





Joint Command and Control For Net-Enabled Weapons Joint Test and Evaluation (JC2NEW JT&E)

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Problem Statement



Current operational concepts and joint command and control procedures do not support the joint force's ability to employ net-enabled weapons against dynamic targets

Validated by PACOM as the COCOM sponsor



Background

Today's Problem: Dynamic Targets







Critical Operational Shortfalls



- Increasingly precise weapons targeting
- **Engagement of mobile/re-located targets**
- Rapidly respond to high value and Time-Sensitive-Targets (TST)
- Employ weapons under adverse conditions Precision Engagement
- **Verify weapons impact**

Joint Vision 2020



- Locate Enemy
- Generate Desired Effect
- Assess Success
- Reengage

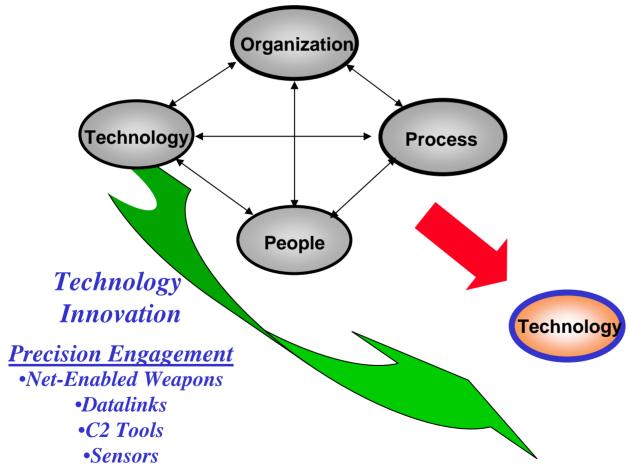
JROC ICDs validate the need to field enhanced weapon capabilities to support critical precision engagement requirements



Joint Mission Capability



Emerging Technologies Have Outpaced the Ability to Effectively Utilize the Newest Innovations





Current or Near-Term Net-Enabled Weapons



Direct Attack

WEAPON	SERVICE	IOC	BAND	TGT set/profile
JDAM/AMSTE	AIR FORCE	2008	UHF EPLRS	Mobile or fixed / short range

Stand Off

WEAPON	SERVICE	IOC	BAND	TGT set/profile
SLAM-ER	NAVY/USMC	FIELDED	UHF L Band	mobile or fixed / medium-long range 50-150nm

Long Range / Loiter

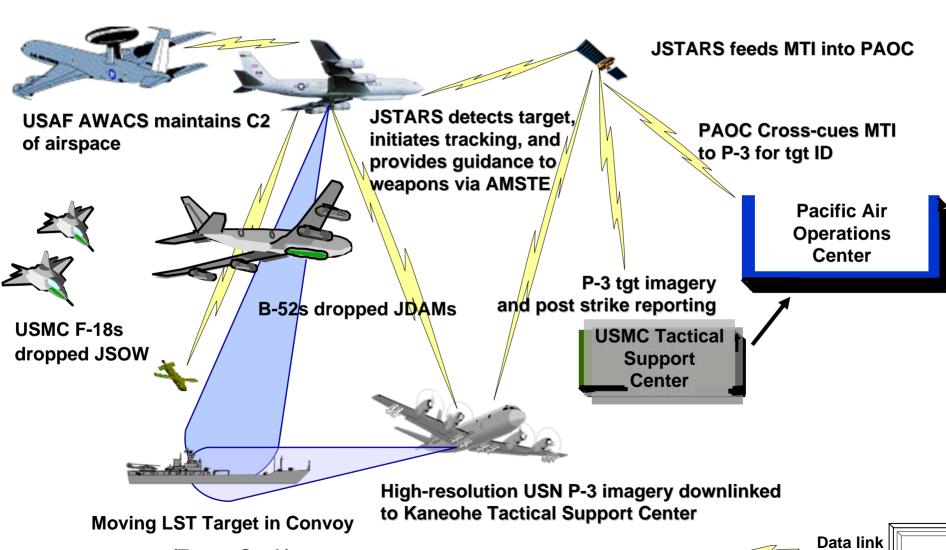
WEAPON	SERVICE	IOC	BAND	TGT set/profile
TLAM Blk IV Tactical Tomahawk	NAVY	FIELDED	UHF SATCOM Tomahawk Strike Network (TSN) 5kHz	Mobile or fixed / long range 700+nm



Operation Resultant Fury



(Concept Demonstration)



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(Target Sunk)

IRC Chat

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Net-Enabled WeaponsFuture Capability (2010 >)



Direct Attack

WEAPON	SERVICE	IOC	BAND	TGT set/profile
Precision Attack Missile (PAM)	ARMY	2010	UHF L Band 1750-1850MHz	Moving, mobile or fixed / short range ~40K

Stand Off

WEAPON	SERVICE	IOC	BAND	TGT set/profile
Harpoon III	NAVY	2010	UHF or Link-16	Moving, mobile, or fixed / short-medium range
JSOW – C Blk III w/DL	NAVY	2010	UHF or Link-16	Mobile or fixed / short- medium range 15-65nm

Long Range / Loiter

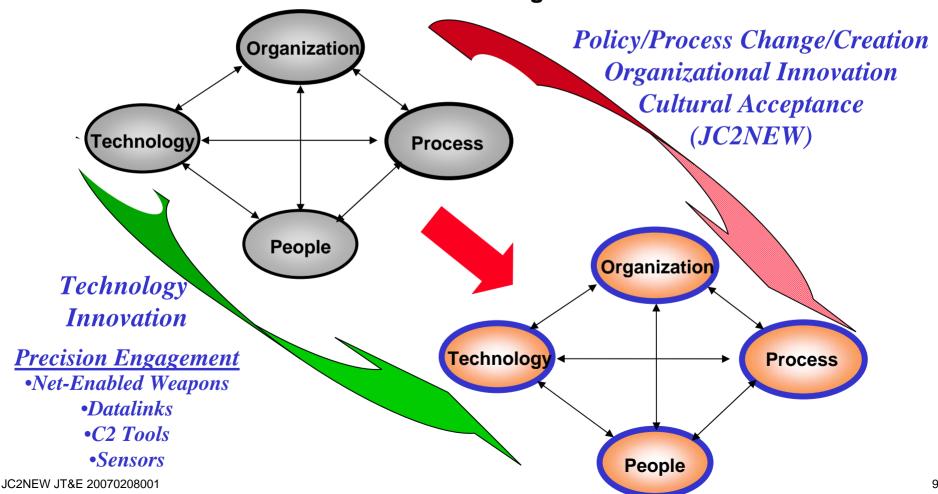
WEAPON	SERVICE	IOC	BAND	TGT set/profile
JASSM-ER	AIR FORCE	2010	BLOS National Technical Means LOS UHF	Mobile or fixed / long range 500+nm

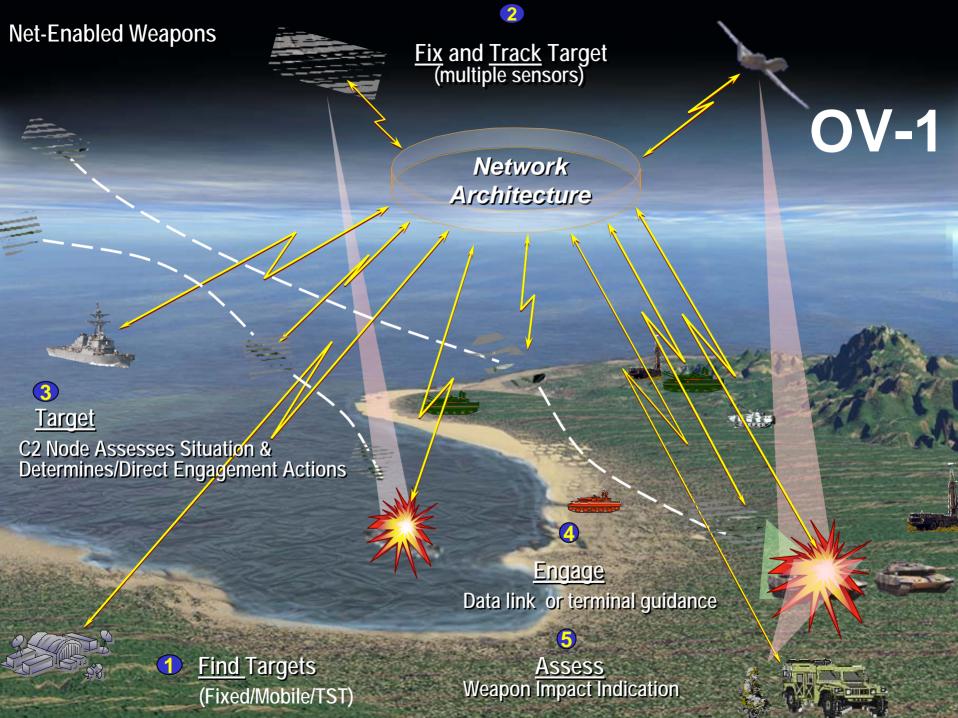


Joint Mission Capability



Provide the Joint Force Commander and supporting forces with complete transformational precision engagement capabilities in consonance with new technologies

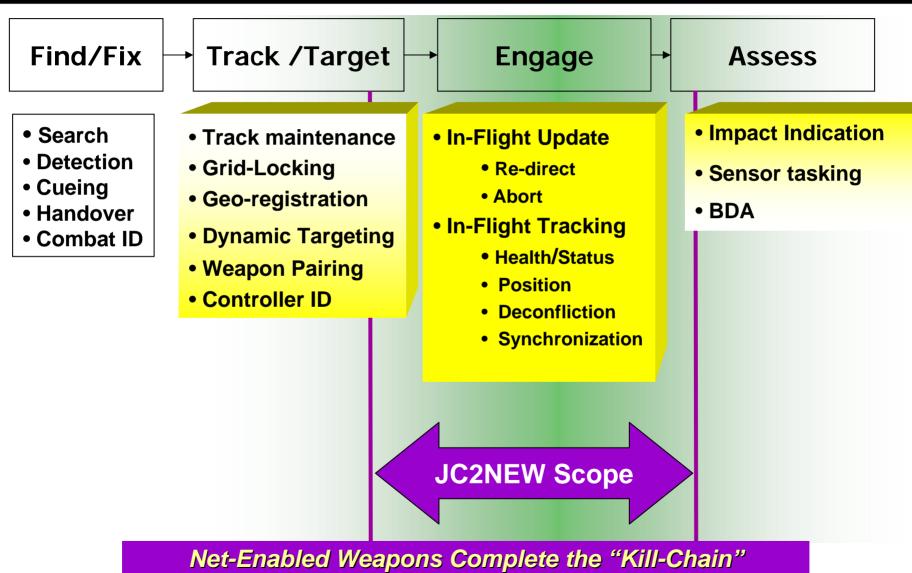






Scope



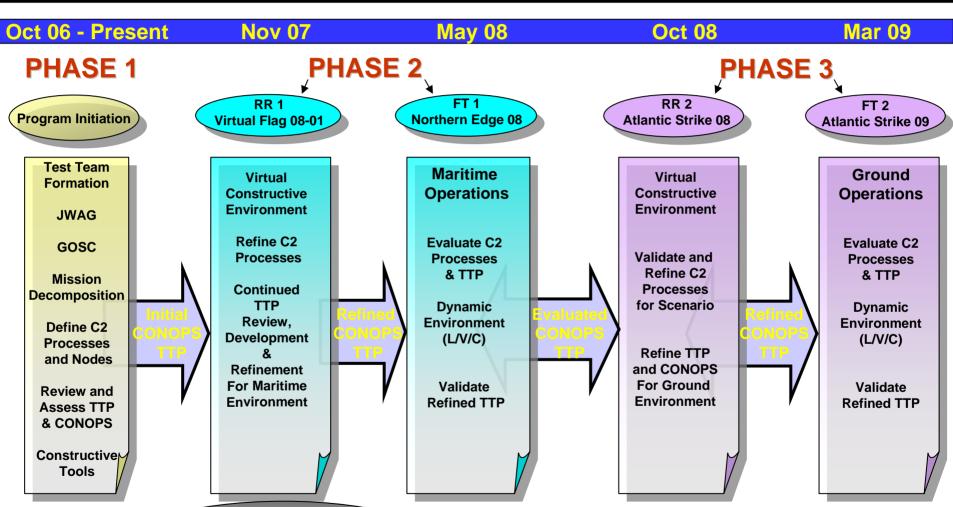


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Test Concept





Feedback To/From Warfighter Throughout the Process

Products to Warfighter as Required



Assessment Tools



- Modular Analysis and Test Support System (MAnTSS)
- CAOC Performance Assessment System (CPAS)
- System Architect
- Extend/TopView



Value to the Warfighter (Force Multiplier)



Precision engagement with minimized risk

 CONOPS and TTP to enable precision engagement of moving and stationary surface targets while minimizing risks to operators, friendly ground forces, and noncombatants

Enhanced tactical fire control

- Ability to direct distributed weapon resources in a collaborative manner
- Improved opportunity of engagement
- Decoupling of local sensor/weapon pairing constraint
- Increased attack confidence, minimizing threat exposure and resource expenditures

Network architecture improvements

Network architecture considerations for Denied Access and Air Superiority environments

Effective training

 Identify force structure, infrastructure, and methodologies necessary to conduct effective training for net-enabled weapons employment

ENABLING A DYNAMIC NET-CENTRIC KILL CHAIN" ANY SENSOR ANY WEAPON"

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Questions / Comments



JT&E Organization



