



SOFITER SYSTEM ENGINEERING

SSE - Sofiter System Engineering SPA

**COMPANY PRESENTATION**

***A RELIABLE ENGINEERING PARTNER***

# SSE - Sofiter System Engineering SpA

Founded in Turin in 1980, has been operating for over 40 years in the sector of services for the life cycle engineering of aerospace products, both civilian and military.

HQ in Turin (Development and ICT Areas, Secure Areas), other premises in Rome and UK (SSE UK Ltd).

The extensive experience gained over this long period allow SSE to develop end-to-end projects, from feasibility studies (Phase 0) up to supporting the use of the product (Phase E), both on site and directly at the customers' premises.

More than 150 specialists, including System Engineers, Electronics Engineers, Software Engineers, Verification and Validation Engineers.



SSE, historical partner of Leonardo SpA, was awarded in the Leonardo Supplier Awards program in 2021 and 2022 in the Service Excellence category.

# SSE SpA QUALITY SYSTEM

In line with its own aims to continuously improve the service quality, SSE has a Quality Management System certified in compliance with **ISO 9001:2005 and EN9100:2018**

This certification has been released on the 2013-03-22 by DNV GL Business Assurance Italia SRL, and it is valid for the following products and services:

- **Design, development and testing of avionics systems (including software and system integration)**
- **Structural design and on-board systems installation**
- **Thermal analysis services in the aerospace field**
- **Avionic Material Management Services**
- **Configuration Management Services on avionics and energy systems**
- **Project Management Service**



ISO 9001:2015 and EN 9100:2018

**SSE is a reliable partner for the development of military aircraft for the Italian national industry, first Aermacchi and Aeritalia, then Finmeccanica, today Leonardo SpA.**



**GCAP System  
Engineering**



**EFA 2000 and  
related upgrade**



**M346**



**ATR-MPA  
Special Versions**



**C27J and  
related upgrade**



**TORNADO and  
related upgrade**



# SSE SpA: EXCELLENCE IN ENGINEERING

- SSE carries out **complex technological projects** throughout the product development cycle for leading companies in the Aerospace and Defense sector
- SSE offers a wide variety of **engineering services**, from feasibility analysis, requirements management, to the development of complex aircraft systems and subsystems, for the entire project life cycle
- The strength of SSE is based on the **competence** and **professionalism** of the specialists, technicians and managers who compose it
- A **detailed selection** of experts in the engineering sector and graduates in STEM disciplines from various Italian universities
- A **training course** in structured and replicated **working groups** in the various areas of engineering intervention
- We apply advanced technologies and we are committed to the constant development of new and innovative solutions
- SSE participates with **passion** and **continuity** in Customer success, sharing the values and rules that characterize the mission of the entire aerospace supply chain
- SSE follows the development and integration activities of avionics systems both throughout the national territory (AMI Bases) and abroad (**SSE UK Ltd**, Kuwait, Qatar, ...)
- **'Win-Win' partnership** with **Universities** and other **SMEs** in the Aerospace, Defense and Energy sectors

# ORGANISATION, MANAGEMENT AND CONTROL MODEL

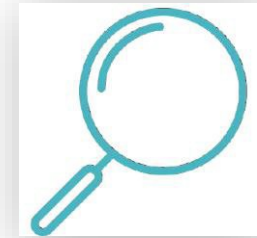
## POLICIES

- ✓ Quality
- ✓ Risk Management
- ✓ Operational Continuity
- ✓ Information Security
- ✓ Personal Data Protection
- ✓ Supplier - General Purchasing Conditions
- ✓ Prevention - Harassment and Violence
- ✓ HSE and Social Responsibility
- ✓ Whistleblowing - Reposting of Offenses and Irregularities



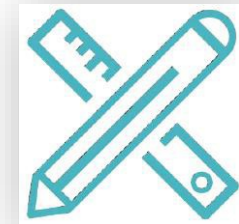
## ETHICAL CODE

- ✓ SSE Code of Ethics



## GDPR

- ✓ Information and Personal Data of Suppliers
- ✓ Information and Personal Data of Customers



# ONGOING CONTRACTS OVERVIEW (1/3)

## EFA

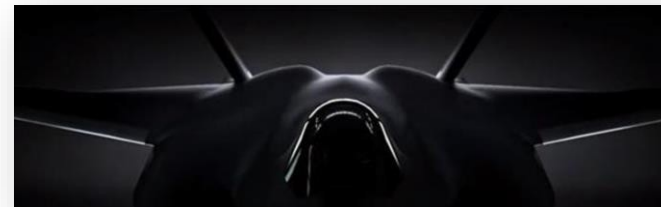
- ACS / AVS System Integration
- NAV System Integration
- EFA PdM System Integration
- GSS / IMSS System Integration
- Simulation & Training System Integration (RIG)
- AJT UK ACS, NAV, AVS (Design and System Integration)
- AJT UK RIG (Support Equipment Engineering & Testing)



- Radar Mission System Integration
- KAF
- HMI System Integration
- SAFETY Engineering
- Vendor & Material Management
- Reference Data

## GCAP

- Aircraft Systems
- NAV/ACS Mission Systems
- HMI&WI Integration



# ONGOING CONTRACTS OVERVIEW (2/3)

## C-27J

- AVS Avionics System Integration



## TRAINERS (M-346, M-345)

- AVS Avionics System Integration
- ACS System Integration
- HMI&WI System Integration





## ONGOING CONTRACTS OVERVIEW (3/3)

- ATR LRMP Version System Integration
- ATR WI System Integration
- CMS System Integration onboard  
SpecialVersion (other Platforms)
- Aircraft Prod. Support
- AMI Ground Base Support
- 76/62 Naval Gun “over deck” System Integration

# R/D PROJECTS - FEASIBILITY STUDIES

## ROBOTIC ARM FOR HEMS-HHO TRAINING

- Full-flight simulator of heli rescues operations (critical mission phases)
- Original solution Patent pending
- Trolley on rails based, hosting heli cockpit
- 3D movement in existing and/or new bay (indoor and/or outdoor)



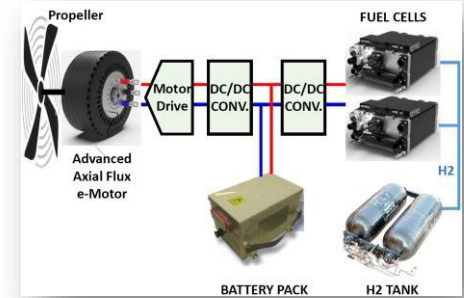
## PILOTS & CREW STRESS DETECTION BY AI

- In partnership with UNITO DI
- flight-biometric-behavioral sensors data integration
- AI & Pattern Recognition analysis and detection of stress precursors



## e-POWERTRAIN FOR MALE UAS

- Two projects in partnership with UNICAS and UNIRC
- Replacing traditional fuels/motors with e-motors powered by Hydrogen (HFC and hi-press tanks)
- Powertrain Control System AI-based targeting FALCO x-Plorer performances



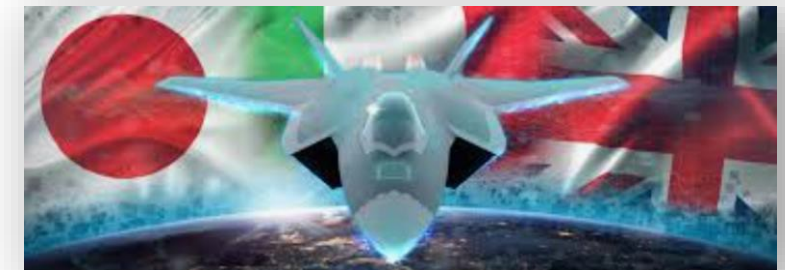
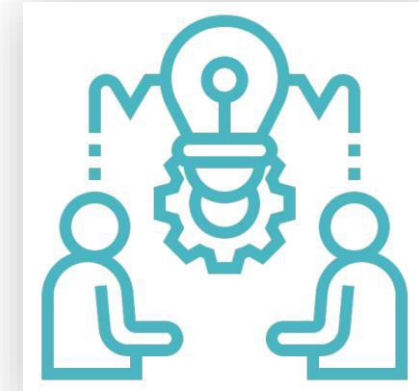
## AI IN SUPPORT OF AERIAL FIRE-FIGHTING MISSIONS

- Project in partnership with UNITO
- “system of systems” by C27J, UAS swarms, sensors and other networks integration
- Extensive operations by MAFFS (Oil Spills, Agriculture, NBC, ...)



# OUTLOOK

- Expansion in **engineering solutions** development  
(AI, UAS electrification, simulators, ...)
- Expansion of the **offered services**  
(reverse engineering, special version aircraft engineering, ...)
- **Customers footprint** expansion  
(LED and Sistemi Difesa programmes, other Defence Market Players)
- Positioning consolidation as **Center of Competences for GCAP** engineering services
- Further SMEs and Universities **partnerships**



**BECOME THE PREFERRED GCAP  
SYSTEM ENGINEERING PARTNER**



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**SSE - Sofiter System Engineering SpA ([www.sofiter.it](http://www.sofiter.it))**