



**TACOM**  
*Mobility and Firepower  
for America's Army*



# NATO Soldier System Program

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Tank-automotive & Armaments COMmand  
*Committed to Excellence*

**CONSEIL DE L'ATLANTIQUE NORD  
NORTH ATLANTIC COUNCIL**

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***Responsible Organization:***

**Land Group 3 / Working Group 3**

**Chairman: Vernon E. Shisler TACOM-ARDEC**

**U.S. Head of Delegation: Col Bruce Jette PM Soldier**

**TRADOC Rep: Mike Tyron TSM Soldier**

# CONSEIL DE L'ATLANTIQUE NORD NORTH ATLANTIC COUNCIL

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## ***Mission:***

- ***Plan and execute the effort in NATO***
- ***Coordinate the national programs***
- ***Assure interoperability on the future Coalition battlefield***

# Overview of the Soldier System

## The Soldier System Concept

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A System is:  
“ Integration of  
*everything* the soldier

- ***Wears***
- ***Consumes***
- ***Carries***

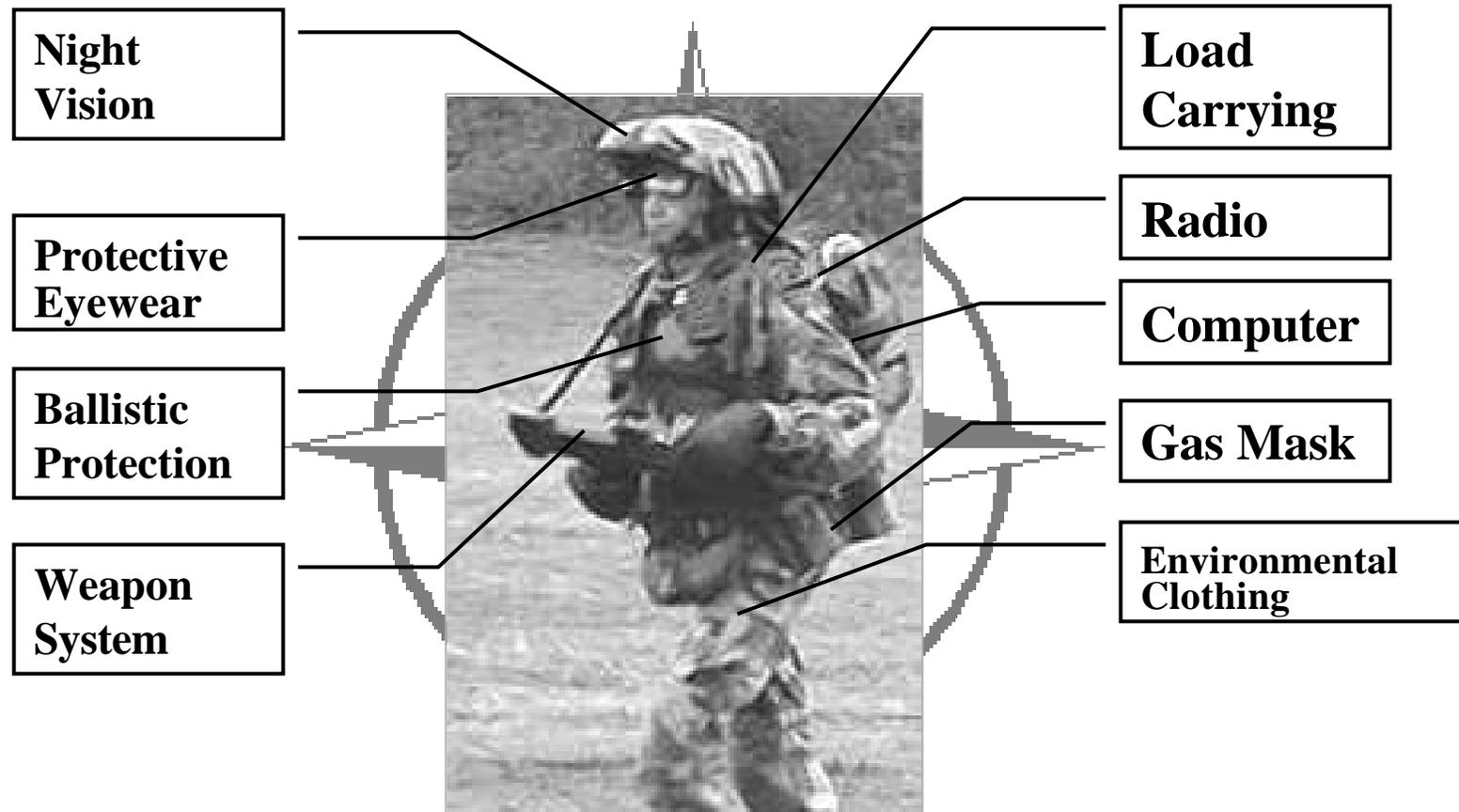
For enhanced individual and collective (small unit) capability within their national command control structure.”



# Overview of the Soldier System

## The Complexity of Soldier System

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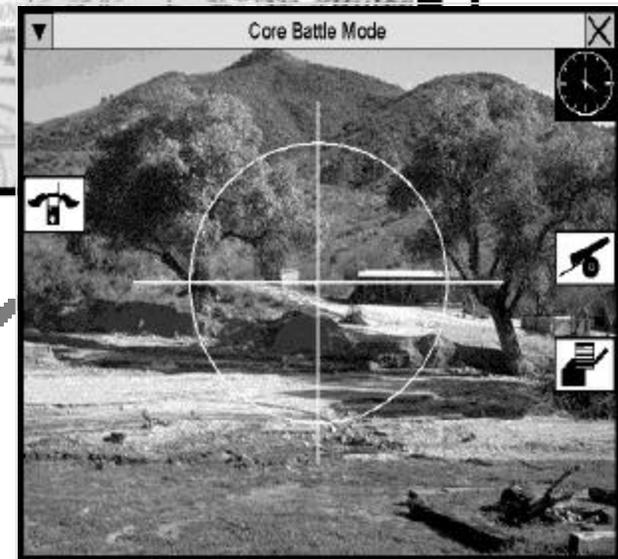
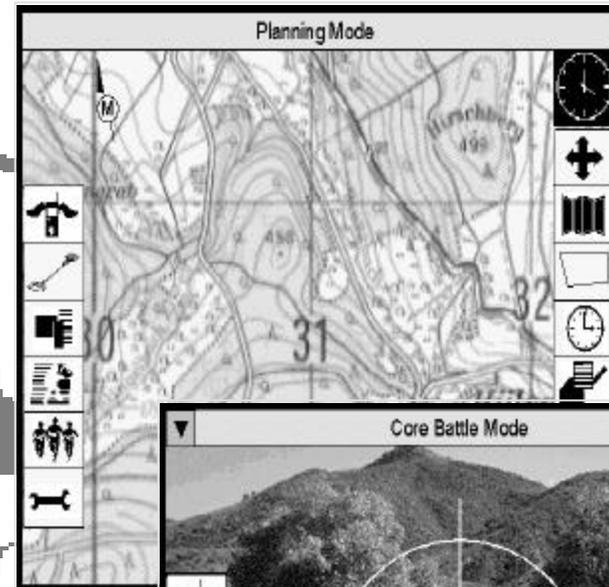


**Integrate “each” into A Soldier System**

# Overview of the Soldier System Integrated Fighting System

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- **Increased Lethality**
- **Soldier to Soldier Communications**
- **Digital reporting**
- **Enhanced Situational Awareness**



# Overview of the Soldier System Integrated Fighting System

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- **Modular design**
- **Mission tailorable**
- **Opportunity for Interoperability**
- **Links the individual soldier to the Digitized Battlefield**
- **Increased survivability**



# **Update activities of LG.3 / WG.3**

## **WG.3 program - 1**

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- **Hosted a Soldier 2000 Demonstration**
  - » 27-30 June; The Netherlands
- **For Senior NATO Leadership**
- **Attended by over 300**
  - » Ambassadors to NATO
  - » Members of the Military Committee
  - » NATO Army Armaments Group
  - » Partner for Peace Nations

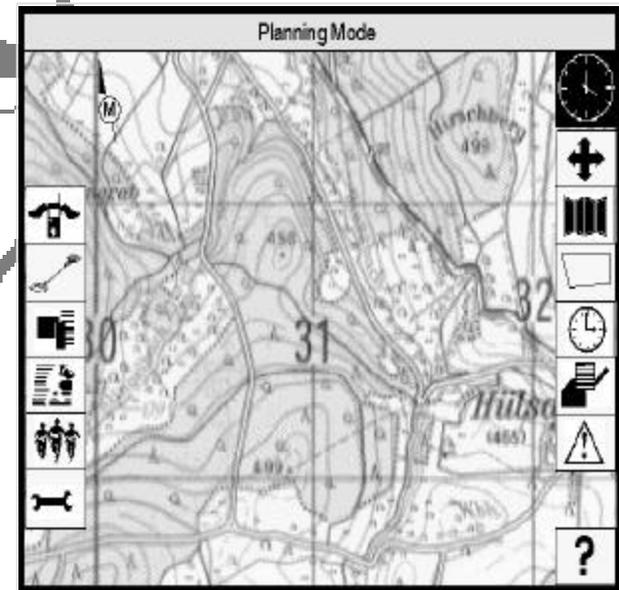
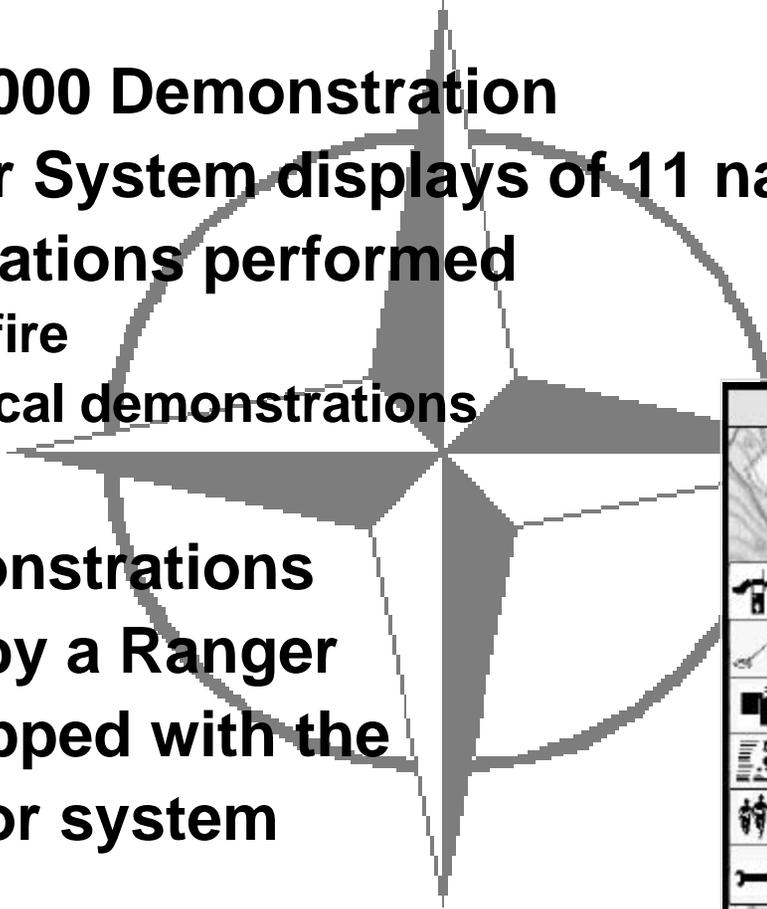
# Update activities of LG.3 / WG.3

## WG.3 program - 2

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- **Soldier 2000 Demonstration**
  - » **Soldier System displays of 11 nations**
  - » **Four nations performed**
    - live fire
    - tactical demonstrations

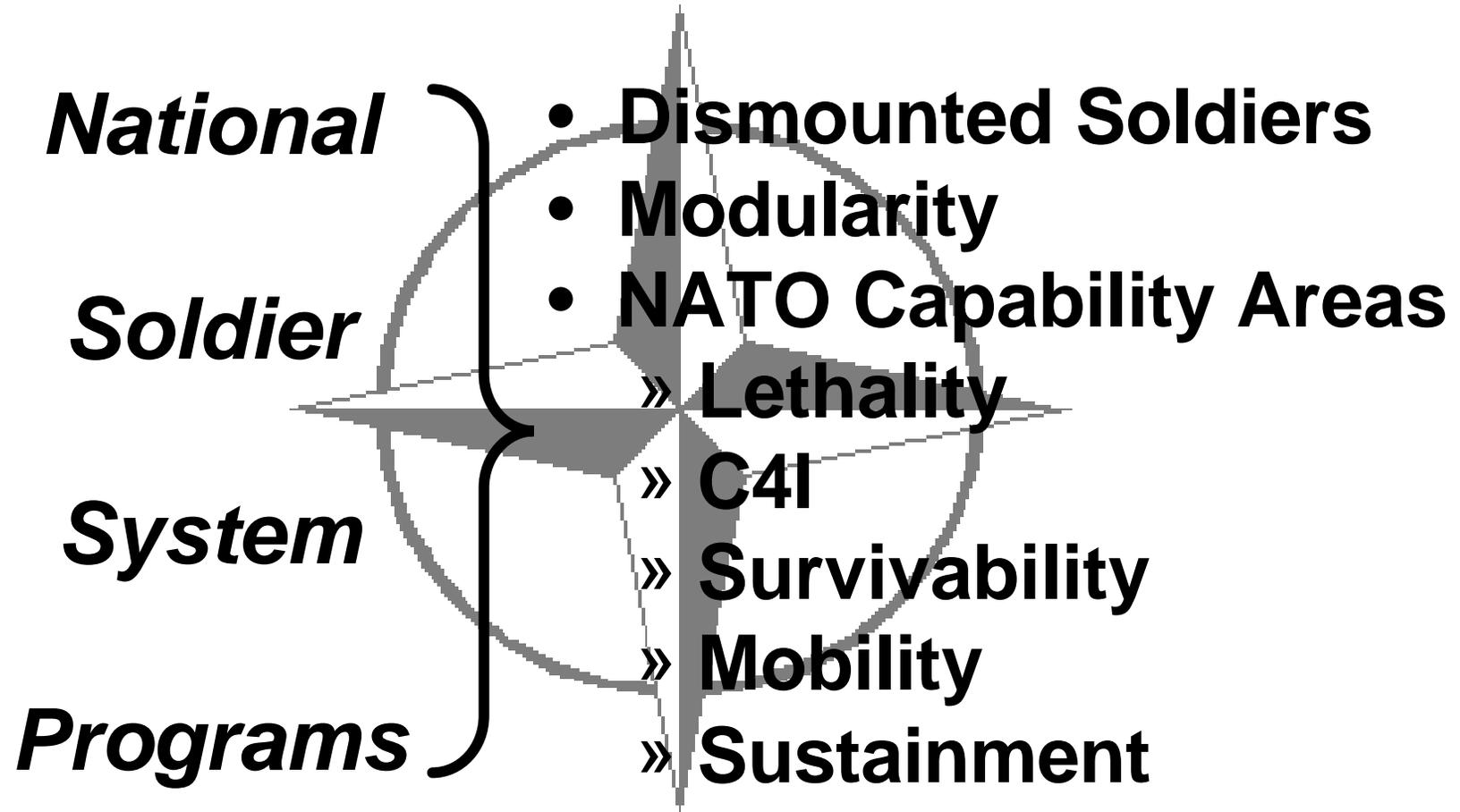
- **U.S demonstrations supported by a Ranger squad equipped with the Land Warrior system**



# Update activities of LG.3 / WG.3

## Nations focusing on different factors

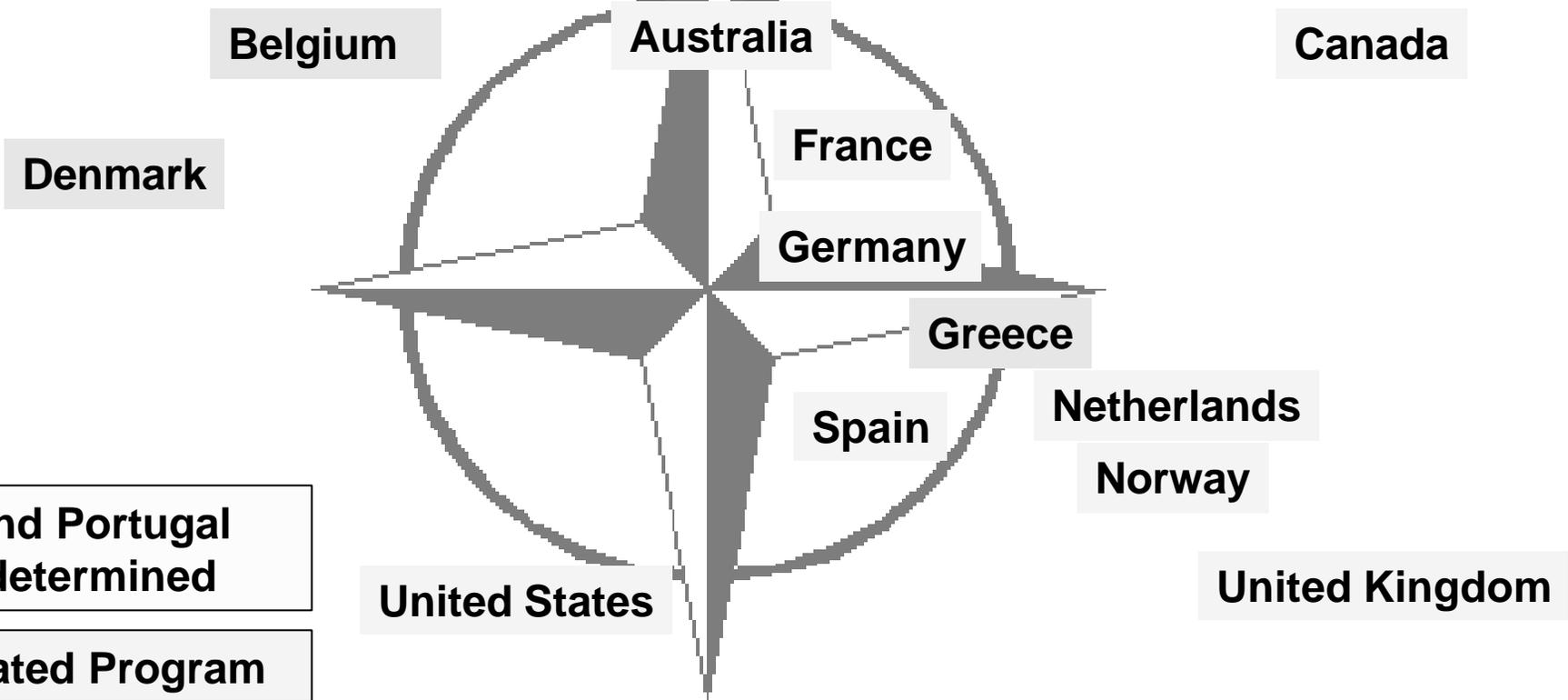
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# Update activities of LG.3 / WG.3

## Different focus on different timelines

00 01 02 03 04 05 06 07 08



Italy and Portugal  
to be determined

Integrated Program

Equipment Program

# Potential areas of interoperability

## Lethality

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- **Combat Identification**
- **Electrical connectors**
- **Common Ammunition**
  - ✓ PDW
  - ✓ High Explosive Airburst
- **Interface devices and sight mounts**



# Potential areas of interoperability

## C4I

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### Take C4I efforts to the individual level

- Data transmission protocols
- Agreed levels of voice, text, graphic, & video to effect C3
- Standard report format (small unit)
- Levels of filtering
- Common displays
- Common applications
- Common symbols



## Potential areas of interoperability

# Sustainability - 1

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## Operational information systems

- Embedded training to facilitate interoperability of forces
- Translation of common military terms
- Organizational and command structure information on all nations
- Mission specific data base



## Potential areas of interoperability

# Sustainability - 2

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### Energy source

- Ability to share energy on the battlefield
- Ability to recharge from available sources



## Potential areas of interoperability

# Survivability - 1

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- Each nation to set level of helmet and body protection

✓ compatibility on sizing

- Drinking system



## Potential areas of interoperability

# Survivability - 2

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- **Camouflage**
  - ✓ standard IR reflectance levels
- **Minimum laser eye protection**
  - ✓ especially during training and exercises



# Potential areas of interoperability

## Mobility

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- **Standard test methods and procedures**
- **Air drop procedures**
- **Digital compass**
  - ✓ basic symbols
  - ✓ hardware and data interface
- **Common map symbols**

# Future activities

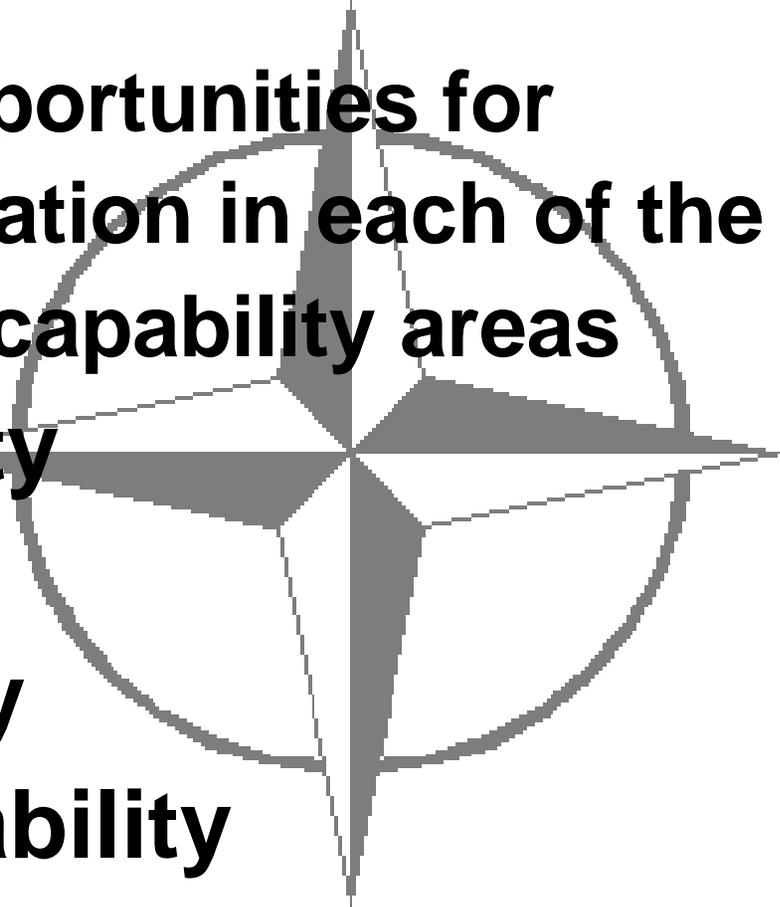
## Efforts - 1

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### Need:

Pursue opportunities for standardization in each of the individual capability areas

- **Lethality**
- **C4I**
- **Mobility**
- **Survivability**
- **Sustainability**



# Future activities

## Efforts - 2

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### Working Group 3

- Given more responsibility and authority in NATO
- Elevated to a Level 2 group

### Topical Group - Soldier System

Interoperability will:

**Assure future coalition interoperability**

# Summary

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- **Many nations are developing future Soldier Systems**
- **A significant effort is being put forth in NATO**
- **The opportunity exists for interoperability at levels not possible in the past**
- **The result is a NATO coalition force with unequalled capability**



**NATO**

**Interoperability**

