



Product Catalog



Product Catalog

About Us

Simsoft was established in 2006 to develop R&D projects related to simulation systems, military software, and serious gaming applications. Simsoft has produced many simulators used by national and international civilian and military organizations and has delivered its software products developed in various fields to internationally renowned organizations.

Simsoft has followed a continuously growing success graph since its establishment and has been awarded “Turkey’s 50 Fastest Growing Technology Companies” in 2015, 2017, 2019, and 2020, and as one of the top 500 technology companies in the Europe, Middle East and Africa (EMEA) region in 2015 and 2019, according to research conducted by Deloitte. In 2017, ASELSAN won the “Software Design”, Crystal Pixel “Best Serious Game” and I/ITSEC (the world’s largest modeling, simulation, and training conference) “Best Mobile Game” awards. It was selected among “Turkey’s Top 500 Service Exporters” by the Turkish Exporters Assembly (TIM) in 2017 and 2018. Simsoft was the first and only company to be awarded TÜSİAD Digital Transformation Projects in Industry for three consecutive years between 2018 and 2020. Since 2016, Simsoft has been a strategic solution partner of ASELSAN and was deemed worthy of the “Strategic Business Partner” award by ASELSAN in 2021. In 2022, Simsoft commissioned the SIMMER facility in HAB OSB to increase its capacity to produce original, domestic, and national products. Simsoft won the “Women Entrepreneur Company with the Fastest Increase in Exports” award at Turkey’s Entrepreneurial Women Power Competition organized in cooperation with TOBB KGK and TEPAV.

Simsoft, which has been on the list of Turkey’s “Top 500 IT Companies” for many years, has maintained its success with new exports in 2023 and has become one of the rising values of the Turkish economy by ranking in the “Software and IT Services” category of HİB Service Export Champions. It was also deemed worthy of an award in the “International Project” sub-category of ASO’s 60th anniversary awards.

Simsoft holds a CMMI Level 3 certification and operates in five main areas: Simulator Systems, Defense, Aviation and Space Systems, Visual Systems, Gaming & Simulation. The SIMMER (Next-Generation Simulation Development, Training, and Testing Center), initiated in 2023, has also been incorporated into these groups. Our company offers superior services and products based on advanced technology in each area of operation, supported by a domestic and national infrastructure.

Simsoft’s head office is at METU Technopolis in Ankara/Türkiye and it has also offices and subsidiaries in Bilkent Cyberpark/Türkiye, Hacettepe Technopolis/Türkiye, Teknopark İstanbul/Türkiye, SIMMER Ankara/Türkiye and Florida/USA.



SIMULATOR SYSTEMS



DEFENSE, AVIATION & SPACE



VISUAL SYSTEMS



GAMING & SIMULATION



SIMULATOR SYSTEMS

- Air Defense Training Simulator
- Firearms / Combat Training Simulator
- Marine / Bridge Training Simulator
- Rail Systems Training Simulator
- Convoy / Ambush Simulator
- Heavy Vehicle / Armoured Vehicle Simulator
- Firefighter / Ambulance Simulator
- Bus / Truck / Vehicle Simulator
- Construction Machinery Training Simulator
- Advanced Driving Techniques Simulator

DEFENSE, AVIATION & SPACE

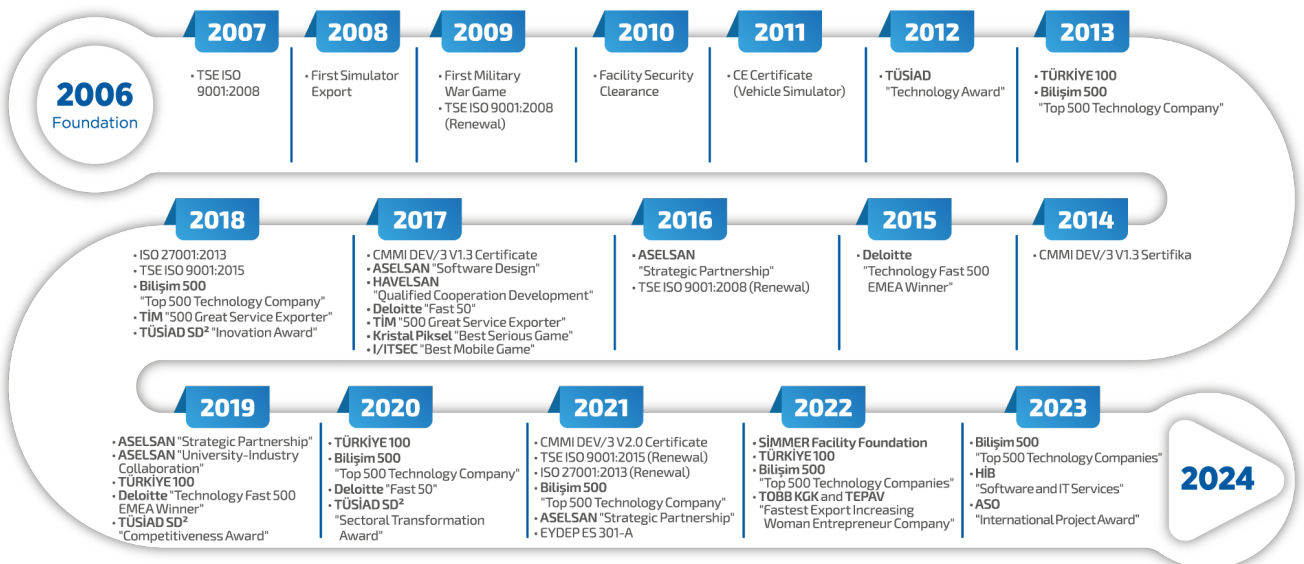
- Land Platform and Weapon Systems Software
- Avionic Software
- Naval Platform Systems Software
- Electronic Warfare and Communication Systems Software
- Test Software and Testing Services
- Embedded Simulation Systems

VISUAL SYSTEMS

- High Performance Image Generator
- Virtual Maintenance Trainer
- Computer Based Training System
- Interactive Electronic Technical Manuals

GAMING & SIMULATION

- Border Security War Game Simulation
- Naval War Game Simulation
- Aircraft Rescue / Firefighting Tactical and Operational Training Simulation
- Classroom Simulation
- Business Process Simulation
- 3D Space Simulator
- Anatomy Training Simulation
- Entrepreneurship Simulation
- Mine VR Simulation
- Fire Extinguishing Simulation
- Earthquake VR Simulation
- Virtual Reality / Augmented Reality Based Simulation Systems
- Augmented Reality for Maintenance and Repair
- Remote Support Systems
- Artificial Intelligence Framework



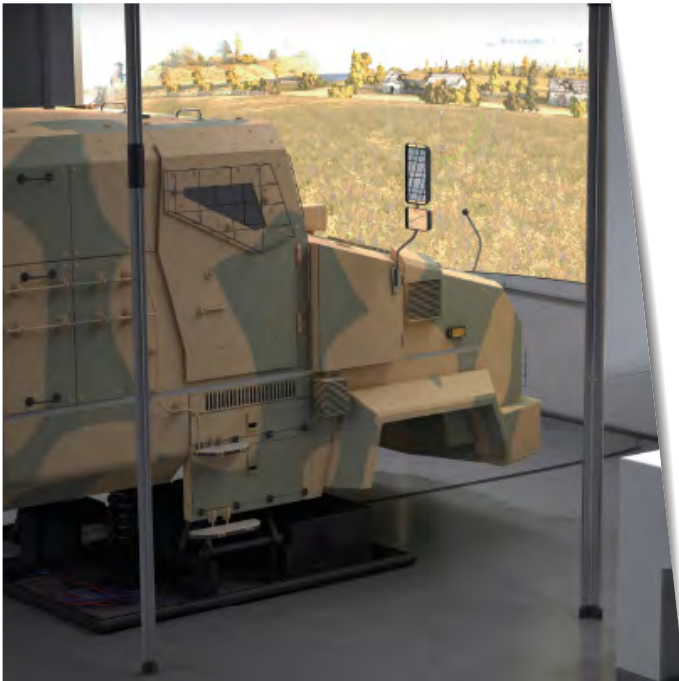
* Outstanding achievements and awards in the corresponding years are shown.



SIMULATOR SYSTEMS



VEHICLE SIMULATOR



Simssoft develops simulator systems for vehicles that are heavily in use at public and private sectors on sensitive and critical missions.

- Basic Driving Training
- Advanced Driving Training
- Safe Driving Training
- Mission-Oriented Driving Training
- Fuel Economy Driving Training
- Reducing Maintaining Costs Driving Training

MARITIME/BRIDGE TRAINING SIMULATOR

Simssoft develops simulators for diving and floating marine platforms. Efficient training systems are provided for corporations through real lifelike all kind of geographic, meteorological conditions and incident based scenarios.

- Full Mission Bridge Simulator
- Ship Simulator
- Damage Control Simulator
- Engine Room Simulator



CREW TRAINING SIMULATOR



Simsoft offers Crew Training Simulators for training crew members such as commander, gunner and driver using synthetic tactical environment.

- Safe Driving Techniques
- Shooting Techniques
- Target Identification
- Track & Target Surveillance
- Effective Usage of Sensors
- Team Coordination

SHOOTING & COMBAT TRAINING SIMULATOR

Shooting and Combat Training Simulator provides end to end training solution for defense industry, private and public sectors.

- Training with IR and Visible Laser
- Training with Real Bullets
- 3D Residential Area Combat Scenario
- Indoor Combat Scenario
- Ambush and Counter Ambush Scenario
- Video-Based Scenario



CONVOY SIMULATOR



Convoy Simulator is a system that provides training for armoured and unarmoured vehicles and weapon systems in a controlled and realistic virtual simulation environment.

- Urban and Rural Driving Simulator
- Shooting Simulator
- Tactic Simulation
- Image Generator
- High Resolution Urban/City Model/ Animation

CONSTRUCTION EQUIPMENT TRAINING SIMULATOR

Vehicles behaviors on various grounds and working environments are being modelled in high fidelity level and real vehicle hardware is being used on simulators.

- High Fidelity Vehicle Driving, Engine Dynamics
- Programmable Artificial Intelligence
- Adjustable Evaluation Infrastructure
- High Resolution Visualization
- Multi-Display Support
- Record and Replay



AMBULANCE SIMULATOR



Ambulance Simulator is developed for accomplishing safe driving and first aid in ambulance trainings.

- Scenarios for Advanced Driving Techniques
- Special Missions for Accident Scenarios
- Fire and Tanker Accident Scenarios
- Virtual Urban and Rural Environments
- Realistic Weather Effects
- Day/Night Driving Conditions

RAIL SYSTEMS TRAINING SIMULATOR

Simsoft aims to train, evaluate and increase operational skills of train drivers in 3D environments.

- High Fidelity Vehicle Driving, Engine Dynamics
- Programmable Artificial Intelligence
- Adjustable Evaluation Infrastructure
- High Resolution Visualization
- High-reality Modelling of Rail Line
- Record and Replay



FIREFIGHTER SIMULATOR



Simssoft develops simulation systems for the firefighter vehicles in order to train personnel cost effectively, with high quality and efficiently through the benefits of the simulation technologies.

- Separated or Integrated Use of Simulators
- City and Rural Environment Models
- Driving Various Environment Conditions
- Tactical Training for Intervention to the Fire
- Usage Scenarios for Different Equipments

HEAVY VEHICLE / BUS SIMULATOR

Simssoft develops Heavy Vehicle / Bus Driving Training Simulators in order to reflect simulation technologies' benefits to bus driving trainings and to train qualified personnel efficiently, with high quality and cost effectively.

- Maintenance Costs Reduction Driving Training
- Fuel Economy Driving Training
- Perception and Reflex Training
- Safe Driving Training



ADVANCED DRIVING SIMULATOR



Ambulance Simulator is developed for accomplishing safe driving and first aid in ambulance trainings.

- Scenarios for Advanced Driving Techniques
- Special Missions for Accident Scenarios
- Fire and Tanker Accident Scenarios
- Virtual Urban and Rural Environments
- Realistic Weather Effects
- Day/Night Driving Conditions

STAMP / STOP TRAINING SIMULATOR

It is an appended simulator system that enables remote-controlled weapon systems such as STAMP and STOP to turn into a high-fidelity simulator by simply putting them in training mode and integrating a laptop computer.

- Capability of Training using Real Hardware
- Marksmanship Training for Different Mission Types
- Reporting, Recording and Replay Opportunity



AIR DEFENSE ARTILLERY SIMULATOR SYSTEM (ADASS)



They are simulators aimed at training 20 mm and 35 mm air defense gun shooters. The system may consist of radar, gunner, commander and trainer modules. Through the trainer console, scenario and field data can be entered, situations can be injected into trainees, performance measurements and various analyzes can be made. With replay module, real-time end-of-activity review is provided to trainees. With simultaneous desktop applications, unit training can be given at different levels such as battery, battalion, etc.

VISUAL SYSTEMS



HIGH PERFORMANCE IMAGE GENERATOR (SimIG)



SimIG offers an high quality image generator system for the most complex visualization needs while combining performance and high reality.

- High Resolution Visualization
- Multi-Channel Visualization
- Advanced Multi-Texturing Techniques
- Advanced Visualization of Atmospheric Conditions
- Lighting and Shading
- Sensor Simulation

COMPUTER BASED TRAINING SYSTEM (CBTS)

The aim of this course is to provide training supporting international standards for training of personnel and technicians through visual and auditory objects in a computer environment.

- User Management and Content Visualization Module
- Word, Ppt, Pdf, Flash, Video
- Question Preparation and Exam Module
- Chat and Forum Module
- Questionnaire Module
- Reporting and Analysis Module



VIRTUAL MAINTENANCE TRAINER (VMT)



Virtual and augmented reality interactive training systems that enable the provision of realistic training on vehicle, component, parts and equipment models transferred to the virtual environment.

- Maintenance Documentation and Monitoring
- Interactive Repair Operations and Procedures
- Trouble Shooting and Control Procedures
- Troubleshoot Techniques

VIRTUAL & AUGMENTED REALITY TECHNOLOGIES

As Simsoft, we integrate the Virtual and Augmented and also Mixed Reality Technologies to our training systems, especially for our operational level trainings.

In Virtual Maintenance Trainers, effective training is provided when disassembling, installing, diagnostics, etc. are enhanced with Virtual, Augmented and Mixed Reality technologies.





DEFENSE, AVIATION & SPACE

SİLAH EMNİYETLİ

KANİSTER ● ● ● ● ● ●

KATKAS ● ● ● ● ● ●

EOYP ● ● ● ● ● ●

ARAMA RADARI ● ● ● ● ● ●

PERSONEL K. ● ● ● ● ● ●

RAMPA K. ● ● ● ● ● ●

SETKAS ● ● ● ● ● ●

Yan: TV 453 340

Yükseliş: IR 453 340

İşaretleyici ile kamera görüntüsünün orta noktasını seçin!

KAYDET

UYGULA

Durum: Aktif

Eksen-1 (°) 0

Eksen-2 (°) 0

SOL

Durum: Aktif

Eksen-1 (°) 0

Eksen-2 (°) 0

Yunus: 0,00

Yuvarlama: 0,00

TÖP-1: %65

TÖP-2: %75

Füze-1	Füze-3
Tip: Alçak İr. Taktik	Tip: Alçak İr. Taktik
Durum: Hazırlanıyor	Durum: Dolu
Füze-2	Füze-4
Tip: Alçak İr. Taktik	Tip: Alçak İr. Taktik
Durum: Dolu	Durum: Dolu

Füze Durumu:

- Atılmamaya Hazırlanıyor
- Atılmamaya Hazır
- Atılmıyor
- Dolu
- Boş
- Atılmadı
- Arızalı

Hedef No	Hedef Tipi	Hız (m/s)	Mesafe (m)	İrtifa (m)	Füze Sayısı	Füze Durumu	Ateş İzn	Ateşleme Çizelgesi (sn)	Ang. İptal	Vuruldu/Vurulmadı
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DRISA

İRTİFA

HEDEF

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İRTİFA: 0,00

SÜRAT: 0,00

ROTA: 0,00

KONUM: 0,00

MÜHİMMAT: 5

SON ATIRI: 5

ATIM: 0

KALAN: 0

SİLAH

IR

MÜHİMMAT: 5

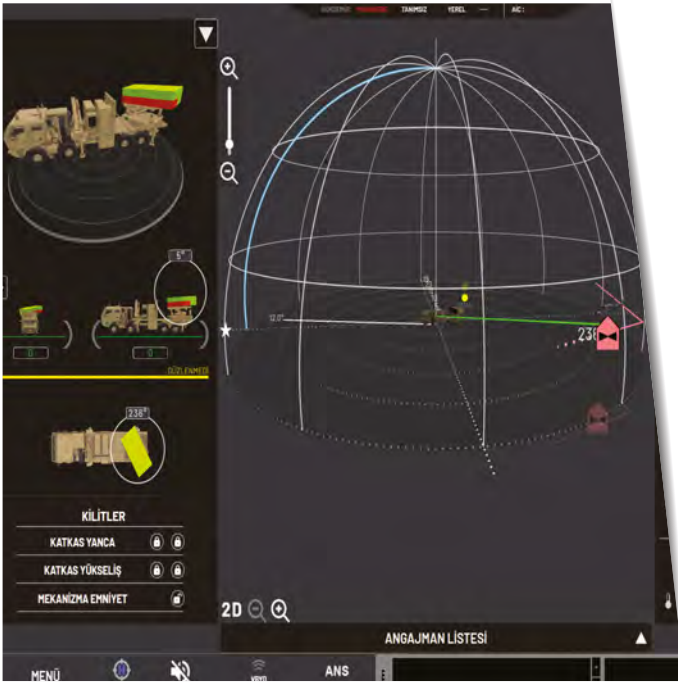
SON ATIRI: 5

ATIM: 0

KALAN: 0

SİLAH

AIR DEFENSE SYSTEM SOFTWARE



Simsoft develops and delivers software for air defense systems, artillery and surface to surface missiles. Following capabilities have been developed in this context:

- Air Defense and Weapon System Components
- Weapon Control Systems Management and Target Allocation Algorithms
- Sensor Systems Software
- Target Detection Algorithms
- User Interface Software

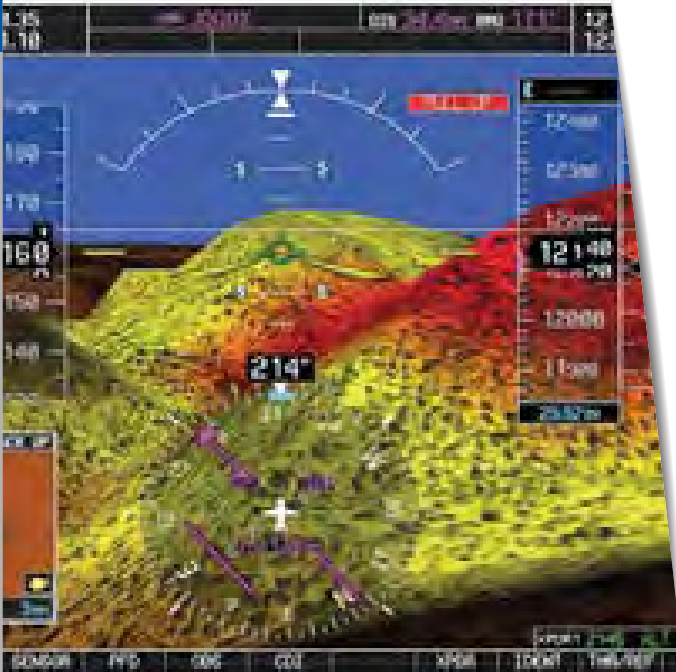
WEAPON SYSTEM SOFTWARE

Simsoft develops and delivers software for surface-to-surface missiles and artillery systems. Following capabilities have been developed in this context:

- Sensor Systems Software
- Data Fusion and Target Detection Algorithms
- Weapon System Components
- Weapon Control Systems Management and Target Allocation Algorithms
- User Interface Software



FIXED-WING AVIONICS SOFTWARE



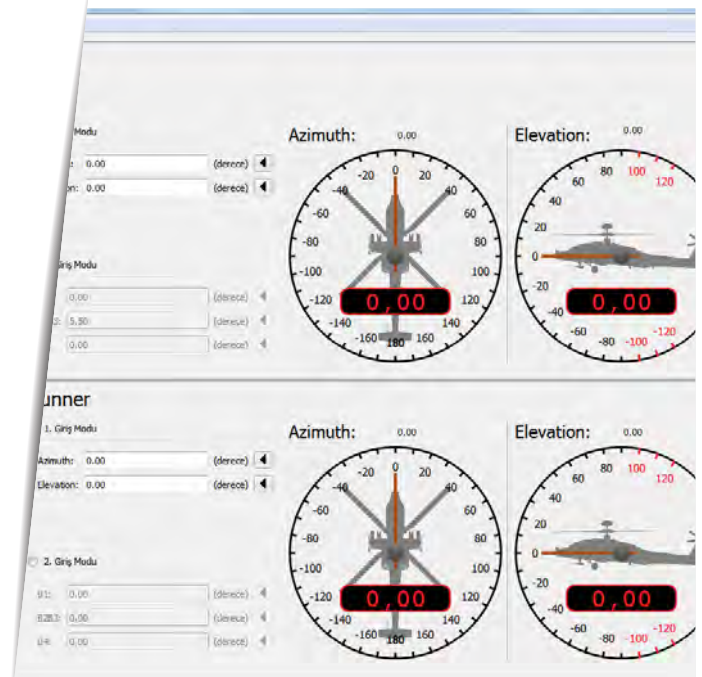
Avionics software employed in electronic systems of aircraft, satellites and space vehicles that comply with regulated safety and reliability requirements is developed by Simsoft.

- Real-time Operating Systems
- Mission-critical System Software (DO-178B)
- Embedded System Software, Hardware and Integration
- Database Management Procedures
- Sensor Mapping Analysis
- Graphical Analysis
- Mission Data Transmission/Reception

ROTARY WING AVIONICS SOFTWARE

High-reliability avionics software employed in electronic systems of helicopters is developed by Simsoft.

- Real-time Operating Systems,
- Mission-critical System Software (DO-178B),
- Embedded System Software, Hardware and Integration
- Development of Symbology Library,
- GIS-based Mission Planning, Mission Analysis
- Database Management Procedures,
- Sensor Mapping Analysis,
- Mission Data Transmission/Reception



NAVAL PLATFORM SOFTWARE



System software that collects data from related sub-sensors in required format and frequency, records and displays this distributed data is being developed. Capabilities in this domain include the following:

- Serial Bus Ethernet Communication Software
- Data Control and Display Units
- Data Control System Power Unit
- Data Control Software
- User Interface Software
- Data Recording and Analysis Software

RADAR, ELECTRONIC WARFARE, COMMUNICATIONS AND SENSOR SYSTEM

Simssoft develops communication software for transmission of messages, audio and video recordings and data in other formats between platforms, weapon systems and operation centers. Capabilities include:

- Electronic Support (ES) / Electronic Attack (EA) Mission Analysis Software
- Target Management
- User Message Management
- Data Transformation between Different Equipment / Message Systems (INS, GPS, LRF, etc.)



TEST SOFTWARE AND TESTING SERVICES

For Mission and Safety Critical Projects, there is a test unit within Simsoft that only provides test services and produces test software in order to ensure that the relevant tests can be carried out by third parties. The capabilities of this unit include:

- Unit Testing Software and Services
- Test Stubs
- Test Automation
- CMMI-3 Procedure
- MIL-STD-498 Documentation
- MIL-STD-973 Documentation



EMBEDDED AND APPENDED SIMULATION SOFTWARE

Embedded and appended simulation software are being developed for operator training of platform and weapon systems.

Embedded weapon simulation software is hosted in weapon systems software and can be activated by putting the relevant systems into training mode. Appended simulation software, on the other hand, is generally developed after the production and commissioning phases for any desired system and can be activated by connecting a tablet or laptop computer to the relevant system.



MILITARY DECISION SUPPORT SOFTWARE



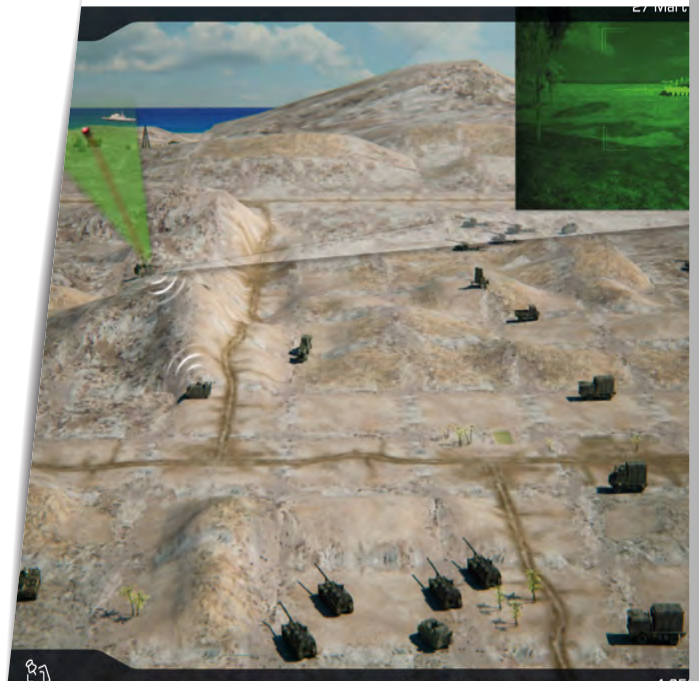
Decision Support Systems are developed for effective military analysis and decision-making activities.

- Data Collection
- Data Mining
- Advanced Analytics
- Specialized Mathematical Modeling
- Simulation
- Future Prediction
- Impact Analysis

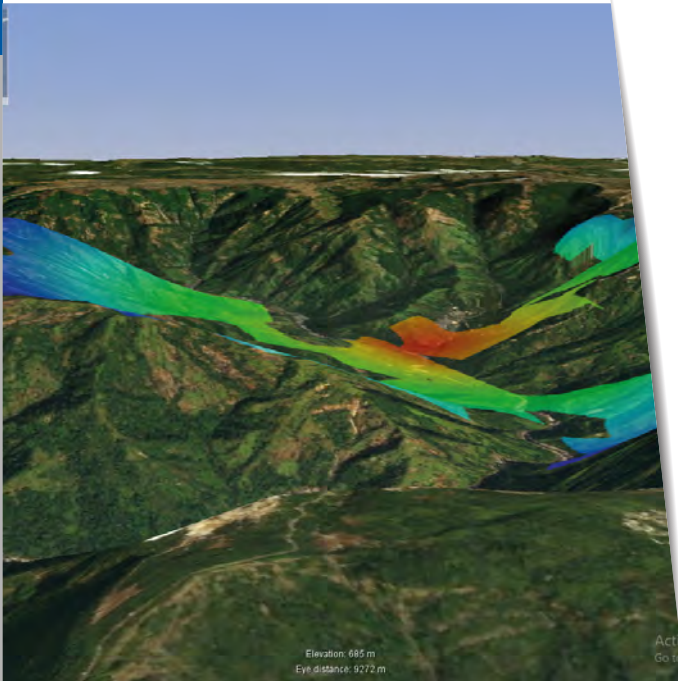
COMMAND AND CONTROL INFORMATION SYSTEMS SOFTWARE

Command and Control Information Systems are developed for automation of battlefield command and control activities.

- Personnel Information Systems
- Intelligence Information Systems
- Operations Information Systems
- Logistic Information Systems
- Communication Information Systems
- Presentation of Information in Different Formats and Reports



SIMGIS

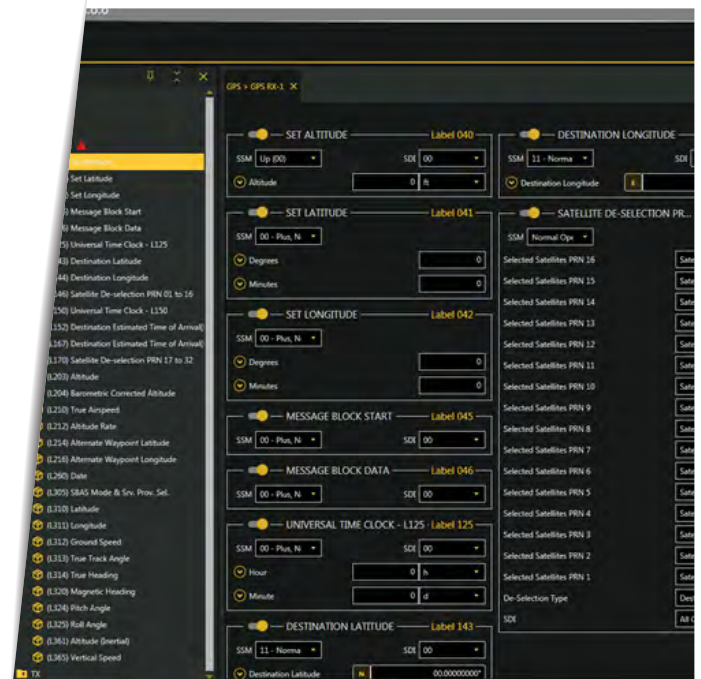


SIMGIS is a GIS Mapping Application that can be utilized by military application software. Main objective of the application is to display visual map information to users. User can align the maps, create text and graphics in accordance with MIL-STD-2525 B standard, store, modify and erase these graphics and conduct various analyses and measurements.

ATLAS SIMULATOR AND TEST AUTOMATISATION SUITE

ATLAS enables automatization of test simulator generation, test planning and test script development, test input creation, test execution and result evaluation, test report generation and provision of test results to software development applications for avionic and other complex systems.

- A Hardware Simulator and Emulator Environment with a Distributed Architecture
- Modeling Messages of Devices with Various Protocols and Implementation of Device Behaviors
- Hardware Adapters and User Interfaces Support for Multiple Buses





GAME & SIMULATION



WAR GAME SIMULATION



Simulation systems are developed for improving deciding, managing, analyzing and evaluating skills of leading personnel in every forces on the field and actions under their responsibilities through tactical and strategic level.

- New Model and Behavior Support
- 100+ User Support
- Limitless Scenario Creation Capability
- Touchscreen Control Support

AIRCRAFT RESCUE & FIREFIGHTING SIMULATION (ARSIM)

Tactical and operational training simulation system for aircraft rescue & firefighting.

- Two Stage Training
- Computer Based Training Support
- Multi Touch Screen Support
- Tactical Training
- 2D / 3D Visual Content
- Game Based Learning
- Content Creation, Test Database & Test Creation
- Performance Evaluation and Feedback
- Student and User Management



FIREFIGHTING SIMULATION SYSTEM (TOPFIRE)



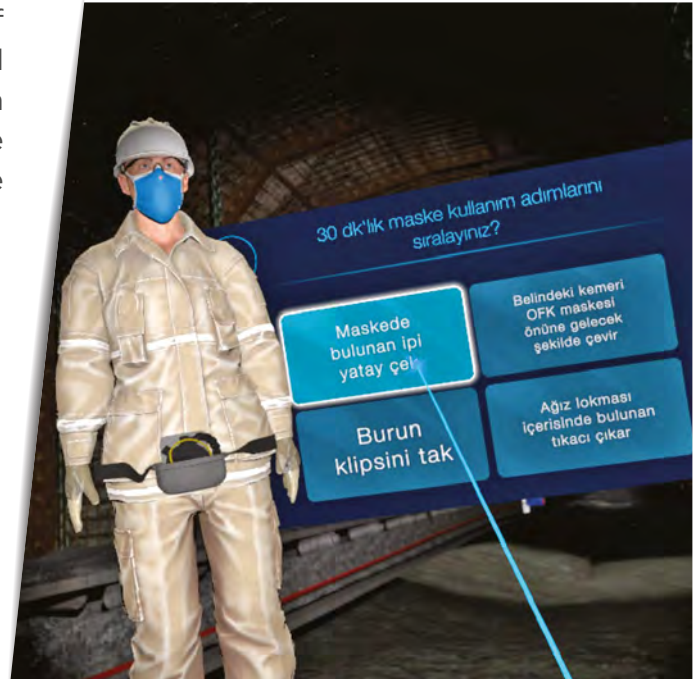
Tactical and operational training system for firefighting.

- Route Planning
- Fire Notice / Rescue
- Scenario Creation / Multiplayer Mode
- Weather Effects
- Decision Making / Build Your Own Environment
- 3D Vehicles / Fire Stations
- Disaster Management
- Inter-team Communication

EMERSIM - MINEVR MINING SIMULATION

MineVR-Mining Simulation; the training of the personnel working in the underground mines in a risk-free environment with advanced scenario options and the possible emergency situations of the personnel aims to raise awareness.

- Training System with Virtual Reality
- 3D Real Environment Models
- 3D Vehicle and Equipment Models
- Single Player / Multiplayer Training System
- Game Based Learning



FAYSIM EARTHQUAKE TRAINING SIMULATION SYSTEM



FaySIM offers real life experience in a risk-free environment with earthquake scenarios.

- Training with VR Based Earthquake Application
- Earthquake Bag Preparation Scenario
- Earthquake Scenario for 7-12 Years
- Earthquake Scenario for Adults

VIRTUAL REALITY BASED WORK MACHINE SIMULATORS

VR Based Bridge Crane Simulator has;

- Operator Cabin & Seat
- Customizable Plug & Play Control Consoles
- High Fidelity Visual & Sound System
- Optional Motion Platform
- Instructor Station with CCTV
- Digital Signage Display



SIM IN CLASS CLASSROOM SIMULATION

Virtual and augmented reality based, education system to train teachers.

- 3D Virtual Classroom Environment
- Game-Based Learning / Creating Scenarios
- Single Player and Multiplayer Mode
- Quick Feedback
- Use Of Technology in Learning Environment
- High-Fidelity Artificial Intelligence
- Classroom Management
- Pedagogical Approaches



MEGA CAPITAL ENTREPRENEURSHIP SIMULATION

Mega Capital - Entrepreneurship Simulation is a simulation that aims to allow the player to experience entrepreneurial adventures while having fun.

- Realistic Adventure of a Startup
- Motivation-Oriented Mechanism
- In-Depth Strategy Game
- 3D Charts
- Leaderboard
- Reporting Support
- Management Information System



EMERSIM - FIREVR FIRE EXTINGUISHING SIMULATION



FireVR is an interactive virtual reality simulation aimed to provide realistic and operational level training in fighting for A, B and F class fire types with a real fire extinguishing.

- Configurable Hardware Units
- VR Headset and Controller
- Fire Extinguisher Usage
- CAVE
- Air, Smoke & Fire Modeling
- Visualization on Digital Signage

SIMOVATE BUSINESS PROCESS SIMULATION

SIMOVATE - Business Process Simulation is a simulation and optimization-based decision support system.

- Dashboard Design Support
- BPMN 2.0 Notation
- Statistical Data Analysis
- Visualization & Animation
- Detailed Reporting
- Cloud Based Platform
- Customer Oriented Specialization





CMMIDEV/3SM
Exp. 05.01.2024 | Appraisal #52343



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