



NIE 14.2 INDUSTRY DAY

Improving Network Operational Effectiveness & Security

ARMY CIO/G-6

AMERICA'S ARMY • THE STRENGTH OF THE NATION • ARMY STRONG



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The Realm of the Possible



*82nd Sustainment Brigade
Demonstrated Single Device
for Instant Messaging,
Voice, Video and Data*



**... We Lack the 'Interstate' for Our
Information Highway**



The Army of the Future

We Start from a Position of Strength with an Army of Combat Proven Leaders

Our Nation's Joint Force must operate in a complex and dangerous physical, cultural and information environment, while balancing readiness requirements and limited resources.

Adapting to the Strategic Environment by prioritizing leader development and leveraging technology to empower the Soldier.

Adapting Readiness and Training Models to better prepare units to operate in complex environments.

The Army of the Future is Stronger

The Army will be optimized for a broader range of missions in support of the Joint Force.

Implementing plan to Regionally Align Forces to better support Combatant Commanders.

Reducing end strength and optimizing the force structure mix while remaining engaged in Afghanistan and adapting to meet the demands of the Defense Strategy.

*Empowered Soldiers & Squads, connected to the **network** in vehicles that increase mobility and lethality while retaining survivability.*

The future environment requires an agile, ready Army – a precision force, capable of rapid, scalable global engagement in support of National Defense Strategy.



Network Modernization: A Key to Success



“The Army has global responsibilities that require large technological advantages to prevail decisively in combat – **“technological overmatch,”** if you will... Modernizing, especially as end strength is reduced, is the key to ensuring that the Army’s dominance continues. As I reflect upon the pace of technological change in today’s modern world and **the impact of rapid, global information exchange upon our overall security environment,** I am both inspired and encouraged by the Army’s approach to building a network able to **connect our forces at all echelons.** This remains our number one modernization priority.”

– GEN Ray Odierno, Chief of Staff of the Army, “Army Live” Blog, 7 August 2012

- ★ Retain Our Technological Overmatch
- ★ The Ability to Rapidly, Globally Exchange Information in a Secure Environment
- ★ Connect Our Forces at All Echelons

A Modernized LandWarNet Will Meet These Challenges



What Right Looks Like

The Network is Core to a Smaller, More Capable, Better Trained Expeditionary Army

- ★ We Must Train as We Fight
- ★ Deploy Little to No Notice Anytime, Anywhere in Austere Environments
- ★ Installations as a Docking Station
- ★ Modernized From Strategic Core to the Tactical Edge
- ★ Single Secure Network
- ★ Incorporate Echelons Above Army Requirements
- ★ Centralized Management and Decentralized Execution

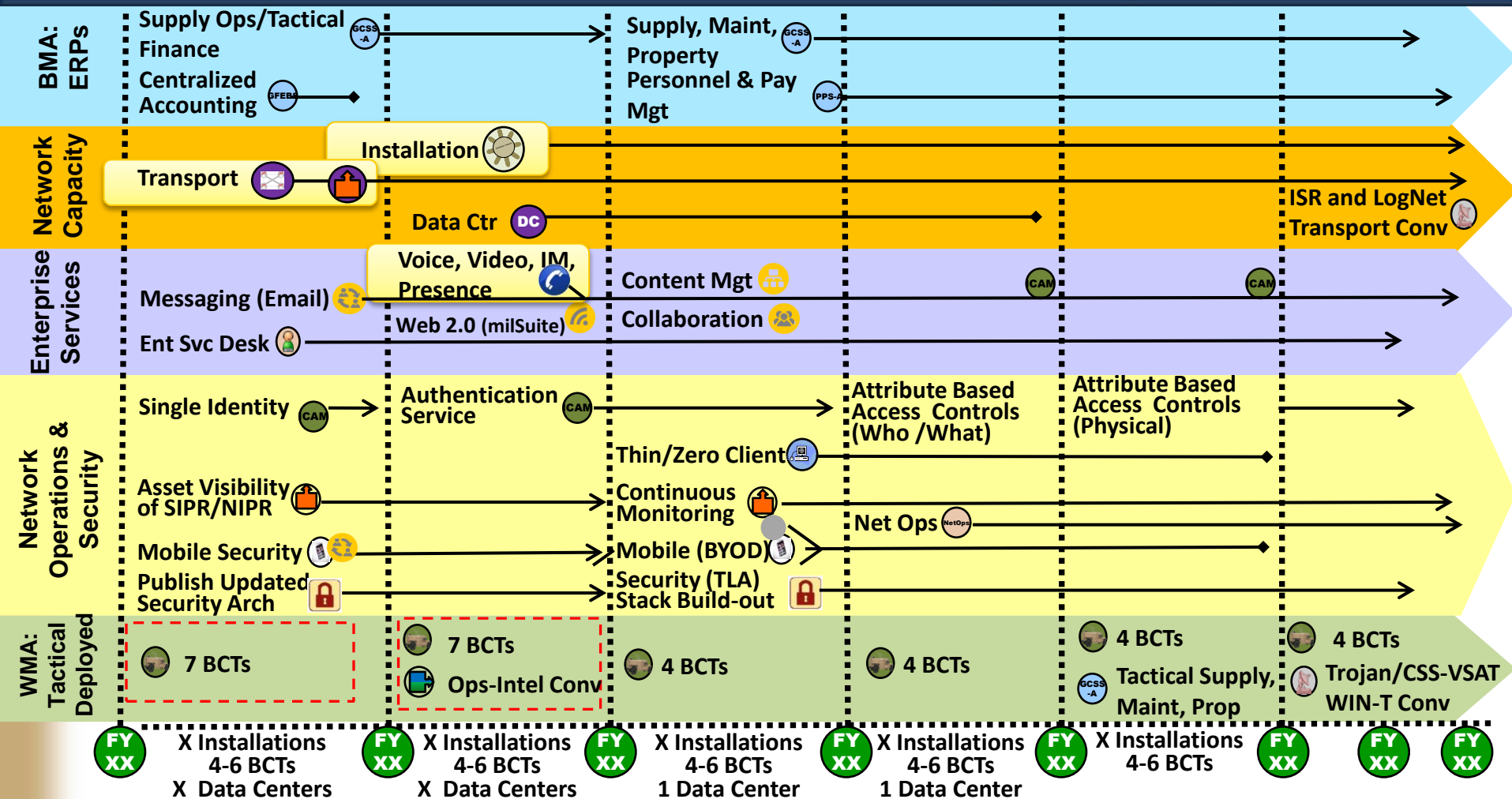




LandWarNet 2020 and Beyond

Modernization Through Capability Sets (Initial Strategy)

Balance Modernization & Sustainment – Flexibility Through Capabilities



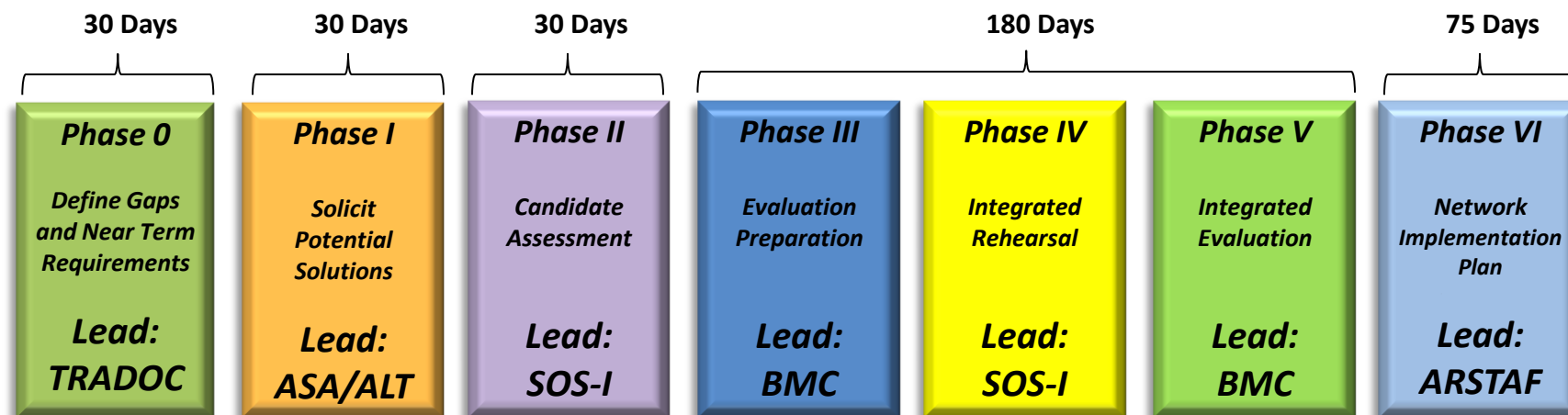
Network Mission Area (NMA) Capability Sets Ensure Synchronization



Network Integration Evaluation

- ★ An Effective Agile Process
- ★ Enables Proper Investment Adjustments
- ★ Reduces Integration Burden on the Warfighter
- ★ Not Perfect; Continually Working to Improve the Process
- ★ Too Important – We Can't Let It Die

NIE Process





NIE

Future Planning & Publishing; We Hear You!

RIGHT NOW

NIE 14.1

- Installation as a docking Station (IAADS)
- Connectivity to post Mission Training Complex (MTC)
- Installing tactical systems to the installation infrastructure
- HBSS & virus protection updates on the tactical systems from installation server
- Single Enterprise Services Desk-Operating/Generating Force

NIE 14.2

- Common Operating Environment (COE) v1
- Handheld Devices; BYOD, Biometrics, Tactical Cellular Network
- Operational Agility/CP enhancement
- Network Mission Area (MNVR)
- Mission Partner Environment
- Cyber Operations (Security, SEM Staff, EMSO)
- Aerial Layer Operations
- Home Station Capacity
- ISR to the Edge (DCGS-A)
- Route Clearance Pkgs*

NEAR-TERM

NIE 15.1/15.2

- Network Mission Area (NMA); Network Simplification and Complexities, NetOps
- Transport Convergence PH1
- COE v2
- Fires Messaging
- Mission Partner Environment (Joint aerial integration, COP)
- Cyber Operations
- Aerial Layer Operations
- Home Station Capacity (Live Virtual Training, IAADS)
- ISR to the Edge (RITE)
- App Store Demo*

NIE 16.1/16.2

- Integration of Tactical and Enterprise Networks
- Transport Convergent PH 11
- COE v3
- Armored BCT Integration
- WIN-T (I) Network Collapse RITE/TS
- Network Mission Area (Waveform efficiencies, space loss mitigation)
- Mission Partner Environment (Coalition integration)
- Cyber Operations
- NetOps Management*

FUTURE

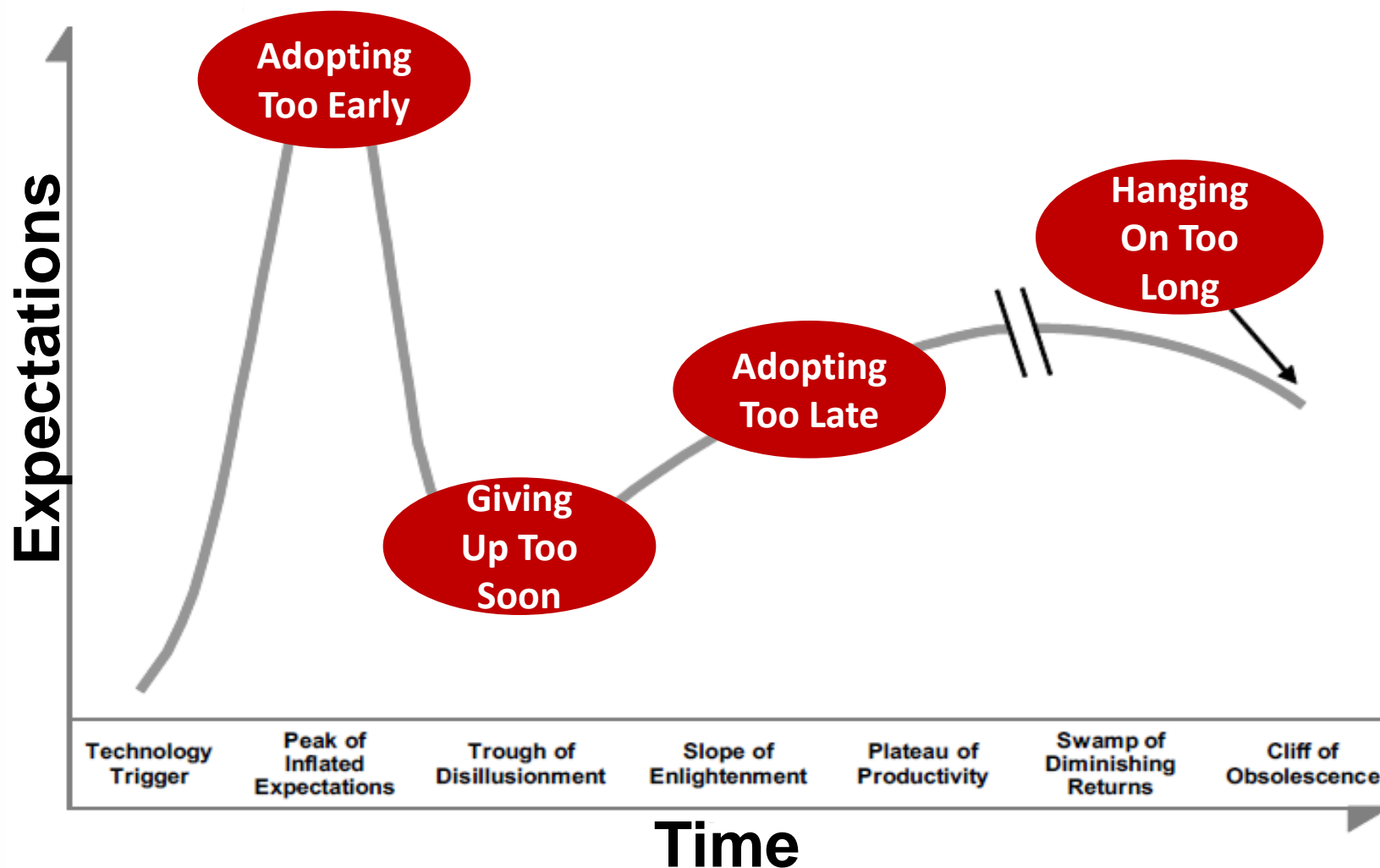
NIE 17/18/19...

- Implement DOTMLPF Recommendations
- Shaping Future NIEs
- Thin/Zero Client
- Core Data Center Consolidation
- Biometric
- Attributed Based Access Control*
- Protected Network Transport (Anti-Jam)*
- Robotics*

*GAPS



Technology Hype Cycle – The Traps



Source: Gartner (June 2012)



Where I Need Your Help

- ★ Be Good Stewards/Partners – Don't let Us Write Stupid Requirements
- ★ Help Us Reduce Complexity on the Battlefield – Smaller, Faster, Cheaper
- ★ Focus on 'Open Systems' and Common Operating Environment (COE) vs. Proprietary Interface Designs and Approaches
- ★ IRAD Dollars – Where is it Best to Spend and Commit
- ★ Participate in our Network Integration Evaluations (NIE)

The Network is Core to a Smaller, More Capable, Better Trained Expeditionary Army



— Thank You —



**Together – As a Team – We Will Achieve A Single, Secure,
Standards-Based Joint Network that Powers America's
Army, Making it the Most Capable Force in History.**



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