



# German Liaison Office for Defense Materiel USA/ Canada

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**US/German Science and Technology Cooperation**

**NDIA International Infantry & Joint Services Small Arms Annual Symposium,  
Exhibition and Firing Demonstration  
Atlantic City, NJ, May 16 – 19, 2005**



**Bundeswehr**

## **Agenda**

***German Liaison Office***

***US/German Science and Technology Cooperation***

***Summary***

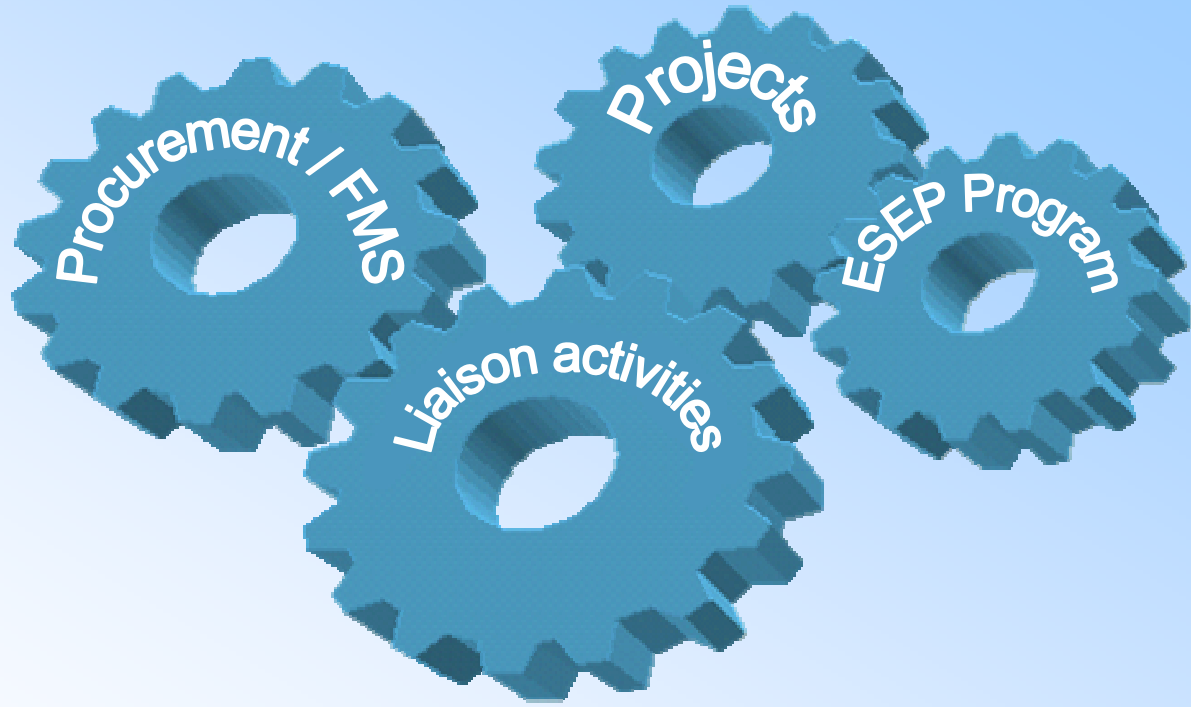
**DtVStRü**



# Primary Activities of the GLO



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**HQ AMC**  
(US Army Materiel Command)



**CECOM**  
(US Army Communications Electronics Command)



**PEO STRI**  
(Program Executive Office Simulation, Training and Instrumentation)



**TACOM**  
(US Army Tank Automotive Armament Command)



**ARDEC**  
(US Army Armament Research, Development & Engineering Center)



**DTC**  
(US Army Developmental Test Command)



**AAC**  
(Air Armament Center)



**HQ AFMC / AFRL**  
(Air Force Materiel Command / Air Force Research Laboratory)



**NAVSEA**  
(Naval Sea Systems Command)

**German Liaison Office for Defense Materiel USA/Canada**

BDir Holger Mundt, Deputy Director, Landsystems, IT



# Locations of the German Liaison Office USA/Canada and its field offices



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**German Liaison Office for Defense Materiel USA/Canada**

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4/12

05-18-2005





**Bundeswehr**

# **Agenda**

***German Liaison Office***

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***Summary***

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## **44 Data Exchange Agreements established:**

**6 DEAs were signed in 2004**

**Samples for particularly successful DEAs:**

**DEA-A-71-GE-1133 Preparation, Preservation & Packaging of Food**

**DEA-A-03-GE-1672 Mortar Systems**

**DEA-A-80-GE-1271 Proving Ground Techniques**

**DEA-A-94-1520/1521/1311 Soil, Water, Hazardous Materials**

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## **50 GE Foreign Comparative Testing Projects since 1981**

**26 Procurements with a total Value of \$1.021 Billion**

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**1 Project Agreement in preparation**

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**MoU e.g. ESEP, Test and Evaluation, Fox NBC Log**



# AMC/BWB Armament Cooperation



## Science and Technology Steering Committee

**BG (P) Roger Nadeau**  
(CG RDECom)



**Mr. Harald Stein**  
Vice President, Federal Office for Defense  
Technology and Procurement, Koblenz

**COL Robert Schulz**  
U.S. Army International Technology  
Center



**Mr. Holger Mundt**  
Deputy Director, Landsystems, IT  
German Liaison Office for Defense Materiel  
Liaison Officer to AMC

**Dr. Gary Allen**  
U.S. Army International Technology  
Center



**Mr. Hermann Schneider**  
German Liaison Officer to DTC, Aberdeen, MD  
German Liaison Office for Defense Materiel

## Science and Technology Working Group

**German Liaison Office for Defense Materiel USA/Canada**

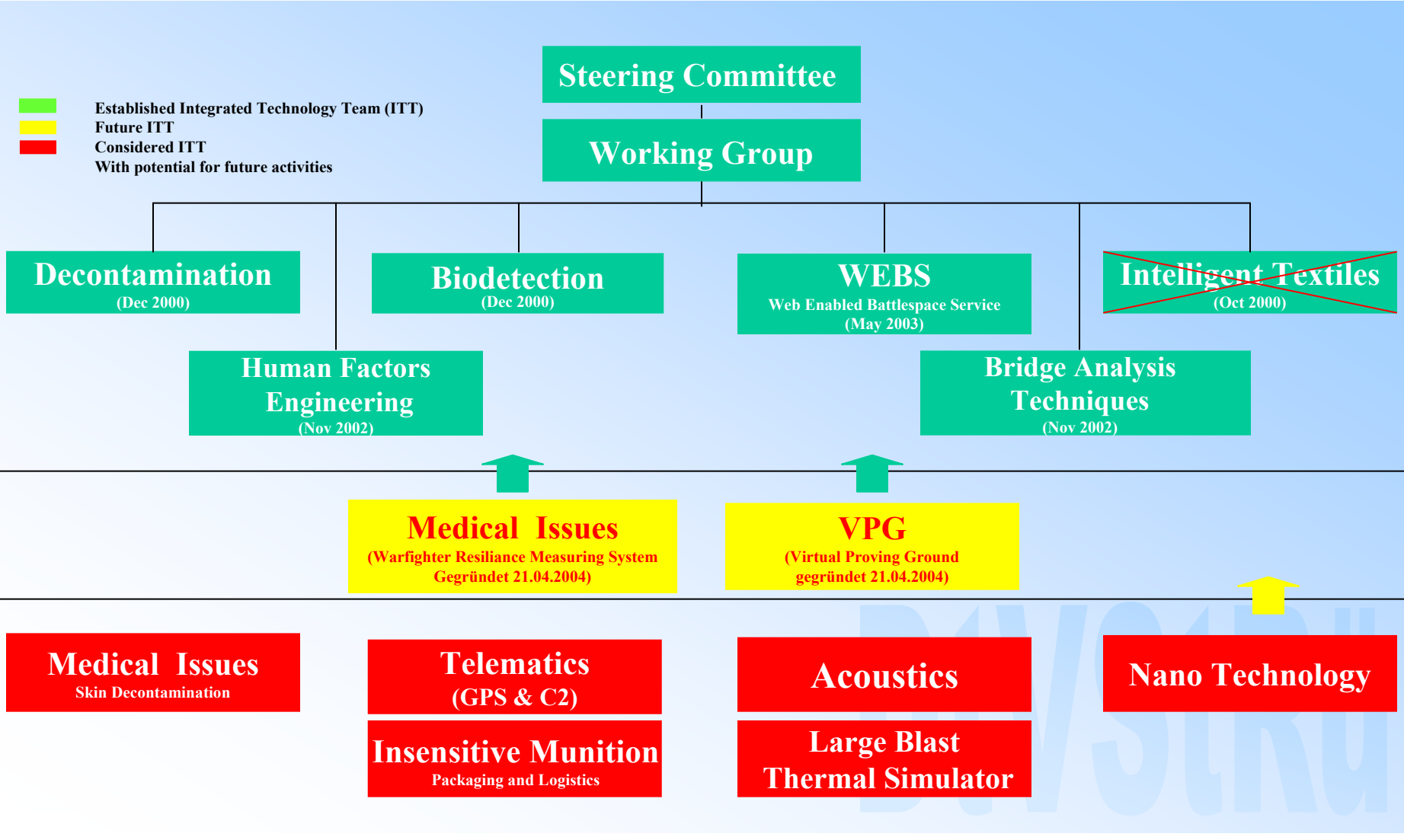
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# AMC/BWB Armament Cooperation



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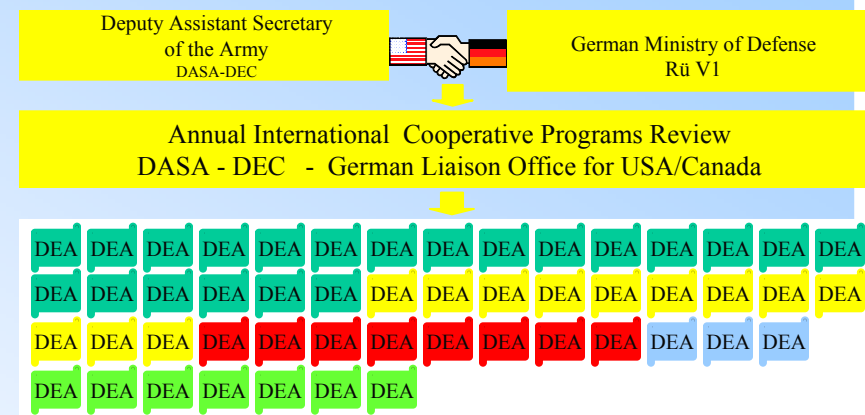
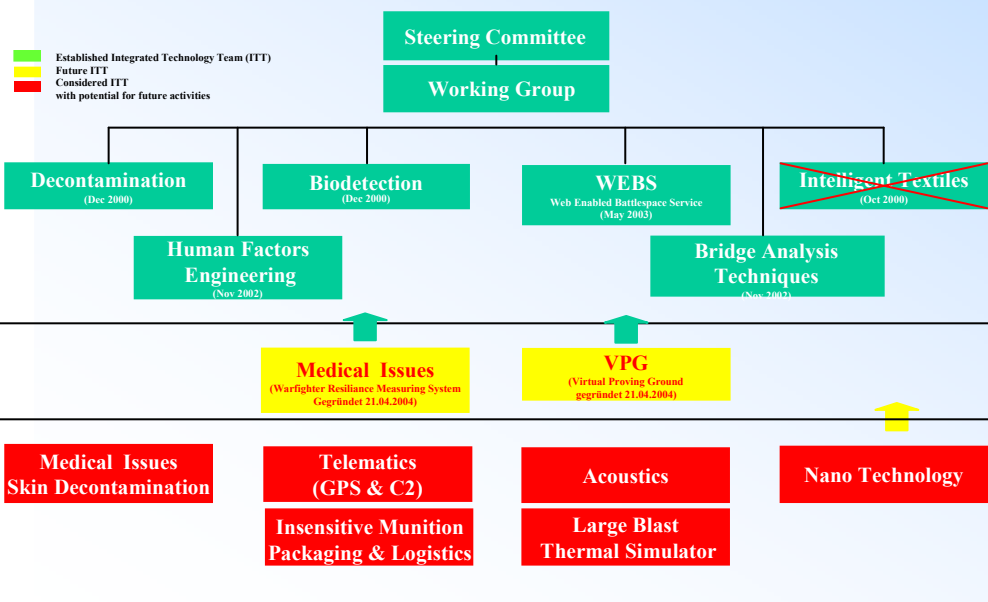
# AMC/BWB Armament Cooperation



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## Transfer based on legal agreement, performance (Controlling Mechanisms) and approval by S&TSC



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# **Agenda**

***German Liaison Office***

***US/German Science and Technology Cooperation***

***Summary***

**DtVStRü**



### German Liaison Office for Defense Materiel USA/CAN

- is the Point of Contact for all sorts of US/GE activities
- manages all sorts of information exchanges
- manages existing US/GE agreements (DEA/PA/MoU/Loans)
- supports German defense programs
- supports DCS contracts and FMS cases
- supports/coordinates the Scientists Exchange Program

and is an organization with liaison offices at major US commands

- capable to identify, establish, and manage US/GE cooperation by covering all essential aspects of a successful US/GE partnership.



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# Questions ?



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**Bundeswehr**

***Back – up slides***

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## Liaison Tasks



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- POC for U.S. / Canadian and German Governments (Federal Office of Defense Technology and Procurement, BWB; Federal Office of the Bundeswehr for Information Management and Information Technology, IT-Amt) and industry
- Report on U.S. defense technology developments
- Support the planning and execution of German defense programs
- **Coordinate technical data exchange**
- **Initiate, support and manage joint S & T activities**
- Quality assurance
- Foreign Comparative Testing
- Support / coordinate Scientists Exchange Program

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14/12

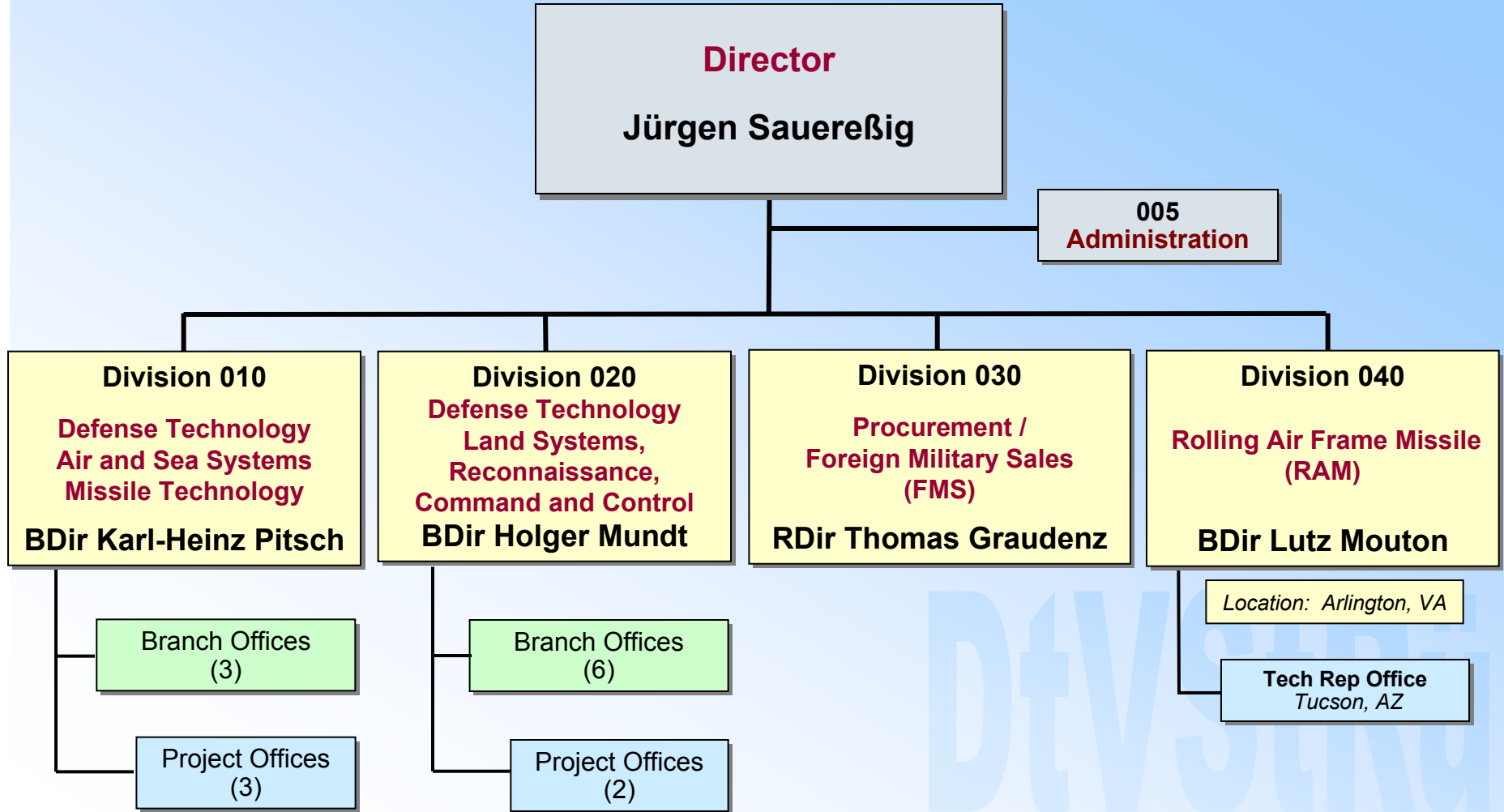
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# Organization of the GLO



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# GLO – Cooperation Programs



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**PATRIOT**  
Missile System



**NILE**  
NATO Improved Link 22

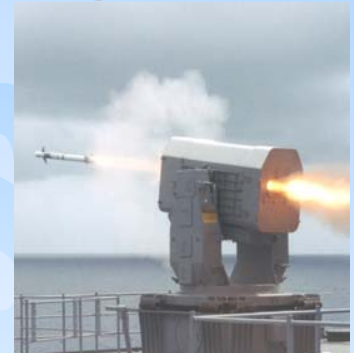
**VLS MK 41**  
Vertical Launch System



**(G)MLRS**  
(Guided) Multiple Launch  
Rocket System

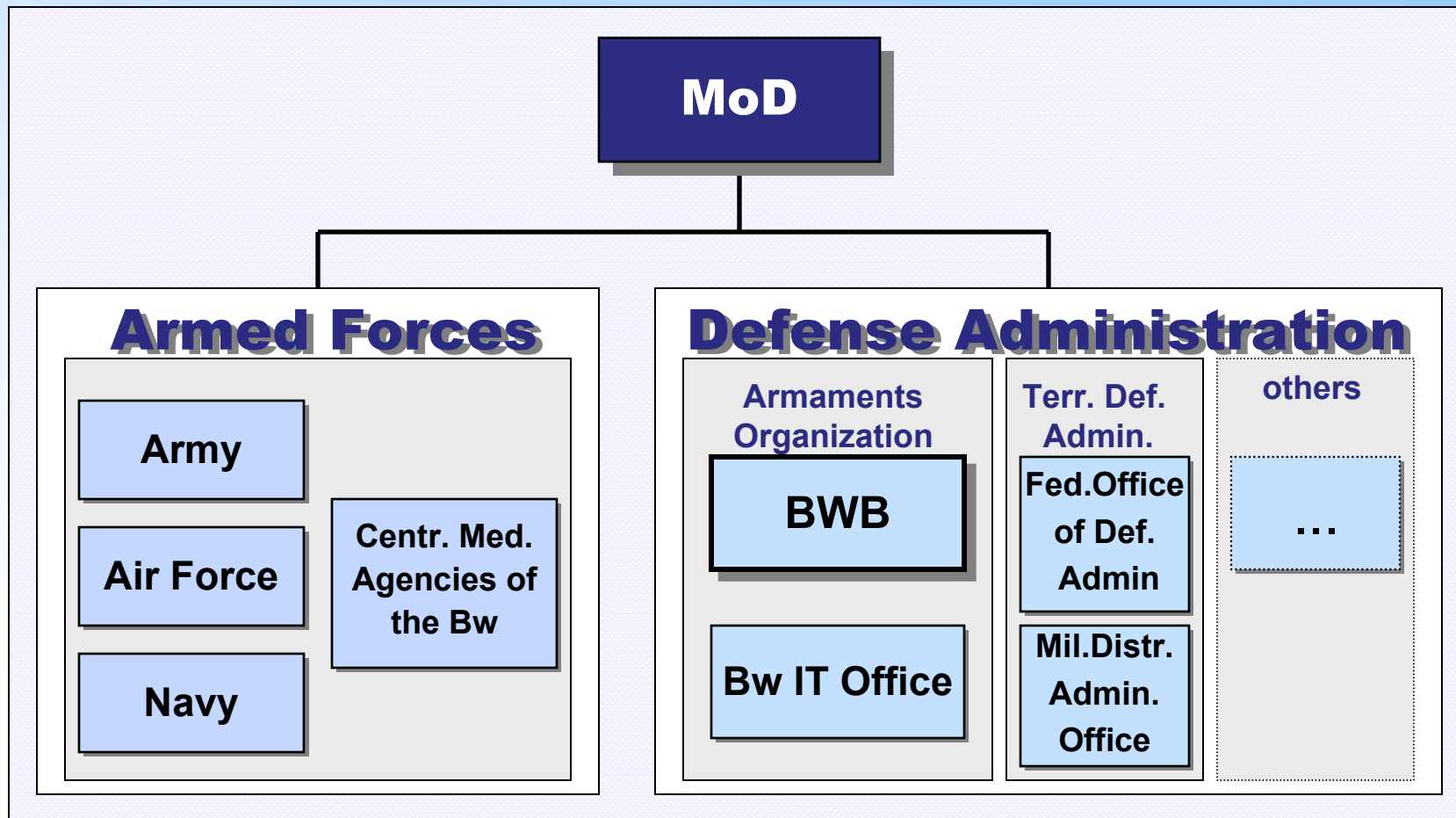


**RAM**  
Rolling Airframe Missile





# Simplified Bundeswehr Structure





# Armaments Organization



Bundeswehr

**Armaments Director**

**IT Director**

MoD

Supervision

**BWB**  
(German Federal Office for Defense Technology and Procurement)  
**S&T, RDE, PM**

**IT Office**  
**Technology Information system**

Federal Offices

**Technical Centers**

**GLO**

**IT Center**

Centers

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# BWB Test Center, Research Institutes, Arsenal



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## Technical Centers:

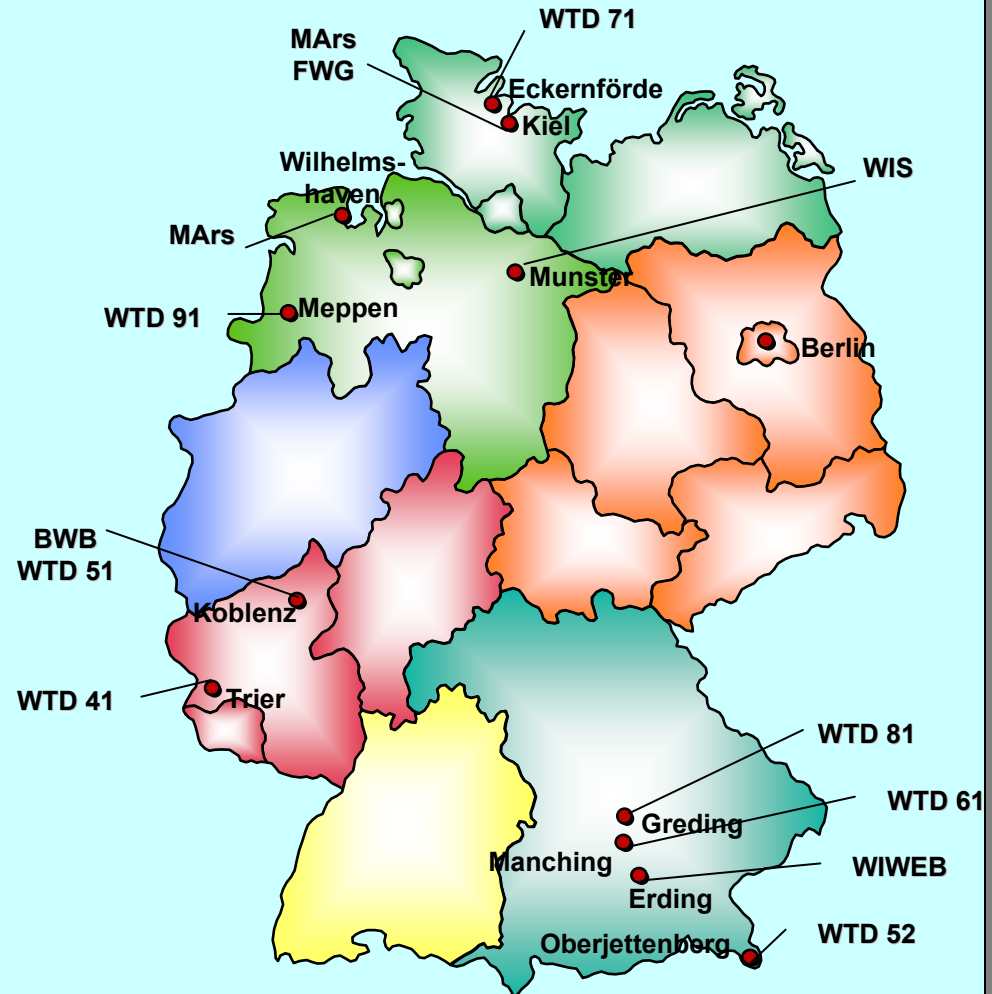
- WTD 41 Vehicles/Tanks
- WTD 51 Engineering Equipment
- WTD 52 Protection
- WTD 61 Aircraft/Aeronaut. Equipment
- WTD 71 Ships/Naval Weapons
- WTD 81 Communication/Electronics
- WTD 91 Weapons/Ammunition

## Research Institutes:

- WIS NBC Protection
- WIWEB Materials/Explosives
- FWG Oceanography

## Naval Arsenals:

- MARS 2 Installations



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## Contracts Statistics



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	1999	2000	2001	2002	2003
Direct Contracts	673	556	483	546	564
Value (in million US\$)	31.79	22.17	22.7	31.7	32.6
FMS Contracts	125	150	137	141	143
Value (in million US\$)	292.8	291.8	100.1	178.3	210.2





# New Structure of BWB



Bundeswehr

Organization Staff

Central Controlling

President

Vice-President

President's Office

Economic and Technical Services

Project Division "Land Combat"

Project Division "Air"

Project Division "Sea"

Project Division "Land Support"

Central Services

Test Centers (7)

Research Institutes (3)

Naval Arsenal (1)

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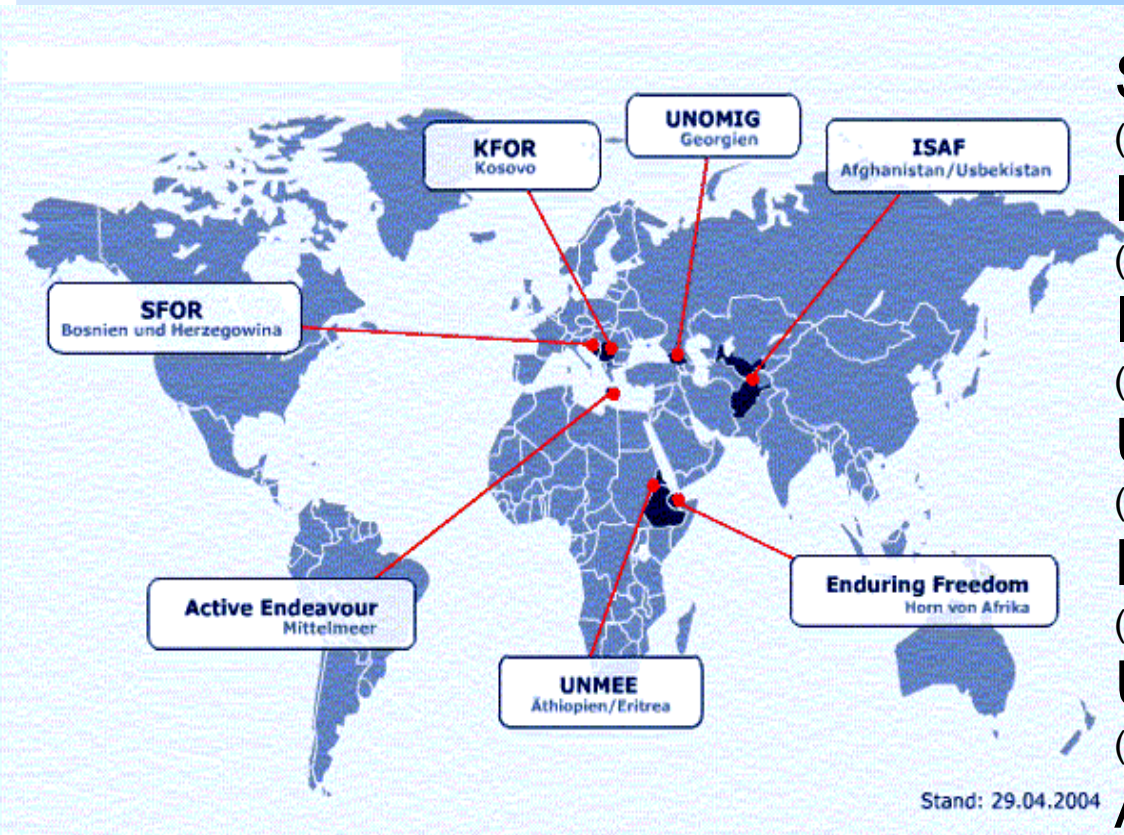
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# Current Deployment of German Armed Forces International Operations (as of 04/2004)



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<b>SFOR:</b> (Stabilization Force)	1,300
<b>KFOR:</b> (Kosovo Peacekeeping Force)	3,600
<b>ISAF:</b> (International Stabilization Force)	2,000
<b>UNOMIG:</b> (United Nations Observer Mission in Georgia)	11
<b>EF:</b> (Operation Enduring Freedom)	250
<b>UNMEE:</b> (UN Mission in Ethiopia & Eritrea)	2
<b>Active Endeavour:</b>	450
<b>Overall:</b>	about 7,700



# GE / US Programs – Cost Overview



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Stand: August 2003

	Program	Duration	Total Cost (Mio US \$)	GE Share (Mio US \$)	GE Share 2003 ff. (Mio US \$)
<b>NAVY</b>	<b>RAM Beschaffung</b> <b>KWS</b> Rolling Airframe Missile	2001 - 2007	1.000	240	217
	<b>FüWES</b> Trilateral Frigate Cooperation	1996 - 2005	2.130	150	40
	<b>ESSM</b> Evolved SeaSparrow Missile	1996 - 2010	3.629	257	210
<b>ARMY</b>	<b>GMLRS / MLRS</b> (Guided) Multiple Launch Rocket System	1979 - 2016	182	23	3
	<b>Patriot, 2. KWA</b> Ground-to-Air Missile	1993 - 2005	2.000	231	20
<b>IT</b>	<b>MIDS</b> Multifunctional Information Distribution System	1991 – 2007	320	55	35