

Nordic Armaments Co-operation





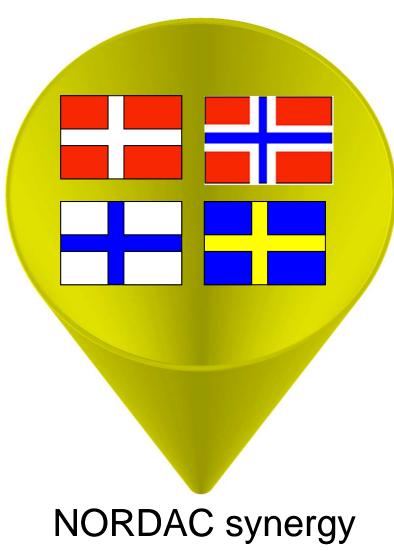
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Collaboration Group on Environment
and Hazardous Materials



## Purpose

- ⇒ Financial advantages
- ⇒ Technology advantages
- ⇒ Industrial advantages
- ⇒ Networking
  - Information sharing
  - Lessons Learned



### NORDAC architecture

<u>Levels</u>

**NORDAC** organisations

MOD	=>	Leading Group
CHOD	=>	Coordination Group
Executing	=>	Cooperation Groups Investigation Groups Project Groups



## **Status**

	Total				
Cooper ation Groups	15	10	13	13	15
Investig ation Groups	6	3	6	2	6
Project Groups	11	4	8	10	11
Other groups	3	1	3	3	3
Total	34	18	30	28	34



## The NORDAC Groups

#### **Project Groups**

Advanced Mortar System, AMOS Nordic Standard Helicopter Project, (NSHP)

**VIKING Submarine** 

System Hearing Protector with

Communication Equipment,

(HCOM)

**Forward Observer System** 

40 mm Automatic Grenade

**Launcher System (AGL)** 

**Exchanger of Loads for All-Terrain** 

Carrier 206

Naval – Vessel – Engines (MTU)

Torpedo/Mine/Sensor (TMS)

Sea Surveillance System

#### **Investigation Groups**

**Armoured NBC** 

reconnaissance vehicle

**Small Arms Ammunition** 

**Air Base Equipment** 

Fire Support

**Naval AA-guns** 

**Explosive Ordnance -**

**Disposal - Information -**

System (EOD IS)

**Naval Mine Clearance II** 

120 mm ammunition for

**LEOPARD 2** 

#### **Cooperation Groups**

**Artillery Hunting Locating** 

Radar (ARTHUR)

**Protected Earth Moving** 

**Machines** 

**Silent Water Jet Propulsion** 

**RBS 15** 

**RBS 17 Hellfire** 

**Environment and Hazardous** 

**Materials** 

Soldier 2010

All-terrain carrier 206

**Nordic SHARE III/Common** 

**Items** 

**Combat Helicopters** 

**NATO Armaments Ballistic** 

**Kernel (NABK)** 

**Underwater Combat System** 

**Surface Combat System** 

**Amphibious Combat System** 

**Naval Air Defence System** 



### Span in the cooperation

#### VIKING

 Complex material development- and purchasing project.

- Environment and Hazardous Materials
  - Co-operation between specialists with the purpose of finding substitutions for unwanted chemicals and materials.



## Nordic Materiel Co-operation **Skeleton Nordic Directive**

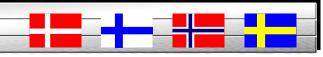
# for "Joint Collaboration Group on Environment and Hazardous Materials"



#### **Produced by:**

• The Nordic Co-ordination Group **Date**: 2004-06-10

Nordic Armaments Co-operation





# Aim and Purpose of the Collaboration Group

- To better utilise the resources of the individual country for the mutual benefit of the participating countries through a closer cooperation and exchange of information.
- To influence the procedures of acquisition in order to create a better basis for purchases with consideration to the environment.
- To expand environmental consciousness and position within the individual organisations.
- To support the individual countries in their relations to the suppliers.
- To contribute to establishing better education by passing on information.
- Investigate legislature and other requirements and alternative documentation if any in the area e.g. STANAGS.
- information and education in area.

## Aim and Purpose Continued

- Elaborate a joint Nordic policy on the areas "Hazardous Materials" and Purchases with Consideration to Environment" based on the requirements of most restrictive country with the aim to enhance the level of the individual countries the most.
- Establishment of a compatible date base and a joint Nordic procedure for registration of chemical products.
- Substitution of undesirable chemical products and materials.
- Establishment of a network and co-ordination and passing on of information and co-operation, among other things, exchange of professional contacts.
- Environmental requirements to the suppliers by acquisition of materiel systems.
- Motivation of the eastern countries to enhance the environ-mental consciousness by passing on information and educa-tion in the area.



## Main Projects

- Management of Hazardous Materials
   Data Base and MSDS.
- Replacement of Halon 1211 and 1301 (ODS) in Ships and Air craft.
- 3. Substitution of Runway De-icer (UREA-Nitrification) with Environmentally Friendly Product.
- 4. Chromate Free Primers



➤ Possible Alternative: Novec 1230

➤ Laboratory test

➤ Large Scale



#### Alternatives:

- Formates
- Acetates
- Betafrost

- Laboratory Tests
- Large Scale Tests
- Toxicological Evaluation



## QUESTIONS?



