

The Honorary Patronage  
of the President  
of the Republic of Poland  
Andrzej Duda

 **Targi Kielce**  
exhibition & congress centre

# Review



  
ufi  
Member

MSPO

27 International Defence  
Industry Exhibition

USA Lead Nation



3-6.09.2019, Kielce, Poland

[www.mspo.pl](http://www.mspo.pl)

Strategic Partner







Ladies and Gentlemen,

The 27th International Defence Industry Exhibition has again been granted the Republic of Poland's President Andrzej Duda's honorary auspices. Following the previous years' example, the Polish Armaments Group was the Strategic MSPO Partner. The event was a clear demonstration of the Polish-American alliance. In his opening address President Andrzej Duda emphasised the expo's fundamental importance for the army modernization processes as well as for the international exchange of technical and engineering solutions. The expo was also graced with the presence of the Minister of National Defence Mr. Mariusz Blaszczak, the United States of America Ambassador to Poland Mrs. Georgette Mosbacher, General Charles Hooper, director of the Director of the Defense Security Cooperation Agency, General Ben Hodges, Pershing Chair in Strategic Studies at the Center for European Policy Analysis and Ann Cataldo, Deputy Assistant Secretary of the Army for Defense Exports and Cooperation. The second day of the trade fair was marked with a remarkable meeting - the pilot and astronaut General Mirosław Hermaszewski and the American astronaut, the United States Air Force colonel, one of the Apollo 15 mission, Alfred Merrill Worden. We were honoured to be the display for 610 companies, foreign exhibitors from 31 countries accounted for 51 percent of all firms exhibiting at MSPO. The defence trade show hosted 58 foreign delegations from 49 countries, including Ministers and Deputy Ministers from Bangladesh, Angola, Czech Republic, Norway, Ukraine, United Arab Emirates, Chief of the General Staff of the Republic of Senegal. Exhibitors from Australia presented their products for the first time.

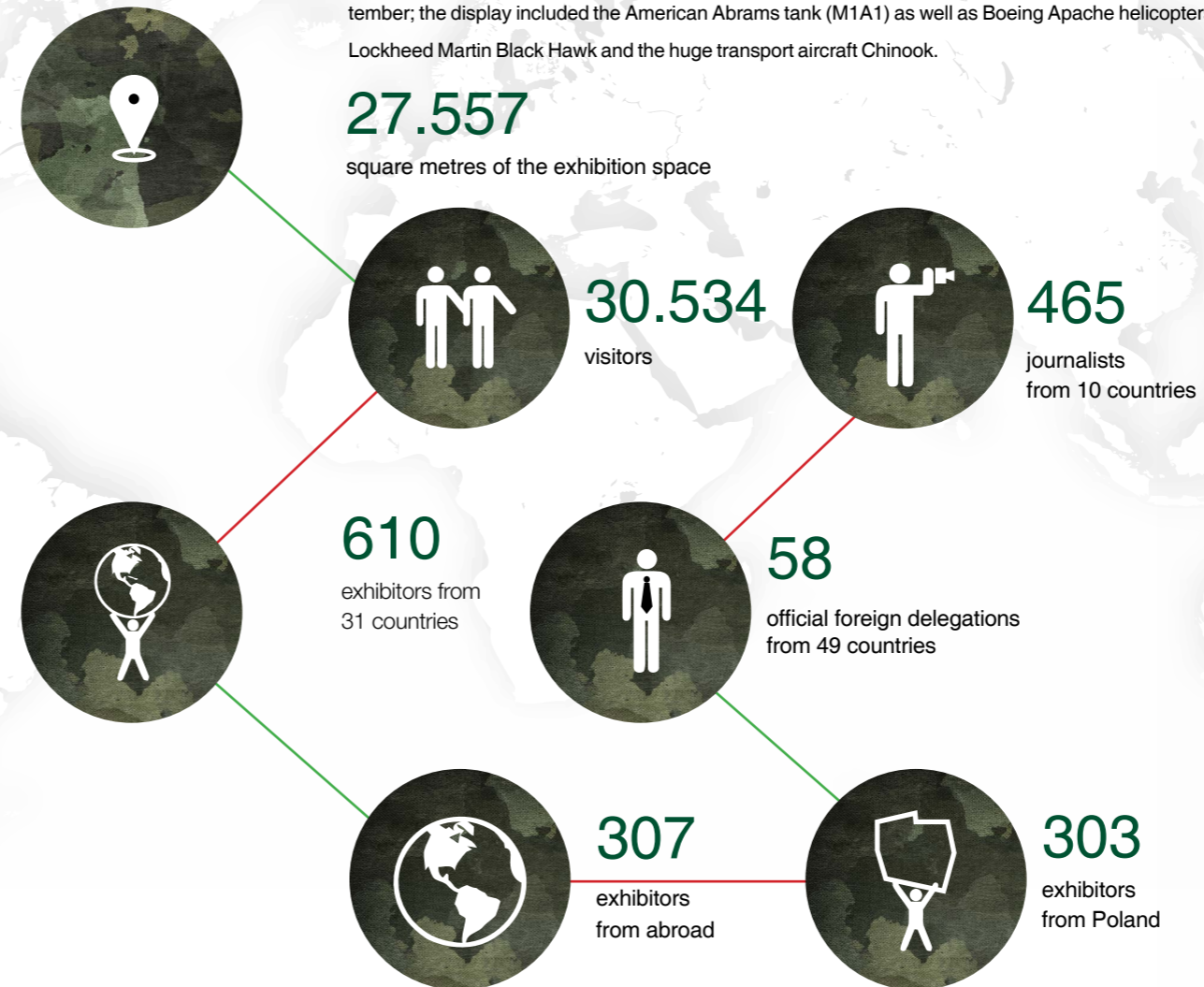
The United States of America held its Lead Nation Exhibition for the second time in MSPO history. The F-35 fighter mock-up, the twin-engine, tandem rotor, heavy-lift Chinook transport helicopter and the Abrams tank were the highlight of the display. The airspace over Targi Kielce was also the presentation arena for the American F-15 fighters, the P-8 maritime surveillance aircraft and the KC-135 tanker. The expo agenda included the signing ceremony of letters of intent and contracts - the Chief of the Armament Inspectorate, Brigadier General Dariusz Pluta PhD. and the PGZ SA President Witold Slowik signed the documents in the presence of the Minister of National Defence Mariusz Blaszczak. The four days' trade show was enhanced and complemented with the 38 accompanying events organised by our partners, supporting institutions and exhibitors. Over 1,800 people were brought together for conferences, seminars, workshops and dynamic show- presentations. Over 300 journalists from over a dozen countries from all corners of the globe provided MSPO coverage. The USA, Germany, Malaysia, Ukraine, Lithuania, the Czech Republic, Belgium, Iran, and Russia audiences were informed about the expo and products on display. MSPO was complemented with the International Logistics Fair LOGISTYKA, the showcase for global 60 companies.

I wish to express my profound gratitude for your presence at the 27th International Defence Industry Exhibition. I extend my whole-heart invitation for the upcoming MSPO held from 8 to 11 September 2020.

**Andrzej Mochoń PhD**  
 President of the Board, CEO  
 Targi Kielce

## MSPO 2019 features the USA as the Lead Nation

The United States Lead Nation Exhibition used 1,500 sq metres of the exhibition space which was the showcase for 65 companies US-based companies. Thus MSPO 2019 has witnessed the biggest -ever US expo representation. Colonel Alfred Merrill Worden was the US Exhibition's featured guest. Mr. Worden is the American astronaut, the United States Air Force colonel, one of the Apollo 15 mission crew. Not only did Alfred Merrill Worden take part in MSPO, Colonel also met Kielce school-students who were eager to listen to the colonel's „space- conquests” stories. The F-35 fighter mock-up was a real smash-hit of this year's Lead Nation Exhibition. The first day of the exhibition witnesses a truly spectacular flight of American army aircraft over the expo grounds - in the sky above the expo centre there were F-15 fighters, the cutting-edge multi-purpose marine aircraft Boeing P-8 Poseidon, to name just a few. The sky-high show was complemented with the KC-135 tanker used for military aerial refuelling. The Americans also prepared a surprise for military enthusiasts who visited MSPO Open Day on 7 September; the display included the American Abrams tank (M1A1) as well as Boeing Apache helicopters, Lockheed Martin Black Hawk and the huge transport aircraft Chinook.





# MSPO presented day after day

3 September

## VIP DAY

**The 27th International Defence Industry Exhibition MSPO commenced on Tuesday, 3 September. This year's expo was graced with the presence of the Republic of Poland President Mr. Andrzej Duda.- We need to go an extra mile in order to make it possible for soldiers to perform their duties in a most efficient way. Yet we also need to make sure they return home safe, having completed their tasks, their service for the homeland and its citizens. This is what the defence industry has been created for. It has been designed to ensure soldiers' utmost security. This is also why the Polish army purchases new equipment - said Andrzej Duda during the ceremony.**



Other outstanding personages and guests of honour partook in the opening ceremony, and among them Mariusz Blaszczak, the Minister of National Defence, the Head of the National Security Bureau, Secretary of State Mr. Paweł Soloch, the parliament's and the Senate's committees' members, MP's and senators. The head of the Ministry of National Defence also marked his presence at other important events held on the first MSPO day: the IFV Borsuk official presentations, the letters of intent and contracts signing ceremony with the Chief of the Armament Inspectorate, Brigadier General Dariusz Pluta and the PGZ SA President Witold Słowik. A number of agreements were signed during the expo; the list includes the JAVELIN Anti-Tank Guided Missiles launchers FGM-148 with ammunition as well as a training and logistics package, the acquisition of five C-130H HERCULES transport aircraft as part of the Excess Defence Article (EDA) programme. The event also witnessed the official signing of contract under which transferable BYSTRA radar stations, command vehicles based on WHO ROSOMAK, night vision goggles - MU-3ADM and MU-3AM as well as PCS-5/1 and PCS-5M shooting night vision devices in addition to NPL-1M BROM-M night vision binoculars and shooting thermal sights SCT Rubin will be delivered for the army. Minister Blaszczak also took part in the „Promoters of Security” conference organised by the DEFENSE24 and in the gala inauguration of the Uniformed Classes School Year. 58 foreign delegations from 49 countries also honoured the MSPO with their presence. The Armed Forces were also represented by a plethora of delegates - the head of the General Staff of the Polish Army, Lieutenant General Rajmund Andrzejczak, the general commander of the Armed Forces, Lieutenant General Jaroslaw Mika, Major General Darousz Łukowski - the head of Inspectorate of the Polish Armed Forces Support, the Polish Army officers and soldiers as well as commanders and other uniformed services high-ranking envoys. The first expo day's agenda also included business meetings and conferences as well as the spectacular US military aircraft air-parade. There were the four F-15 fighters, the KC-135 flying tanker and the reconnaissance Boeing P-8 Poseidon.

## DAY OF THE ARMED FORCES

**The second day of the MSPO was marked with the Secretaries of State meeting with the industry representatives. The morning session was attended by Marek Łapiński - the secretary of state of the Ministry of National Defence, Piotr Wawrzyk - under-secretary of state at the Ministry of Foreign Affairs and Aleksander Nawrat, deputy director of the National Centre for Research and Development.**



Targi Kielce was recognized an ideal platform for Polish armaments industry companies to present their offer to delegations from around the world. The second expo day abounded with conferences and debates. There 11 meetings all in all - national satellite reconnaissance systems, precision fire systems and missile protection and many other important issues were discussed. 4 September was also marked with the Lead Nation Seminar held under the banner of NATO'S Challenge: Coherent Defence Modernization. There was also the Polish-American cooperation conference, a part of the MK 84 programme - the session's special guests was the United States Ambassador, Mrs. Georgette Mosbacher. The Catholic High School in Kielce hosted Col. Alfred Warden. The students were presented the Apollo 15 space mission.

## THE 20TH POLISH ARMED FORCES' EXHIBITION

The exhibition was held under the banner of „The Republic of Poland's Modern Armed Forces are being created today. Be a Part of the Future” The Organizers - the Inspectorate for Armed Forces Support found it an extensive logistic undertaking; both soldiers and army civilian staff were involved. The 1st Logistics Brigade soldiers were the main part of the Task Force responsible for the Polish military display. This year's Armed Forces Exhibition attracted 13,000 guests - this was the part of the Open Day which generated a great interest among all military and army aficionados.



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MSPO 2019

4 September

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Targi Kielce





## Attaché visits

The third day of MSPO, according to many-year tradition is the day of the Ministry of Interior and Administration's services. The visit of military attaches accredited in Poland is the day's highlight.

Targi Kielce hosted Attachés from 27 countries who graced the Targi Kielce expo with their presence. Albania, Algeria, Belarus, Brazil, Bulgaria, Estonia, Spain, The Netherlands, Israel, Indonesia, Iran, Japan, Canada, Lithuania, Norway, Russia, Romania, Serbia, Slovakia, Slovenia, Sweden, Turkey, Ukraine, United States, Hungary, Great Britain, Vietnam were represented. The briefing for Polish enterprises which featured Canada, USA and Australia and presented these countries' culture and conditions for doing business was one of the highlights of the third MSPO day. Experts from the Polish Investment and Trade Agency offered Polish entrepreneurs advice on how to do business in those markets in a most efficient way. This year's Day of Services Operating as a Part of the Ministry of Interior traditionally culminated with the Proud Veteran statuette awarding ceremony. There was also the presentation on veterans with physical disabilities mobility in the context of vehicle adaptation. MSPO guests had also the chance to see live demonstrations of the State Fire Service rescue units' efficiency. The staged operation was prepared by the Voivodeship Headquarters of the State Fire Service in Kielce. There were also the police dog training and obedience shows as well as the Border Guard Representative Orchestra live performance.



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## The Defender Day



The fourth day of the International Defence Industry Exhibition enjoys a long-standing tradition - the military attaché visit to Targi Kielce continues and the expo culminates with the awarding ceremony. The Defender Gala is when the best products and technologies showcased at the expo are presented accolades.

The four-day event's crowning element includes the distinction presentation ceremony: the Republic of Poland President Award for a product which best serves the purpose of the soldiers' safety enhancement, the Special Mention of the Minister of National Defence, the Defender Awards, the Awards of Commanders of the Services Subordinate to the Minister of the Interior and Administration: the Border Guards Commander-in-Chief "Border Guards Laurel" and the Accolades of the Polish Police Commander-in-Chief are handed out. The Gala was also the occasion to present the distinction of the Territorial Defence Forces Commander and the Major Award of the General Command of Branches of Armed Forces in the The Best Presentation – the Best Expo Stand competition. The Award of the Chief of the Inspectorate for Armed Forces Support and the Special Award of the Minister of Entrepreneurship and Technology for the Best Armaments Exporter, which made its début last year, were also bestowed. The Targi Kielce President of the Management Board was awarded for the third time.

6 September

5 September

7 September

## MSPO Open Day

Almost 13,000 visitors made the best of the beautiful weather and interesting exhibition and they joined us in Targi Kielce on Saturday, 7 September. Of course, the youngest guests to the Open Day had the most fun when watching military equipment showcased at the International Defence Industry Exhibition. The edge-of-the-seat dynamic shows prepared by the Świętokrzyskie police forces, fire brigades as well as Aikido and Krav Maga clubs were also very popular among the audience. There were also lots of those willing to try and taste the genuine military pea soup.

### Republic of Poland President's Award

For the product which best serves the purpose of the RP Armed Forces soldiers' safety enhancement. **WB GROUP / WB ELECTRONICS SA** from Ożarów Mazowiecki, **Combat Systems Autonomous Plant**, Macierzysz - for the loitering munitions systems family **WARMATE**

### Minister's of National Defence's Distinction

The consortium of **Huta Stalowa Wola SA Steelworks** (leader) from Stalowa Wola, **Mechanical Devices Research and Development Centre „OBRUM”** from Gliwice,

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Rosomak SA from Siemianowice Śląskie, **Military Mechanical Works SA** from Poznań, **Military Engineering Works SA** from Dęblin, **Military Institute of Armoured and Automotive Technology** from Sulejów, **Military Electronic Works SA** from Zielonka, **Jarosław Dąbrowski Military University of Technology** from Warsaw, **Warsaw University of Technology**, **WAT Military University of Technology**, **Was Studies University**, **WB Electronics S.A. / WB GROUP** from Ożarów Mazowiecki - for the new BORSUK infantry fighting vehicle

**The Defender Award** **Wti Consortium: TELDAT LLC** (leader) from Bydgoszcz, **Siltec LLC** from Pruszków - for a portable ICT node  
**UMO LLC** from Zielonka for Black Hornet Nano **CSVeterans** general partnership Jacek Spionek and Łukasz Cander in a consortium with **BUMEX** Paweł Wychowaniec and **HYDRONAUKA** Jakub Nowaczyk from Bydgoszcz - for thermo-hygrography technology and devices

**CELTECH LLC** from Poznań for the KPP-600 container laundry  
 Coordinator: **Polish Armaments Group SA** from Radom, participating companies: **Huta Stalowa Wola Steelworks SA**, **Mechanical Devices Research and Development Centre OBRUM LLC** from Gliwice; **Military Mechanical Works SA** from Poznań, **Military Armament Works SA** from Grudziądz, **MESKO SA** from Skarżysko-Kamienna - for tank destroyers - a variant concept of the PGZ Capital Group  
**Military Institute of Armament Technology** (leader) from Zielonka, **AUTOCOMP MANAGEMENT LLC** from Szczecin for a mobile, modular LEOPARD 2A5 tank crew simulator (Table Top Trainer-TTT-Leo 2A5)  
**NITRO-CHEM Chemical Works SA** (leader) from Bydgoszcz, **Military Institute of Armament Technology** (consortium member) from Zielonka - for Polish first low-sensitivity explosive load elaborated in an artillery shell prototype complemented with a test stand and a set of tests in accordance with the STANAG 4439 requirements

**WB GROUP / WB ELECTRONICS SA** from Ożarów Mazowiecki for the integrated TOPAZ combat management system  
**PCO SA** from Warsaw for the NPL-1T AGAT thermal imaging binoculars

**Commander in Chief of the Border Guards' Distinction Police Commander In Chief Distinction General Commander of Armed Forces' Main Award and Distinction for the winner of "The Best Presentation – the Best Expo Stand" Competition**  
**SZCZĘŚNIAK Special Vehicles LLC** Bielsko-Biała for a special, heavy-duty road accident rescue vehicle on the Renault K520 8x4 chassis „Boarder Guards Laurel”  
**Siltec LLC**, Pruszków for PJN mobile supervisory unit  
**Mindmade LLC / WB Group** from Warsaw for the communication integration platform  
**The Land Forces Inspector at the General Command of Branches of Armed Forces**  
 The diploma - **Naval Inspector at the General Command of Branches of Armed Forces**, Warsaw  
 The diploma - **Command of the Special Forces Component** from Krakow

Special gratitude in recognition of extraordinary merits in the modern solutions and innovative teaching technologies implementation in the process of personnel preparation and training for the needs of the Polish Armed Forces for **Engineer Adam Januszko PhD. Hab, professor** at the Land Forces Academy  
**„Łucznik” Arms Factory Radom LLC** from Radom and **the General Sylwester Kaliski Military University of Technology** in Warsaw for 7.62x51mm semi-automatic MSBS GROT sniper rifle  
 in the Training category: **the Logistics Training Centre** from Grudziądz for maintenance and repair specialists training system for the Wheeled Armoured Vehicle ROSOMAK  
 in the Innovativeness category: **3 Regional Logistics Base** from Krakow for comprehensive OBRA-3 system tester  
 Special award:  
**55th Repair Battalion of the 10th Logistics Brigade** from Opole for comprehensive diagnostic and service station for Wheeled Armoured Vehicle ROSOMAK communication equipment  
**4 Regional Logistics Base** from Wrocław for the “project 2020” website designed to manage military equipment, supplies and services handling **LUBAWA S.A.** from Ostrów Wielkopolski

**The Minister of Entrepreneurship in Technology special accolades in the “Best Polish Armaments Exporter” category**

**Targi Kielce President of Board's Award** **DRX Group LLC** from Warsaw for MDS-system - detection system of human presence in cars and trucks

**Targi Kielce awards the Medal and Distinction for expo stand arrangement and expo-promotion**  
 Distinctions for an attractive and intriguing expo stand presentation:  
**RAFAEL**, Israel  
**ŁUKASIEWICZ – Research Network** - Industrial Research Institute for Automation and Measurements "PIAP" - Warsaw  
**ARPOL Professional Tools LLC**, Osielsko  
**NORTHROP GRUMMAN**, USA  
**The Military Institute of Armament Technology**, Zielonka  
**SE SFTF "PROGRESS" / State Enterprise "Specialized Foreign Trade Firm "PROGRESS"**, Ukraine  
**BAE Systems (Poland) LLC**, Warsaw  
**Siltec LLC**, Pruszków  
**EGIDA IT SOLUTIONS LLC**, Warsaw  
 Medals for elegance and innovative exhibition presentation style:  
**Rohde & Schwarz Osterreich LLC** Agency in Poland, Warsaw  
**MEGMAR LOGISTICS & Consulting LLC**, Kutno  
**WORKS 11 LLC**, Katowice  
**GRUPA WB / WB GROUP**, Ożarów Mazowiecki

**UAVS POLAND LLC**, Krakow  
**TURKISH AEROSPACE INDUSTRIES, Inc.**, Turkey  
**Łukasiewicz Research Network - Institute of Aviation**, Warsaw  
**CENZIN LLC**, Warsaw  
**HERTZ SYSTEMS Ltd LLC**, Zielona Góra  
**GRIFFIN GROUP S.A. DEFENSE GP.** Warsaw  
**POLISH ARMAMENTS GROUP**, Radom  
**KALLMAN WORLDWIDE, INC.**, USA Embassy





# Exhibitors feedback about the expo

Radosław Turyczyniak



This is the second expo I have taken part in MSPO. Compared to last year's expo, this year's event has been really fine owing to a great number of visitors as well as lots of interesting conversations. Organisation wise - there has been no problems, no queues. I can see that this year you have sorted out the entry and exit system. The expo traffic has been definitely smoother. I did like the expo. Everyone in my company is happy with it too.

Marek Rozbicki



I find the trade show very successful, there has been lots of international and domestic exhibitors. Domestic exhibitors who have attended the trade show are the main group of our customers, thus we had the chance to talk shop and look into important aspects. My private opinion is that this trade fair may last too long. Shortening the expo duration might be worth considering, two-days' expo might suffice. In fact, the first 2 days are very intense, business-focused and profitable. This might be enough, however this is my private opinion. Nevertheless, the trade show is in great demand, necessary and useful. We are very happy we've been a part of it.

Georgette Mosbacher



This is a great example Polish - American arms industry cooperation.

Anna Staszewska



I think the expo organisation was excellent in every aspect. Many customers and great interest, for 3 days we hosted lots of those interested in our offer. Yesterday's attendance exceeded our expectations. I think it is worth using the expo for your business, also because you can obtain abundance of information about the industry.

Damian Tondera

**Cenizn Sp. Z.o.o.**



We are very pleased we've been able to showcase at this year's Defence Industry Exhibition. No objections to organisation. We are very grateful for the help we have received.

Tom Kallman

**Kallman Worldwide**



It's nice to see how it has been thriving. Companies return to the expo year after year, they are more and more successful. Considering the close relations between the USA and Poland, the relations with your president, we find the time spent in Poland extremely exciting.

Terry „TJ” Jamison



This year's MSPO is fantastic. It's a chance to see modernized combat helicopters and support units, such as the Chinook which is used by the US Army. This year's MSPO experience is truly unique.

Jeff Sherwoo

**Blue Sky Network**

We have seen Polish market's incredible potential. Owing to the Kallman Worldwide we have had the opportunity to present our portfolio at the expo and offer our potentials at the local market. This has been a great trade fair so far. We look forward to increasing our presence in Poland.

Petra Horac

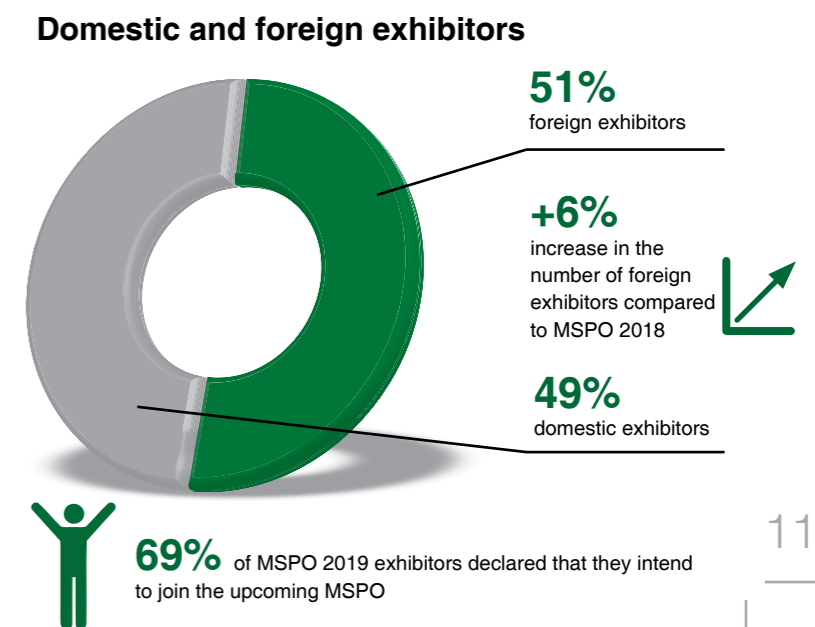
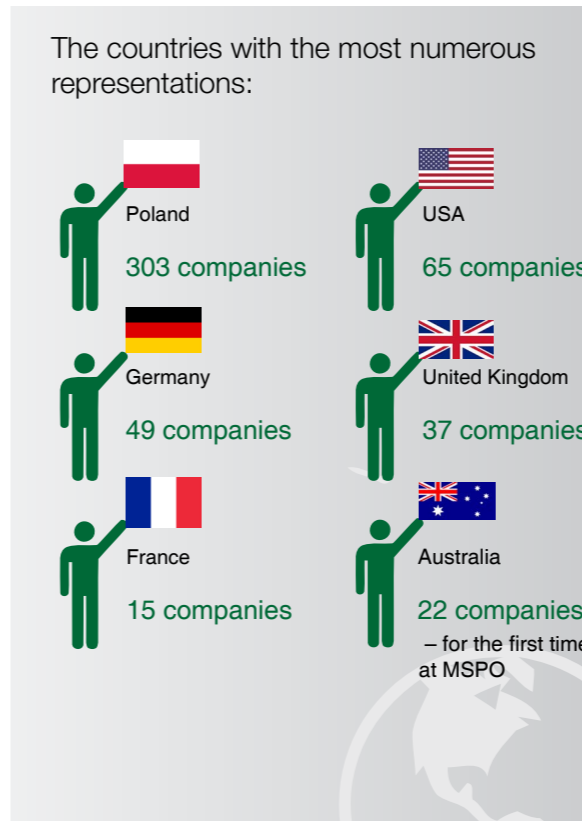
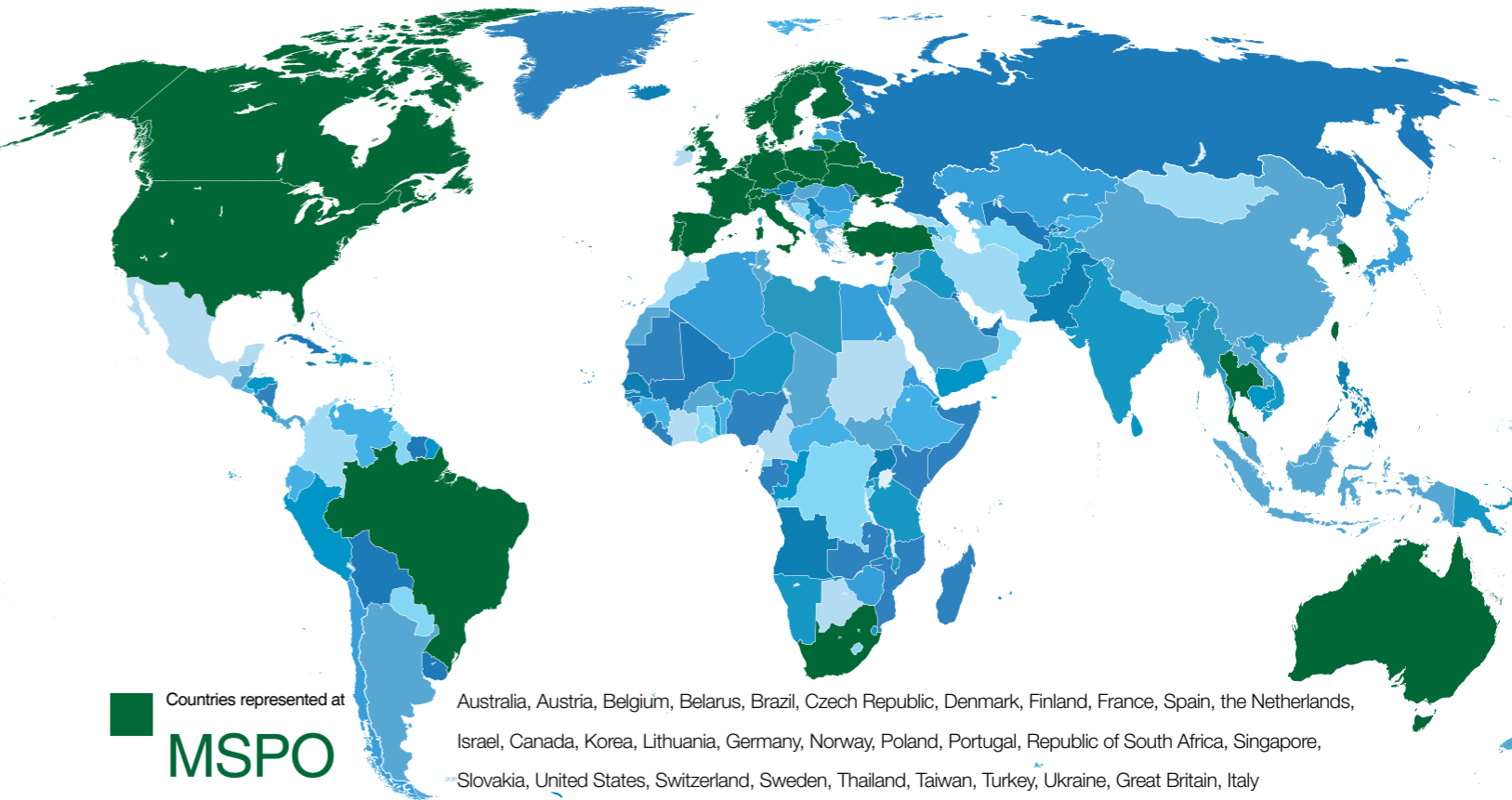
**Prototypa – ZM**

We find the exhibition very important as it hosts many military institutions here. We meet our business clients from Poland and work on future contracts.



## 610 exhibitors from 31 countries

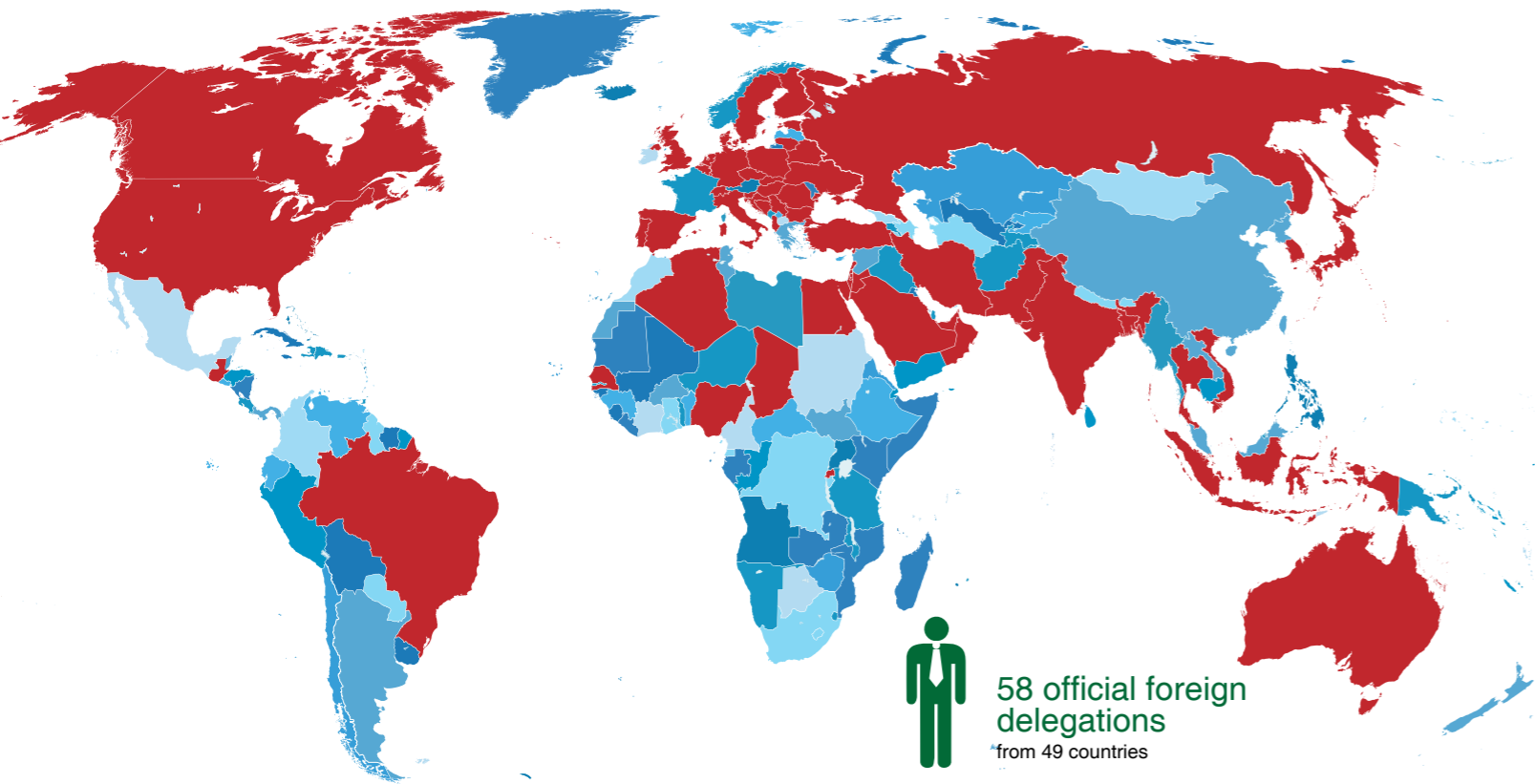
## 2019 Exhibitors







# Visitors and Guests from 53 countries



**58 official foreign delegations**  
from 49 countries

30 534 visitors



business insiders

Open Day visitors

12

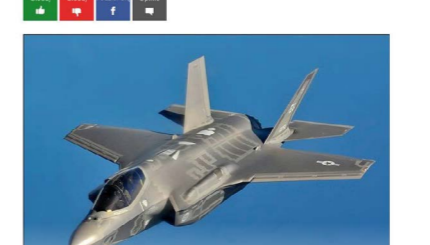
# Media about MSPO



W serwisie YouTube udostępniono film z przelotu amerykańskich samolotów F-15 i KC-135 podczas MSPO 2019. Niektóre myśliwce są malowane w pasy z okresu inwazji w Normandii.



F-35 dla Polski. Jest zgoda administracji Trumpa na sprzedaż samolotów. 32 samoloty za 25 mld zł

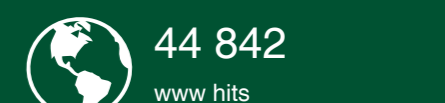


Jest zgoda Departamentu Stanu USA na sprzedaż F-35 Polsce (Wikimedia Commons C.C. BY)

## Media interest



## Marketing and promotion



## MSPO social media and internet presence



LinkedIn, Facebook, Twitter, YouTube

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## Strategic partner



## Supporting institutions

- Ministry of National Defence
- Ministry of Development
- Minister of Foreign Affairs
- Ministry of Interior and Administration
- Minister of Science and Higher Education
- National Security Bureau
- Internal Security Agency
- General Staff of the Polish Armed Forces
- General Command of Branches of Armed Forces
- Operational Command of Branches of Armed Forces
- Military Police Commander in Chief
- Inspectorate for Armed Forces Support
- Border Guard Headquarters
- Polish Police Headquarters
- National Fire Services Headquarters
- Polish Chamber of National Defence Manufacturers
- Parliamentary Committee of National Defence – the Lower and Upper Chamber
- Parliamentary Committee of Internal Affairs

## Media Partners (selection)



# The Programme Board

## Chairman of the Programme Board:

Marek ŁAPIŃSKI

Secretary of State at the Ministry of National Defence

## Deputy Chairman of the Programme Board:

Brigadier General Engineer Karol DYMA-NOWSKI PhD.

Director of Armament Policy Department the Ministry of National Defence

## Deputy Chairman of the Programme Board:

Colonel Bogdan DZIEWULSKI  
Deputy Head of the Inspectorate, Chief of Logistics at the Inspectorate for Armed Forces Support

## Deputy Chairman of the Programme Board:

Colonel Artur CHOMA  
Head of the Armed Forces Development and Modernization Team of the Armed Forces Supervision Department at the National Security Bureau

## Programme Board Members:

Brigadier Krzysztof CIOSEK  
Świętokrzyskie Voivodeship Commander in Chief of the State Fire Services

Colonel Jarosław CZAJKA  
Head of the Management and Development Unit at the Air Force Inspectorate of the General Command of Branches of Armed Forces

Piotr CZAJKOWSKI  
Head of the Unit at the Treasury Department of the Chancellery of the Prime Minister



Brigadier General Artur DĘBCZAK PhD.  
Deputy Commander of the Territorial Defence Forces Command

Krzysztof FRELICH  
Deputy Director of the Department of Science at the Ministry of Science and Higher Education

Commander Jacek HAMERA  
Acting Head of the Management and Development Unit at the Maritime Directorate of the General Command of Branches of Armed Forces;

Colonel Waldemar JANIĄK  
Head of the Management and Development Unit at the TBM and Artillery at the Land Forces Inspectorate of the General Command of Branches of Armed Forces

Brigadier General Robert JĘDRYCHOWSKI PhD.  
Deputy Commander in Chief, the Military Police Headquarters

Col. Bogusław KOT  
Deputy Head of the OPBMR of the Branches of Armed Forces Inspectorate at General Command of Branches of Armed Forces

Colonel Wiesław KUČHTA

Head of the Management and Development Unit at the Military Engineering of the Land Forces Inspectorate of the General Command of Branches of Armed Forces

Colonel Engineer retired. Witold LEWANDOWSKI PhD.  
Armed Forces Supervision Department – the National Security Bureau

Colonel Grzegorz LISOWSKI  
Deputy Head of the Technical Services Unit of the Inspectorate for Armed Forces Support

Krzysztof ŁABA  
Director of the Projects and Programmes Management Unit for the State Security and Defence at the National Centre for Research and Development

Colonel Adam MAJCHRZAK  
Head of Logistics Dept. at the Internal Security Agency

Andrzej MOCHOŃ PhD.  
President of the Board, Targi Kielce SA

Colonel Marek NIENARTOWICZ  
Head of the Unit of Economic Mobilisation Programme and Resources at the Logistics

Department - P4 of the General Staff of the Polish Armed Forces

Lt. Col. Dariusz SIERŻĘGA  
Senior Specialist of the Management and Development Unit - the Armed and Mechanised Units, Branch of Armed Forces Inspectorate of the General Command of Branches of Armed Forces

Krzysztof STYCZEŃ  
Deputy Director of the Projects and Programmes Management Unit for the State Security and Defence at the National Centre for Research and Development

Professor Romuald SZEREMIETIEW  
Chairman of the Advisors to the Minister of Science at the Ministry of Science and Higher Education

Colonel Dariusz TETERUK  
Deputy Director of the Commander in Chief of the Technology and Supply Bureau at the Border Guard

Colonel Mariusz TOMCZYK  
Head of the Technical Planning Unit at the Board of Logistics Planning Department J4 of the General Command of Branches of Armed Forces

Lt. Col. Mariusz WOŹNIAK  
Senior Specialist for the Assets Planning and Management Division of the Command of the Special Forces Component of the General Command of Branches of Armed Forces

Chief Inspector Mariusz WÓJCIK  
BOA Central Counterterrorist Sub-unit of the Police

Marcin Wróblewski  
Deputy Director of the Security Policy Department of the Ministry of Foreign Affairs



## REPUBLIC OF POLAND PRESIDENT'S AWARD

for the product which best serves the purpose of the RP Armed Forces soldiers' safety enhancement

GRUPA WB  
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05-850 Ożarów Mazowiecki  
www.wbgroup.pl | info@wb.com.pl  
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### WARMATE Loitering Ammunition Systems portfolio

WARMATE loitering ammunition system is the WB Group breakthrough product. An unmanned aerial vehicle (UAV) combined with various-type warheads is a comprehensive precise, guided missile system. In combination with the reconnaissance warhead it becomes an effective ISTAR class system. The two-functions integration - reconnaissance and the ability to destroy targets during a suicide attack gives soldiers the ability to recognize and identify the target and destroy it if necessary. The system offers the mission cancel option - a warhead may be destroyed whilst in the air or the airframe may safely lands after a reconnaissance mission completion.

After the product's extensive market success, WB GROUP has developed subsequent system versions. Each performs reconnaissance and assault functions depending on the type of mission, terrain and troops types. Now the WB Group offers as many as six versions of the system. In addition to the well-known, first WARMATE backpack version and the larger version vehicle-based WARMATE 2 which premiered at last year's MSPO, the GROUP WB has launched the:

WARMATE TL (Tube Launch) - compared to other versions, this has been designed to minimise the platform set-up time. The TL system is mounted in a dedicated launcher - the airframe automatically unfolds in take-off phase. Easy to transport, offers exceptionally fast combat readiness - these features make it a perfect solution for modern battle-field conditions.

Each WARMATE combat versions may be equipped with one of the warheads - High Explosive HE, Cumulative HEAT termobaric FAE or reconnaissance. The head is selected before the mission - the choice depends on the target type or the type of mission.

WARMATE R (reconnaissance version) - equipped with a stabilized EO / IR warhead for target coordinates determination. Once coordinates are provided, artillery or assault WARMATE can be used.

WARMATE V - this version has been designed to carry out a military mission in a dense urban environment, where the use of fast unmanned aircraft is impossible. VTOL WARMATE version is a hexacopter, a slower speed makes it possible to reach and penetrate difficult target locations for very precise assault as well as error minimization in target identification. The VTOL version can be equipped with one of the warheads as well as with the EO / IR reconnaissance head.



## Minister's of National Defence's Distinction

### LEADER

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LLC. from Gliwice (44-117),  
ul. Toszecka 102, www.obrum.gliwice.pl  
email: dg@hsw.pl



Rosomak SA  
ul. Powstańców 5/7  
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tel. 32 228 57 51 fax: 32 228 12 52  
e-mail: rosomaksa@rosomaksa.pl  
email: dg@hsw.pl



Military Mechanical Works SA  
Ul. J.H. Dąbrowskiego 262/280, 60-406 Poznań  
www.wzm.pl  
Telefon: 61 261 576 112  
Fax: 61 847 47 46  
e-mail: wzm@wzm.pl



Military Engineering Works SA  
ul. 15 P.P. Wilków 3, 08-530 Dęblin  
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e-mail: info@wzinz.com.pl  
fax: 81-88-01-502, tel.: 81-88-01-501



Military Institute of Armoured and Automotive Technology  
Ul. Okuniewska 1, 05-070 Sulejów  
Fax. 261 811 073  
Tel. 261 811 012  
e-mail: sekretariat@witpis.eu  
www.witpis.eu



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### New, Amphibious Infantry Fighting Vehicle

The New Amphibious Infantry Fighting Vehicle presented in Kielce with the implemented 30 mm Remote Controlled Tower System (with integrated PPK SPIKE), developed as part of the BORSUK program, has successfully passed static and dynamic tests as well as swimming tests. The new infantry vehicle is to overcome wide water obstacles, and also to operate in various terrain and climatic conditions. In addition, the vehicle will be characterized by high

maneuverability and ease of transport. Designed to protect the crew and landing troops against fire from small arms and anti-tank grenade launchers, but also prepared to protect the crew against explosions of mines and improvised explosives will be created in several versions - from the amphibious version to the heavy armored vehicle version.



## Minister's of National Defence's Distinction

The BORSUK project is created thanks to financing obtained from the funds of the National Center for Research and Development with which HSW S.A. has concluded a contract as a consortium leader. On the last day of the MSPO fair in Kielce, prizes were awarded for the most innovative and promising products that increase national security. The Special Distinction of the

Minister of National Defense was awarded to the New Amphibious Infantry Fighting Vehicle BORSUK carried out by the consortium, led by Huta Stalowa Wola S.A.



## The Defender Award

• **Wti Consortium:**  
TELDAT Sp. z o.o. sp.k.  
ul. Cicha 19-27  
85-650 Bydgoszcz  
E-mail: teldat@teldat.com.pl  
Telefon: +48 52 341 97 00  
Faks: +48 52 341 97 40



SILTEC Sp. z o.o.  
ul. Parzewska 12  
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tel. + 48 22 572 18 00  
fax + 48 22 823 66 46  
<http://www.siltec.com.pl/>



### ICT Node (WTi)

ICT Node (WTi), in a portable version, is an innovative and high-performance military ICT solution providing modern, network-centric and secure ICT infrastructure for the Polish Armed Forces C2 system, dedicated to the commanding levels from the battalion to the division. The node was developed based on several years of experience in implementing, operating and improving the JASMINE ICT nodes, also at theaters of operation. WTi enables, among others,

to expand and operate a military IT system, e.g. Polish Mission Network 2.0, which is able to process SECRET or NATO SECRET information, to include the possibility of crypto materials use, ensuring also the separation of RED and BLACK zones.





## The Defender Award

UMO LLC  
Ul. Topiel 11, lok. U2  
00-342 Warszawa  
+48 22 374 08 87  
sekretariat@umo.pl



### Black Hornet Nano

The Black Hornet 3 PRS G2 is the smallest existing squad organic airborne Reconnaissance, Surveillance and Target Acquisition (RSTA) capability developed specifically for the dismounted Soldier and lower echelon teams. The System is designed to be easily carried and operated by a single person and is equally effective whether the operator is static or on the move.

The Black Hornet 3 allows the user an immediate beyond visual range “eyes-on-target” capability, providing enhanced situational awareness and reduced operational risk. The extremely small size of the UAV (NUAV) allows operations in confined areas, even indoors, and a significant utility for covert use. The system is equipped with optoelectronic cameras that allow UAV to work during the day light as well as the thermal cameras that may be use during the night. Black Hornet PRS may be delivered with embedded maps in both vector and raster formats. Maps can be used for mission planning, execution and review.

Black Hornet 3 PRS G2 is a complete system comprising Black Hornet 3 Nano Unmanned Air Vehicles (NUAV), and a Ground Control Station (GCS) which includes the upgraded PRS G2 Base Station with two integrated NUAV compartments, a single-hand Controller and a 7-inch sunlight readable PRS G2 Display unit. The system may be configured with any number of Black Hornet 3 NUAVs. The total weight of the core system with two Black Hornet 3 NUAVs is 1.3 kg. Weight of single UAV – less than 33g.



## The Defender Award

CSVeterans general partnership Jacek Spionek i Łukasz Cander w konsorcjum z BUMEX Paweł Wychowaniec i HYDRONAUKA Jakub Nowaczyk z Bydgoszczy



### Automated hydrographic and thermohydrographic machines with a multi-roller

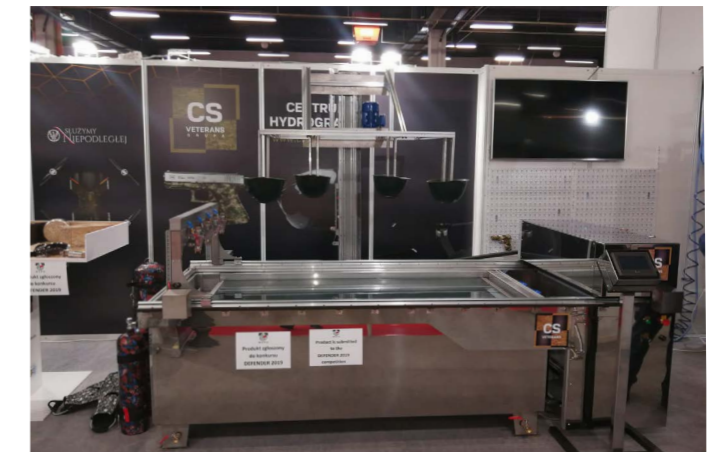
Created by the CSVETERANS - the company has utilised a whole array of cutting-edge solutions to create a comprehensive device. Hydrography and thermohydrography - the technology harnessed for industrial production. Supreme standards which make it possible to reduce negative environmental impact. The hydrographic automaton has been designed to reduce man’s interference into the process - staff is requires to provide supervision over the process correctness. The device includes a graphical interface and a touch panel for transparent process control and, if necessary, parameters adjustment at particular stages. A multi-roll trolley makes it possible to unwind the foil for a quick pattern change-over; all one needs to do is to press just one icon on the control panel between subsequent production cycles. The hydrographic automated system facilitates installation of up to 6 different foils with different patterns indispensable for long-term production planning. The ground-breaking water cleaning systems increase the appliance’s service-life. The necessary service and maintenance downtimes frequency has been reduced for better production results and reduction of post-production sewage amounts. The machine’s activator absorber minimizes the volatile compounds concentration in the immediate vicinity of the device. This favours work safety and comfort.”

What is the application of graphics using the water transfer method?  
Hydrographic done in our company is a modern method of applying patterns to complex structures in three dimensions, with unlimited availability of designs.

The coating process consists of a specially designed tank that is filled with water, a PVA foil with the desired pattern is spread over its surface. Then, the film is sprayed with an activator, which turns it into a kind of gel that drifts on

the surface of the water. The object that we want to cover with the pattern is dipped into the tank and with use of the natural buoyancy of the water, the object is covered with the pattern.

Thanks to the adaptive technology, it is possible to apply the print on the most complicated shapes, while maintaining its high abrasion resistance. Damaging of such a coating is extremely difficult to achieve, therefore it can be used, for example, in the covering of weapons, which is most often exposed to various atmospheric factors. The applied graphics delight with its details and thanks to the unique structure perfectly adapts to the element being decorated.





## The Defender Award

CELTECH LLC  
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61-612 Poznań  
tel. +48 61 62 32 932  
fax +48 61 62 32 933  
www.celtech.pl  
celtech@celtech.pl  
www.umo.pl



### Field container laundry KPP-600

The laundry structure consists of 2 20-foot containers of the 1C series, divided functionally into: a laundry container and a container for finishing treatments. The laundry also includes: a double wall tent attached to a laundry container, a pneumatic link tent unfastened over a footbridge connecting both containers and 2 pressureless flexible tanks for clean water and sewage, each with a capacity of 10 m<sup>3</sup>. The laundry is intended for washing clothes and under field conditions. The configuration of the laundry room enables the reception and segregation of dirty clothes, followed by their washing and drying in a laundry container. After drying, clean clothes are ironed, mangled, folded, stored and dispensed in a spending finishing treatments' container. The applied solutions separate the laundry room from the dirty and clean area with the hygienic barrier. This makes it possible to carry out the washing process without crossing of dirty and clean items. Tactical and technical data

Required area for laundry development: 14 m x 14 m  
Control and supervision of the laundry room functioning: touch control panels in KP and KZW, visualizing the course of processes and allowing to manage the functioning of the laundry room  
Container levelling: hydraulic automatic levelling system  
Room service: 2 persons  
Daily performance: 600 kg  
Technological equipment of the laundry room: 2 laundries, 2 dryers, ironing machine (mangle), universal press with steam iron,  
Operation at ambient temperature: -30°C to +55°C  
Power supply: 100 kW or 5-wire TN-S 400V AC network  
Water supply: from your own tank, from a cistern or from the water supply system,

Water system drying: automatic compressed air drying.



## The Defender Award

**Participating companies:**  
Huta Stalowa Wola Steelworks SA  
Generała Tadeusza Kasprzyckiego 8,  
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**Coordinator:**  
Polish Armaments Group  
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wzm@wzm.pl



Military Armament Works SA  
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wzu@wzu.pl



Mesko S.A.  
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info@mesko.com.pl



### PGZ Group`s Tank Destroyer optional proposal implements solutions developed within PGZ

PGZ Group`s Tank Destroyer optional proposal implements solutions developed within PGZ Companies and enables the customer to choose from a range of various platforms: PK-9 or OPAL – HSW S.A., modernised BWP-1 – WZM S.A., UMPG – OBRUM Sp. z o.o. PGZ Group`s proposal also comprises the integration of guided missiles - chosen by Polish Ministry of Defence - with the vehicle. The integration will be carried out by WZU S.A. and the missiles will be obtained from the foreign partners. The procurement of the missiles by Polish Armed Forces could result in technology transfer and further establishment of production capabilities in MESKO S.A.

The above Tank Destroyer solution facilitates Polish Armed Forces to obtain a type of armament able to counter armour vehicles equipped with active protection systems. Technological and technical advancement of the Tank Destroyer enables to respond to the challenges of the modern battlefield and allows the development of new operational military applications.





## The Defender Award

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biuro@ac-management.com.pl



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witu@witu.mil.pl

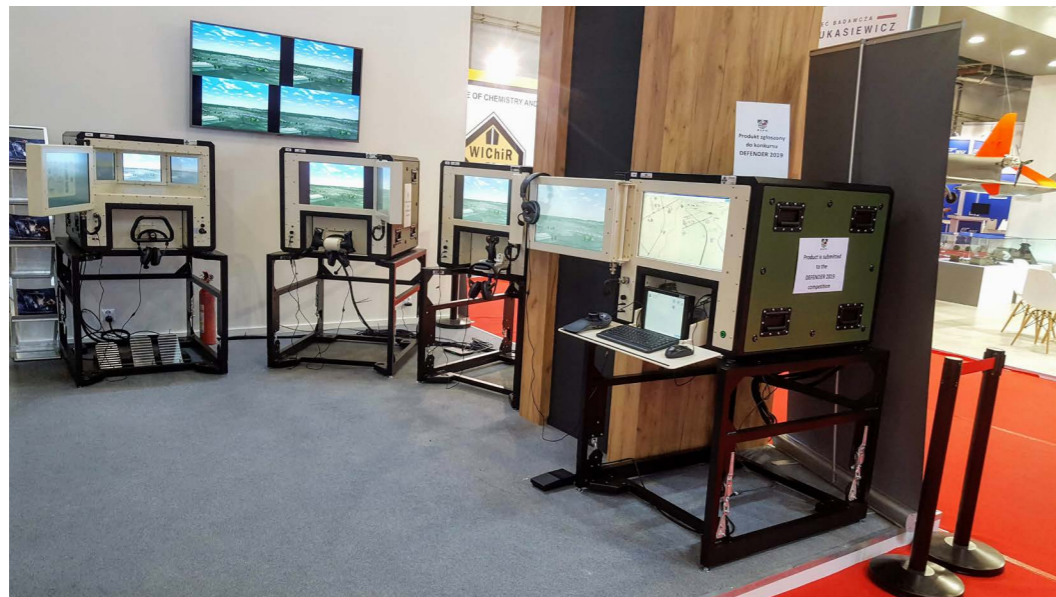


### The Table Top Trainer (TTT) for Leopard 2

The Table Top Trainer (TTT) for Leopard 2 tanks is developed for fire and tactical training of crews of Leopard 2A5 (L2A5) tanks. The training can be conducted individually for the tank commander, driver, gunner, loader (optionally) or the entire tank crew, with capacity to scale up for a platoon or company of L2A5 tanks. TTT allows for teaching and honing of skills during driving of tanks in any terrain and weather conditions, at any time of the day or night, employing all driving support systems, it facilitates conducting of efficient fire from the gun and from on-board weaponry in a realistic recreation of the battlefield, as well as tactical activities on the contemporary battlefield. The TTT is an integrated set composed of four or five modules, depending on the configuration (with or without loader). Each module

has a transport frame allowing for quick preparation for deployment or transport. Each module integrates computers, displays and electronic devices necessary for operation. The set is composed of:

- An IOS module (for the instructor – system operator)
- A CMDR module (vehicle commander)
- A DRV module (tank driver), with additional pedal module
- A GNR module (gunner)
- A LDR module (loader)



### The first Polish insensitive explosive charge filled in on the prototype of an artillery projectile, together with a test stand and complete set of tests according to STANAG 4439 requirements

Insensitive ammunition is a relatively new type of ammunition characterised by its low sensitivity to undesirable initiation by external stimuli, for example: shrapnel or a bullet impact, that is, events that may happen in a battle field, or incidents and accidents, such as a fire during storage or transport. A project concerning development of the first Polish insensitive explosive charge on the prototype of an artillery projectile together with test stations and a complete set of tests according to STANAG 4439 requirements was executed in cooperation of the Chemical Works "NITRO-CHEM" JSC and the Military Institute of Armament Technology. Responsibilities of the Chemical Works "NITRO-CHEM" JSC included building of production installation, of filling process implementation of insensitive explosive composition, and

filling of prototype artillery projectile. The composition used in the insensitive explosive charge was developed together with the Military University of Technology. Responsibilities of the Military Institute of Armament Technology included design and construction of test stations for insensitive tests, conducting tests together with NITRO-CHEM JSC, analyses of the test results, and determining of the IM Signature for the insensitive explosive charge in the artillery projectile.





## The Defender Award

WB GROUP  
WB ELECTRONICS SA  
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05-850 Ożarów Mazowiecki  
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info@wb.com.pl  
t: +48 22 731 25 00  
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### TOPAZ Integrated Combat Management System

TOPAZ Integrated Combat Management System – ICMS is a fully integrated solution enhancing situational awareness, providing support in strategy, mission planning & preparation. TOPAZ-ICMS solution facilitates an adaptive workflow drawing upon the core elements in battle: overwatch / observation, management / logistics and strike.

All these elements in tune together transform situational awareness and common operating picture to the next level, creating a COLLABORATIVE OPERATING PICTURE for military commanders.

TOPAZ consists of a fully integrated, modular set of applications:

TOPAZ Recon – for reconnaissance, observation and situational awareness.

TOPAZ Tactics – for communications command and battlefield management;

TOPAZ Strike – for strike, air strike and anti-aircraft protection.

Enables to carry out a precise strike using available loitering munitions

TOPAZ Logistics – for supplies, service and support modernization

TOPAZ Fire – for fire control system integration of firing assets

TOPAZ ICMS is an efficient, battle-proven tactical solution that integrated a wide range of tactical assets, into a single management suite, designed in compliance with NATO standards. TOPAZ provides for command and fire control for any combination of units equipped with: 152mm DANA howitzer, 155 mm KRAB howitzer, 120 mm RAK automatic mortar, 122 mm LANGUSTA rocket launcher, 155 mm KRYL howitzer.



## The Defender Award

PCO SA  
ul. Jana Nowaka-Jeziorańskiego 28  
03-982 Warszawa  
email: pco@pcosa.com.pl  
www.pcosa.com.pl  
telefon (22) 5157501



### Thermal binocular NPL-1T

Thermal binocular NPL-1T allows observation during day and night and in limited visibility conditions.

New constructional solutions and advanced methods of thermal image processing allowed for obtaining exceptional quality of thermal image while reducing weight and power consumption. Thermal image is presented on two OLED displays or can be sent via digital video output to an external helmet-mounted display or a monitor. NPL-1T allows to store pictures in internal memory with a possibility to copy the images to a computer. Basic power supply are 4xAA batteries but binoculars can be powered from an external

source of power in a wide range of voltages. NPL-1T is designed to work with the military TSO-1 receiver, allowing to display time and geographical coordinates on the screen. Furthermore NPL-1T is equipped allow for an approximate measurement of the distance to the target with a height of at least 1.75 m.





## The Defender Award

SZCZEŚNIAK Special Vehicles LLC  
Ul. Bestwińska 105A, 43-346 Bielsko-Biała  
www.pszczesniak.pl  
tel. 33 827 34 00  
e-mail: biuro@pszczesniak.pl



### Special "ROTATOR" road rescue vehicle on Renault K520 8x4 chassis

A heavy special road rescue truck equipped with a rotary crane on the Renault K520 8x4 chassis is designed for technical rescue on public roads enabling both unblocking the road and transporting damaged vehicles using a towing device. It is a perfect combination of a typical mobile crane and technical support vehicle. Equipped with 7 hydraulic winches, it is able to place overturned vehicles regardless of their location.

In 2019, SZCZEŚNIAK supplied 7 vehicles (within 10 months of signing the contract) for the units of the State Fire Service. They are currently the largest towing vehicles in the State Fire Service. Apart from project management, the company's role was to integrate components from different countries into one whole. The combination of a crane and a towing device enables the use of one vehicle instead of two, such as a mobile crane and a towing recovery vehicle. Thanks to the use of 7 hydraulic winches, the vehicle can work in the 270-degree area and place overturned vehicles back on wheels while being in parallel position.



## Commander in Chief of the Border Guards' Distinction - Border Guards Laurel

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centrala (+48 22) 572 1 800  
fax (+48 22) 823 66 46  
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### Mobile Surveillance Systems (MSS)

Mobile Surveillance Systems (MSS) are built on off-road Toyota Hilux 4x4 vehicles with a 2.4-liter diesel engine and 150 km of power and an automatic transmission.

MSS are dedicated perform the function of ad hoc observation posts. MSS allows not only to detect and recognize the object, but also to record the result of the observation and determine the coordinates of the location of the observed objects.

MSS are equipped with an integrated observation head containing a thermal imaging camera, day camera, laser rangefinder, GPS and north sensor as well as two comfortable operator stations equipped with monitors and a system for control of electrooptic equipment.

Thanks to the innovative construction solutions and the highest class equipment, MSS ensure comfortable and safe working conditions during the mission for 2 operators,

giving them the opportunity to work simultaneously or in shifts using the full functionality of the observation system.

Consortium of Siltec Sp. z o.o. and Zeszuta Sp. z o.o. in 2018 completed a contract for the supply of 23 MSS vehicles and a simulator for training MSS operators installed at the Border Guard Training Center in Kętrzyn. Under the contract, more than two hundred representatives of the Border Guard were trained, including operators, drivers and technicians.





## Police Commander In Chief Distinction

Mindmade LLC  
Plac Konstytucji 3, 00-647 Warszawa,  
Polska  
biuro@mindmade.pl  
<https://www.wbgroup.pl/mindmade/>  
tel./fax (+48) 22 627 66 96



WB Group  
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### PIK – Communication Integration Platform

PIK is a mixed hardware and software solution designed to provide seamless, safe, user- and supervisor-friendly voice and data communication. The PIK Platform consists of both hardware and specialized software. PIK – Communications Integration Platform for Services Communications Integration Platform PIK, is a multi-variant, multilevel mobile solution that offers:

- Countrywide coverage dispatch communication
  - Integration of many incompatible communication systems
  - Support mechanisms for Service-Oriented
  - Safe, mobile data access
  - Point-to-multipoint Video streaming, with image recording
  - Broadband Internet access possibility
- PIK is a mixed hardware and software solution designed to



provide seamless, safe, user- and supervisor-friendly voice and data communication. The PIK Platform consists of both hardware and specialized software.

## General Commander of Branches of Armed Forces' Main Award and Distinction for the winner of "The Best Presentation – the Best Expo Stand" Competition

The Land Forces Inspector at the General Command of Branches of Armed Forces  
ul. Żwirki i Wigury 103/105  
00-912 WARSZAWA  
e-mail: [dgrsz.iwl.sekretariat@mon.gov.pl](mailto:dgrsz.iwl.sekretariat@mon.gov.pl)  
tel. 26 182 66 43



LAND FORCES INSPECTORATE is the internal part of the General Command of the Polish Armed Forces. Its tasks are related to training and equipment of the Land Forces units. It is responsible for Land Forces' troops preparation and measures for battlefield activity as well as for coordination, organization and overseeing tasks related to achieving operational capability by supervised units. Inspectorate carries out tasks connected with performing equipment

acquisition manager function for Armoured Mechanized, Motorized, Aeromobile and Artillery Forces.





## The diploma: Naval Inspector at the General Command of Branches of Armed Forces, Warsaw

Naval Inspector at the General Command of Branches of Armed Forces  
ul. Jerzego Waszyngtona 44  
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tel. +48 261 263 003 email: dgrsz.inspektoratmw@ron.mil.pl



The Navy Inspectorate is a part of the General Command of the Polish Armed Forces, directly subordinate to the General Commander.

The main tasks carried out by the Inspectorate are:

- preparation and conducting of the training process in cooperation with naval commands and staffs;
- setting directions for the professional development of the naval personnel;
- programing and planning of development of the Polish Naval Forces;
- force and resources preparation for combat operations and other activities;

- provision of the deployable naval graduated readiness forces for NATO and allied purposes;
- participation in SAR operations, liquidation of the effects of accidents and natural disasters.



## The diploma: Command of the Special Forces Component from Krakow

Command of the Special Forces Component  
ul. Tyniecka 45  
30-323 Kraków  
Tel. 261 132 300  
Fax. 261 132 323  
E-mail: dkws@ron.mil.pl  
Strona internetowa: www.dkws.wp.mil.pl  
Facebook „Wojska Specjalne”



Polish Special Operations Forces Command (POLSOFCOM)

POLSOFCOM is located in Krakow and supervises all Polish Special Forces units: Special Missions Unit GROM, COMMANDO Special Forces Group, Naval Special Warfare Unit FORMOZA, Special Forces Support Unit NIL, Special Forces Unit AGAT as well as the 7th Special Operation Squadron which is a part of Polish Air Force. Contemporary

Special Forces are designed to conduct special operations both in the country and abroad, during peace, crisis and war. The POLSOFCOM Commander is Brig. Gen. Sławomir Drumowicz, PhD.





Special gratitude in recognition of extraordinary merits in the modern solutions and innovative teaching technologies implementation in the process of personnel preparation and training for the needs of the Polish Armed Forces for Engineer Adam Januszko PhD. Hab, professor at the Land Forces Academy.



## The Territorial Defence Forces Commander's Award

"Łucznik" Arms Factory Radom LLC  
Aleksa Grobickiego 23,  
26-617 Radom  
Email: sekretariat@fabrykabroni.pl  
Tel. 48 38 99 100



### The semi-automatic MSBS GROT sniper rifle caliber 7.62 mm

The semi-automatic MSBS GROT sniper rifle caliber 7.62 mm, use a standard NATO cartridge 7.62x51 mm rifle, was developed in two design versions: with a 406 mm (16 ") and 508 mm (20") barrel. It is a completely Polish, original design, which is the result of cooperation between Fabryka Broni "Łucznik" -Radom sp. z o. o. and the Military University of Technology from Warsaw.

The sniper rifle is a semi-automatic weapon, gas operated with short stroke of piston. The general construction scheme of the weapon is based on the 5.56 mm MSBS GROT and contains all its best features, i.e. safety and reliability of operation, modularity, ergonomics and technical

aesthetics. Arrangement of manipulators in the rifle (i.e. fire selector, slider catch, magazine catch and charging handle) is similar to the 5.56 mm GROT rifle, which is used by Polish Army soldiers, which is an important advantage, positively affecting the fast process training of soldiers. The easy barrel change and the reversible shell ejection system on the right and left are retained at user level.





## The Inspectorate for Armed Forces Support Award

In the Training category:

The Logistics Training Centre  
Dworcowa 6a  
86-134 Grupa  
tel. 261482727  
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kj.cslog@ron.mil.pl



### System of training specialists in servicing and repairs IFV ROSOMAK

A system of training specialists in the operation and repair of IFV ROSOMAK (mechanic and vehicle electromechanic, technicians and platoon commanders, deck weapon mechanic, gunner) is a system of elements including the objectives, forms, training methods included in the training programs of courses conducted at the Logistics Training Center, a professional teaching staff and a modern teaching base. The main elements presented at the Center exhibition were teaching aids in the form of a virtual trainer, multimedia, cross-sections and stands of selected systems or devices used in the ROSOMAK Armored Transporter. This is the result of 5 years of work on the system of soldiers and employees of the Center and mostly implemented as part of rationalization applications, which resulted in savings of almost PLN 24 million. The Logistics Training Center currently conducts training under the said system at the following courses:

“Operational supervision of IFV ROSOMAK” “Implementation of higher services IFV ROSOMAK” “30mm MK-44 BUSHMASTER cannon mechanic”  
In 2020, it is planned to introduce a new course “ HITFIST 30 turret mechanic”, and in the future also more advanced training related to mechanics and electromechanics IFV ROSOMAK. During the Fair, the Logistics Training Center was awarded the prize of the Chief of the Inspectorate of Armed Forces Support in the Training category.



## The Inspectorate for Armed Forces Support Award

In the Innovativeness:

3 Regional Logistics Base  
ul. Montelupich 3  
30-901 Kraków woj. Małopolskie  
telefon: 261137718  
fax: 261137553



### OBRA-3 System Test

OBRA-3 System Test serves comprehensive check of correct action of the vehicle self-protective system of the KTO ROSOMAK vehicle with HITFIST 30mm tower.

The test provides the possibility of system check without any system component dismounting.

OBRA-3 System Test consists of:

1. Laser illuminator, used to illuminate every single detector – proper detection of radiation is displayed on the display desk by signaling which detector is being illuminated.
2. Test with the smoke grenade simulators, by use of, grenade loading is simulated (smoke grenade simulators are loaded into grenade launchers – correct loading detection is signaled on the display desk by the change of the light assigned to a grenade launcher from green colour (unload-

ed) to red colour (loaded) and by the change (on the test display) of the letter assigned to a grenade launcher from „P” (empty launcher) to „Z” (loaded) as well. Next, by use of a the display desk, the signal to grenade launch is given respectively – correct action is signaled on the display desk by the change of the letter assigned to a grenade launcher from „Z” to „W” (launched).





## The Inspectorate for Armed Forces Support Award

Special award:

Repair Battalion of the 10th Logistics Brigade  
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fax: 261 626 021  
e-mail: 55brem@ron.mil.pl



www.10blog.wp.mil.pl w zakładce: podległe jednostki.

### COMPREHENSIVE DIAGNOSTIC AND OPERATING COMMUNICATION EQUIPMENT STATION FOR KTO „ROSOMAK”

The device consists of four modules, configuration of this devices allows complete maintenance of communication system for KTO „ROSOMAK”.

1. Diagnostic module for „FONET” system devices - used to test all internal communication „Fonet” desktops.
2. Diagnostic module for GPS system devices - used to test two GPS navigation systems: HGPST with a module SAASM and TALIN 3000.
3. Diagnostic and operation module for vehicle self-protection system SSP-1 OBRA 3 - used for testing and servicing of SSP-1 OBRA 3 elements. It is equipped with model device, wiring, signaling elements which allows the operator to check all subassemblies.
4. Diagnostic and operation module for ASS CHERDES

system - used for testing and servicing of ASS CHERDES system parts in version I. and II. Additionally it provides connection to four GID-3 and one DPO devices.

All the modules was designed and built by communication specialists from the workshop of 55 maintenance battalion (the table with the cable of the diagnostic system devices module – „FONET” made by company WB Electronics SA).



## The Inspectorate for Armed Forces Support Award

Special award:

4 Regional Logistics Base  
ul. Pretficza 28  
50-984 Wrocław  
tel: 261 651 002  
e-mail: 4rblog@ron.mil.pl



### “Project 2020” website designed to manage military equipment, supplies and services handling

The Project 2020 operates as part of the project WOJAK ZP. The Armed Forces Support Inspectorate and the Polish Association of Public Procurement Consultants took the patronage of the project WOJAK ZP. The project works in two modules. The first module is the Good Practices Platform as a portal open to the entire public procurement environment, both of awarding entities and contractors. The second module is the Experience Exchange Platform dedicated to participants of various thematic groups. There is Project 2020 on the Good Practices Platform. It is an internet platform designed to obtain supplies and services for military equipment and ultimately construction works.

The Project 2020 will ensure continuity of use of military equipment, including post-Soviet and German equipment, and comprehensive protection of the needs of military units and Territorial Defense Forces. In addition, it will activate the national defense industry. The project 2020 will be implemented in accordance with the Public Procurement Law. The implementation of the Project 2020 may bring savings for the state treasury in the amount of 109.3 million PLN within 7 years.





## The Minister of Entrepreneurship in Technology special accolades in the "Best Polish Armaments Exporter" category

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ul. Staroprzygodzka 117  
63-400 Ostrów Wielkopolski  
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Lubawa S.A. is a Polish manufacturer of a wide range of products necessary for the effective and secure saving of lives of people who in hazardous areas. It produces high-tech equipment for a modern army, fulfills orders for a uniformed. Lubawa S.A. is an acknowledged, significant and active participant in the market in the field of health and safety products and the ones for employee protection.

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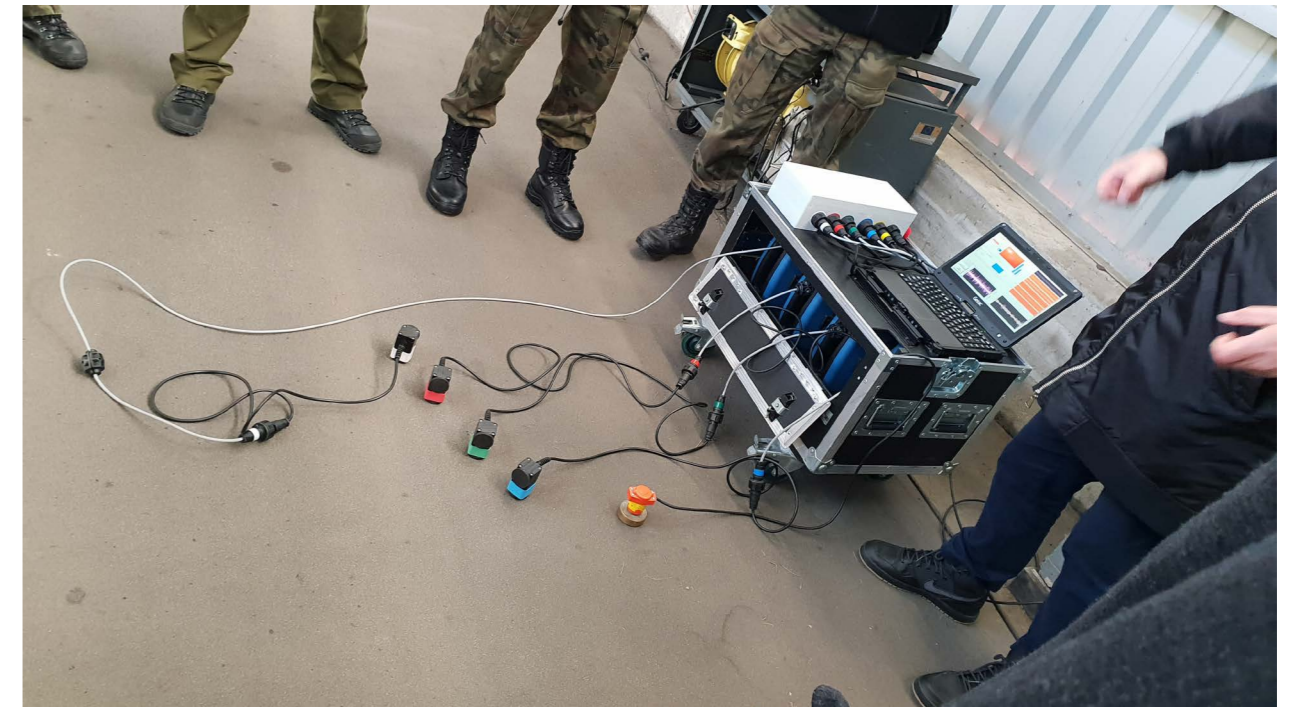
## Targi Kielce President of Board's Award

DRX Group LLC  
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NIP 95 221 400 70,  
KRS 0000580942  
e-mail: biuro@drxgroup.pl  
www.drxgroup.pl



MDS - detects hidden persons located in the interior or cargo of a vehicle. MDS detects movement, created by a hidden person, resulting from a person's contact with the interior of a vehicle, or with the load, by using detectors placed by strong magnets. The information from the sensors is transferred through cables to a computer, where it is analyzed and evaluated. The measurement takes approx.

30 seconds, when the total time of control is less than 2 minutes, including placing the sensors and removing them. Vehicles are often sealed or loaded in a way that makes a standard visual inspection of the cargo ineffective.





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