

NATO PROJECTS & CAPABILITIES







STM Savunma Teknolojileri, Mühendislik ve Ticaret A.Ş.

STM was established in 1991 for the provision of project management, system engineering and consultancy services to the Defense Industry Agency (SSB) and the Turkish Armed Forces (TAF).

The SSB continues to be the majority shareholder in the company, which has a workforce of 850 people, 63 percent of whom are engineers.

STM is among the leading companies operating in the defense sector, and is engaged in projects, particularly in the fields of naval platforms, tactical mini UAV systems, cybersecurity and IT services, command and control projects, satellite technologies, military aviation, radar and electronic warfare, and procurement and consultancy services.

Aside from its involvement in many national projects being conducted by the Turkish defence sector, STM is also engaged in export and business development activities for NATO with operations in more than 30 countries.

In addition to acting as the main subcontractor in the MiLGEM Project for the development of Türkiye's first national corvette, STM is also carrying out the detailed design as the main contractor in the project for the construction of TCG İSTANBUL (F-515), Türkiye's first national frigate.

STM has undertaken important tasks in submarine modernization and construction projects for the Turkish Navy, and is also responsible for Türkiye's first submarine modernization export, taking the lead role in the Pakistan AGOSTA 90B project.

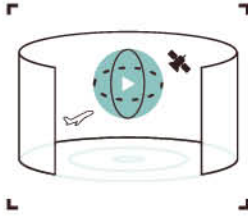
STM developed KARGU, Türkiye's first indigenous attack UAV System, and launched Türkiye's first Cyber Fusion Center in 2016.

Through the INTEL-FS2 Project, STM ensures the flow of intelligence between all NATO headquarters around the world, and is successfully engaged in one of Türkiye's largest software exports to the Organization.

STM diversifies its technology-based activities to meet the needs of the public and private sectors – in particular those related to the Turkish defense sector.

STM is headquartered in Ankara, the capital of Türkiye, and continues its operations out of nine facilities, located in İstanbul, Gölçük and Ankara, as well as Pakistan.

STM was for three consecutive years listed on the Defense News Top 100 list of the world's top 100 defense companies.

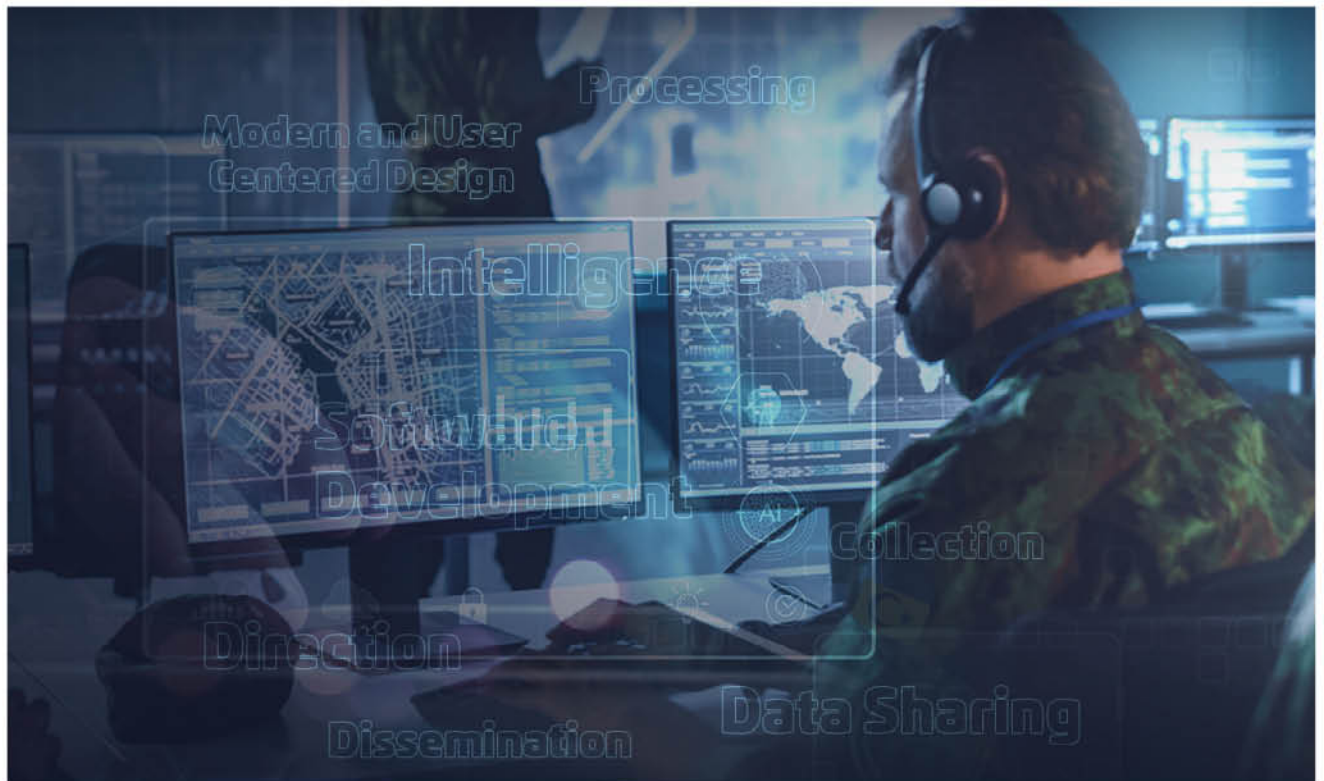


PROJECTS

NATO INTEL-FS2 PROJECT

INTELLIGENCE FUNCTIONAL SERVICES (INTEL-FS)- SPIRAL 2 AND BMD FUNCTIONS IN INTEL-FS

The Intelligence Functional Services (INTEL-FS2) will provide an information management capability that will enable the NATO Commands to execute the Intelligence Support function effectively and efficiently, and to provide comprehensive and relevant intelligence in a timely and responsive manner in accordance with NATO policy, doctrine and guidance. The purpose of the Intelligence Functional System (INTEL-FS2) is to provide the NATO Intelligence community with an integrated, robust and flexible capability supporting a set of services available throughout the Bi-Strategic Command Automated Information System (Bi-SC AIS) for the direction, collection, processing, and dissemination of intelligence.



NATO Communications and Information Agency
Agence OTAN d'information et de communication

INTEL-FS Functionality is planned to be performed in spirals. In the scope of this present Spiral 2, delivery of the functionality of INTEL-FS2 will be performed by two separate contracts:

- As a set of backend services (I2BE),
- As web-browser based collection of user applications (I2UA).

Within the scope of I2BE Contract, new NATO-owned INTEL-FS backend services will be delivered for deployment to the NATO Command Structure.

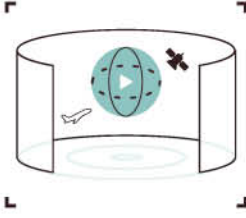
The I2BE will replace the current web application backend part of INTEL-FS Spiral 1. Within the scope of I2UA Contract, a set of user applications will be delivered to NATO for directing intelligence collection, and for analyzing and visualizing intelligence data in support of the NATO Intelligence community and the Ballistic Missile Defence (BMD) community. The I2UA will replace the current user interface part of INTEL-FS Spiral 1.

Project Kick-Off meeting held on September 12, 2022. Project duration is approximately 3.5 years. After final system acceptance, 1 year warranty period will begin.

There are 9 Increments in the project. Each increment will be approximately 4 months. At the end of the each increment, planned applications and services will be delivered to NCIA.

All project development and delivery will be on Azure NSF (NATO Software Factory). System will run on NATO SOA&IdM platform. Project will be developed in accordance with Agile Software Development Methodology, BDD (Behavioral Driven Development) and DSDM (Dynamic Systems Development Method).



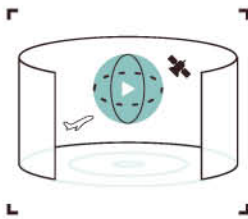


NATO SHAPE RESILIENCE EXPERIMENT DECISION SUPPORT SYSTEM PROJECT

STM ThinkTech has developed 4 Resilience Decision Support Models since 2019 and successfully delivered to NATO Allied Command Transformation (ACT). These models supporting NATO's decision-making processes in the face of strategic shocks such as pandemics, large-scale power outages, cyberattacks, and big human movements and events (attack, natural disaster, large-scale failure, etc.) that may destruct infrastructures have been developed by "System Thinking" approach and "System Dynamics" methodology. In these models, the resilience levels of energy, transportation, health, food, water and communication are evaluated upon strategic shocks or event occurrences and the possible secondary effects on the military units are analysed.

On the other hand, The Aggregated Resilience Model that has been used in NATO wargame, experimentation, and exercises provides strategic level decision support to NATO. Moreover; the approach and the methodology used in the development process have been verified by scientific articles published in prestigious journals. STM ThinkTech has been continuing to provide state of the art strategic level decision support systems for resilience domain to NATO stakeholders.





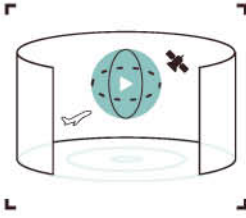
NATO INTEGRATION CORE (INT-CORE)

NATO Integration Core Solution is a flexible, adaptable and robust information systems integration core that provides interoperability between existing and future heterogeneous information systems. It significantly supports situational awareness throughout the battlefield within the mission network.

INT-CORE, which provides the right information to the decision makers at the right time, supports command and control business processes to support the distribution of information related to command and control, joint picture, battlefield, mission, etc.

It provides a dynamic integrated operability environment in a variable battlefield environment, allowing the configuration for new and different types of data in the system without changing the integration core infrastructure, which is a simple, flexible, adaptable and robust interlayer, and the need for a new coding, compilation, testing in the system.

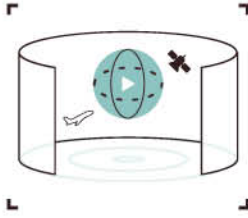




NATO AMN INT-CORE OPERATIONAL AND MAINTENANCE SUPPORT

As part of the NATO INT-CORE Operational & Maintenance Support Project, our company provides five years of maintenance and technical support for the Integration Core (INT) software, which is in the operational use of the NATO International Security Assistance Force (ISAF) at NATO's Afghanistan Mission Network Operations Centre.





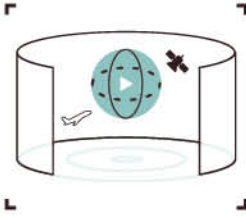
NATO AIR COMMAND CONTROL INFORMATION SERVICES (AIRC2IS)

The AirC2IS is NATO's strategic level Air Command and Control and Missile Defence Planning Information System.

AirC2IS is a system that enables automation of all business processes for strategic analysis, planning, assignment, execution and monitoring activities of NATO's air operations and active ballistic missile defence plans, and offers integrated interoperable collaboration tools to users.

The AirC2IS project is the largest defence informatics project Türkiye received from NATO.





CAPABILITIES

GEMED

WARFARE EFFECTIVENESS ANALYSIS MODEL

Warfare Effectiveness Analysis Model (GEMED) is an engineering level analysis simulation system in which combat activities of combat platforms can be measured in an integrated synthetic tactical environment. With the scenarios created, the model can be used for the purpose of decision support and tactical development for combat effectiveness assessment, ship design/modernisation and procurement.

The GEMED model is based on the analysis of statistical data obtained from the interactions of high-fidelity models in multiple simulation runs with Multiple Criteria Decision Making Techniques. In this context, the Simulation Infrastructure, Weapon Systems and Electro-optic/RF sensor modelling competence and the Effectiveness Assessment approach we developed with the academy were used.



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