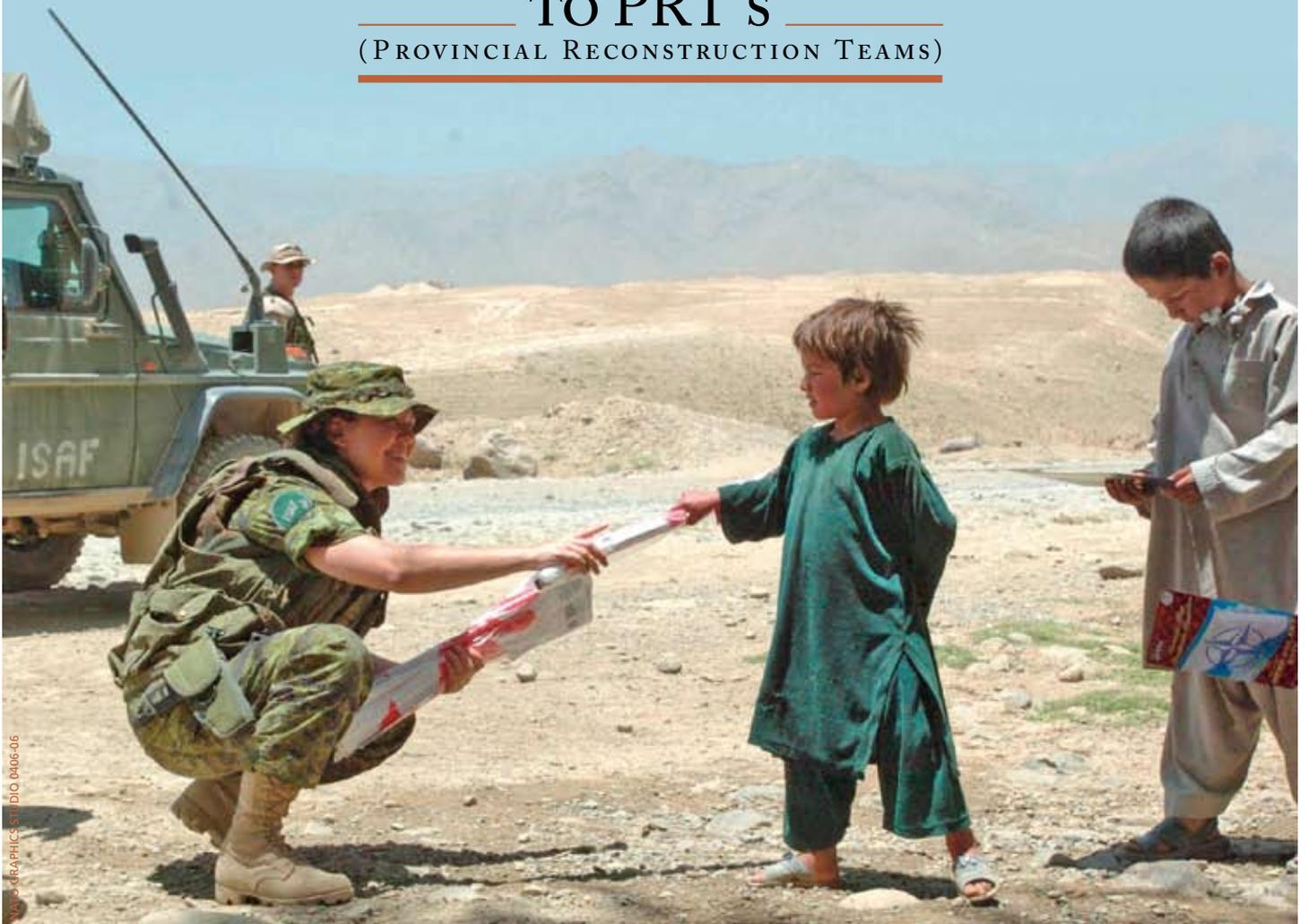


CNAD EXHIBITION 2006
NATO HQ BRUSSELS, BELGIUM

26-27 APRIL 2006



TECHNOLOGY SUPPORT
TO PRT's
(PROVINCIAL RECONSTRUCTION TEAMS)



5th CNAD Exhibition

“TECHNOLOGY SUPPORT TO PRT’S”

Foreword by the Chairman,
Conference of National Armaments Directors (CNAD)

We find ourselves in an extremely complex international security environment. The political realities of our time, driven by regional instability, the threat of terrorism, and failing states, have given new emphasis to stabilization and reconstruction operations. NATO, and NATO nations, have found it necessary to adjust traditional military methods of action by including new approaches and technologies that emphasize civil-military co-operation in this field.

NATO took on the command and coordination of the International Security Assistance Force (ISAF) in Afghanistan in August 2003. The heart of NATO’s ISAF mission are its Provincial Reconstruction Teams (PRTs). PRTs are small teams of international civilian and military personnel working side by side to support the growth of Afghanistan to provide security and to facilitate reconstruction work. They are key in supporting the three pillars of the Bonn Agreement: security, reconstruction and political stability. While it is not a particularly new concept to combine civil and military methods, for NATO the use of PRTs has required a number of adjustments.



The jobs of PRTs are many and varied. Indeed, each NATO PRT is structured differently, according to the demands of the particular environment into which they are deployed.

One major aim of PRTs is improving the security environment for the Afghan people through dialogue with provincial leaders and confidence building activities focused on likely areas of conflict. A corollary task is to monitor, assess, advise on and support security sector reform activities, most particularly development of Afghan National Army and police training.

Finally PRTs provide a visible presence in assigned areas of operation, monitoring and assessing the military and civil situations within those provinces. ISAF civil-military

cooperation teams work in close co-operation with the local population and authorities, as well as with international and non-governmental organizations (NGOs) to improve the situation on the ground through concrete projects in the field of education, health, water and sanitation (to name just a few).

Not surprisingly, the technological and equipment needs of a PRT are often different from the needs of an “ordinary” combat unit. A premium is placed, for instance, on situational awareness. Having the right kind of information and communications gear, so that the PRTs can talk with NGOs and aid workers, is crucial. Planning tools for civil works are invaluable. Flexible construction equipment that can be used in a variety of projects is likewise important. And the list goes on...



For this reason, the CNAD Exhibition “Technology support to PRTs” is intended to foster close cooperation among Allied industries, research and technology institutions and military authorities. It provides companies the possibility to present their most innovative concepts and designs to support PRTs, and serves as a forum to exchange ideas and know-how among companies, National Armaments Directors (NADs), NATO staff and national delegations. In particular, the

presence of NADs, the most senior defence procurement officials from each NATO Nation, who are currently participating in the Spring 2006 CNAD plenary meeting here at NATO HQ, assures high-level visibility to the crucial mission of the Alliance’s PRTs in Afghanistan.

With regard to industrial participation, we have presented a balanced mix of companies from NATO’s Nations. Each of these companies is a valuable team member in enabling the Alliance to succeed in its critically important task of bringing security, political stability and reconstruction to Afghanistan.

I thank the exhibitors for coming to NATO and making this Exhibition so useful to our nations and our collective security. Welcome to the Spring CNAD Exhibition “Technology Support to PRTs”.

A handwritten signature in blue ink that reads "Marshall Billingslea".

Marshall Billingslea
NATO Assistant Secretary General
for Defence Investment

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TIPS, the Transatlantic Industrial Proposed Solution for NATO AGS

organisation profile

The TIPS group of Companies are EADS (GE); Galileo Avionica (IT), General Dynamics (Canada), Indra (Spain), Northrop Grumman (USA), Thales (Fr)

exhibited products

NATO Alliance Ground Surveillance. Based on battle technologies of Ground Motion Target Indication and Synthetic Aperture Radar imagery, NATO AGS is entering Design and Development on its way to acquisition as a NATO owned and operated capability.



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Alcatel Alenia Space

organisation profile

Alcatel Alenia Space (in short: AAS) was established in 2005 as a merger of Alcatel Space Industries and Alenia Spazio.

Today AAS is the largest space industry in Europe and the third largest worldwide, with 7,200 employees, whereof about 700 dedicated to ground equipment and systems business.

exhibited products

Satellite terminals and navigation receivers.

Environmental monitoring networks.

Process control systems.

Explosive detectors based on nuclear techniques (e.g. neutron backscattering).



BITOVA ELECTRONIKA AD



organisation profile

Bitova electronika AD is a joint-stock company, engaged in scientific, research and development, implementation, engineering, production, commercial and maintenance applications in Bulgaria and abroad in the fields of consumer video and audio equipment for reception, recording and reproduction of programs with civil application and communication devices for the defense.

The company has certificates of quality ISO 9001:2000, ISO14001:2004, AQAP2110

exhibited products

The project supports modernization of Bulgarian Air Forces in upgrading their IFF capabilities according to modern NATO and ICAO requirements. The project includes deep hardware and software upgrade of obsolete Russian type stand-alone IFF system, provide capabilities system to be integrated as medium to long range sensor in all types of modern autonomous and centralized air defense and ATC systems.

The Boeing Company Integrated Defense Systems

organisation profile

Integrated Defense Systems, a unit of The Boeing Company, is one of the world's largest space and defense businesses; a \$27 billion business providing systems solutions to its global military, government and commercial customers. Capabilities within the business focus on market areas: Advanced Systems, Support Systems, Network and Space Systems, and Precision Engagement and Mobility Systems.

exhibited products

ScanEagle is a long-endurance, battle-proven unmanned aerial vehicle (UAV) system developed by Boeing. It recently surpassed 10,000 combat flight hours in less than two years supporting U.S. Marine Corps and Navy operations. Persian Gulf tactical commanders in Iraq rely on ScanEagle as a forward observer to provide intelligence, surveillance and reconnaissance (ISR) data and information.



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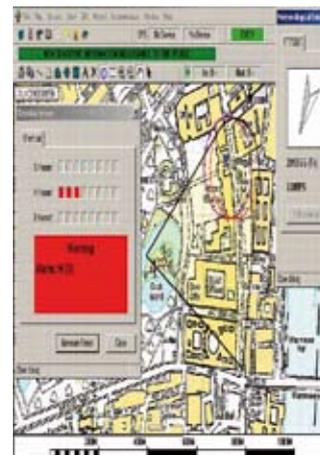
organisation profile

Bruhn NewTech is a Technology company that produces a range of Risk Management software for EOD purposes and in addition integrates chemical, biological, radiological & nuclear (CBRN) sensors.

exhibited products

Explosive Ordnance Disposal

Bruhn NewTech produces software for Explosive Ordnance Disposal requirements. EOD Frontline predicts the explosive hazard area and if applicable the downwind hazard area for ordnance which contains CBRN material. It can also demarcate areas cleared from Unexploded Ordnance. Bruhn NewTech also produces Software known as EOD NET for the sharing of information/ knowledge of EOD incidents.



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CAMSS Shelters

organisation profile

CAMSS Shelters has been in business for over 20 years.

The company is a world leader in the design and manufacture of portable shelters for military, commercial, and disaster relief operations. CAMSS Shelters are in use by U.S. forces for worldwide bare base operations and the largest hospital in Iraq, NATO for their Deployed CJTF HQ, and humanitarian relief organizations.



exhibited products

CAMSS Shelters manufactures a family of portable fabric shelters that fully integrate to provide military hospitals, billeting, kitchens, vehicle maintenance facilities, command posts, and aircraft hangars. CAMSS Shelters are manufactured from high-strength aluminum, have fabric covers, and range in size from 16 feet wide (4.9m) to 65 feet wide (19.8m). They are compact, lightweight, and quick to assemble.

Chemviron Carbon

organisation profile

Chemviron Carbon is the European Operations of Calgon Carbon Corporation. Currently listed on the NY Stock exchange Calgon Carbon is the leading global supplier providing product (activated carbon), services and engineering to meet customers' purification, separation and recovery needs.

exhibited products

The stand will include the portable display panel with lighting, a mannequin with NBC protective suit / garments with helmet and webbing, samples of activated carbon (cloth and granular forms) filters, gloves, glass head with masks, promotional materials and literature.



B Consulting Service Security Ltd. (BCS Ltd.)

organisation profile

BCS Ltd. was established in 1990. and since that one of the leading company in the security market in Hungary. We provide for our customers complex professional security systems from the designing to the long-term maintenance. We struggle to build up systems from the most sophisticated and reliable products and search for the co-operation with the leading manufacturers.

exhibited products

ChemPro100 handheld chemical detector an ultra fast first alarm/post attack unit for detection of all kind harmful chemicals. It is designed to detect chemical warfare agents (CWAs) and toxic industrial compounds/materials (TICs/TIMs).

UAV multipurpose unmanned air vehicle. 60-70 minutes flying time, 10-25 km range, 50-150 m max flying height, 100 km/h max speed. Payload max 500g, in a volume of 300x90x80 mm.



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CSOK

Czech Chamber of Commerce

organisation profile

Czech Chamber of Commerce take the place of portfolio of Czech firms

exhibited products

DIEHL
BGT Defence

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18

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Diehl BGT Defence GmbH & Co. KG

organisation profile

Diehl BGT Defence's business activities focus on the fields of defence and homeland security. With some 1,600 employees and annual sales of 300 million Euros, it is the largest company of Diehl VA Systeme (Defence and Avionics).

In addition to guided missile and artillery rocket systems, high-precision conventional and intelligent ammunition, the core business covers system solutions for homeland security tasks, training missions, reconnaissance and force protection.

exhibited products

The HPM source DS 110 Suitcase is one example of Non Lethal HPM products against terrorist activities. The DS110 technology is able to neutralize communication and surveillance electronics as well as electronics used in booby traps and IED's (Improvised Explosive Devices).



Miniaturized Device for Automatic Identification of Biological Warfare Agents

On-site device for fast and reliable BW-agent identification is the most important prerequisite for initiation of countermeasures to a BW-agent attack.

EADS

Defence and Security Systems / Military Air Systems

organisation profile

EADS Military Air Systems is the center of competence of EADS for fighter aircraft, manned mission aircraft, trainer aircraft and unmanned aerial vehicles (UAV). In addition, EADS Military Air Systems provides also the associated ground-based systems plus accompanying training services and comprehensive system support throughout the entire service life. EADS Military Air Systems offers solutions based on most modern technologies.

exhibited products



AUTOPOL is a system which automatically scans infrared images recorded by helicopters for predefined objects. The method is based on artificial intelligence and digital image processing algorithms. It can be adapted to new or extended scenarios.



WAT (WEAPON & AMMUNITION TRAINING) unifies modular training tools for EOD/IEDD training including ammunition databases, conventional and computer based training and operational mission simulators.

FINMECCANICA

organisation profile

Finmeccanica group is the Italian leader in high technology and research and development and is among the leading European companies in defence, aeronautics, helicopters, space and safety with well-established skills and production assets in the transportation and energy sectors. Finmeccanica is a holding company providing industrial and strategic control with over 62,000 employees in Italy, other EU countries, the Americas, Asia and Australia.

exhibited products



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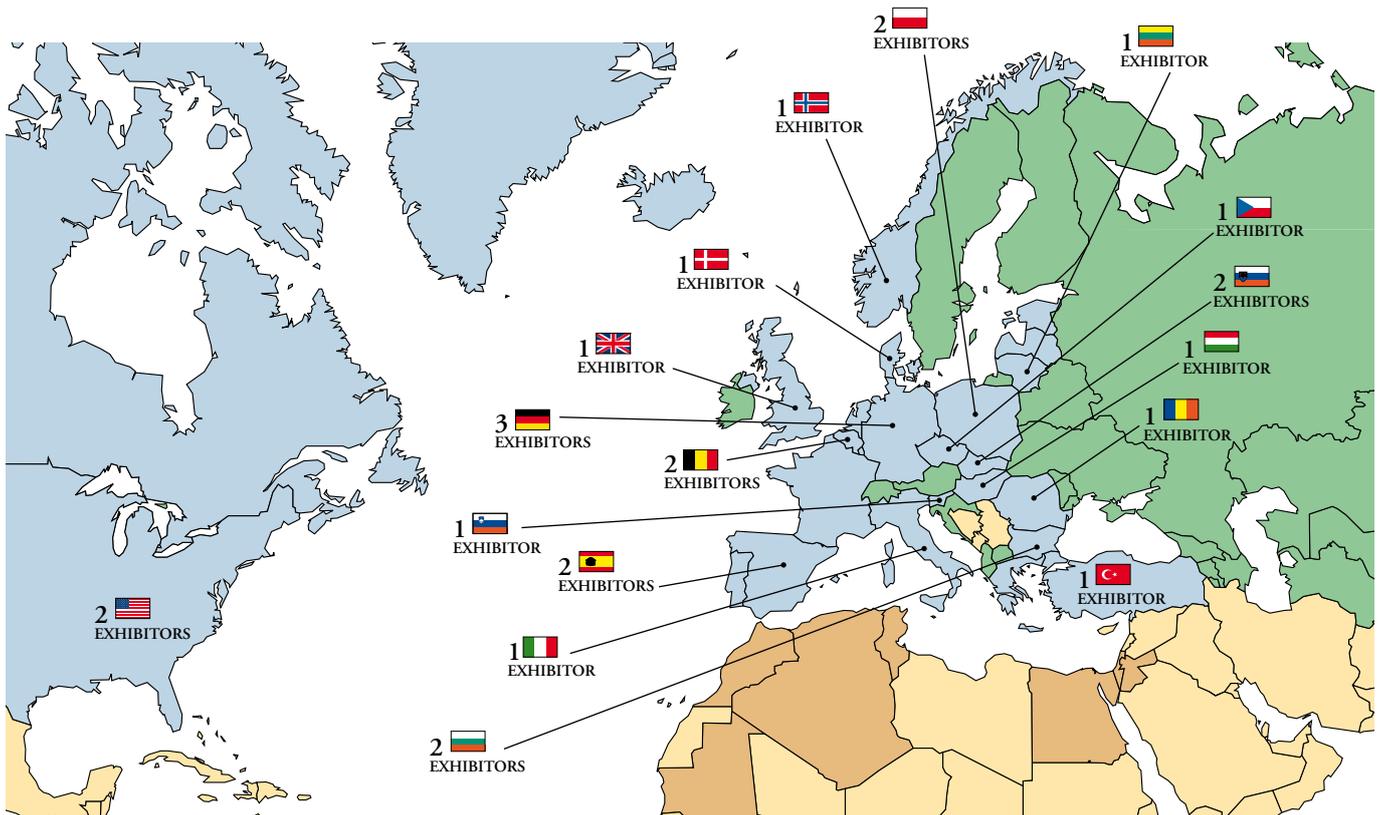
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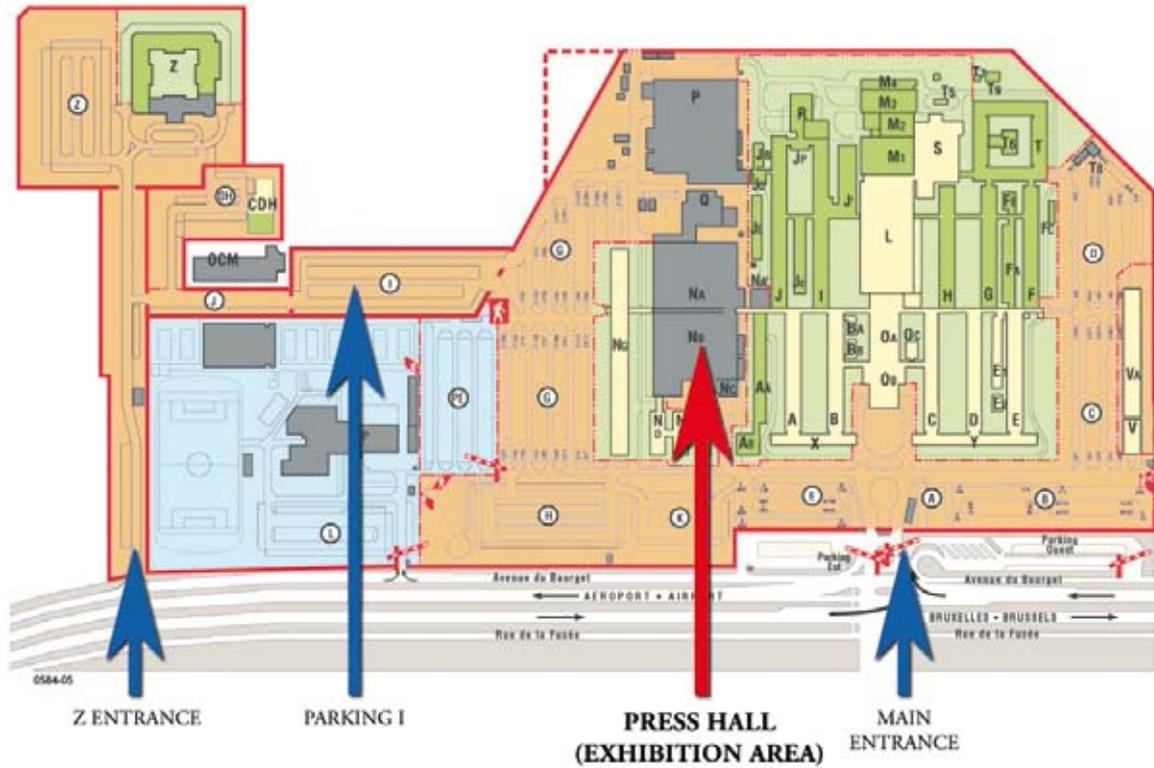
EXHIBITORS BY COUNTRY



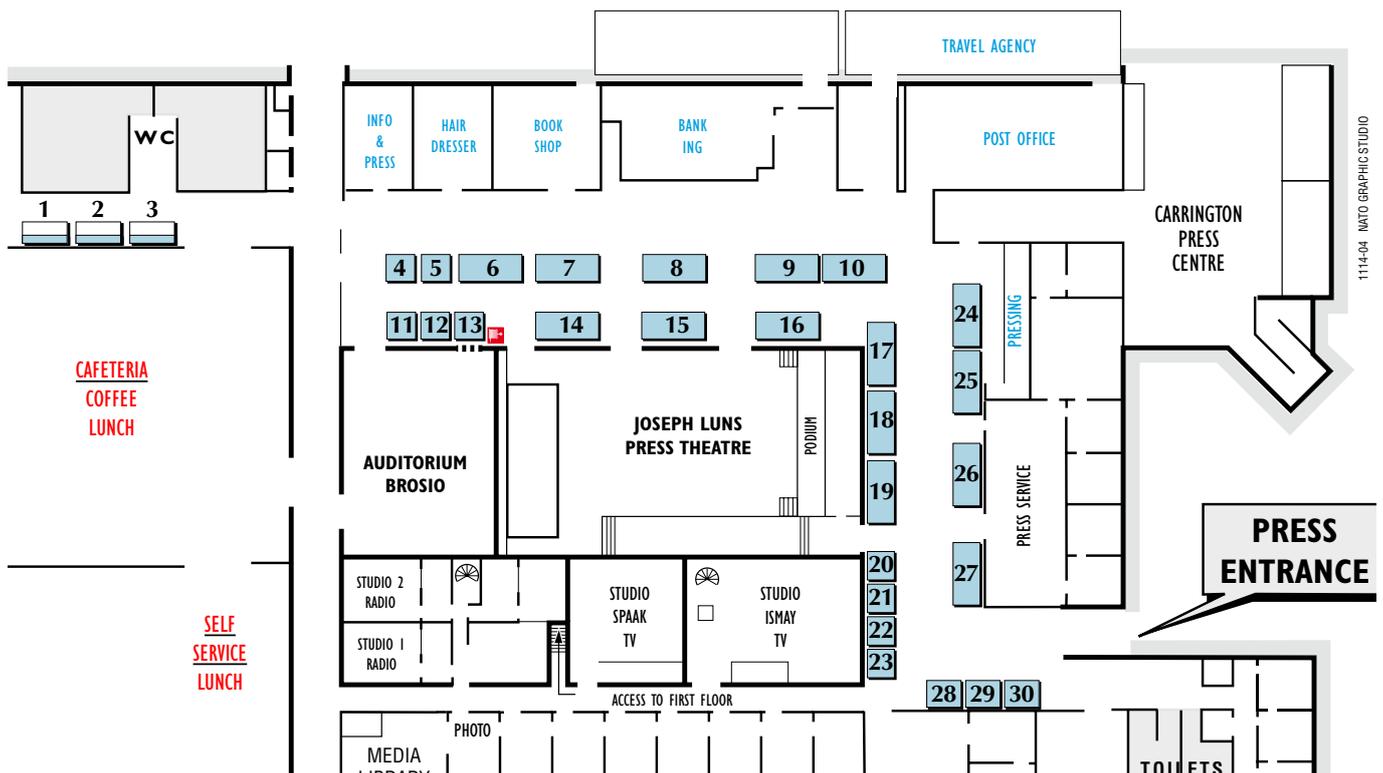
EXHIBITORS LIST

stand n°		stand n°	
	1. Indra	14.	TIPS, the Transatlantic Industrial Proposed Solution for NATO AGS
	2. Consulting Service Security Ltd. as the partner of the finish Envirionics Oy company in Hungary		15. Finmeccanica
	3. Bitova Electronika		16. Remotec Ltd, a subsidiary of Northrop Grumman Corporation
	4. ZTS Research & Development, KOŠICE a.s.		17. Sabiex International S.A.
	5. Indra Espacio		18. Diehl BGT Defence GmbH & Co. KG
	6. CIFR, Inc./CAMSS Shelters		19. CSOK
	7. EADS, Defence & Security Systems Division		20. National company ROMARM
	8. Thales Land and Joint Division		21. Chemviron Carbon
	9. The Scientific and Technological Research Council of Turkey, National Research Institute of Electronics and Cryptology		22. Military repair plant, Trenčín, a.s.
	10. POCH S.A.		23. Company VILPO d.o.o. Ljubljana
	11. TELEFUNKEN Radio Communication Systems GmbH & Co.KG		24. Boeing
	12. State research institution Lithuanian textile institute		25. Alcatel Alenia Space
	13. Tandberg		26. Hydrema Export A/S Scanfiber Composites A/S
			27. M.Schall GmbH & Co.KG
			28. Bruhn NewTECH Limited
			29. Samel 90 PLC
			30. Military Communication Institute

NATO SITE PLAN



PRESS HALL (EXHIBITION AREA)





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HYDREMA

organisation profile

Founded in Denmark in 1959, Hydrema develops, manufactures and markets high-technology earth-moving equipment. Over the years the product portfolio has expanded, so today Hydrema offers both wheeled loaders, loader-excavators, multipurpose vehicles (MPVs), dumptrucks and excavators.

Furthermore, the military department offers military as well as actual armoured versions of the civilian machines, and mine flails and bushcutters for active mine-clearing.

exhibited products

The 910 MCV 2 is the 2nd edition of Hydrema's popular mine-clearing vehicle. The cabin, including the windows, is armoured to 7.62 AP. Due to a unique tilt/turn system, the MCV is transportable in a C130 and can drive on public roads at up to 42 km/h. It is sold worldwide and presently clears mines among else in Afghanistan.



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STAND
1

Indra Sistemas SA

organisation profile

Indra is the leading Spanish information technologies company, recording revenues of more than 1.200 M euros. The company's business is divided into Information Technologies, Simulation and Automatic Test Systems and Defence Electronics Equipment. Indra has completed projects in more than 50 countries spread over five continents, international activities that generate over one third of the company's revenues.

exhibited products

Audiovisual aids (posters and presentations running in a laptop), presenting the objectives and state of the TERSO program. Programmable SW Radio demonstrator, SCA compliant. The development of the system is now running and includes the development of two waveforms.

INDRA ESPACIO S.A.



Indra

organisation profile

INDRA ESPACIO S.A. is a company dedicated to satellite communications, earth observation and navigation. We are the prime contractors for the military satellite communication program of the Spanish MOD.



exhibited products

The manpack terminal is a lightweight satellite communication terminal working in SHF and capable of full-duplex communications at 64 Kbps. It includes a CDMA modem and DAMA capacity

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STAND

5

LITHUANIAN TEXTILE INSTITUTE

organisation profile

LTI – state research institution – carries out research, develops, designs and produces technical textiles and a wide range of personal protective garments, which fulfil the requirements of EN, NATO and NIJ standards and are used for military, police and civil applications. The main groups of products include ballistic and stab protective garments, waterproof and breathable overgarments, clothing protecting against heat and fire, uniforms for army, navy and police.

exhibited products

- Simulation software for interaction of bullets against textile packages and prediction of ballistic resistance of body armour (R&T)
- Personal protective equipment – body armour



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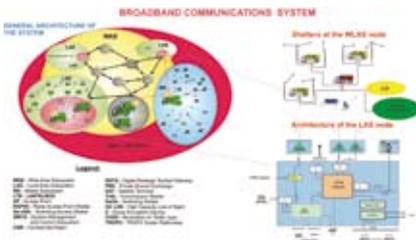
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Military Communication Institute Wojskowy Instytut Łączności

organisation profile

MCI is an R&D unit which provides complex solutions for governmental agencies (e.g. MoD) and industries in the field of designing and implementation of teleinformation and security systems.

Research works are carried out by: Communications Networks, Radio Communications, Electromagnetic Compatibility, Networks Management, Cryptology, Telecommunications and Information Divisions.

MCI has Certifying Products Unit in Environmental, Electromagnetic and Radio Communications areas and carries out tests in Certified Labs (Environmental Test, Electromagnetic Compatibility, Radio Communications). The MCI has Notification of Military Information Services for Electromagnetic Compatibility and Cryptography Lab.

exhibited products

Broadband Communications System is a modular C3 system consisting of shelters dedicated to build local, wide and mobile (radio access) networks providing telephony, video and user data transfer services.

The Radio Access Vehicles can be used to provide user services for reconnaissance forces and deliver situation reports through BCS communication infrastructure to i.e. joint coordination centres or governmental reconstruction teams.



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National Research Institute of Electronics and Cryptology

organisation profile

The National Research Institute of Electronics and Cryptology has been working in the area of information security and advanced electronics since the early 1980s. UEKAE's products and services are mainly related with information security and telecommunication areas.

The Institute has a massive infrastructure including several research and test laboratories and an in-house ASIC production facility.

exhibited products

The FORMUS system is a telecommunication equipment for long range, secure HF/VHF/UHF communications using the STANAG5066 protocol. The system is applicable to both strategic and tactical environments and has been fielded since 2005. The system enables secure data (e-mail, chat, file transfer) and voice communications between tactical and strategic platforms.



POCH S.A.



organisation profile

Production and distribution of: chemical reagents, fine-chemicals, ready to use various chemical kits and tests.

Products for detection, identification and determination of Chemical Warfare Agents, Toxic Industrial Chemicals, explosives and drugs. Personal decontamination packages used as individual soldier equipment.

exhibited products

1. Field Chemical Laboratory PChL-3M – portable laboratory designed for determination of CWA's, TIC's, biological pathogens and alkaloids.
2. Detecting Tubes for CWA's and TIC's – fast determination of hazardous agents in the air.
3. Personal Chemical Protection Package ATLAS – product for individual process of decontamination.
4. Test Kit for Identification of Explosives PIR-2 - portable test for identification of wide range of explosives.



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STAND
10

Remotec UK Ltd



organisation profile

Home of the "Wheelbarrow" range of Bomb Disposal Remote Controlled Vehicles, Remotec has many years' experience in Keeping Danger at a Distance. With 400 vehicles in service across the world, and as the nominated preferred supplier to the UKMoD and other prestigious international Customers, the Company is the "Go To" specialist in this safety-critical field.

exhibited products

Remotec's new "COBRA" vehicle was produced in response to the exacting requirements of the recent UKMoD competitive exercise for the next generation of Bomb Disposal Remote Controlled Vehicle.



The Wheelbarrow Revolution is in service as the benchmark vehicle for Bomb Disposal personnel worldwide. Wheelbarrow is in service with UKMod, and in New Zealand, India and a number of NATO territories.

NORTHROP GRUMMAN

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NATIONAL COMPANY ROMARM

organisation profile

NATIONAL COMPANY ROMARM is the main Romanian producers of: armored vehicles on wheels and on tracks, infantry weapons and ammunitions, artillery systems, missiles systems and rockets, powders, explosives and properllants

exhibited products

Will be posters and video presentations with:

- AIV – new Armored Infantry Vehicle 8x8 - R&T concept
- RN 94 – Ambulance Armored Vehicle 6x6 – in service
- B 33 ZIMBRU - Armored Vehicle 8x8 – battle proven
- AM 7 – Armored Anti/riot Vehicle 4x4 – in service



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SABIEX INTERNATIONAL S.A.

organisation profile

SABIEX INTERNATIONAL is specialized in armoured vehicles, for which it performs the following activities :

- Logistic support (spare parts, training, repair services)
- Upgrading
- Sale of surplus vehicles
- Design and development of new wheeled armoured vehicles (such as the IGUANA FV4)

Lately, Sabiex has decided to diversify its activities and invest in the development of new technologies. The first result of this effort is the LIGHTENER mini UAV presented in this event.

exhibited products

LIGHTENER is a new generation short-range Mini UAV System. The system is completely autonomous from launch to landing, with single man operating capability. The system provides a comprehensive and effective solution to a variety of mission-types: urban warfare, anti terrorism, strategic devices, security and law enforcement applications as well as military operations, by enabling «over the hill» observation.



Samel 90 PLC

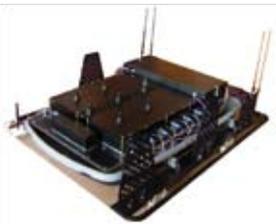


organisation profile

Samel 90 manufactures and integrates communication, EW and other electronic equipment. The company products are: HF/VHF radio jammers, radio jammers for protection from radio-controlled bombs, VHF radios, intercom systems, field telephones sets and exchanges, command & staff vehicles, communication shelters, mobile systems for border surveillance, launchers for anti-aircraft missile systems. The company also produces a range of consumer products.

exhibited products

1. The purpose of the BJ VIP-300X1 mobile jammer is to ensure protection from radio-controlled bombs. It can protect single or group moving objects, small group of people and/or other small area targets.



2. The portable Jamming Device (briefcase) BJ VIP-200X ensures personal protection from radio-controlled bombs.



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M. Schall GmbH & Co. KG



Your partner for mobile applications



organisation profile

Schall is a manufacturer of high mobile Tent- and Containersystems with more than 130 employees and two manufacturing companies. Engineering, development, production and worldwide service are the key points of our business and takes place in over 23 countries.

exhibited products

High mobile Equipment for Nato-Response-Forces, Field-camps, Tents, Hangars, Dining halls, Container and Shelter, NBC-Protection "Colpro", Functional special Sheltersystems for Hospital, Comand post etc.



Hangar tent



Rapid Deployment Systems (RDS)



EHZ-Camp



Field Hospital

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TANDBERG

A Global Leader in Visual Communication



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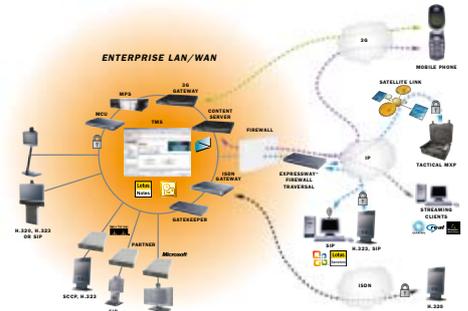
TANDBERG



organisation profile

TANDBERG, a leading global provider of video systems and services, helps companies and organizations fill the visual communication gap that exists today. Our industry specific knowledge and consultative approach helps TANDBERG customers envision new opportunities for their organizations. TANDBERG is committed to advancing the use of visual communication tools through standards-based solutions working in alliance with Cisco. The Company has dual headquarters in New York and Norway with customer installations in more than 90 countries worldwide. TANDBERG trades publicly on the Oslo Stock Exchange under the ticker TAA.OL.

We are manufacturing our own CS powder thanks to an industrialised process unit for CS powder.



exhibited products

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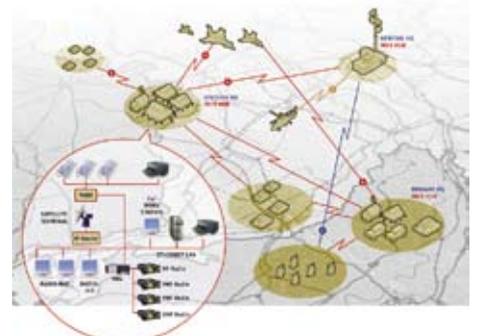
TELEFUNKEN Radio Communication Systems GmbH

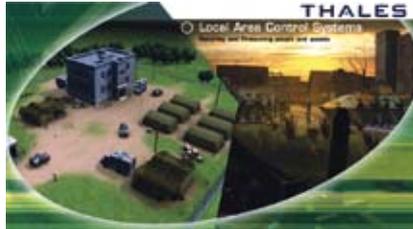
organisation profile

TELEFUNKEN RACOMS develops and produces a wide range of radios to assure reliable tactical and strategic communications for all kind of military services as well as for governmental and commercial organisations. These are complemented by solutions and products for seamless routing of data and voice, ad-hoc networking and situation awareness.

exhibited products

The Integrated Radio Communication System (IRCS) enables a seamless interconnection of military and civil services for voice and data communications using different radio equipment. AW@RENET supports crisis management based on position location and integrated multi-service radio communications.





organisation profile

Thales is an international electronics and systems group serving the defence aerospace, services and security markets. With revenues of more than €10 billion, the group develops advanced technologies and services for its customers, leveraging a global network of 60,000 experts and the highly complementary nature of its businesses.

exhibited products

Sensors & Systems

- Local Area Control System (LACS) as used by German forces in Afghanistan to protect PRTs.
- Modem XXI designed to full NATO standard (STANAG 4606) for electronic protection measures. This modem entered production about 1 year ago.
- Thales offer for ISAF SATCOM services and battlespace logistic solutions.
- Line of sight band 4 system, 8-34 Mbits per second, fully ruggedised, only minutes to set-up, field proven and DIANE-IP COTS based tactical IP network management software.
- Thales Airborne Systems fully battle-proven self-protection system for civil & VIP aircraft as well as military & SOF aircraft.

Vojensky opravarensky podnik Trenčín, a.s.

organisation profile

The Military Repair Plant Trenčin is a joint stock company in the field of development, production and repair of belt and wheeled machinery and a manufacturer and supplier of various types of ISO 1C – 20 containers as well as interior built-up areas, container cases, field mobile multi-profile hospitals on the basis of ISO 1C containers and a manufacturer of armored vehicle ALIGATOR 4x4.

exhibited products

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VILPO d.o.o.



organisation profile

Company Vilpo d.o.o. was established in 1990.

Developing and production program :

Mine clearing machines

Forestry tractors

Lifting equipment – tail lifts, lifts, scissor lifts, lifting platoes, dock levelers, special equipment.

exhibited products

Mine clearing machine SAMSON 300

a modern mine clearing machine with rotating flails for clearing placed or buried personnel and antitank mines.

Drive – hydrostatically driven vehicle and flails, computer-controlled, load-regulated diesel motor and drive.

Motor : DEUTZ - BF6M 1013 FC - 212 kW at 2300 rpm

Total lenght of vehicle 7,8 m ; Total weight of vehicle with filled tires 9800 kg : Capacity 1200 - 2600 m²/h



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ZTS VVÚ Košice a.s.

organisation profile

ZTS VVU KOSICE a.s. is a private joint-stock company operating in the field of engineering (machinery) and electro technical products.

The history of the ZTS VVU KOSICE company began in the year 1976.

Company profile: Research, Development, Design & Supply company

exhibited products

SCORPIO is a currently operational, remotely controlled un-tethered robot tailored made for the inspection and destruction of IEDs found underneath automobiles. It has the immediate potential for a myriad of other uses.



