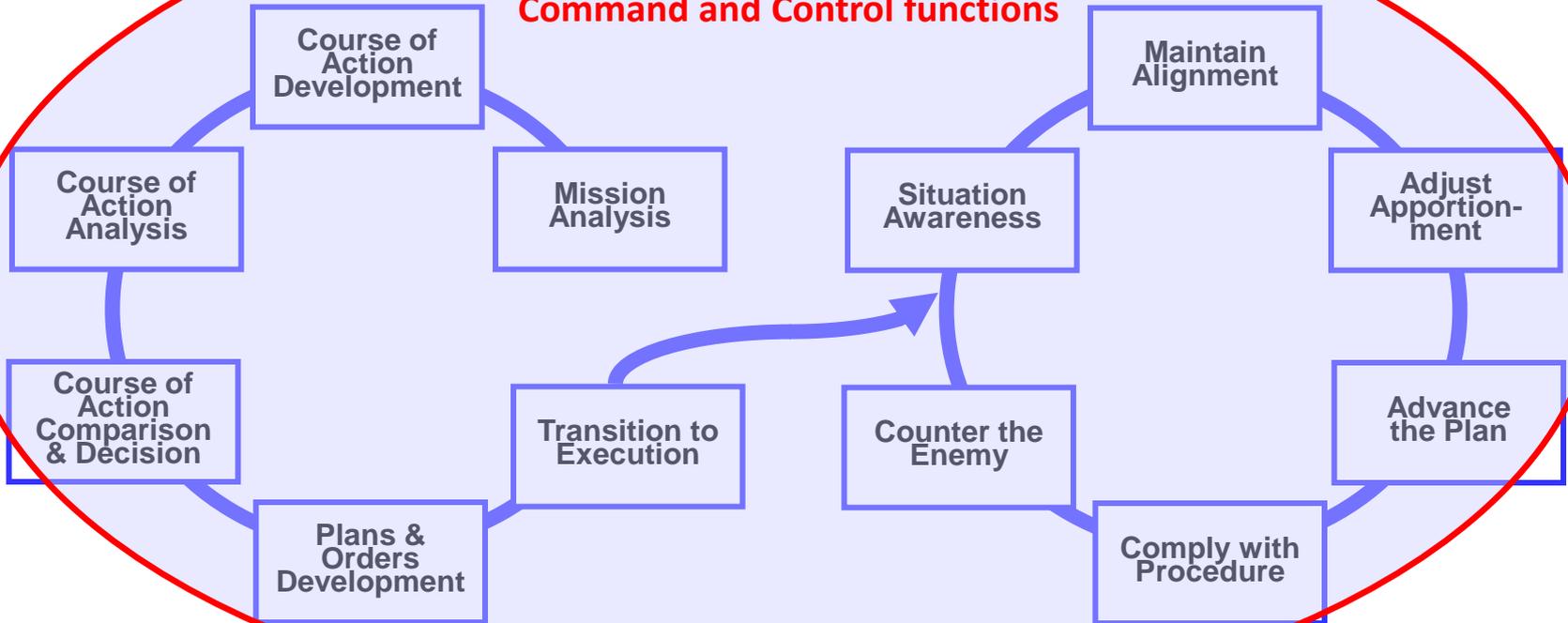


MTC2 PoR

PLANNING

EXECUTION

**Vision for MTC2 POR of tomorrow:
Provide tools to support the entire range of Navy
Command and Control functions**



Navy Planning Process

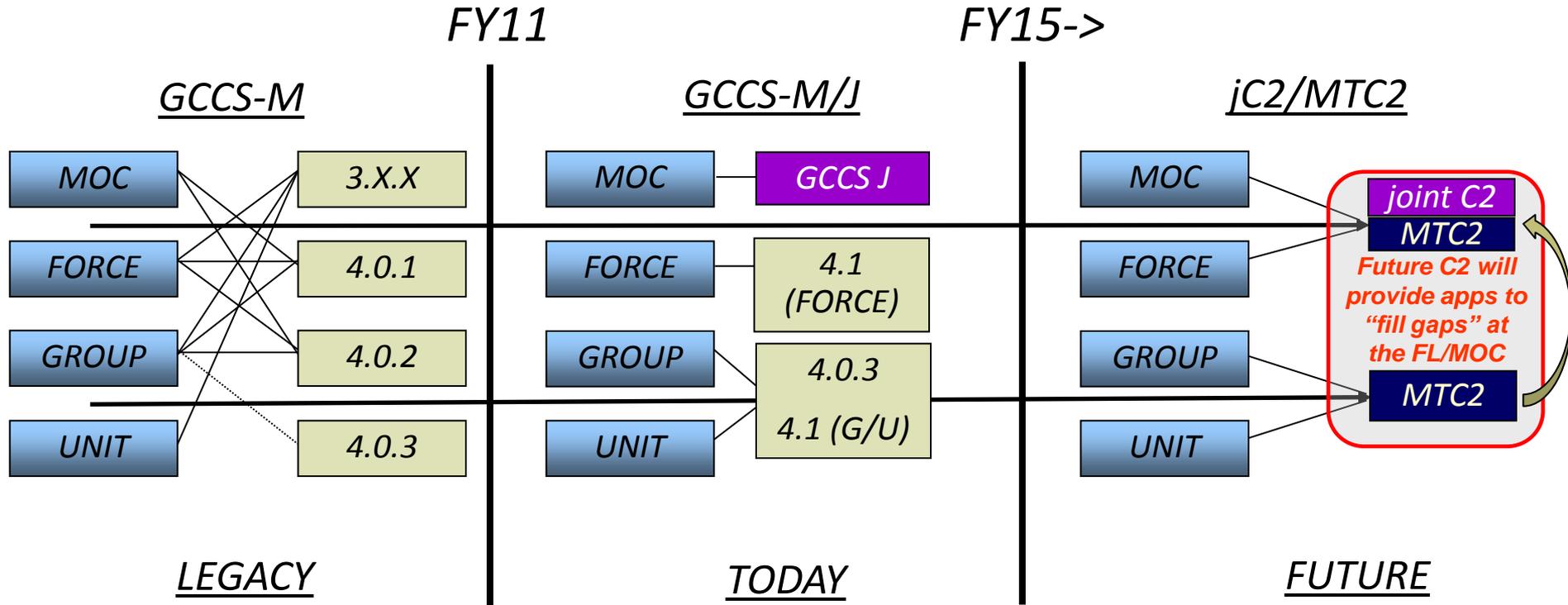
ADM Willard's "Areas of Control"

NWP 5-01 Navy Planning

*NWP 3-32 Maritime Operations
at the Operational Level of War*



MTC2 Program Direction (Post-GCCS-M)



GCCS-M provides a robust Situational Awareness across the Wide Area Network



Future C2 will address "Who, What, When, Where, Why, How" in Mission Management Planning, Assessment, and Monitoring tools



GCCS-M vs. MTC2



True "SA" ... Not Just "Tracks on a Map"

Legacy Systems provide simple "Tracks on a Map" Support SA Only

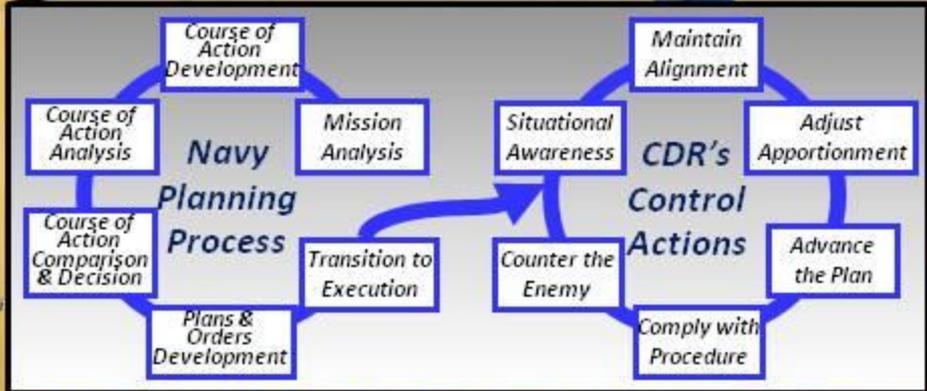
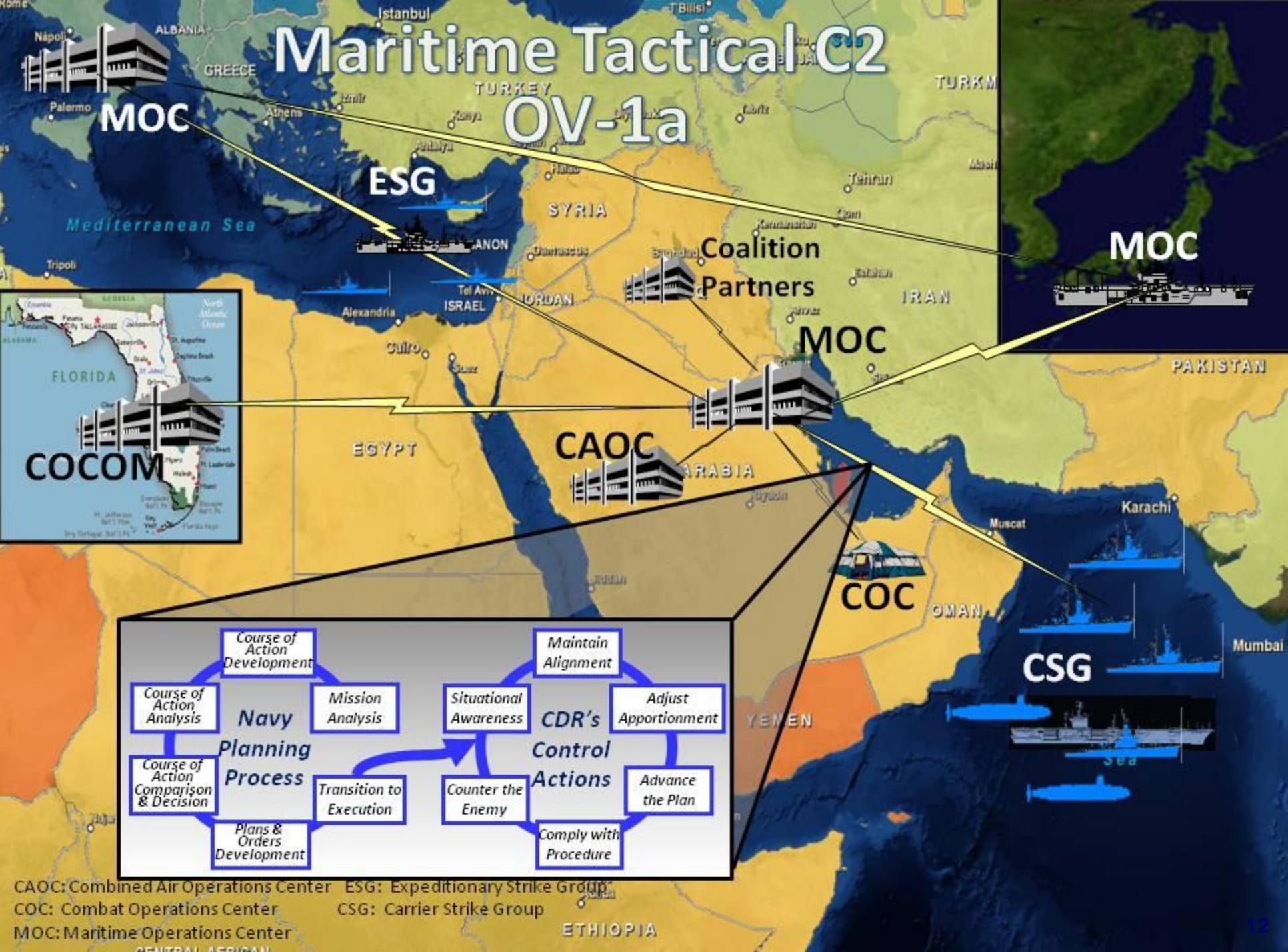


MTC2 provides dynamic Command and Control, anchored by Enhanced SA through a rapid-access Information "Halo":

Associates tracks to relevant data (Fuel Status, Ammunition Loadout, Manning, CASREP, Mission Readiness, Plans and Tasking)

Maritime Tactical C2

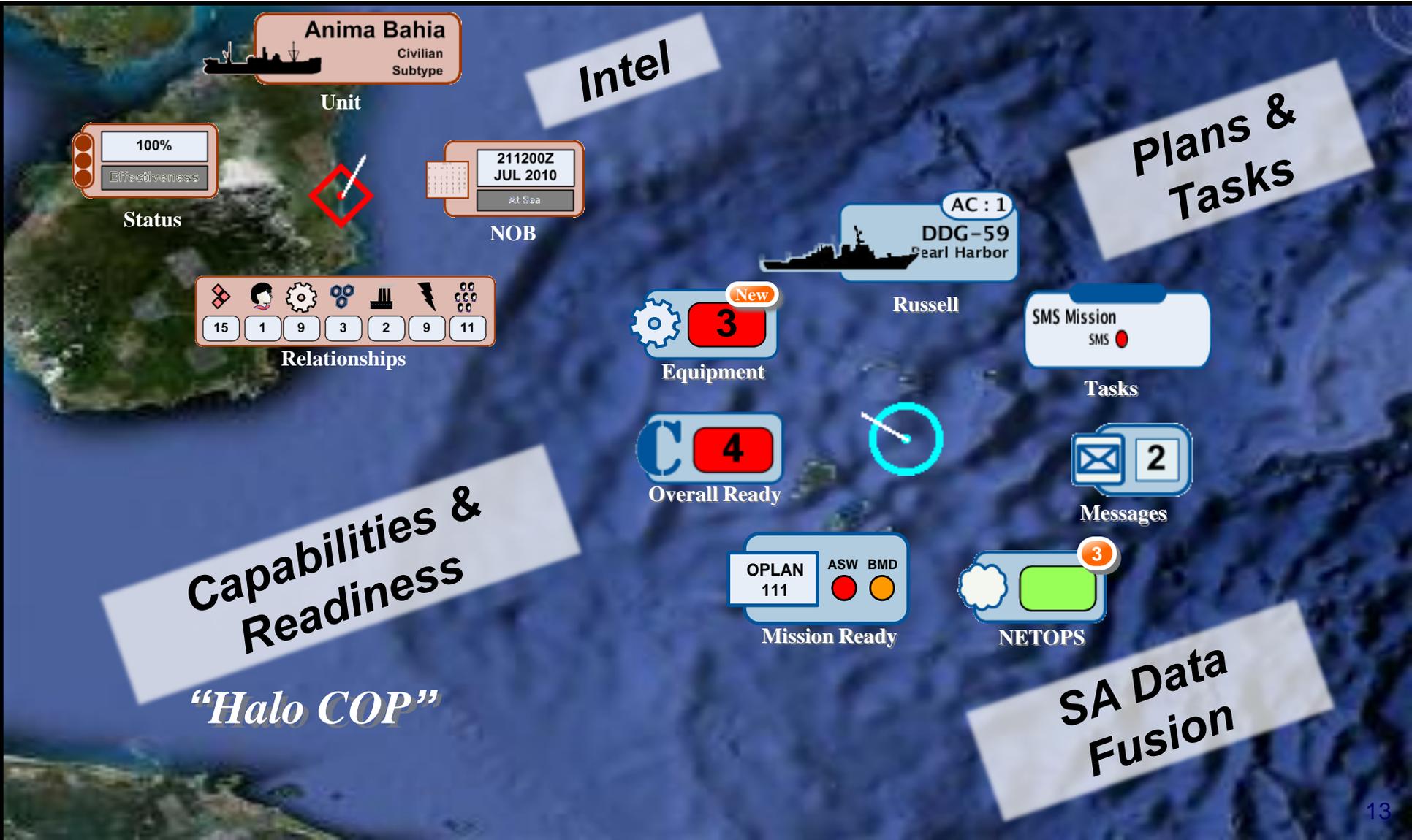
OV-1a



CAOC: Combined Air Operations Center ESG: Expeditionary Strike Group
 COC: Combat Operations Center CSG: Carrier Strike Group
 MOC: Maritime Operations Center



MTC2 (Interrelated "Halo" COP)



Anima Bahia
Civilian
Subtype

Unit

100%
Effectiveness

Status

211200Z
JUL 2010
At Sea

NOB

15 1 9 3 2 9 11

Relationships

New
3

Equipment

4

Overall Ready

OPLAN 111 ASW BMD

Mission Ready

AC: 1
DDG-59
Pearl Harbor

Russell

SMS Mission
SMS

Tasks

2

Messages

3
NETOPS

NETOPS

SA Data
Fusion

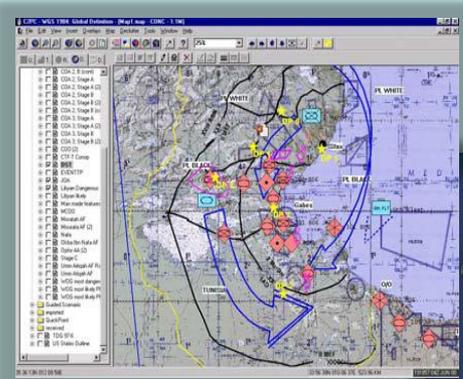
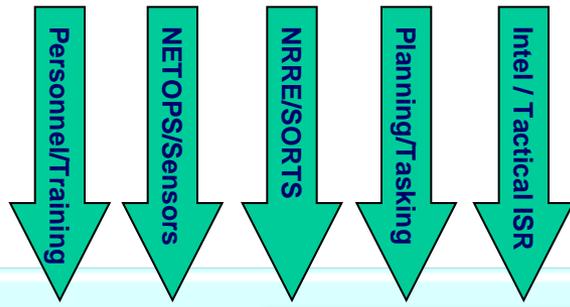
Capabilities &
Readiness

"Halo COP"

Intel

Plans &
Tasks

Multiple Perspectives in Multiple C2 Domains



Other Tactical



Battle Watch



Intel



NETOPS

Utilize authoritative data sources to support readiness, tasking, NETOPS, etc.



MTC2 Notional Software Package/Delivery Model



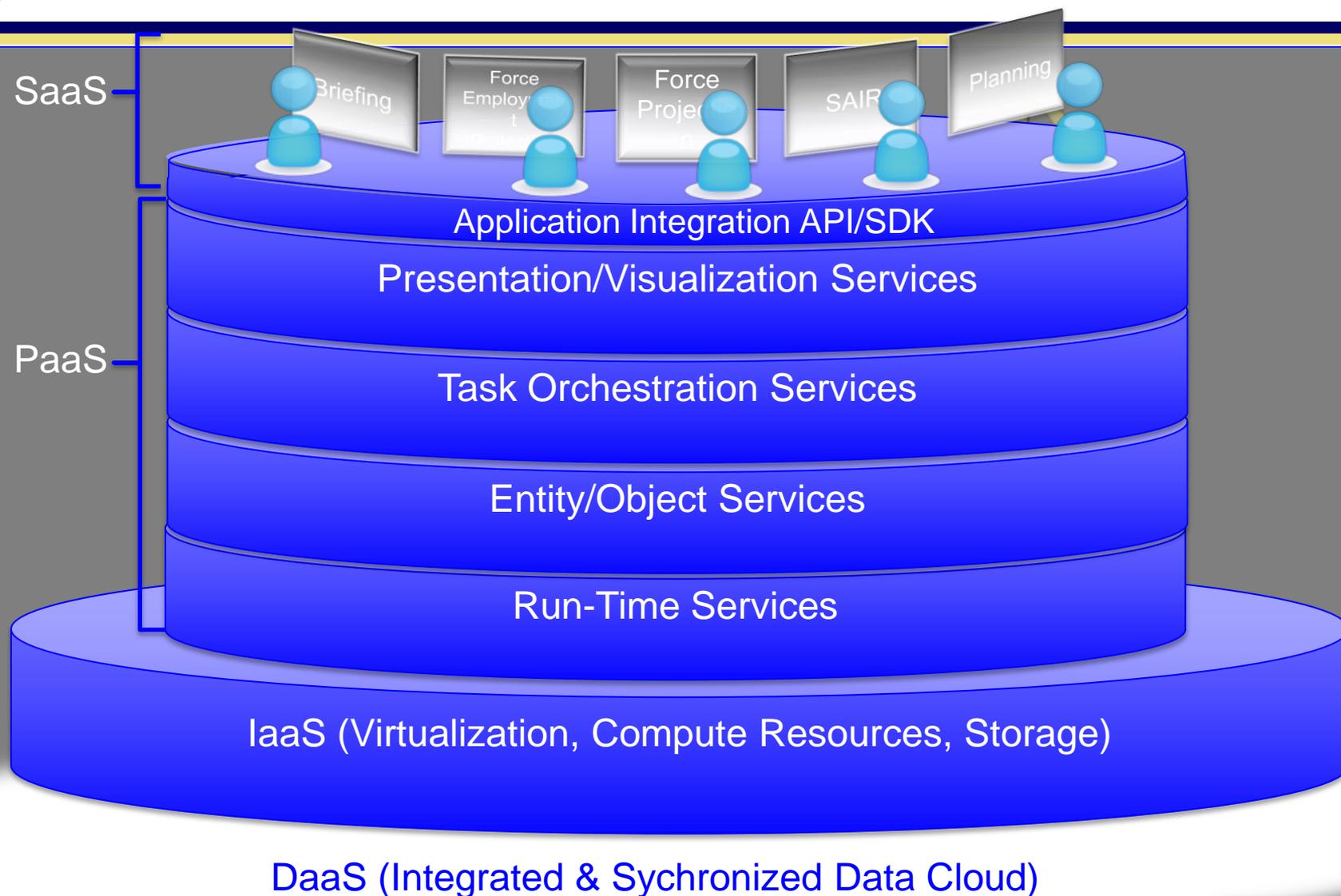
	MPP	MPP	MPP	MPP	MPP	FY
FCR 1	MOC v1					14
FCR 2	MOC v1.1	UL v1				15
FCR 3	MOC v1.2	UL v1.1	GL v1			16
FCR 4	MOC v1.3	UL v1.2	GL v1.1	FL v1		17
FCR 5	MOC v1.4	UL v1.3	GL v1.2	FL v1.1	SUB v1	18



Complete Delivery In 5 Releases



MTC2 Architecture



MTC2 Training Concept

Blended Training in an Integrated Learning Environment (ILE)

- Offers a blend of different learning methods, techniques and resources and applies them in an interactively meaningful learning environment
- Begins with foundational training and ends with sustainment of skills and performance support

1. Foundational training in traditional classroom setting

- A-school
- Combines instructor-led with computer-based instruction

2. Distributed Learning

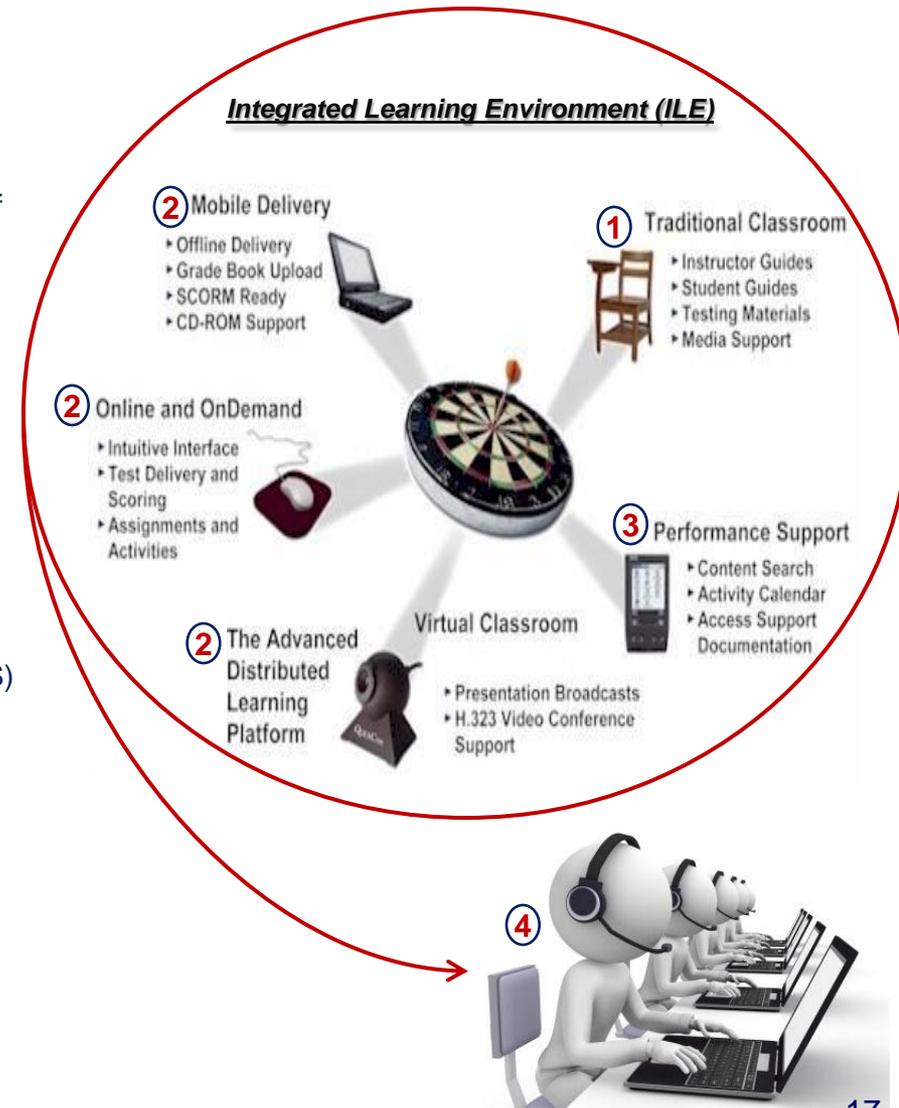
- Readily available anytime...anywhere
- Online and On-demand
- Mobile delivery
- SCORM compliant interactive courseware (ICW)
- Hosted on an approved learning management system (LMS)

3. Performance Support Tools

- Provides a web-based document delivery environment providing context-sensitive help
- Provides duty/function/task aids, manuals, quick reference guides/cheat sheets, etc.

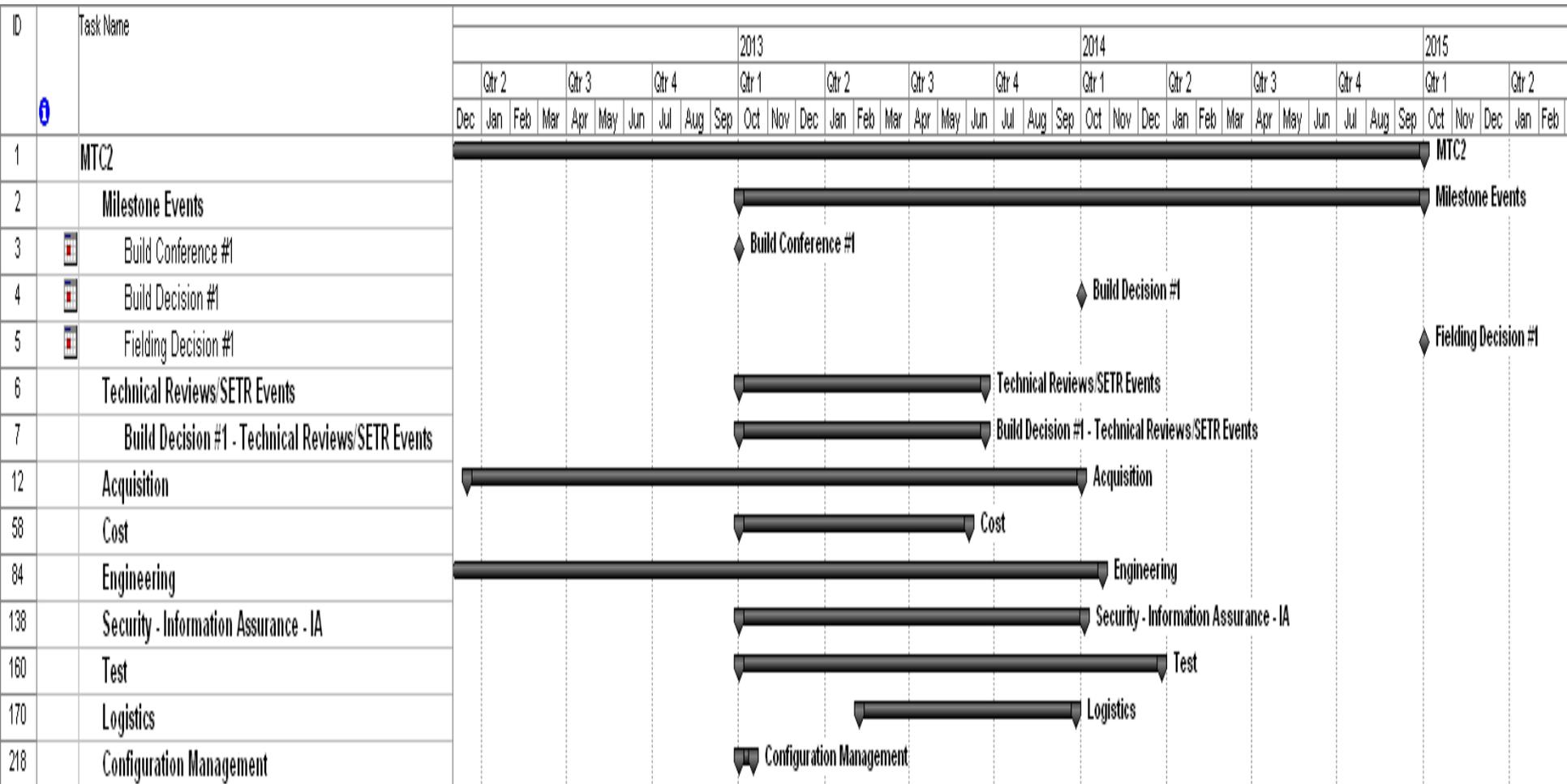
4. Virtual Service Desk (VSD)

- A web-based, 24/7 accessible capability
- Provides users a single point of entry to access information and self-help utilities





MTC2 Notional Program Schedule





Summary/Way Ahead

- Industry partnership is essential
- MTC2 will facilitate rapid software delivery
- MTC2 will leverage the Navy's computing infrastructure provided by ISNS/CANES/NGEN
- MTC2 is planning to field to the MOCs in late FY14

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Closing Remarks



Questions?

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We get IT.

We also integrate it, install it and support it. For today and tomorrow.

Visit us at www.peoc4i.navy.mil

