



*VADM Dick Mayo, USN
COMNAVNETWARCOM*

*7th Annual
Expeditionary Warfare Conference*

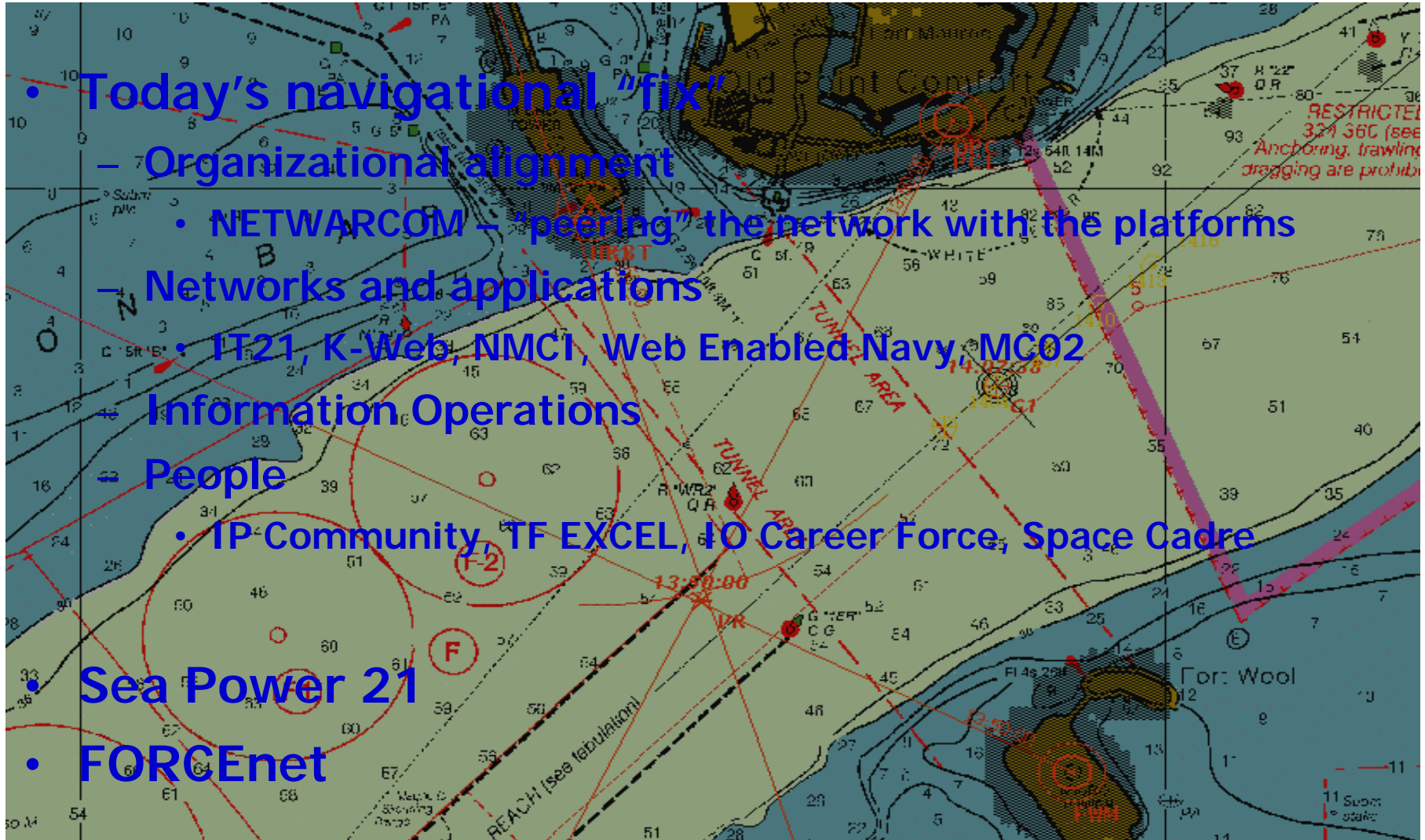
23 October 2002



Navy's Course for Net-Centric Warfare

★ Mission ★ People ★ Capability

- Today's navigational "fix"
 - Organizational alignment
 - NETWARCOM – "peering" the network with the platforms
 - Networks and applications
 - IT21, K-Web, NMCI, Web Enabled Navy, MC02
 - Information Operations
 - People
 - IP Community, TF EXCEL, IO Career Force, Space Cadre
- Sea Power 21
- FORCEnet





Sea Power 21

★ Mission ★ People ★ Capability

Sea Shield

Sea Trial

Sea Warrior

Sea Enterprise

FORCEnet

Sea Strike

Sea Basing

- **Sea Strike** – Projecting Precise and Persistent Offensive Power
- **Sea Shield** – Projecting Global Defensive Assurance
- **Sea Basing** – Projecting Operational Independence to Joint Team

- **Sea Trial** – Process of Innovation
- **Sea Warrior** – Investing in Sailors
- **Sea Enterprise** – Resourcing tomorrow's Fleet

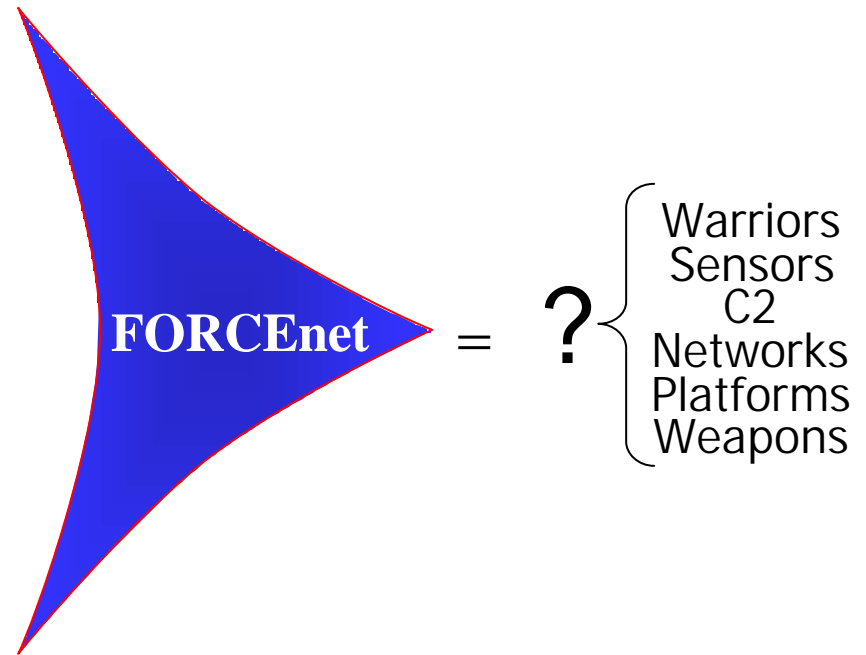
Implemented by a Global Concept of Operations



FORCEnet

★ Mission ★ People ★ Capability

- Start with Warfighter's Ops Concepts and CONOPs
- Capabilities
 - Pervasive ISR in the littoral
 - Accelerated decision making
 - Expeditionary tiered sensor, communications, weapons grids
 - Distributed, collaborative C2
 - Dynamic, multi-path survivable networks
 - Warrior-centric



- CONOPs, experimentation, S&T, resources, Systems Commands → Navy, Joint

Agile, lethal and effects-based combat power, from Seabed to Space



★ Mission ★ People ★ Capability

Sea Trial

- Key to bringing FORCEnet to reality
- Exploits DoD 5000 series revisions
- FORCEnet will leverage Sea Trial process
 - Synchronized concept development and experimentation
 - Feedback loop to acquisition community



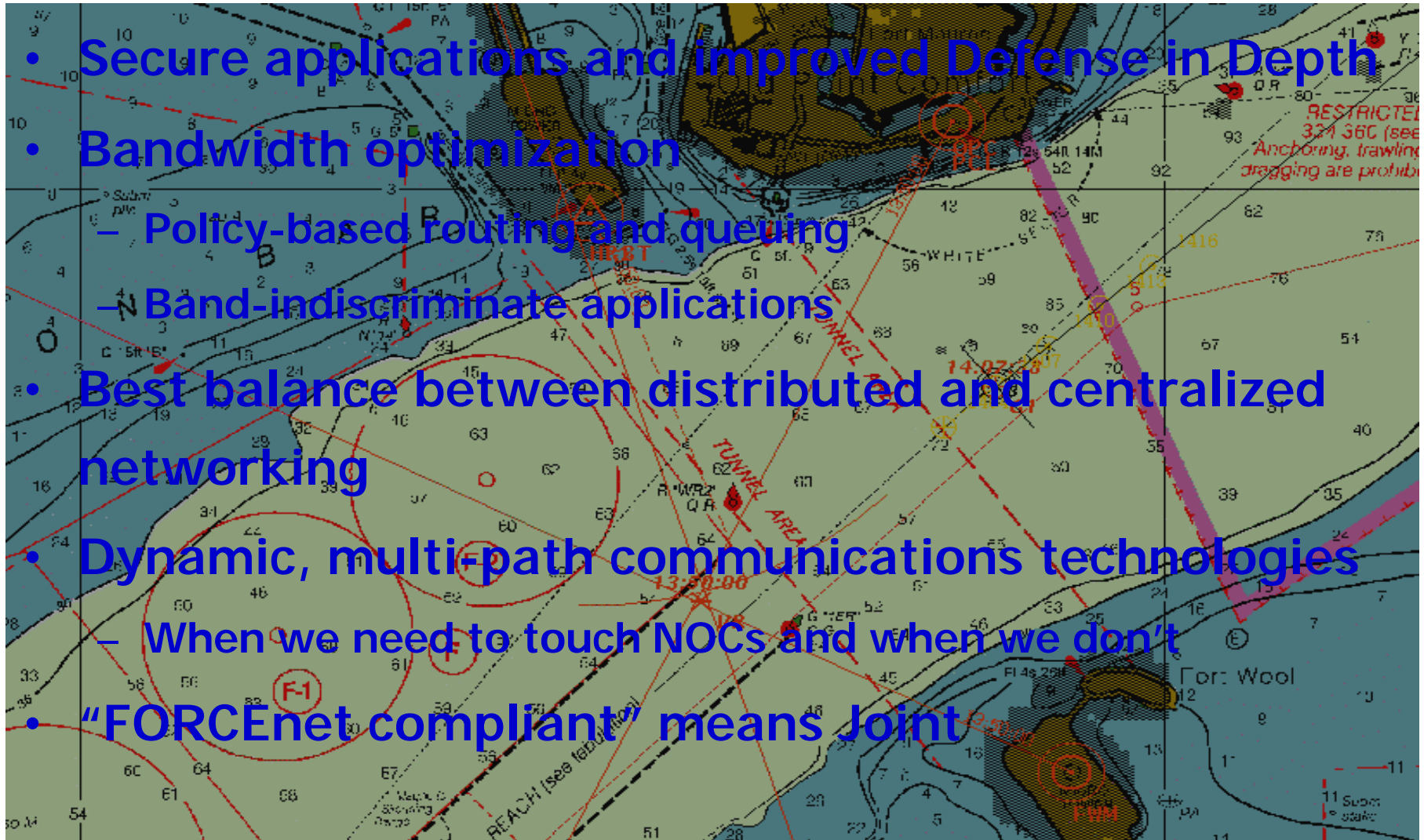
Concept and technology development in support of future warfighting effectiveness



How Industry Can Help

★ Mission ★ People ★ Capability

- Secure applications and improved Defense in Depth
- Bandwidth optimization
 - Policy-based routing and queuing
 - Band-indiscriminate applications
- Best balance between distributed and centralized networking
- Dynamic, multi-path communications technologies
 - When we need to touch NOCs and when we don't
- "FORCEnet compliant" means Joint

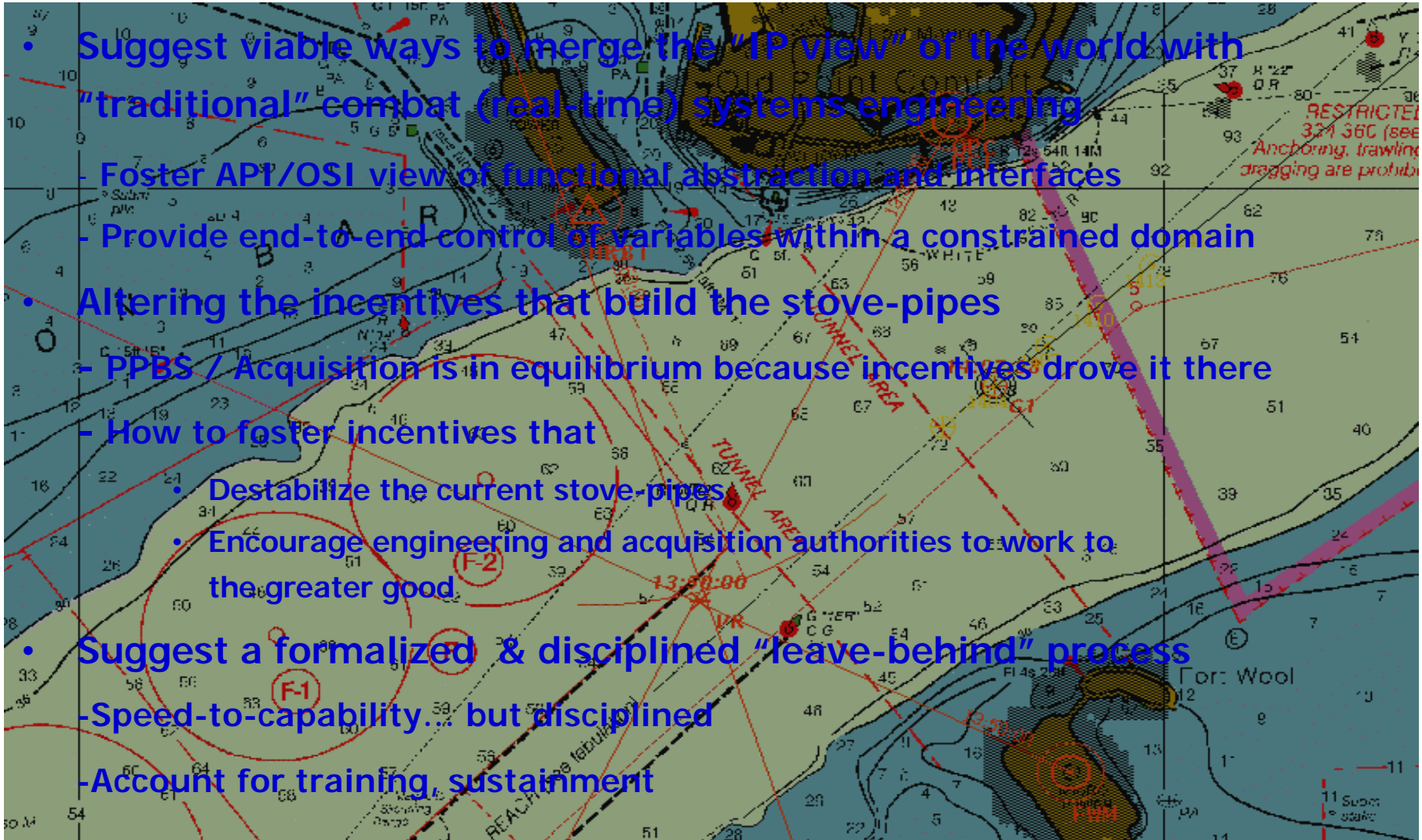




What NDIA Can Do For Us

★ Mission ★ People ★ Capability

- Suggest viable ways to merge the "IP view" of the world with "traditional" combat (real-time) systems engineering
 - Foster API/OSI view of functional abstraction and interfaces
 - Provide end-to-end control of variables within a constrained domain
- Altering the incentives that build the stove-pipes
 - PPBS / Acquisition is in equilibrium because incentives drove it there
 - How to foster incentives that
 - Destabilize the current stove-pipes
 - Encourage engineering and acquisition authorities to work to the greater good
- Suggest a formalized & disciplined "leave-behind" process
 - Speed-to-capability... but disciplined
 - Account for training, sustainment



FORCEnet offers Navy an unprecedented opportunity to be stronger, better, and smarter. We will seize the opportunity and make it so.

