

Naval Research in the 21st Century

Dilemmas & Solutions



Naval-Industry R&D Partnership Conference 2004

3-6 August Ronald Reagan Building and International Trade Center Washington, DC

www.onr.navy.mil

Keyword: RD

The Joint Perspective

Joint Forces Command

Allied Command Transformation (NATO)

- **Organizing, Training & Equipping Joint Forces**
- **Change Comprehensively—not in “inches”**
- **Institutionalizing Process & Product of Change**
- **Delivering “Coherently Integrated” Capabilities**
- **Establishing Joint Culture & learning institutions**

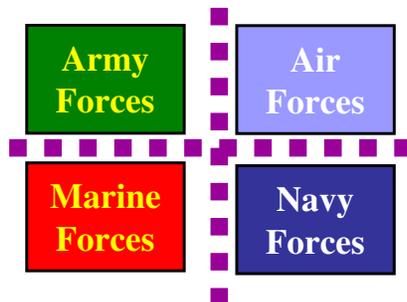
Attributes of a Transforming *J*oint Force

The Operator's approach

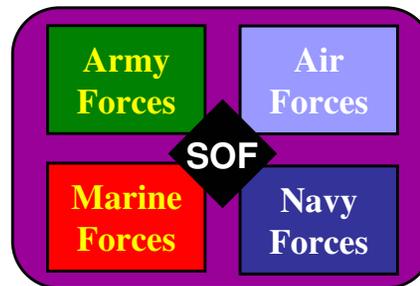
Deconflict
Service Forces



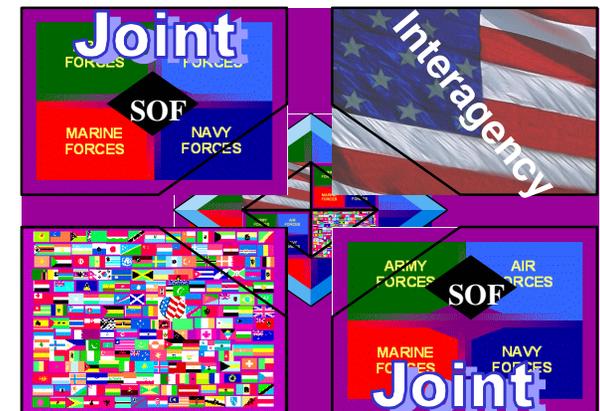
Coordinate
Stitch Service
Seams



Integrate
Services/SOCOM
Capabilities



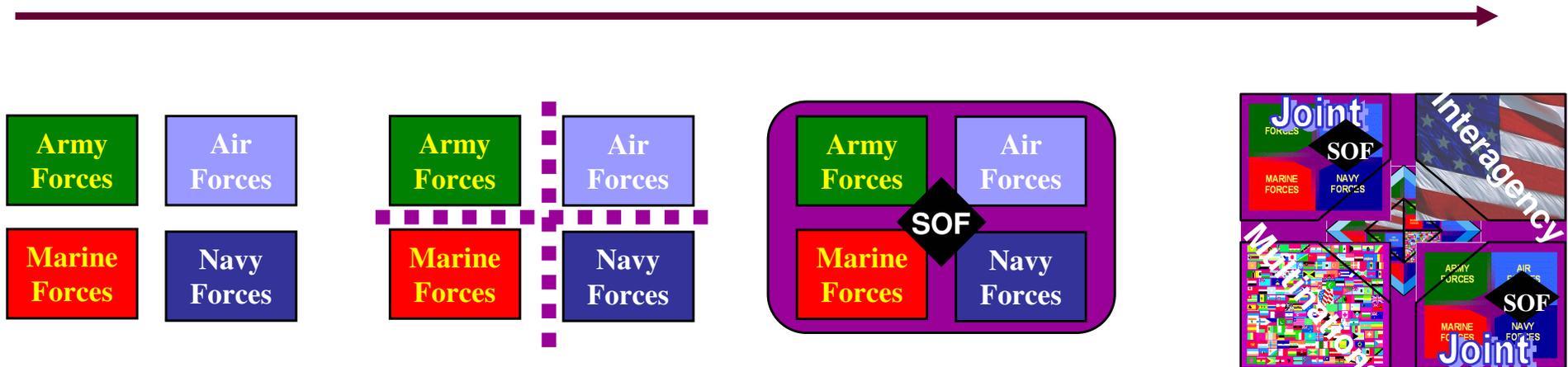
Coherently Integrate
Interdependent,
Collaborative,
Learning & Adaptive
Coherently Joint Force



Result:
Effects-Based Outcomes
Overmatching Power

Supported/Supporting Relationships

Continuum of Transformation



Service Wargames

Joint Operating Concepts

Joint-Service Wargames

Service Training Transformation

Joint National Training Capability

Attrition Warfare

Effects-Based Operations

Organic Fires

Fire Support
Coordination Line

Kill Box/Joint Terminal
Attack Controllers

Joint Fires

Service Command & Control

C4ISR

C2+C2ISR

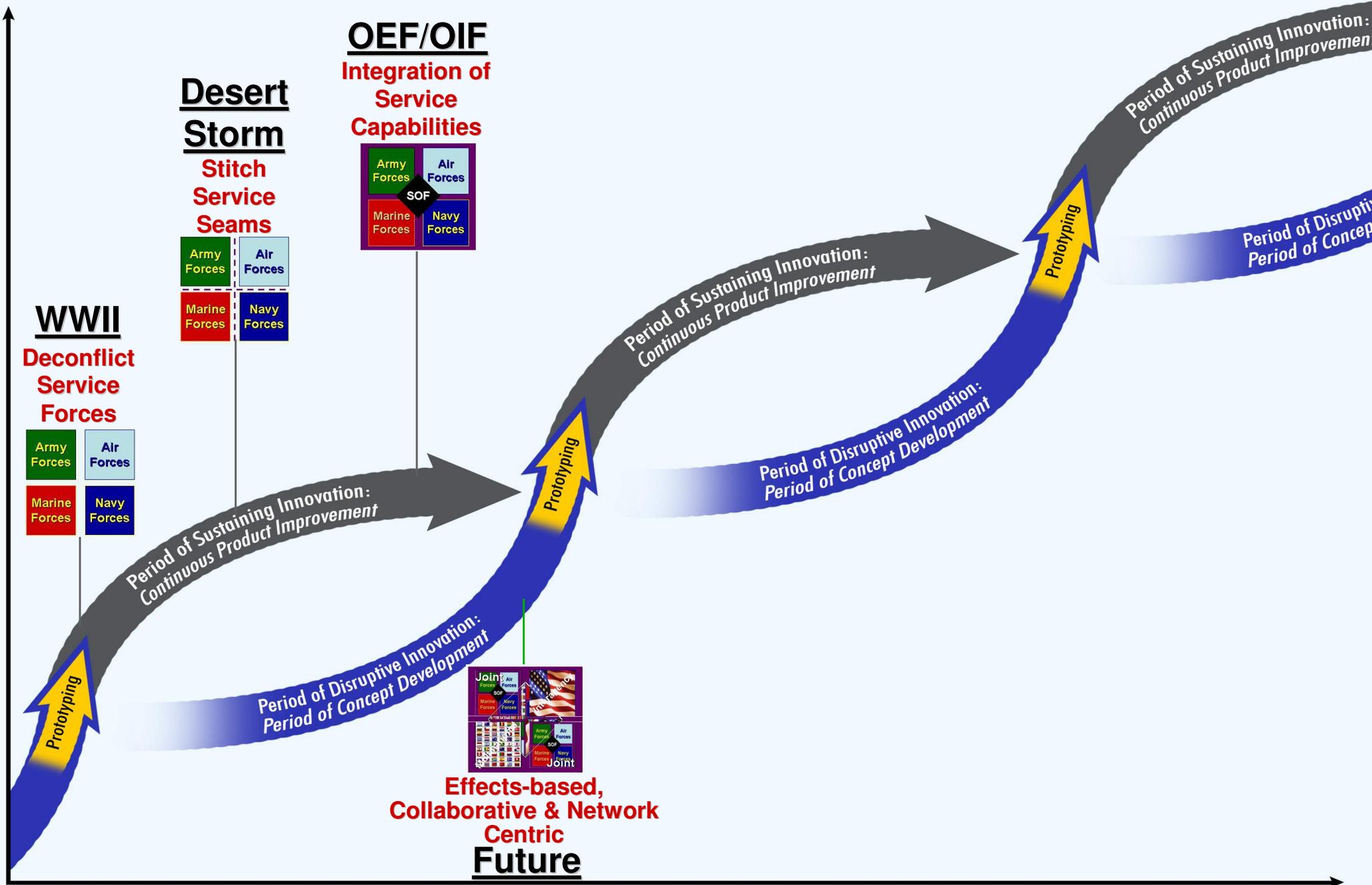
Joint Command & Control

Service Lessons Learned

Joint Center for Operational Analysis
- Lessons Learned

Joint Lessons Learned

Delivering Capability & Innovation



Challenges for Industry

- **Understand and Be part of the new Joint Process:**

Joint Context → Joint Requirements → Acquisition = Joint Capabilities

- **Non-proprietary industry solutions = *Joint Capabilities***
 - **Partnerships are important, work collaboratively!**
 - **Include small businesses**
-

*If you're not delivering coherently integrated capabilities,
then you're delivering a future Joint problem*

Secretary of Defense Top Ten Priorities

For the Next 18 Months

★ Priorities supported by JFCOM

- ★ 1. Successfully Pursue the Global War on Terrorism
- ★ 2. Strengthen Combined/Joint Warfighting Capabilities
- ★ 3. Transform the Joint Force
- ★ 4. Optimize Intelligence Capabilities
5. Counter the Proliferation of WMD
6. Improve Force Manning
7. New Concepts of Global Engagement
- ★ 8. Homeland Security
- ★ 9. Further Streamline DoD Processes
10. Reorganize DoD and the USG to deal with pre-war opportunities and post-war responsibilities