





## 1. Company Profile

Marinex GmbH, a shipping, trading, engineering and logistics company, has been established in Kiel, Germany by Halil Cemil Telli in 1982. Aykor A.S., sister company of Marinex has started her operations in Istanbul, Turkey the following year.

Marinex - Aykor Group has been globally participating to private, public and military tenders on procurements for systems, system integration, spare parts and supplies for 29 years.

Activities, spread over to five continents, have been successfully executed with the dedicated support of its liason office in the United States, along with the representative companies located in South Korea, Bangladesh, Greece and Australia.

Aykor offers engineering services and handles project management activities at its own head office building in Istanbul with a total space of 700 m<sup>2</sup>.

Marinex, with its 1000 m<sup>2</sup> office and warehouse space also owned by the group, performs contract management activities; like financing, delivery handling and quality control.



Halil Cemil Telli




Kiel, Germany



Istanbul, Turkey

## 2. Engineering, Project Management and Logistics Superiorities

 Marinex and Aykor, both certified with ISO 9001/2008 certificates are performing the following activities in defense, industrial areas for governmental, military and private projects:

- Identification of the requirements
- Product research and development
- Procurement of material and systems
- System installation and operations with high efficiency

### 1. Logistics Superiority

The Group has a long and proven record of design, manufacturing, installation, technical training, logistics data collection and fast-efficient support.

Marinex - Aykor Group is proud of managing over 2500 contracts with a high level of customer satisfaction owed to its experience of almost 30 years.



Engineering Unit

### 2. Engineering Superiority

The strength of the Group comes from its team composed of engineers and managers, who have multidisciplinary backgrounds. Besides their multicultural and highly flexible work experience the team members have a deep knowledge on the laws and regulations accumulated during the operations in Germany and Turkey. The Group also has a strong IT support with cutting-edge hardware-software used by skilled employees to handle global operations.



### 3. Project Management Superiority

Project management abilities of Marinex and Aykor are creating high quality solutions in optimum time within designated budget by effective use of the resources. Preparation, planning, execution, follow-up, financial evaluation and finalization of procedures are managed effectively.

Marinex - Aykor Group, is certified with AQAP 110 and ISO 9001:2008, which necessitate continuous improvement and development to meet the multi-disciplinary requirements of the international projects such as:

NAMSA (T1015 and D7034)

BWB-Germany (3062K)

ARMSCOR-South Africa (2166)

DAPA-South Korea (GY163)





Lifts for Locomotives



MELTEM II



MASS



SRBOC Bullfighter



Search and Rescue



Meltem II SAR raft air drop

### 3. Main Business Activities

- Contracting defense agreements for systems and spares
- Contracting industrial agreements for systems and spares
- Warranty management and service back-up
- Creating local content by establishing joint ventures
- Creating off-set opportunities
- ILS (Integrated Logistics Support) management.



ADS HardSuit™

### 4. Expertise Areas

- Supply of all kinds of materials through Groups' international experience along with the supplier network of more than 1500 manufacturers from 26 different countries supported by the international liaison offices and representatives,
- Guidance of the entire project, starting from the initial planning, production, installation, until the handling of the warranty period,
- Consultancy for bidding to local and international tenders, technical and administrative examinations, evaluation and execution of contracts by the help of the expertise acquired in over 2500 finalized contracts throughout 29 years,
- Creating local content based on extensive supplier search, evaluation and classification processes for military, governmental and private tenders/projects.



Aramid fabric coating



TSSS







## 5. Defense

Marinex-Aykor Group is providing systems and spare parts for the Armed Forces of various countries through procurement or direct purchasing agreements for naval, airborne and land units. Warranty management and service backup are among the distinguishing abilities of the Group during these processes.

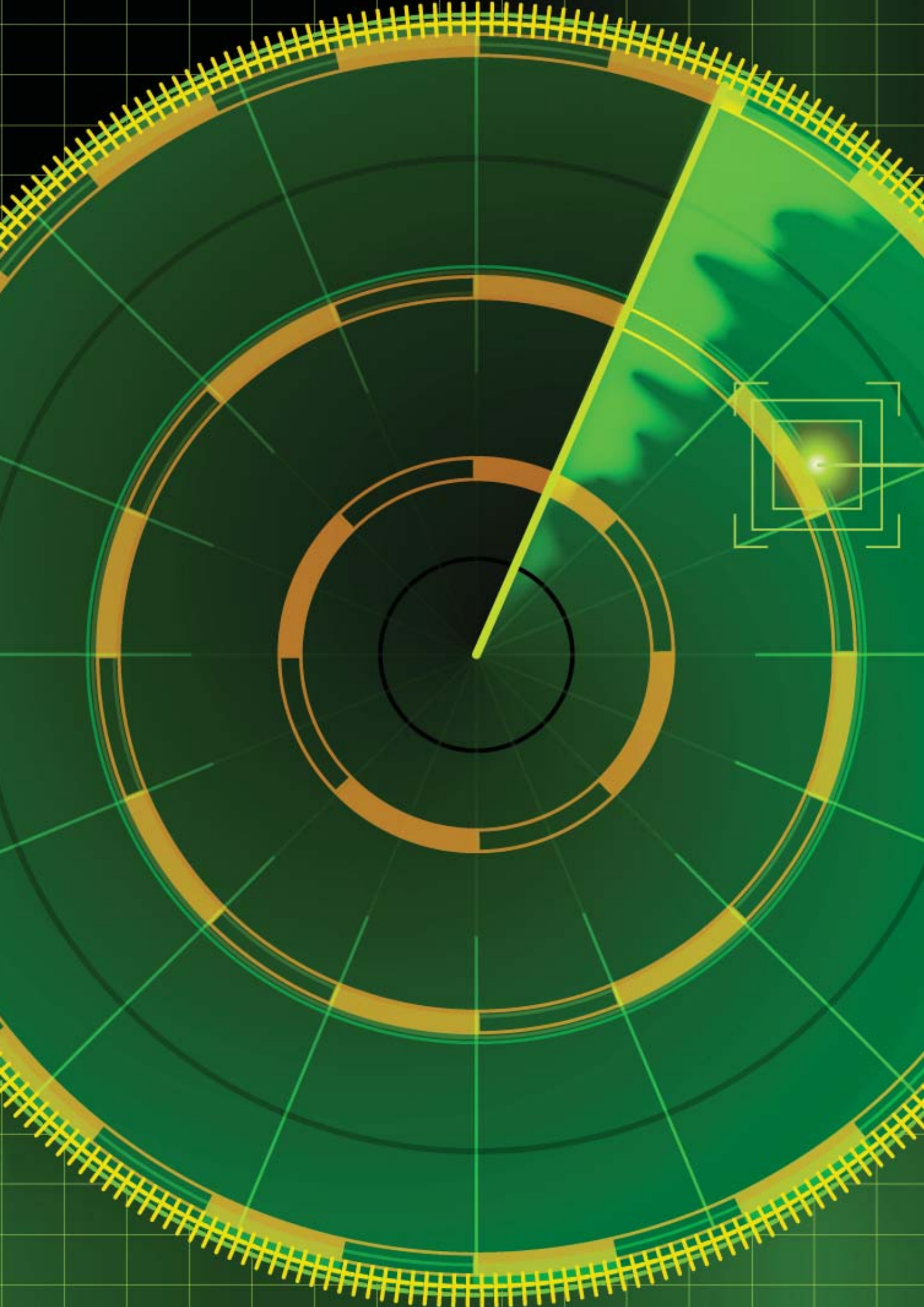
Grouped according to the customers and the projects, services offered to the defense sector are as follows:

### 1. For Various Military And Commercial Surface & Underwater Vehicles

- Spare parts for surface/underwater vehicles
- Navigation equipments and spares
- Radar and sonar systems and spares
- Torpedo firing system spares
- UDT / EOD equipment spares
- Systems and spare parts for naval aviation
- Diving systems and equipments
- Search and rescue equipment
- Underwater repair/intervention systems
- Batteries and battery material

### Our Customers

- Turkish Navy
- Turkish Coast Guard
- Turkish Ministry of National Defense
- NAMSA (NATO Maintenance and Supply Agency)
- DAPA, Defense Acquisition Program Administration of Republic of Korea
- ARMSCOR, South African Ministry of National Defense
- German Ministry of National Defense (BWB)
- German Navy
- Shipyards
- IDO (Istanbul Ferries)



## Selected Projects

### Towed Side Scan Sonar System for Turkish Navy

Requirement of Turkish Navy for interpretation of collected, recorded, stored and processed data from the sea bed through acoustic profiling detection has been met with one “L-3 Klein 3000 Towed Side Scan Sonar System” as per contract signed with Turkish Ministry of Defence.

Within Side Scan Sonar Project, all tests including factory acceptance (FAT), Harbour and sea acceptance tests (HAT and SAT), ILS requirements, certification; all necessary technical data required for documentation/coding/cataloguing, trainings for: ship level operation, maintenance, parts replacement and shipyard level calibration, diagnostics, trouble shooting were completed successfully.

### Passive Protection systems with RWM Group

Being the representative of Rheinmetall Waffe Munition (RWM) in Turkey, group is working on implementation of the new generation passive protection systems to meet the needs of the Turkish Navy.

### ADS and ELSS systems for Turkish Navy

As per the contracts signed between Turkish Ministry of Defence and Oceanworks International Corp, represented by Aykor, one set of Atmospheric Diving System (ADS) and one set of Emergency Life Support System (ELSS) have been successfully delivered. Provided ADS system has a depth rating for 365 meters and can perform search and rescue or maintenance operations at an internal pressure of one atmosphere up to this depth. Fully integrated ELSS system is designed to support sustainability of life in disabled submarine. Systems were designed, manufactured and successfully delivered, meeting the technical requirements and 24/7 warranty support were given during the warranty period of the mentioned systems.

Within this scope, four-year major maintenance/overhaul and Lloyd's recertification of the ADS system has been contracted.



## Moship & Ratship Project

Project is construction of one Submarine Rescue Mother Ship (MOSHIP) and two Rescue and Towing Ships (RATSHIP) for the needs of Turkish Navy locally.



OceanWorks SRDRS

Aykor is participating as system integration subcontractor for 15 different subsea systems and equipments with Oceanworks as a partner.

### These systems are:

- |                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| 1. Launch and recovery system (LARS)    | 9. ROV                                    |
| 2. MOSHIP Pressure chambers             | 10. Wet bells                             |
| 3. RATSHIP Pressure chambers            | 11. Pressurized Breathing air system      |
| 4. Dive Systems                         | 12. Templates for SRDRS                   |
| 5. Submarine Ventilation system         | 13. Templates for NSRS                    |
| 6. Personnel Transfer capsule (PTC)     | 14. Underwater welding and cutting system |
| 7. Transfer Under Pressure System (TUP) | 15. HeO2 mixed gas system                 |
| 8. Towed Side Scan Sonar System         |                                           |

## 2. For Military- Commercial Aircrafts & Helicopters

- Systems and spares for different types of military and commercial aircrafts and helicopters
- Parachutes, rescue systems and related equipment
- Engines and engine spares
- Ground support systems and spares
- Electronic systems and spares
- Passive protection systems
- Batteries and battery spares

## Our Customers

- Turkish Air Force
- Turkish Coast Guard
- Turkish Navy
- Turkish Army
- DAPA
- ARMSCOR
- THALES Airborne Systems
- ALENIA Aeronautica

## Selected Projects

### THALES MELTEM II Programme

The programme involves upgrading and modification of 9 CASA CN 235 aircrafts for Turkish Naval Forces and Turkish Coast Guard, for Maritime Patrol Aircraft (MPA) and Maritime Surveillance Aircraft (MSA) assignments. The main contractor is THALES AIRBORNE Systems and Marinex- Aykor has been selected as a subcontractor for eight primary subsystems following a stringent technical assessment, preparation and design period of over 12 months. Some of the customer-specific needs that were met for the systems such as Windshield Washing-, Emergency Oxygen-, Fuel Dump-, Fire Protection-, Stretcher Systems, etc. during the course of the project are listed below:

- Special design component combinations and new parts / systems design and production, which comply with the technical, logistics, quality and certification requirements, through cooperation with the end-user and aircraft designers
- Design and improvement of Windshield Washing System, preparation of FAT Procedures and execution in manufacturer's facilities, execution of all pre-delivery tests, auditing and assessment of the qualification documents, prepared in accordance with the technical specifications provided by the customer
- Complete theoretical and practical training procedures on custom-built emergency equipment for periodic maintenance and test/repair
- Integrated Logistic Support requirements, certification, test reports, technical data and maintenance manuals, NATO codification requirements
- Periodic inspection and maintenance services during warranty period; replacements of parts with limited shelf life and consumables



MELTEM II - Windshield Washing System Test Works



MELTEM II - SAR

### ALENIA MELTEM III Programme

This programme involves upgrading and modification of 10 ATR-72 aircraft for Turkish Navy's requirements for MPAs equipped with Anti-Submarine Warfare (ASW) and Maritime Surveillance / Reconnaissance abilities.



Alenia - ATR 72

Followed by a one-year-long technical preparation, Marinex-Aykor was selected as the subcontractor for the systems like Emergency Equipments and Rescue systems, owed to the success in MELTEM II project, although the main contractor of this project was a different one; ALENIA AERONAUTICA.

As in MELTEM II, the Group is responsible for design, manufacturing, testing and on-time delivery of the custom design equipment ensuring technical, logistic and quality control requirements and for providing maintenance services, which include extended warranty and consumables with exceptional shelf life issues, rendering the project very special and challenging.

### New Generation Flare/Chaff Systems



CIRRUS 118 Next Generation Array Flare

Promotion works are ongoing for new generation bi-spectral flare/chaff systems, which are setting the new standards for NATO countries and to be presented to Turkish Armed Forces.



### 3. For Military Land Forces

- Engine and general spares for armed vehicles
- Military equipment and spares
- Fire-fighting equipment and spares
- Batteries and battery material
- Para-aramid fabric for bulletproof helmets
- Passive protection systems for armored vehicles



MELTEM II



MELTEM II MSA

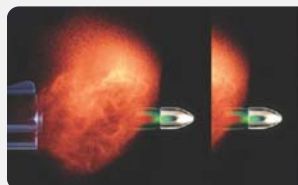
### Our Customers

- Turkish Army
- South Korean Army
- South African Army
- German Army
- Austrian Army

### Selected Projects

#### Turkish Army aramid fabric for bulletproof helmet project

The project is the supply of 324.000 m ARAMID fabric with resin for the manufacturing bulletproof helmets by the Turkish Army. Marinex-Aykor is the main contractor to supply "Heracron ®" by Kolon I' Networks Corp. Within the frame of this Project, all shipments in refer containers, physical, ballistic and laboratory tests have been handled by the Group.



Kolon HERACRON®







## ROSY- L (Rapid Obscurant System) / MASKE for armored vehicles

Marinex - Aykor Group, is working on the implementation of the following systems through localization to meet the future needs of the Turkish Army for passive protection systems, with MASKE and ROSY systems of RWM.



Rosy - L

## 4. For Military Supplies Equipment and Gear

Supply of the goods for general systems and spare part procurements of various Armed Forces.



Jet Boots

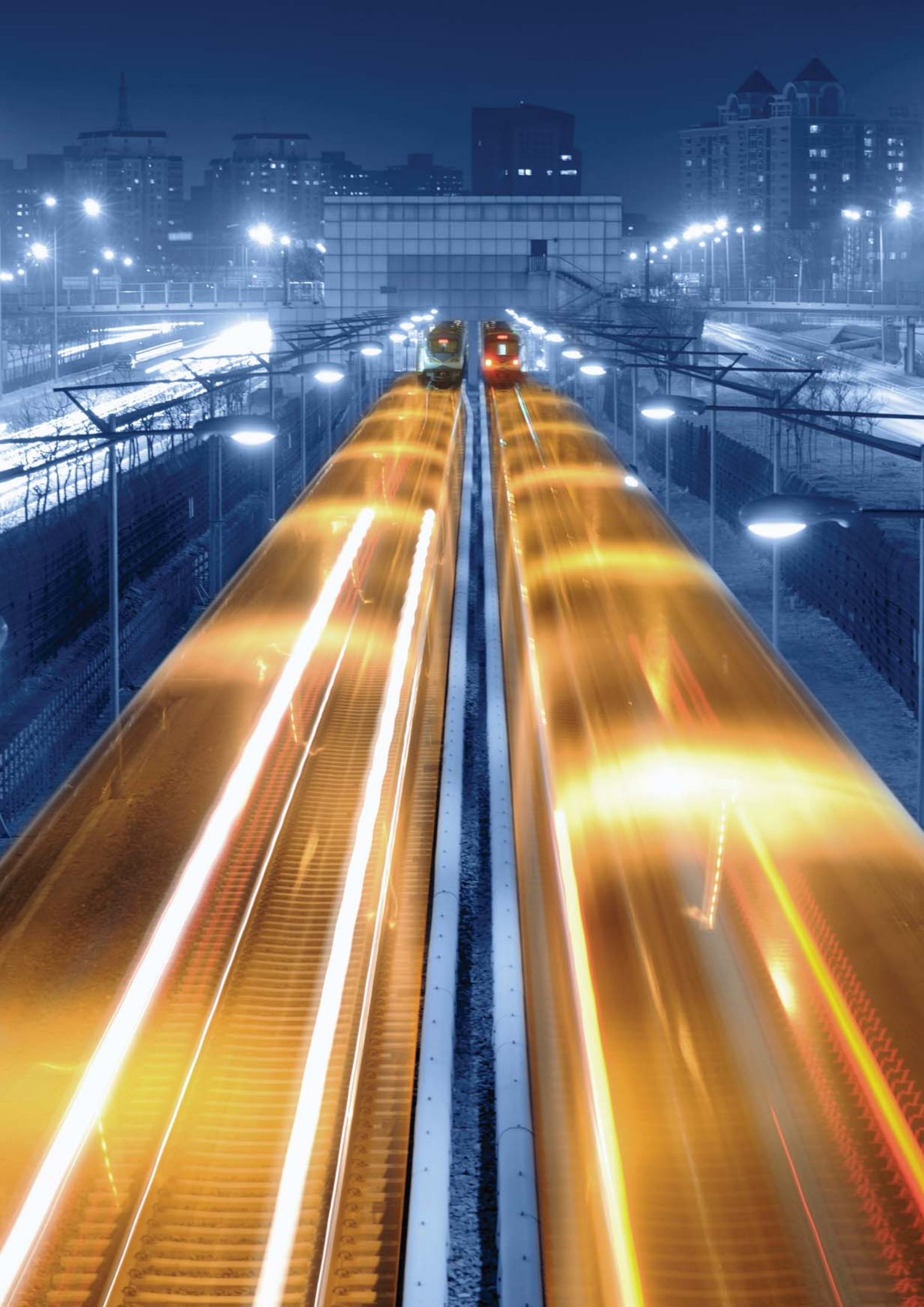


PAP Cable

## Our Customers

- Turkish Armed Forces
- South Korean Armed Forces
- South African Armed Forces
- German Armed Forces





## 6. Industrial

Marinex-Aykor Group is providing systems and spares for industrial applications of various countries through procurement or direct purchasing agreements for railway, power plants, gas and oil industries, scientific research and monitoring systems. Warranty management and service back-up is again one of the distinguishing abilities of the Group in handling these processes.

Some of the projects in the industrial field are as follows:

### 1. For Railways And Railway Vehicles

- Axles, wheels and wheel sets for locomotives / wagons
- Buffers for locomotives / wagons
- General locomotive / wagon spares
- Complete engine, turbo chargers and related spares
- Traction motors, cooling systems and related spares
- Couplings, draw gears and related spares
- Lifting and handling systems for locomotives / wagons
- Batteries and battery material
- Equipment and machines for locomotive / wagon maintenance shops
- Paint booths and equipment



Axles for wagons

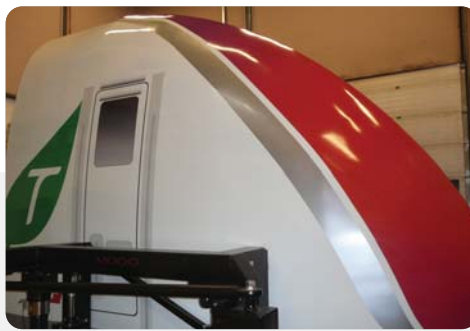


NiCad Batteries





Lifts for Locomotives



Train Simulator

## Our Customers

- TCDD
- Tulomsas
- Tuvasas
- IETT
- Hellenic Railways
- Attico Metro
- Deutsche Bahn
- Myanmar Railways
- Malesian Railways
- Bangladesh Railways
- Finland Urban Transportation



HST Simulator

## Selected Projects

### Simulator modernization for TCDD

Pre-works for modernization of two in-service simulators together with our solution partner CORYS from France is ongoing.

### Console Type simulators for TCDD

Pre-works for console type simulators together with our solution partner CORYS from France is ongoing.

### Lifting Jacks for locomotives for TCDD

1 set of 4 x 50 tons lifting jacks and stands for locomotives to be delivered to TCDD in 2011.

### Lifting Jacks for DMU Sets for TCDD

3 sets of 8 x 15 tons lifting jacks for DMU Sets to be delivered to TCDD in 2011.



## 2. For Scientific Research and Monitoring

Marinex-Aykor group is providing systems for underwater research and monitoring systems together with her partner Oceanworks International Corp, a leading company for the above mentioned systems in the world. These systems have a wide range of application from observing tectonic activities to oil and gas researches.

These systems involve;

- Complete nodes with recoverable pods
- Scientific Instrument Interface Modules (SIIM)
- Science Instrument platforms
- High power DC power supplies

### Our Customer

Istanbul Technical University (ITU)

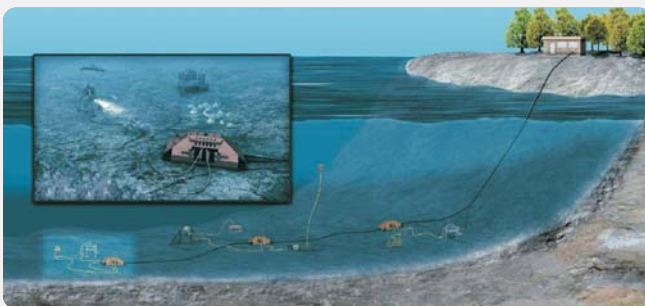


OceanWorks Nodes

## Selected Projects

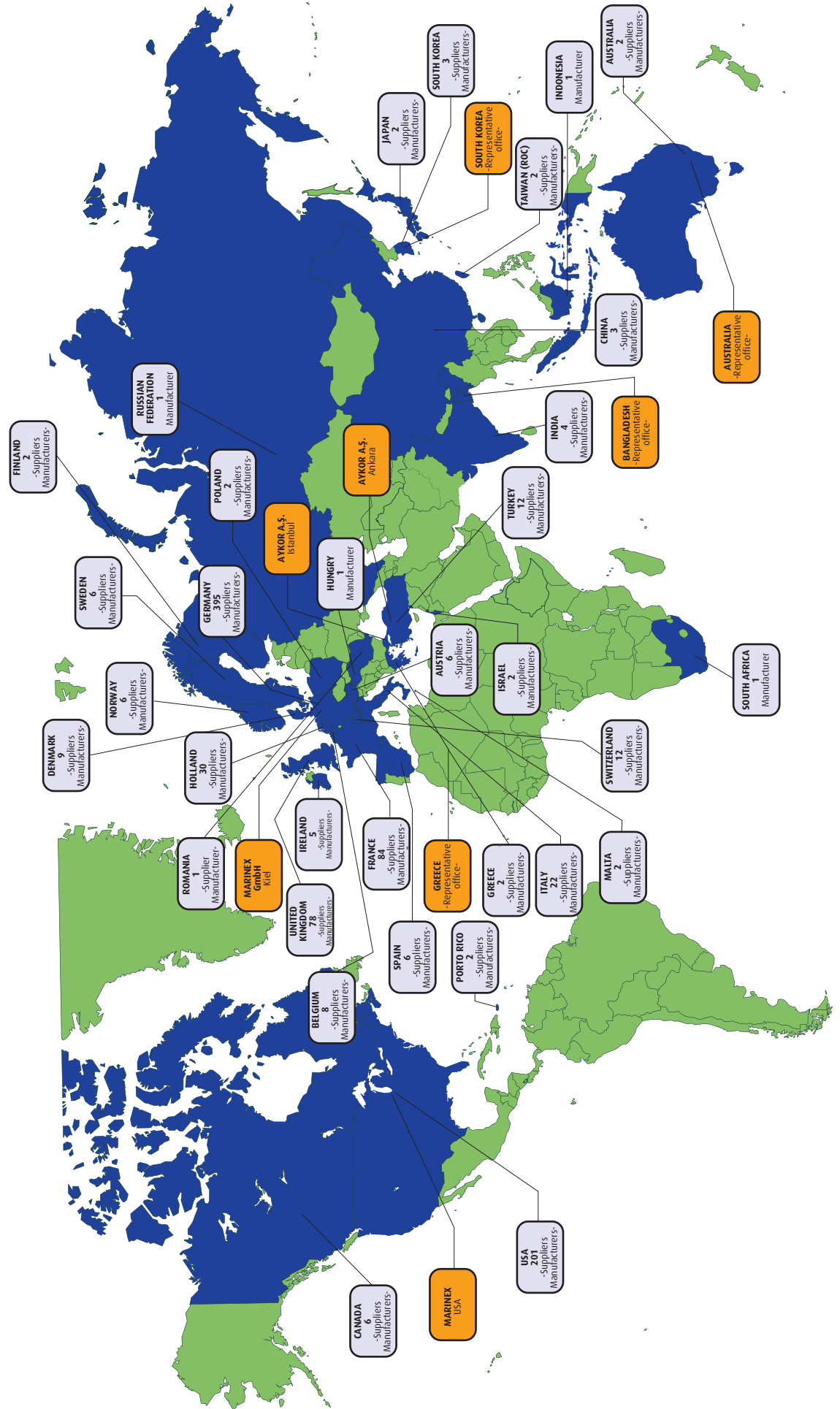
### ITU MARDEP Project

This project is for monitoring Marmara Sea Bed for earthquake activities through underwater cable observatory systems along the fault line. Marinex - Aykor is involved in the project together with Oceanworks International Corp., who designed and successfully manufactured Neptune and Venus systems of Canada as well as TWERC system of South Cyprus.



Cabled Ocean Observatories

## Marinex - Aykor World Operations



## Some of Our Customers



Austrian Air Force



ADSB Shipyard



ArmsCor South Africa



Attiko Metro Greece



Republic of Turkey Gendarmerie



Alenia Aeronautica



Republic of Korea Air Force



HEER German Armed Forces



Namsa



OSE Greek Railways



Republic of Turkey Air Force



Republic of Korea Army



Republic of Korea Marine Corps



Republic of South Korea Navy



South Korea Ministry of National Defense



Republic of Turkey Coast Guard



Bundeswehr



Republic of Turkey Army



Republic of Turkey Coastal Safety and Salvage



İETT



İDO



Republic of Turkey General Directorate for Coal



Republic of Turkey General Directorate of Highways



Republic of Turkey Maritime Organization



Republic of Turkey Mechanical and Chemical Industry Corporation



Republic of Turkey NavySeal



Republic of Turkey Police



Thales Avionics



Royal Danish Air Force Command 02



Royal Danish Air Force Flyvevåbnet



Republic of Turkey NavySeal



Thales



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