



Associations

- **MVSZ**
(Defence Industry, 1993)
- **IVSZ**
(Information, Comm. and Techn., 2003)
- **HAIF**
(Aerospace Industry, 2003)



HM
(MoD)
NGM
(MoNatEco)



VBEF
Defence and
Security
Cooperation
Forum

(since 2007)

Industrial clusters

- Hungarian Aerospace cluster (2006)
- Defence Economy cluster (2012)
- Vehicle Industry clusters
- ITC clusters
- etc.



Founded: 1993

Reason of foundation:

- To visualize and represent the interests of the Hungarian Defence Industry.

The operation range of the Association's members:

- Defence Industrial research, development and manufacture.
- Defence Industry services.
- Defence Industry trading.

The DIAH is a not for profit organisation for:

- Coordinate with the Government and other DI related state bodies.
- Improve and protection of the member's business interests.
- Consulting.
- Support of marketing and PR activities (domestic and international).
- Coordination and support of R&D, CD&E and testing.
- Representation in domestic and international organizations (EDA, NATO NIAG,...).



- **There are about 480 -500 corporations registered for defence industry activities, (2013:493, 194 only for trading);**
- **300-400 companies could take part in defence, high-tech or dual use industry;**
- **Approximately 120 companies take part in defence industry in reality;**
- **Continuous direct involvement: 10 - 20 companies;**
- **Occasional defence industry participation: max. 20 companies
(Expected (virtual) defence industry participation: additional 10-15 companies)**
- **1777 employee direct involvement.**



Ownership

- Basically private ownership
- Except: MoD and Mol companies and the partly state owned RÁBA

Profile

- There is no „big” main product (aircraft, tank, ship or missile).
- (The reasons lead back to the peace agreements of the world wars, initiatives are being started nowadays)

Size

- Small and medium-sized enterprises, except RÁBA
- (SME's 5-120 employees, RÁBA 1497 employees)

Key local customers

- MoD, Mol (Incl. Police, Disaster management- Fire brigades), Government



- Small arms, ammunition, pyrotechnical devices
- Combat, heavy and armoured vehicles production, maintenance, repair and upgrade
- Military and special vehicles production, maintenance, repair and upgrade
- Artillery equipment maintenance, repair and upgrade
- Anti aircraft missile maintenance and overhaul
- Aircraft and helicopter overhaul
- CBRN reconnaissance monitoring and protecting equipment production, maintenance
- Communication and information technology development and manufacture
- Electro technical equipment production and overhaul
- Equipment of EW
- Engineering technology
- Clothing
- Military food products
- Military healthcare products
- Military traffic technology equipment
- Training and simulation
- Others.





Small arms, ammunition, pyrotechnical devices



G.I.S. Technologies
SERO Engineering
GLOBSERVER
HM ARZENAL

- Fine mechanical cutting
- Fire arm development and manufacturing
- Ballistic research military
- Production of optical parts
- Pyrotechnics
- Ammunition

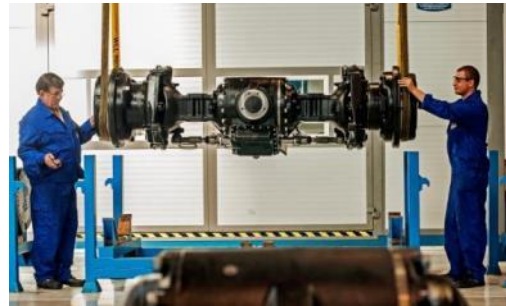




Combat and armored vehicles



GAMMA
MoD CURRUS
RÁBA Vehicles



- Light armoured vehicles development and production
- Armoured vehicles upgrades
- Part productions





Military and special vehicles



BM HEROS
GAMMA
MoD ARMCOM
MoD CURRUS
RÁBA Vehicles



- Fire fighter vehicles
- CBRN reconnaissance vehicles
- First response vehicles
- Mobile laboratories
- Customized heavy and light vehicles
- Ambulances





Magyar Védelmiipari Szövetség
Defence Industry Association of Hungary

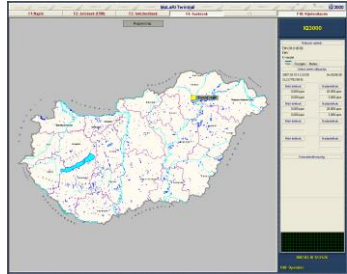
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Communications and IT



BHE Bonn Hungary
CARINEX
GAMMA
GEOVIEW
MLR Tech
POWER SHIELD
PRO PATRIA Electronics
VT Systemtechnics





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Electrotechnical equipment & Electronic Warfare



AVIATRONIC
BHE Bonn Hungary
CARINEX
MetSystem
MoD ARMCOM
MoD Arzenál
MoD EI
POWER SHIELD
PRO PATRIA Electronics

- COMINT
- SIGINT
- Lawful interception
- Jammers
- Wi-Fi analysers & catchers
- R&D, production
- Maintenance, repair and upgrade





AVIS IGNIS
BM HEROS
GAMMA
METTECH
MLR Tech
PINTÉR WORKS
POLIGON TRANSZ
PRO PATRIA Electronics
VT Systemtechnics

- Special containers
- Laboratories
- Water purification
- Generators
- Communications
- Shelters





GAMMA
VEKTOR Work Safety
VT Systemtechnics
HM EI



- Radiation measuring instruments
- Meteorological instruments
- Early warning systems
- Scintillation crystals and detectors
- Breathing protection equipment
- Decontamination equipment



GAMMA
VEKTOR Work Safety

- Fire fighter suits
- NBC suits
- Uniforms





Search and reconnaissance equipment



BHE Bonn Hungary
CARINEX
GAMMA
PRO PATRIA Electronics
HM EI

- Surveillance
- CBRN reconnaissance
- Radar systems





Unmanned devices



BHE Bonn Hungary
CARINEX
GAMMA



- Multirotor UAS
- Fixed wing UAS
- Special payloads



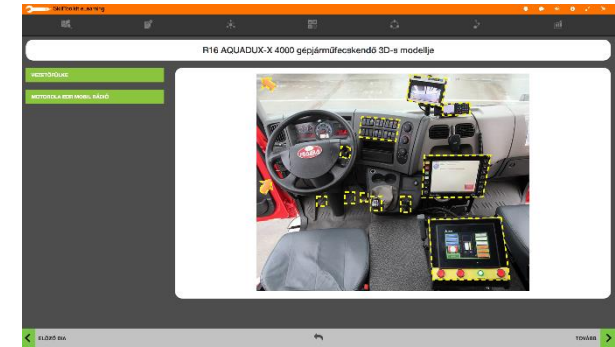


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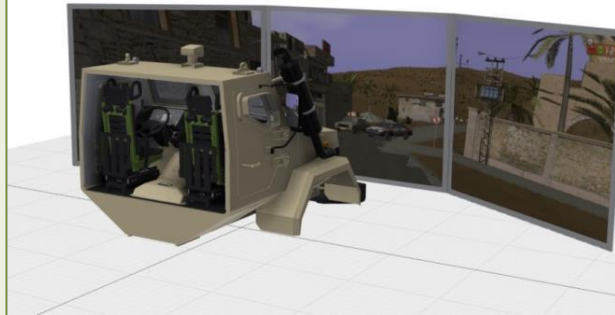
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Training and simulation



ARTIFEX Simulation
CARINEX
GAMMA
GEOVIEW
MLR Tech
POWER SHIELD
SKILLDICT

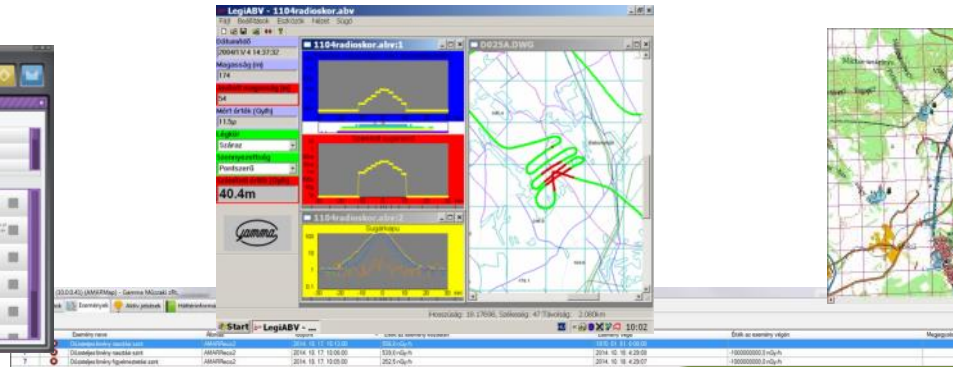


- Constructive simulation
- Virtual simulation
- Vehicle and weapon system simulators
- Cyber security and operations training
- CBRN recce simulators



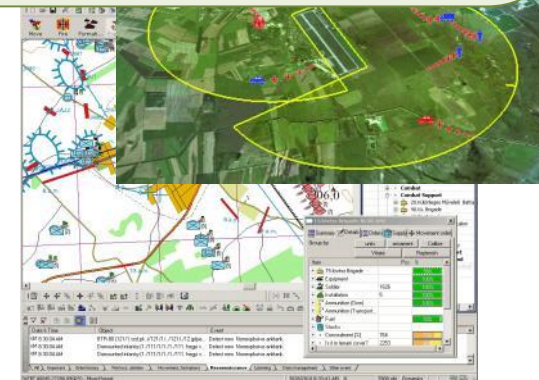
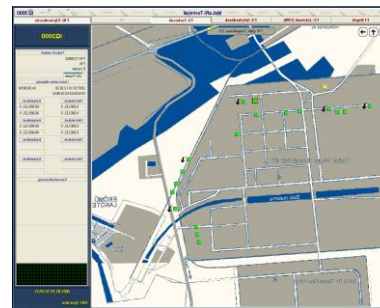
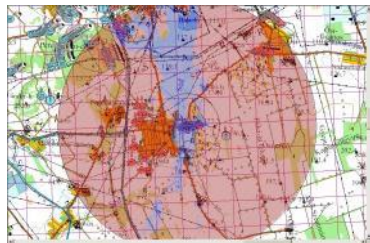
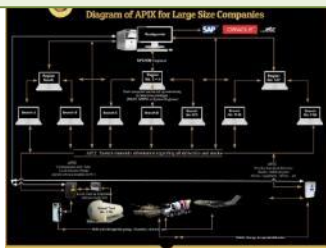
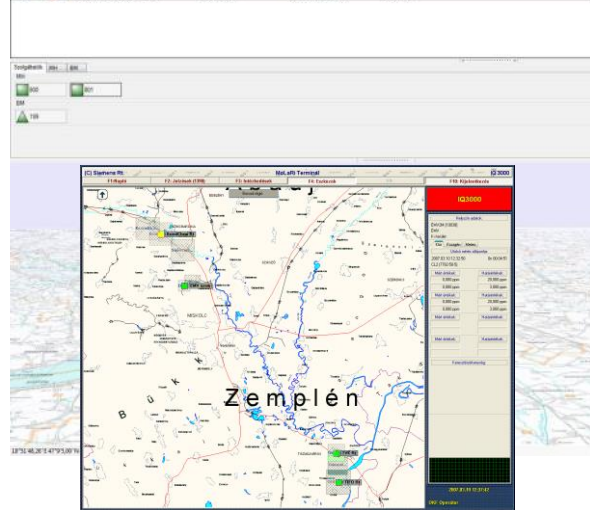


Software development



ARTIFEX
AVIS IGNIS
BHE Bonn Hungary
CARINEX
GAMMA
GEOVIEW
MLR Tech
PRO PATRIA Electronics

- Training and simulation systems
- Monitoring and alarm systems
- Cyber defence solutions
- Military decision support systems





Other capabilities:

- Special electronic equipment and systems
- Explosive and drug detectors
- Military foodstuff products
- Military healthcare products
- Military traffic technology equipment
- Maintenance, repair and upgrade anti-aircraft missiles
- Maintenance, repair and upgrade of aeroplane and helicopters
- Explosive ordnance detection
- Ordnance disposal
- Quality management
- Etc.





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Some of the Association Members



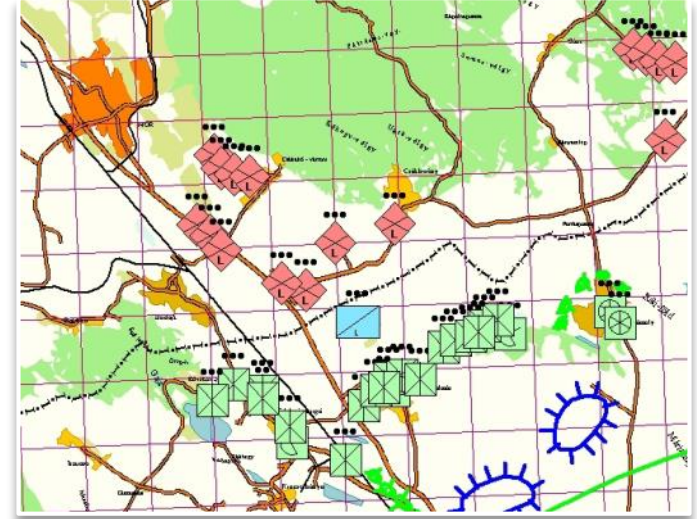
We engineer, you drive





Our services

- Simulation and training systems
- Virtual and constructive simulation
- Engineering support
- Training support
- Applied modelling, principles and simulation theories
- Applied built-in GIS and real time expert systems
- Real time visualization
- Software development based on customer requirements



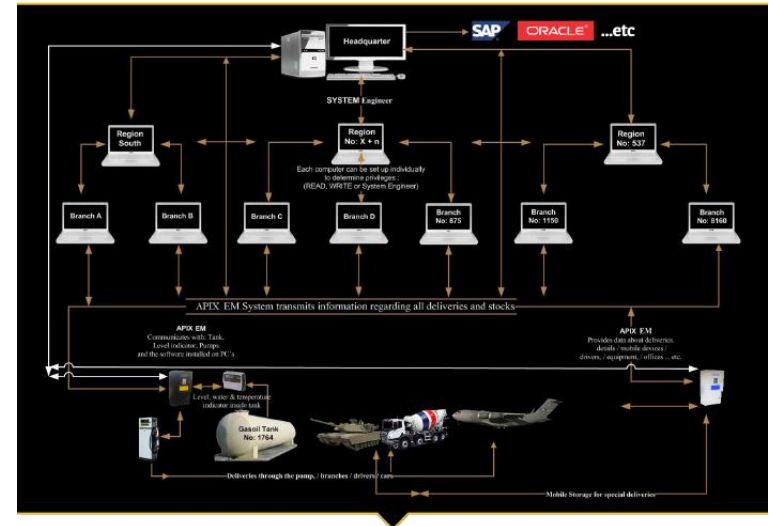


Avis Ignis Fuel Control systems:

- Real time information for real time decisions
- Accurate measurement with robust hardware
- Flexible reporting
- Unlimited Network Coverage

Do you know where your fuel dollars flow?

- Track every dollar you spend on fuel
- Covering your entire re-fueling network
- Fuel control from one location to worldwide networks





RF & Microwave design

- Altimeter
- High reliability professional
 - Oscillators
 - Synthesizers
 - Converters
 - Telemetry transceivers
- Radar equipments
- Critical Communications Solutions
- Unmanned Aerial Systems (UAS)
- Aerospace modules

Certificates:

- AS certification since 2009
- ISO Certified since 2000
- AQAP Certified since 2014
- Registered NATO supplier
 - Reg. No.: 677-3/2011





Main products and developments:

- Water Transporters
- Municipal Fire Trucks
- Technical Rescue Units
- Containers
- Special units for the National Disaster Management



Own developed assemblies, superstructure and system:

- Rapid Deployment Reel Hose
- Respiratory tool holder
- „CorAl” superstructure
- „CERBERUS” fire fighting system





Solution Providing & System Integration

- HF - SHF Radio Reconnaissance & DF;
- SatCom Monitoring Systems;
- Lawful Interception;
- Audio and Video Surveillance;
- UAVs for RECON and Surveillance;
- Equipment and Technology for TSCM;
- Information and Data Protection;
- Cyber Security Tools, Services and Training.

R+D Management

- SatCom, Radio Monitoring and DF;
- Cellular Detection and Disabling;
- Wireless Communication Interception;
- Anti-UAV Solutions.

References:

- Defence Forces, National Security Services, Border Guard & LEAs





Our services:

- Explosive ordnance detection and ordnance disposal with instruments in the soil in various ground depths depending on the client's technical needs and also taking the military history of the given area into account.
- Security investments, overall explosive ordnance and bomb disposal in areas of civil and military airports.





Our capabilities:

- CBRN Equipment;
- Radiation measuring instruments;
- Monitoring and early warning systems;
- CBRN reconnaissance vehicles;
- Armoured vehicles, first response vehicles;
- PPE (filter canisters, suits, masks);
- Decontamination equipment;
- Engineering support;
- Training support.





Research & Development

- Innovative Weapon Accessories (Grips, Picatinny rails, handguards, Optical mounts, Stocks, Bipods, Rail protectors, etc.)
- Hand held weapon systems design, development and production
- Weapon modernization



Trainings

- Full spectrum Counter Terrorism training
- EOD/IED training
- Tactical solutions to military and law enforcement organizations





MAIN FIELDS OF ACTIVITY

- Middle stage-, as-required repair and technical inspection of electronic and mechanical units of different missiles and missile systems, fire control systems, radars and other additional equipment. Development and implementation of technology required for lifecycle extension of missiles and missile systems.
- Development, design and implementation of mechanical-, electronic-, hardware- and software units of military equipment.
- Disposal and demilitarization of military equipment withdrawn from service
- Designing, manufacturing, installation, maintenance and servicing of sophisticated security and alarm systems
- Technical inspection, repair and calibration of non-obligatory calibrated measuring devices, high pressure air storage tanks and lifting equipment.





Main Activities:

- Maintenance support to Hungarian Defence Force (HDF), Industrial level maintenance (overhaul/refurbishment),
- Support to operations, exercises,
- Research, design and development,
- Participation in implementation of new equipment,
- Training HDF maintenance troops,
- Equipment demilitarization,
- Industrial level manufacturing capabilities (plasma cutting, turning, milling, grinding, pressing, cold working, surface finishing, etc.) also offered to civilian companies, Military trade,
- Defence equipment , materiel, parts, weapons
- SWP-20 waterworks design and construction,
- AsR 10/40M (As-, As/B) containerized watertreatment, waterstorage and waterdispenser equipment design and construction,
- Modular internal superstructure bus development serial production.





Service

- Installation, maintenance and repair of meteorological sensors and systems, artillery weather data supply

Sensors and Systems

- Tactical meteorological observation systems
- Heliport aviation weather systems with ATIS
- Aviation weather systems
- Thunderstorm and lightning detection systems
- Road weather systems
- Automatic weather stations
- Industrial measurements

R+D Management

- Data loggers (PAIR ATIS)
- Data forwarding and processing solutions (PAIR ATIS)





Services:

- Information technology
- Telemetrics
- Remote supervision, monitoring
- Remote control
- Information and alarm systems

Our solutions can be used with high reliability in the following industries:

- Disaster Management
- Industrial Safety
- Environment protection and control
- Water management, quality
- Meteorology





Applied Microwave Technology

- Radar Development & Manufacturing
- Multibeam Radar Solutions
- Electronic Scanning Antenna OEM
- Microwave Antenna Design & OEM

System Integration

- Radar & Electro-Optic Systems
- Vehicle-mounted Surveillance Systems
- Tower-mounted Border Surveillance Systems
- Operator Trainings





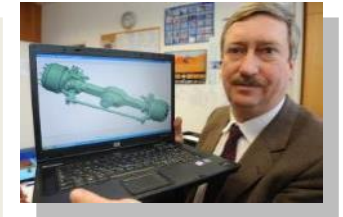
Axle components and parts



Bus- and off-road axles

Product and Technology development

Heavy duty tractor, specialty vehicle,
Bus and trolleybus axles, forged /machined components



Machining

Machining on 100.000 sqm, including surface-, heat treatment, assembly and packaging



Forging

Forging plant with 40,000 t annual capacity and related tool shop





For the defence industry

- Military logistics vehicles of various load capacity classes
- Protected Rear Compartment (PRC) for secure transportation of persons in crisis zones



For the disaster management services

- Self propelled chassis for firefighting vehicles
- Co-operation with body builder company for creating special purpose vehicle body
- Engineering solutions and support
- Training support





Main activities:

- Development of special protective garments: Aiming at the best possible application, forming the right personal protective equipments requires persistent research and development. Each of our products fulfils the specifications of the European Union, we distribute only certified protective devices with CE-marking.

Production:

- manufactured own production: From 1992 on we have been operating our own sewing-workshop in Szeged ensuring our own producing capacity.
- Among the special basic fabrics of our garments there are materials protecting against chemicals, heat, fire, effects of electric arc etc.





Production

- Precision mechanical parts
- GM6 Lynx 12,7mm AMR rifle
- GM3M 14,5x114mm sniper rifle

Export, re-export

- GM6 Lynx 12,7mm AMR rifle
- GM3M 14,5x114mm sniper rifle
- Ammunition
- Optical sights
- Tank spare parts

R+D Management

- AMR, HSR, sniper and sport rifle development
- Safety-block system for hand guns





Our services:

- Industrial shelter producing
- Special shelter manufacturing
- System development





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We are open for industrial co-operations

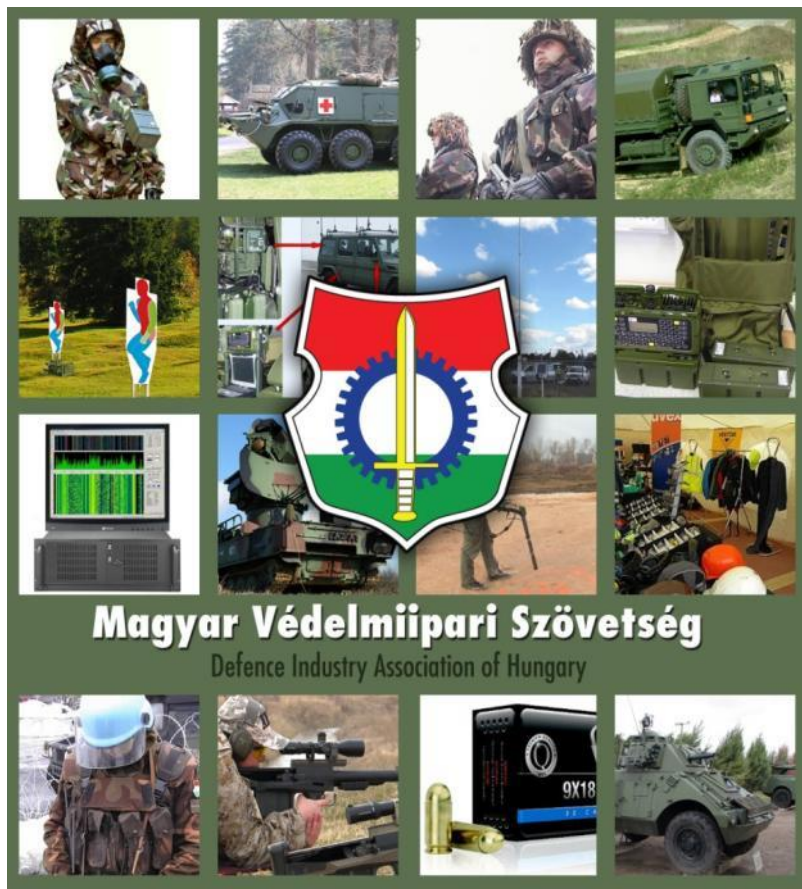
The Hungarian DI companies are flexible in meeting the challenges, have the proper products and service capacity to fulfil special demands, even for small quantities at a high, reliable quality. This is our speciality where we are strong.

The Hungarian defence and security industry is continuously seeking real collaboration opportunities not just within both NATO and the European Union, V4 countries as well as the defence industries of countries further afield.

We know very well the western regulations, standards, procedures, products as well as the Russian ones. Let's try to take the advantage of it either as a buyer or partner.

Let me wish many successful deals and cooperation with our defence industry in the near future!

Hungarian Defence Industry



**Thank You
for
Your attention!**



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