

**Short presentation of an expertise profile for the
5th call Space in FP7**

MiISOFT Yazılım Teknolojileri A.Ş.
SME
TURKEY
&
MiISOFT ICT
SME
TURKEY



**COSMOS Matchmaking Event
18th March 2011, Sofia, Bulgaria**

Draft Call Topics that we are interested in

Space-based applications at the service of European Society (GMES)

- ***Pre-operational validation of GMES services and products***
 - Testing and validating the intelligence-driven and high time-critical scenarios of the CONOPS
 - Tracking vessels on the high seas
 - Punctual monitoring of selected neighbouring third-country ports and coasts
 - GMES Security – Support to EU External Actions
 - Support to emergency response management
 - Preparing take-up of GMES Sentinel data

Cross-cutting activities

- ***SME specific research***
 - Bringing terrestrial SME research into the space domain

Presentation of MilSOFT



- **Establishment**
1998
- **Capital Structure**
100% Turkish Private Company
- **Facilities**
Main Facility : METU Technopolis (ANKARA)
R&D Office : TUBITAK TEKSEB (KOCAELI)
- **Field of Activity**
System Integration & Software Development
- **WEB Address**
www.milsoft.com.tr
- **Quality Certifications**
CMMI Level-5
AQAP-160
ISO 9001:2008



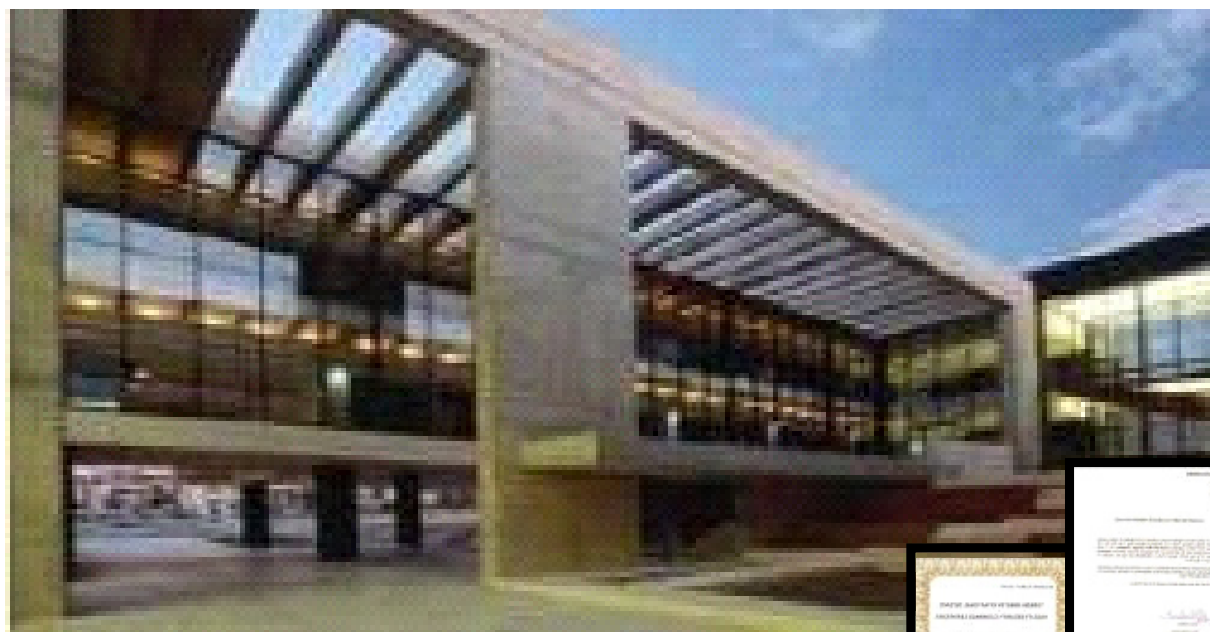
Technical Expertise and Capabilities

- **C4I**
 - Weapon, Sensor Integration
 - Command Control
 - Mission Systems and Planning
 - Interoperability
- **Data Links and Messaging**
 - Tactical Data Links
 - Link 1, Link 11, Link 16, Link 22, JRE
 - VMF
 - AIS
 - Adatp-3, OTH-GOLD
- **Image Exploitation Systems**
 - SAR/GMTI
 - EO/IR
- **Electronic Warfare (EW)**
 - EW Operational Support Center
 - EW Pre Mission & Post Mission Support Software
 - EW Database Management Systems
 - EW System Test and Evaluation
 - Threat and Jamming Tech. Analysis
- **Modeling and Simulation**
- **Embedded Systems**
 - Mission / Maintenance Data Computer Software
 - Flight Test Instrumentation System
 - SW Development & Verification per DO-178B for FAA Certification

Presentation of MilSOFT ICT



- **Establishment**
2007
- **Capital Structure**
100% Turkish Private Company
- **Facilities**
Main Facility : METU Technopolis (ANKARA)
- **Field of Activity**
System Integration & Software Development
- **WEB Address**
www.ict.milsoft.com.tr
- **Quality Certifications**
CMMI Level-3
AQAP-160
ISO 9001:2000



Technical Expertise and Capabilities

- **Network Enabled Enterprise**



- **Homeland Security**



- **Emergency Management**



- **Maintenance Management**



- **e-Government**



MiLSOFT and MiLSOFT ICT References

Sikorsky Aircraft, USA:

SeaHawk Helicopter Mission Computer
S-92 Helicopter Maintenance Data Computer SW

Rockwell Collins, France: Airborne Data Link Processor Software Development

Lürssen, Germany: Ship Simulator

Thales Airborne & Thales Communication, France:

Link-16 based Link 11 Data Link Processor SW
Flight Test Instrumentation Software
Tactical Command System Plug-in Component Link-11 Software
Tactical Data Link System Integration and Tests

Thales Underwater, France: Acoustic Mission Planning System

Lloyd's Register, England: Fortran Solver Migration Project

NAVSEA/BAV, USA: Evolved Sea Sparrow Missile (ESSM) Integration to Turkish Frigates

HDW, Germany: Link 11 & Link 16 Tactical Data Link Processor and Consoles to Air Independent Propulsion Submarine

Turkish Armed Forces:

JETS_ Joint Electronic Warfare Training System
JETSIM_ Joint Electronic Warfare Training Simulation
Perry Class Frigates

- ✓Command Control System Middleware Software
- ✓Link 11 & Link 16 Tactical Data Link Processor Consoles

MILGEM Corvette

- ✓Command Control System Middleware Software
- ✓Link 11 & Link 16 Tactical Data Link Processor and Link Consoles

Electronic Warfare Programming and Simulation Center
S-70B Helicopter Simulation Center Link-11 Simulator
Coast Guard Search and Rescue Ship

- ✓Scalable CMS based on DDS & OACE

UAV, Transportable Image Exploitation System, Remote Video Terminal
UAV (MALE) Ground Control Station Mission Systems

Turkish Prime Ministry:

NEMIS: National Emergency Management Information System

Istanbul Governorship, Turkey

IDMS: Istanbul Disaster Management System

Competencies of MiISOFT

➤ MiISOFT Competencies:

- MiISOFT develops imagery exploitation systems for military and civilian purposes.
- Functionalities and Features of MiISOFT's Image Exploitation System are given below:
 - NATO standards compliant payload data (video, SAR imagery, GMTI and telemetry) acquisition
 - Streaming payload data distribution
 - Streaming payload data display/visualization
 - Imagery archiving
 - Playback/replay of recorded data
 - Automatic target detection
 - Photogrammetry
 - Image enhancement
 - Annotation and reporting
- In a going on R&D project for automatic target/event recognition, MiISOFT has been developing a scalable and extensible image/video processing framework for automatic target/event recognition as well as developing algorithms for recognizing the following targets/events:
 - Target
 - Military ground vehicle
 - Airplane
 - Ship
 - Road
 - Bridge
 - Urban area
 - Airport
 - Human
 - Civilian vehicle
 - Fire
 - Events
 - Unattended object
 - Lost object
 - Crowd

➤ Reference projects:

- Transportable Image Exploitation System
- Remote Video Terminal
- UAV (MALE) Ground Control Station Mission Systems
- Automatic target/event recognition Project (R&D)

Competencies of MiISOFT ICT

➤ MiISOFT ICT Competencies:

- Network-enabled Enterprise solutions: Complex, wide-area “system of systems” solutions for real-time and enterprise applications (Turkuaz)
- Emergency Management (Mil-EMIS)
- Logistic Lifecycle Support Management (Mil-TRAC)
- Network-centric GIS Platforms (PiriMap)
- Image acquisition and dissemination (Mil-IMADIS)
- Intelligence Information Management (Mil-INTEL)
- Tactical data-links (Mil-JREP)
- Coastal Surveillance C2 (Mil-CSC2IS)
- e-Government
- Homeland Security

➤ Reference projects:

- NEMIS: National Emergency Management Information System (Emergency Management General Directorate, Turkish Prime Ministry)
- IDMS: Istanbul Disaster Management System (Provincial Disaster & Emergency Directorate, Istanbul Governorship)

Intended Role in a Consortium

- Coordinator / partner
 - Work package leader
 - Testing and validating the intelligence -driven and high time-critical scenarios of the CONOPS
 - 1) Tracking vessels on the high seas;
 - 2) Punctual monitoring of selected neighbouring third -country ports and coasts;
 - 3) Monitoring external land borders and the pre -frontier area.
 - Testing and validating the intelligence -driven and high time-critical scenarios of the CONOPS
 - GMES Security – Support to EU External Actions
 - Support to emergency response management
 - Preparing take-up of GMES Sentinel data
 - Bringing terrestrial SME research into the space domain
- MilSOFT and MilSOFT ICT has good relations with potential end-users of Turkey and neighbouring countries.

Contact and further information (if any)

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- Relevant links / references
 - www.milsoft.com.tr
 - www.ict.milsoft.com.tr