



Software Competitiveness International S.A. is a dynamic, medium-sized software SME based in Athens, Greece with sales points in Germany.

SoftCom International has been active in ESA activities since 2014, having successfully completed and several projects involving the spin-in of data mining, AI, machine learning, data engineering/big data, and data science to the space industry. These activities have involved the entire software lifecycle, from concept and use case definition, requirement analysis, software architecture, implementation to validation, characterisation and maintenance.

Processes and certifications

SoftCom International has been audited and certified for its operations and processes:

- Certified by TUEV AUSTRIA-HELLAS for ISO 9001:2015 and ISO 27001:2013
- TISAX level 3 for "Handling of information with High Protection Level" and "3rd Party Connections according to VDA-ISA Version 3.0"
- Automotive SPICE V3.1, capability level 3



Software Competitiveness International SA

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Our Space Systems Software R&D

We are experienced in working with ESA standards and are very familiar with following our clients' quality, regulatory and bidding processes and standards.

Our focus areas are:

- Ground Segment Software
- Earth Observation
- Flight Software

Our space activities with ESOC, ESTEC, CNES, and ECSAT have included:

AI/ML for ground system performance monitoring

- Data mining for root cause analysis
- Big-data scale up of solution for modern distributed ground systems
- Data science & ML for anomaly detection & fault prediction
- Advanced UIs & Mobile applications / AI for Operations
 - Decision-making tool & new UI for satellite pass schedules
 - Complex Event Processing & Mobile Apps for operator notification
- Tooling for automating software testing
 - AI & analytics support for satellite functional simulation
 - Automated test case generation for operations
- Downstream applications
 - Earth observation for natural disaster monitoring
 - GNSS for intelligent public transport solution with mobile apps

Softcom International is the creator of the ESA Advanced Alarm Management System (AAMS), enabling next-generation intelligent alert notifications of problematic system conditions for space system operators. AAMS includes both web and mobile applications to monitor systems onsite and remotely which provide rich reports in the case of anomalies to quickly aid troubleshooting operations. The modular architecture of AAMS can support spacecraft engineers, Flight Control Teams, Near Earth Monitoring and commercial use cases.

Our Services:

- Research & detailed analysis
- Software design, development, testing & optimisation to ESA standards
- Engineering solutions to scale to big data requirements
- Performance monitoring & control systems
- Remote operations using smart mobile devices

The technologies portfolio, already used for our space projects, includes:

- Development of desktop, web, and mobile applications for the ESOC EGOS ecosystem
- ESA Ground systems (EGOS, EGS-CC, OPEN, ART)
- Big Data technologies with selfhosted and Cloud services
- Data mining, AI, and machine learning algorithms
- Modern Devops
- Agile development methodology



Software Competitiveness International GmbH

Software Competitiveness International GmbH (SCI) is a growing Software House headquartered in Darmstadt, Germany. Familiar with the way of working and the cooperation needs of large multinational companies, to maintains creativity & flexibility.

Located near the premises of ESA/ESOC and EUMETSAT, it offers on-site and off-site services and is involved in space projects in the field of emerging technologies: mainly Data mining, Artificial Intelligence / Machine Learning, Big Data, Digital Transformation, and Software R&D services.

<https://softcom-int.de/>