# The Swedish Armed Forces Operational Challenges for Command and Control



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Swedish Armed Forces Headquarters



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## The Swedish Armed Forces





















## SwAF Transformation – issues & goals (1)

#### **Changing Security Environment**

- Globalization, dynamic global environment. New challenges & threats.
- Dramatically changed Security Policy
  - EU member & NATO partner
  - "From isolation to participation"
  - "Defending Sweden abroad"

#### **Key issues**

From large National, Territorial force -> Interoperable, Deployable Force -> Contracted Expeditionary Force

**Challenge - transforming the Manning system** 

Swe Lead nation for EU NBG 11 + NBG 14





## SwAF Transformation – issues & goals (2)

#### **Background – Society and Technology changing**

- Changing Societies and rapidly developing Technology
- Sweden
  - Advanced parts of the SwAF, for example data-links within the Air Force since 1970-ies
  - Defence-, IT- and Telecomm industry

#### **Key issues**

- Joint Force
- Networked Force
- New strategies for:
  - Procurement
  - Research & Development





## Command Control Interoperability Board

- Overall Building interoperability capacity through permissions, authorisation, processes, materiel, methods, exercises and more
- New interoperable capabilities within the C4I area as Link 16, Link 11, Link 22, Beyond Line of Sight, Have Quick, Battleforce Email, Identification Friend or Fool

## Multinational Experimentation (MNE) Series



MN LOE 1: November 2001 (AUS, DEU, GBR, USA)

⇒Technical Distributed Collaboration (South Pacific Vignettes)



MN LOE 2: February 2003 (added CAN and NATO)

⇒Multinational Information Sharing (Pacific Rim Vignettes)



MNE 3: February 2004 (added FRA)

⇒Effects-Based Planning (Afghanistan Scenario)



MNE 4: February / March 2006 (added FIN and SWE)

⇒Effects-Based Operations(Afghanistan Scenario)



**MNE 5:** Spring 2008/Spring 2009

⇒ Comprehensive Approach (African Scenario) + Effects-Based Approach to Multinational Operations (military portion)

#### **MNE 5 Partners**

- Canada
- Finland
- France
- Germany
- Sweden
- United Kingdom
- United States
- NATO ACT

#### **MNE 5 Participants**

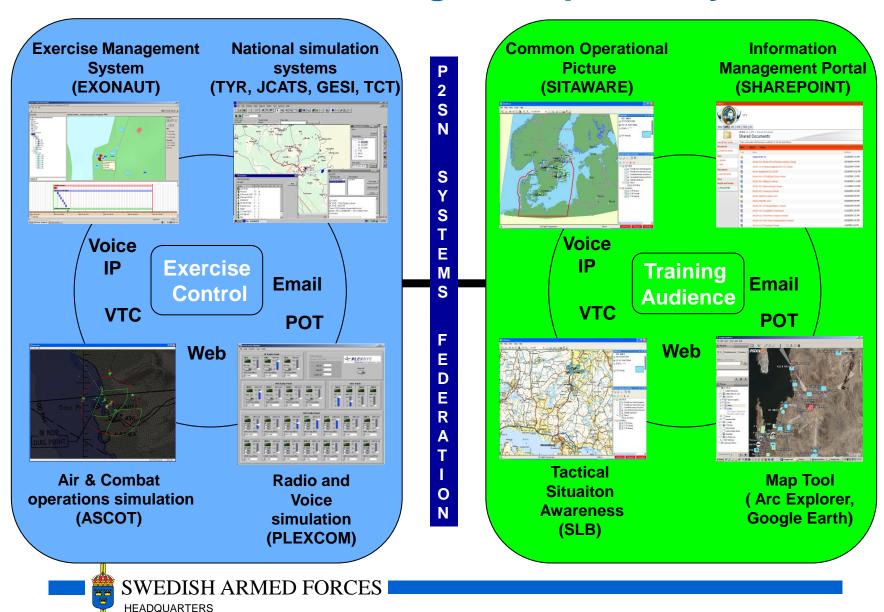
- Australia
- Austria
- Denmark
- Spain

#### **MNE 5 Observers**

- Czech Republic
- Greece
- Hungary
- Japan
- Poland
- South Korea
- Singapore
- European Union



## C2 and Training interoperability



## The VIKING concept

- The premier Multinational and Comprehensive Approach exercise in the world
- Washington Summit NATO 50th Anniversary VIKING concept demonstration 1999 - a Swedish / U.S. initiative (MoU since 1998)
- **Executed in VIKING 99, 01, 03, 05, 08**
- **Based on the Persistent Partner Simulation Network Concept**
- Political impact & flagship for the Swedish Armed Forces
- Important in building Partnership Capacity before deployment in operations
- Provides a wider "Network" building

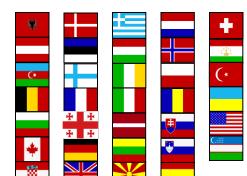




#### **MAIN PARTNERS 1999-2008:**









osce





































The fifth VIKING Computer
Assisted Command Post Exercise
based on the Partner Training &
Simulation Network Concept

2 000 participants from 31 nations and 47 organizations

Main Training Audience on Land, Maritime, Air and Infooperations Component Command level

**NATO** procedures

Crises Response scenario (BOGALAND) including NATO- and EU-led operations



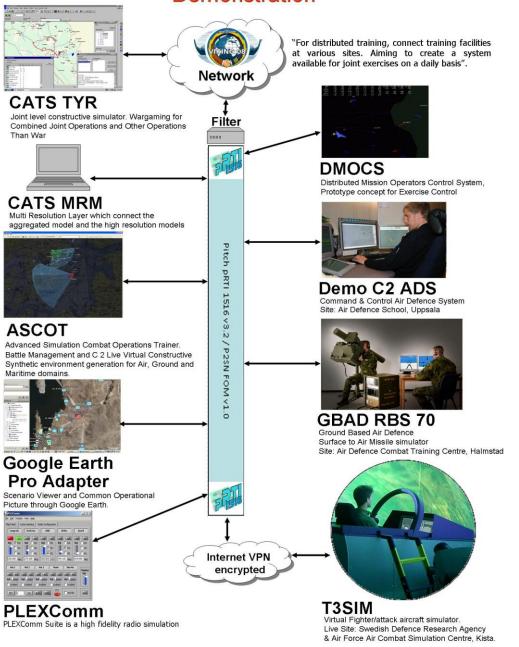


## VIKING 11

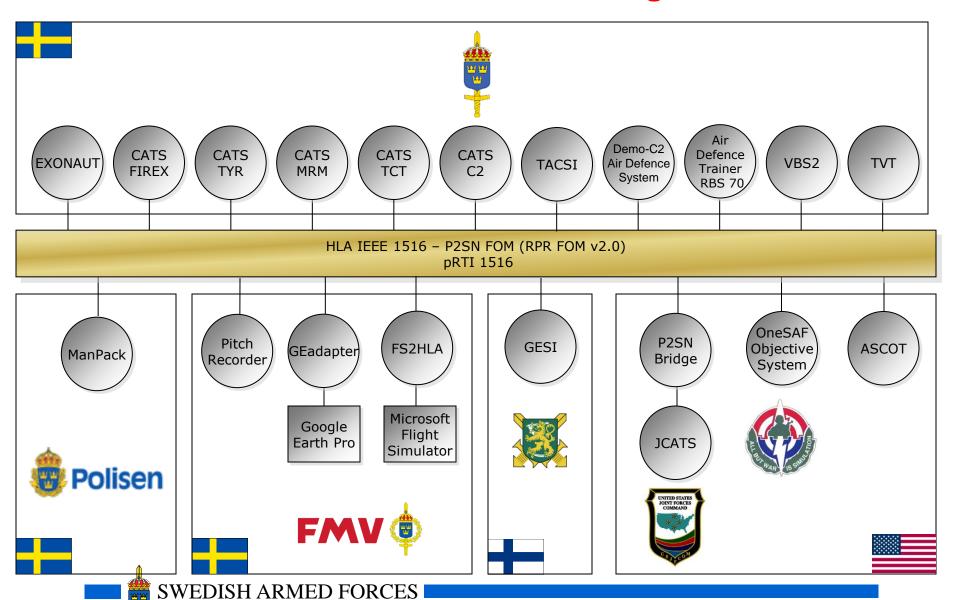




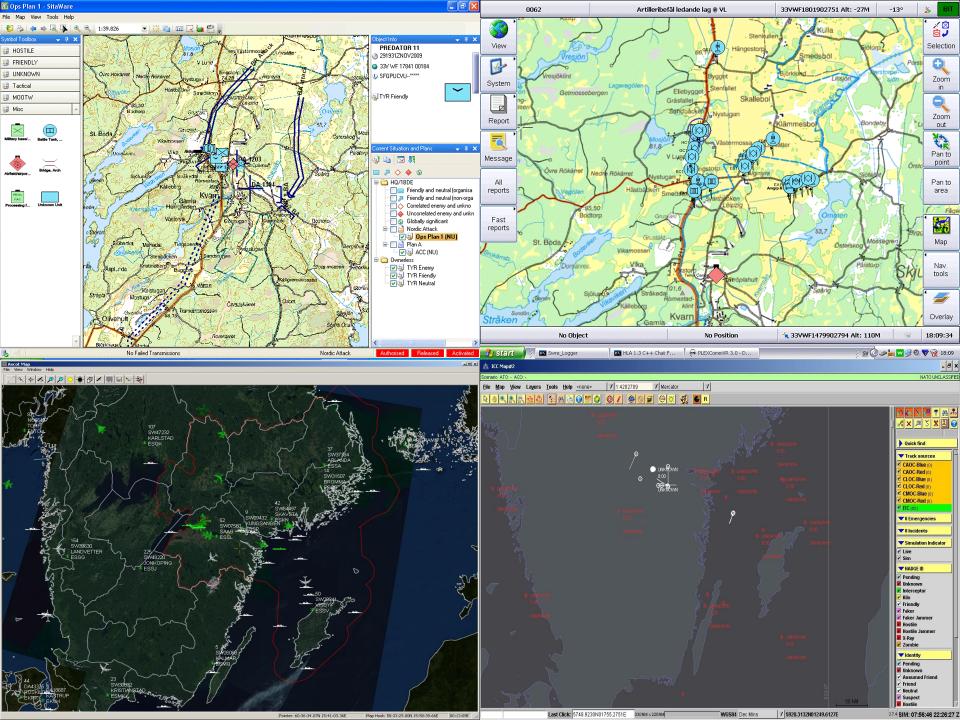
## The Swedish Joint National Training Capability Demonstration

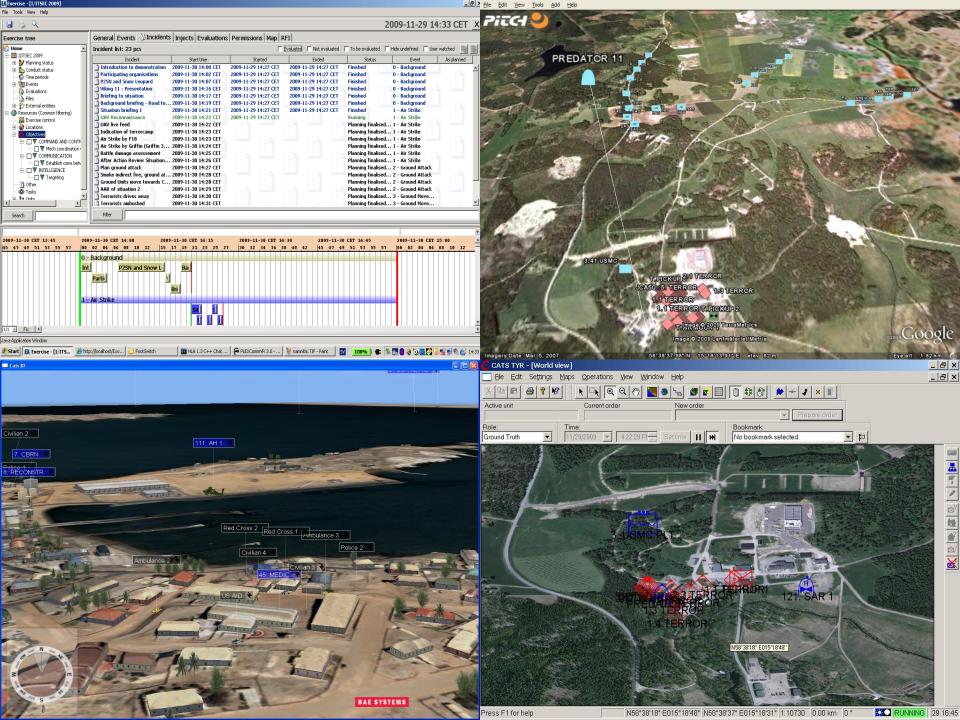


### **ITEC 08 Federation Design**

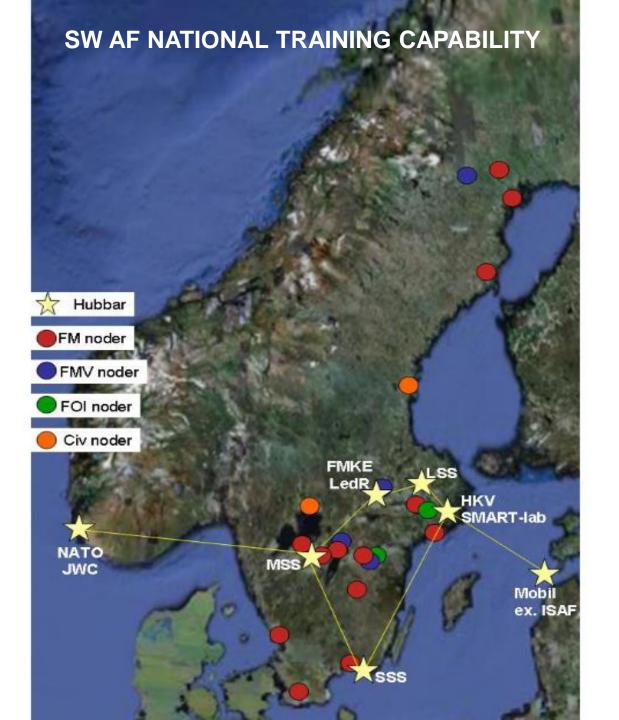


**HEADQUARTERS** 

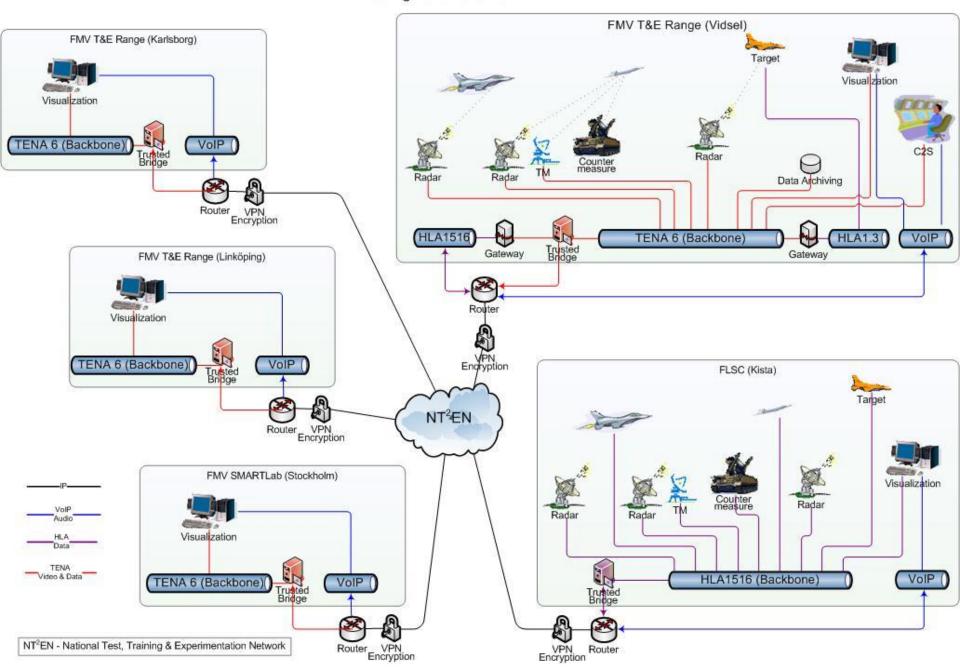








#### Distributed, Mixed (LVC) Missile Test Scenario Configuration overview



## List of Ten Command & Control challenges:

- 1. To meet Warfighters operational requirements of tomorrow
- 2. Mission rehearsal and planning
- 3. Available in Theatre
- 4. Mobile platforms
- 5. Interoperability and Standardised languages
- 6. Federations and integration of training and C2 systems
- 7. Information sharing alliance and partners
- 8. A Comprehensive Approach Civilian dimension
- 9. Persistent low-cost concept –Multinational Capabilities
- 10. Multilevel security

