

Global ATM and Airport Systems



Predictable results
for unpredictable threats



SELEX
Sistemi Integrati
A Finmeccanica Company

SELEX Sistemi Integrati:
A commitment to excellence in ATM
and Airport Systems.





SELEX SISTEMI INTEGRATI: A SUCCESSFUL STORY

SELEX Sistemi Integrati is a Finmeccanica Company operating as prime contractor for the design, manufacturing and integration of equipment for Large Systems. As a design authority, the Company makes use of technologies developed both in house and by other Companies of the Group.

SELEX Sistemi Integrati designs and develops Air Traffic Management and Airport Systems, Large Systems for Homeland Protection, Systems and Radar for Air Defence, Battlefield Management, Naval Warfare, Coastal and Maritime Surveillance.

The Company has been operating in these fields for more than 50 years and boasts a long-established expertise and know-how. Its origins date back to the early fifties with the foundation of Microlamda which merged with Sindel in 1960 giving birth to SELENIA, which later became ALENIA after another merger with Aeritalia. From 1998 to 2005 Alenia set up AMS-Alenia Marconi Systems, a joint venture between Alenia and former GEC Marconi, now BAE Systems.

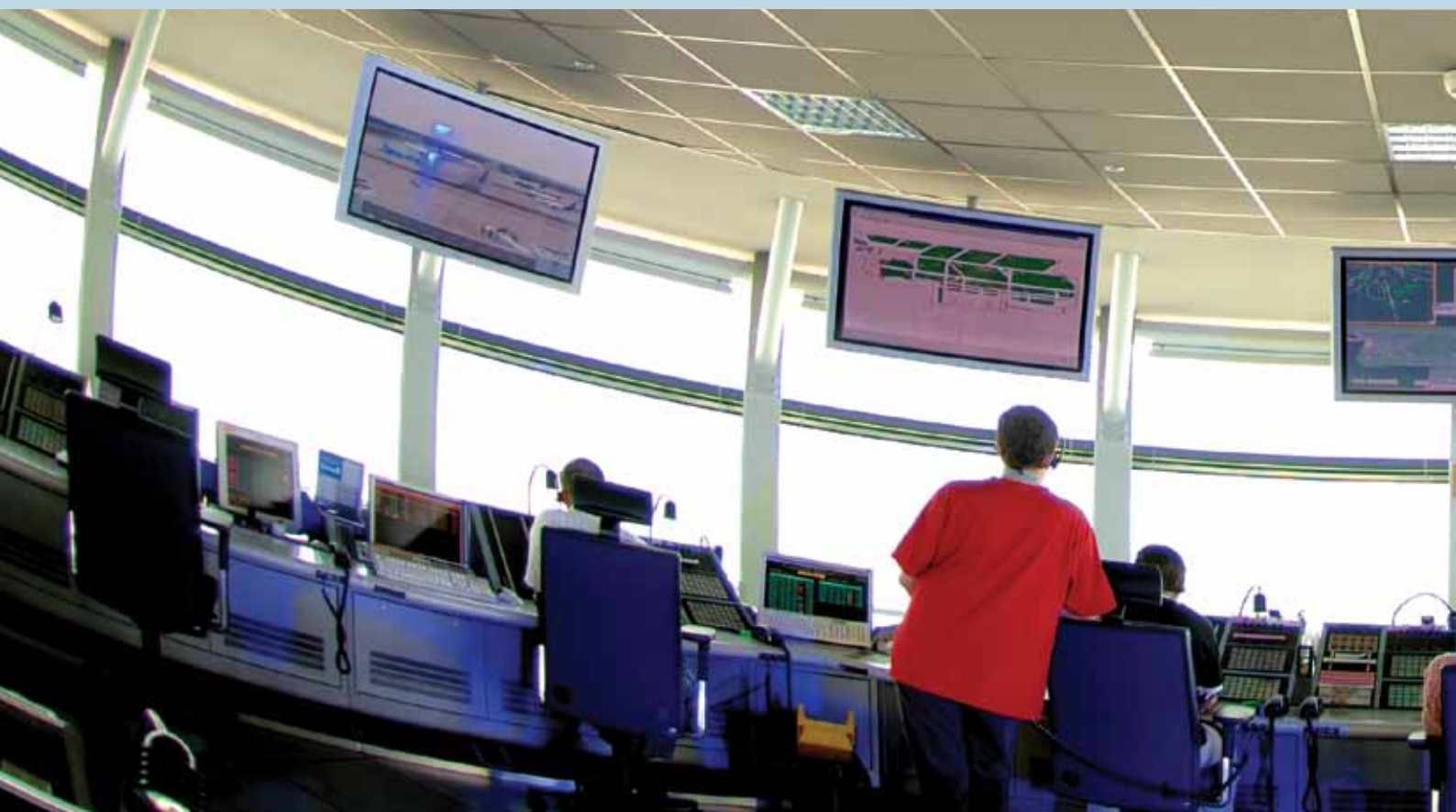
With a Customer base in more than 150 Countries and main offices in Italy, France, Germany, Netherlands, Spain, United Kingdom and USA, SELEX Sistemi Integrati is at the forefront of the world market.

SELEX Sistemi Integrati is a world leader in the design and development of innovative Systems to improve capacity, efficiency and safety in Air Traffic Management and Airport Operations.

SELEX Sistemi Integrati delivers modular and cost-effective Systems in the following domains:

- Air Traffic Management
- Airport
- Surveillance
- Weather Surveillance
- Navigation Aids
- Simulation and Training

Thanks to the highly skilled personnel and the use of advanced technologies, SELEX Sistemi Integrati covers all the phases of the System lifecycle.



AIR TRAFFIC MANAGEMENT

SATCAS is the ATM solution provided by SELEX Sistemi Integrati for Systems Automation from En-Route to TMA Operations.

SATCAS offers a full range of modular and integrated products, which can be combined in order to meet the operational requirements, deriving from very different Air Traffic Management environments, ranging from large, nation wide, En-Route to small Approach Control Centres.

SATCAS satisfies a number of dimensioning architectural requirements, such as High Availability, High Performance, Flexibility and Scalability.

The SATCAS functional features include:

- Integration of Heterogeneous Surveillance Data Sources for Multi Sensor Tracking
- Accurate Trajectory Prediction
- Advanced ATC Tools
- Safety Nets
- Civil Military Interoperability
- Air-Ground Data Exchange
- Advanced Operational Display System
- Seamless Integration with A-SMGCS
- Fall Back & Disaster Recovery

AIRPORT

SELEX Sistemi Integrati designs, installs and commissions complete and turnkey Systems fulfilling every ATC, Airside and Landside Airport operational requirements.

Airports are complex environments where many stakeholders, such as Air Traffic Service Providers, Airport Operators, Ground Handlers and Airlines, cooperate to provide the Airport Management.

SELEX Sistemi Integrati, acting as prime contractor and system designer, solves the burden of multiple procurements by providing Global Solutions for the whole Airport.

The Airport products of SELEX Sistemi Integrati include:

- SAIL, the A-SMGCS of SELEX Sistemi Integrati
- Automated Weather Observation System (AWOS)
- Ground-to-Air Communication
- Airport Lighting System
- Baggage Handling System
- Check-in and Terminal Information System
- Integrated Airport Security System
- Civil works as Control Towers, Passengers and Cargo Terminals, Runways and Taxiways



SURVEILLANCE

The product portfolio of SELEX Sistemi Integrati covers the three Surveillance pillars: Primary and Secondary Surveillance Radar, Automatic Dependent Surveillance Broadcast (ADS-B) and Multilateration and Wide Area Multilateration systems.

ATCR-33S and ATCR-44S Primary Surveillance Radar are the result of SELEX Sistemi Integrati experience and know-how, gained taking into account operational feedbacks to improve performances, availability and maintenance.

SIR-S is the modular Secondary Surveillance Mode S Radar fully compliant with ICAO and EUROCONTROL recommendations on Elementary and Enhanced Mode S operations.

MXC is the ADS-B Ground Station designed by SELEX Sistemi Integrati, based on the 1090 MHz Mode S Extended Squitter standard.

ADAM is the Multilateration System which provides a high performance and accurate all-weather surveillance for Airport, Terminal Manoeuvring Area and En-Route applications.

WEATHER SURVEILLANCE

SELEX Sistemi Integrati is one of the world leaders in the design, manufacturing and installation of Weather Radar.

METEOR is the family of Weather Radar designed by SELEX Sistemi Integrati, to meet the specific needs of several Customers within the meteorological community, such as long-range surveillance of extreme precipitation in tropical regions, sophisticated weather detection and

warning capabilities and long-range forecast of extreme precipitation and severe thunderstorms.

RAINSCANNER is a Weather Radar dedicated to the measurement and classification of precipitations.

The application software RAINBOW 5 is the most comprehensive state-of-the-art sensor management tool for multi radar network management, data analysis and display, available on the market while the Maintenance and Control Software RAVIS, is the most advanced tool for Weather Radar supervision, the ideal tool set for field engineers and service personnel.

In the Meteorological domain, SELEX Sistemi Integrati takes advantage from the long experience derived from its controlled German Company named SELEX Sistemi Integrati GmbH (formerly Gematronik GmbH).

NAVIGATION AIDS

SELEX Sistemi Integrati designs, manufactures and commissions a complete line of ground-based radio navigation and landing aids, including Category I through II/III Instrument Landing System, Doppler and Conventional VHF Omni-directional Range and High and Low Power Distance Measuring Equipment.

NavAids are available in multiple configurations and with a wide range of features to satisfy the most challenging and diverse operational requirements.

NavAids of SELEX Sistemi Integrati, include:

- MODEL 2100 ILS
- MODEL 2137 Portable ILS Receiver
- MODEL 1150 VOR
- MODEL 1118A/1119A DME



SELEX Sistemi Integrati is also involved in the development and testing of new generation NavAids, Ground Based Augmentation System (GBAS) and Ground Regional Augmentation System, relying on GNSS constellations, currently GPS and GALILEO in the next years.

In the Navigation Aids domain, SELEX Sistemi Integrati is well represented by its North American controlled Company named SELEX Sistemi Integrati Inc. (formerly ASI Inc.).

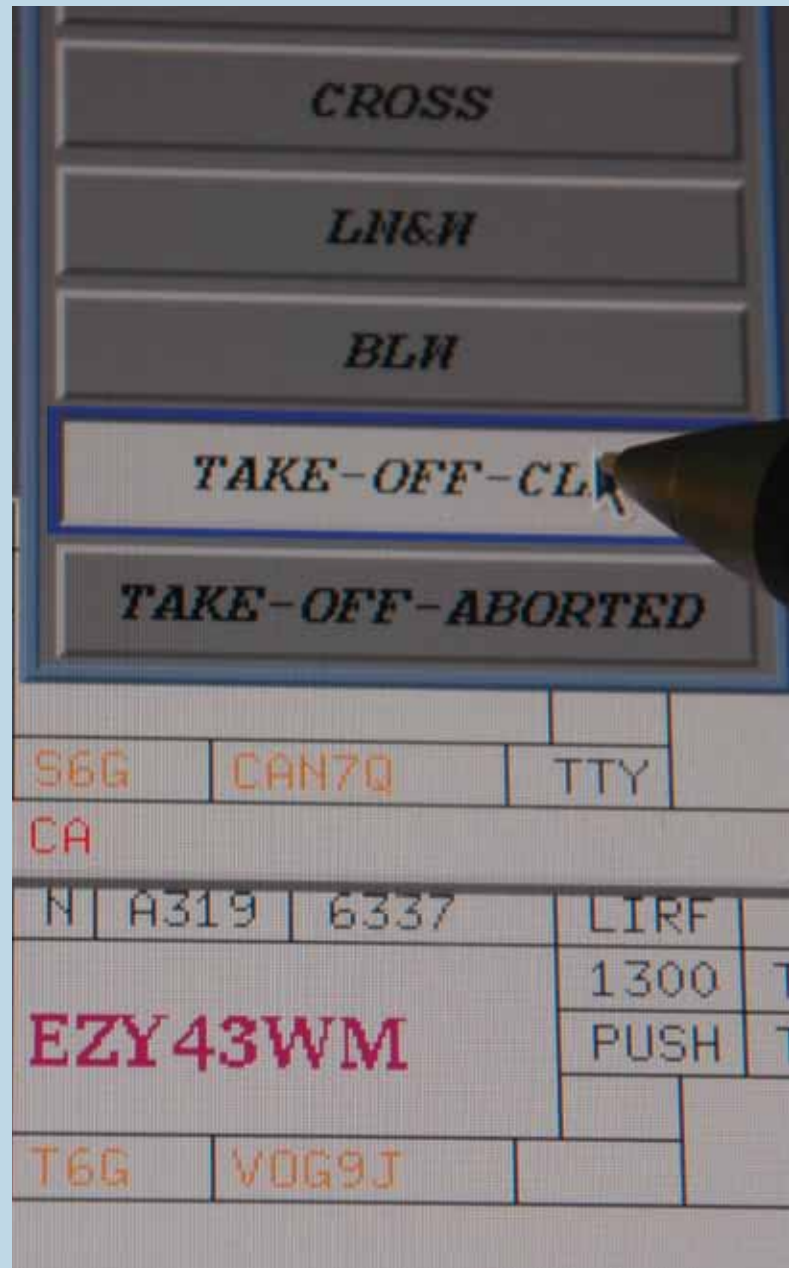
SIMULATION AND TRAINING

In the ATM Simulation and Training domain, SELEX Sistemi Integrati provides ATON, a system of the latest-generation, for the basic and advanced training of the Air Traffic Controllers.

ATON may be provided both as an integral part of the SATCAS System, or in a stand-alone configuration.

All Air Traffic Management functionalities are supported by a wide and flexible configuration, providing:

- En-Route, Approach and Control Tower integrated scenarios
- OLDI full-based Ground to Ground Coordination
- Controller Pilot Data Link Communication (CPDLC)
- Safety Nets
- Control and Monitoring Simulation facilities for Technical Supervision Training



INTERNATIONAL COOPERATIONS

Partnership is a keyword for SELEX Sistemi Integrati. Working together with Customers and Industrial Partners, enables SELEX Sistemi Integrati to design, develop and deploy the most appropriate next generation Systems.

A pioneer example of cooperation with Customers and industrial partners, is COFLIGHT eFDP, a French-Italian-Swiss partnership for the harmonization and interoperability of Flight Data Processing Systems in Europe.

The main objective of COFLIGHT eFDP is to replace the FDPs, which are currently operating in France, Italy and Switzerland, with a new generation of advanced System and no disruption to service through a staged implementation plan. This System, harmonized and interoperable on European scale, will support the Air Traffic Control operations over the next 20 years, for the benefits of all air transport stakeholders.

SELEX Sistemi Integrati is also pioneering the feasibility of the SWIM (System Wide Information Management) concept in Europe by leading SWIM-SUIT, a project of the sixth European Commission Framework Programme, carried out by a Consortium of twenty partners, which aims to demonstrate an initial System Wide Information Management functionality, for the Air Transport System.

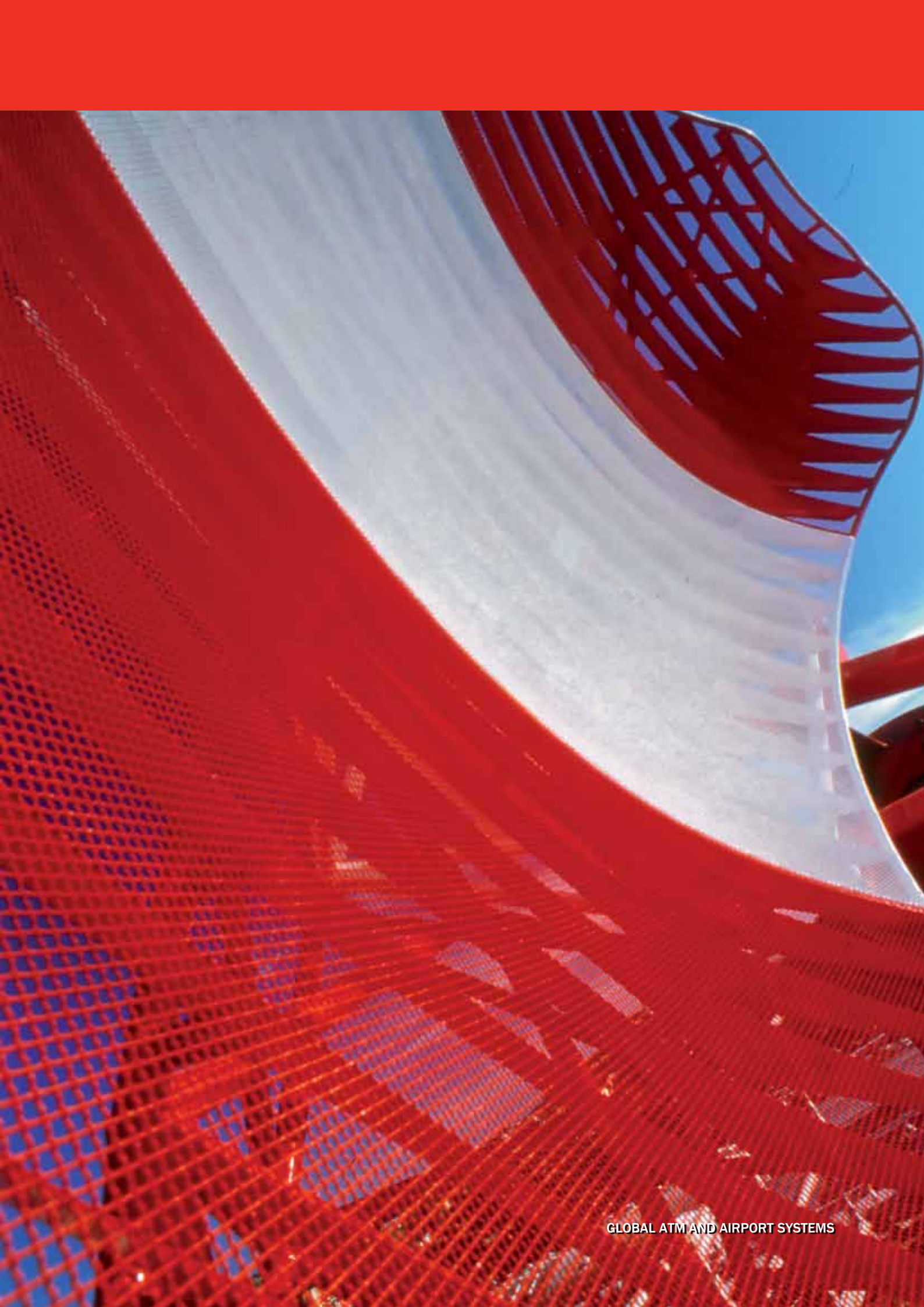
SELEX Sistemi Integrati is supporting EUROCONTROL in several projects and initiatives, by providing its own industrial expertise and validation platforms to facilitate the identification, validation and implementation of short term systems improvements.

SELEX Sistemi Integrati is deeply involved in the SESAR Programme, which has the challenging task to bring Europe towards the European ATM Network, setting the technological basis for the implementation of the Single European Sky.











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