



Innovating the sky



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Innovating the sky



# ENAV Group

Every day we let people fly with reliability and safety.  
We design the sky of the future, investing on people  
and innovation for sustainable air transport and the  
economic growth of Italy

We are among the leading providers in Europe for service excellence and operational performance. Thanks to our **4,200 employees** we manage air traffic guaranteeing safety and punctuality to **million passengers 24/7** and we protect the sky by designing increasingly efficient and sustainable routes.



**Guarantee safety and punctuality**  
for the millions of passengers flying in Italy's skies.



**Contribute to the sustainable growth of**  
national and international air transport based on  
efficiency and innovation.



**Build an increasingly customer-oriented strategy.**



**Techno Sky** is the Group company responsible for managing and maintaining the entire range of hardware/software platforms and systems used to deliver air navigation services.



**IDS AirNav** is a global leader in aeronautical information management systems that develops state-of-the-art software solutions for air traffic management currently adopted by around 100 customers worldwide.



**D-flight** - a company in which ENAV holds 60%, with the remaining 40% held by an industrial partnership headed by Leonardo - is involved implementing a specific management system for unmanned aerial vehicles (UAV), commonly referred to as “drones”, and developing methods for delivering services through a platform designed to ensure the safe handling of remotely piloted aircraft.



**ENAV Asia Pacific** is a Malaysian company based in Kuala Lumpur that provides air traffic control consulting services. The permanent presence of the company in the region is a factor that makes ENAV a reliable partner for all local companies, organisations and institutions.



**Aireon** was formed to develop the world’s first global satellite surveillance system for air traffic control. ENAV - through its subsidiary **ENAV North Atlantic** - holds 11% of the company. Using 75 satellites that make up the new Iridium Next constellation, Aireon provides an aviation surveillance system with global coverage. ENAV is a partner of NAV CANADA, NATS, IAA, Naviair and the satellite communications company Iridium.

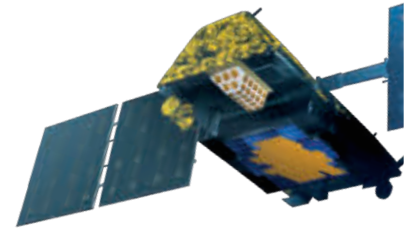


**ESSP** is an ENAV associate (16.7% stake) that provides the EGNOS satellite navigation service. The other shareholders of ESSP along with ENAV are six other major European air navigation service providers: DFS, DGAC-DSNA, ENAIRE, NATS, NAV-Portugal and Skyguide.

A tall, lattice-structured control tower stands against a sunset sky. The tower is illuminated from below, and its top section features a large, rectangular radar or communication array. The sky transitions from a deep blue at the bottom to a warm orange and red at the top. The foreground is dark, suggesting a runway or airfield.

# What we do

From our control towers we manage take-offs, landings and ground movements of aircraft, while from our Area Control Centres we provide assistance to the en-route phase of aircraft flying our airspace.



### / AIR TRAFFIC CONTROL

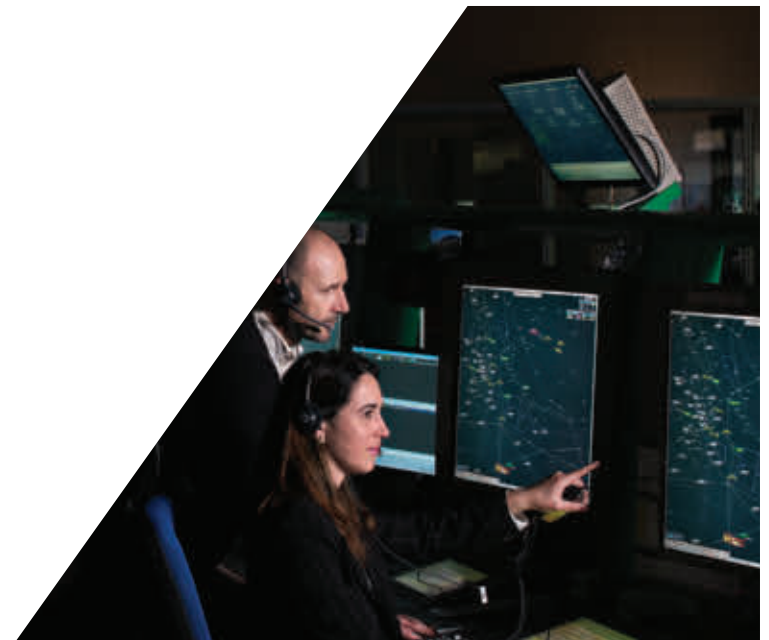
We manage 24 hours a day all flight phases, from the aircraft engine start up to turn-off, guaranteeing safe and efficient routes.

### / AERONAUTICAL INFORMATION

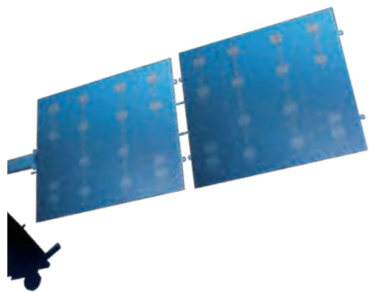
ENAV provides pilots and flight crews with aeronautical Information Services, ensuring full distribution and updates of data throughout Italy.

### / AIRSPACE DESIGN

ENAV manages airspace with innovation and flexibility in line with its customer airlines' needs. Our experts constantly update the navigation system and procedures to harmonize traffic flows through Italian airspace, combining flight safety with sustainability by shortening taxi times and creating optimal routes that enable aircraft to reduce fuel consumption and CO<sub>2</sub> emissions.







## / METEOROLOGY

Our team of meteorologists releases forecasts valid for 9, 24 and 30 hours, while airport weather stations issue hourly or half-hourly reports. Weather reports and forecasts are rebroadcast in real time on international telecoms networks to keep pilots constantly updated on weather conditions.



**9/24/30**  
hours of forecast validity



**60/30**  
minute intervals  
for the issue of bulletins



Wind



Temperature



Humidity



Visibility



Cloud conditions



Precipitation

## / ENGINEERING AND MAINTENANCE

ENAV Group ensures the design, implementation and operations of the technological facilities needed for the provision of air traffic services. Its subsidiary Techno Sky is responsible for the operational management and the software/hardware maintenance of the entire range of systems and equipment used to provide flight assistance services in Italy.

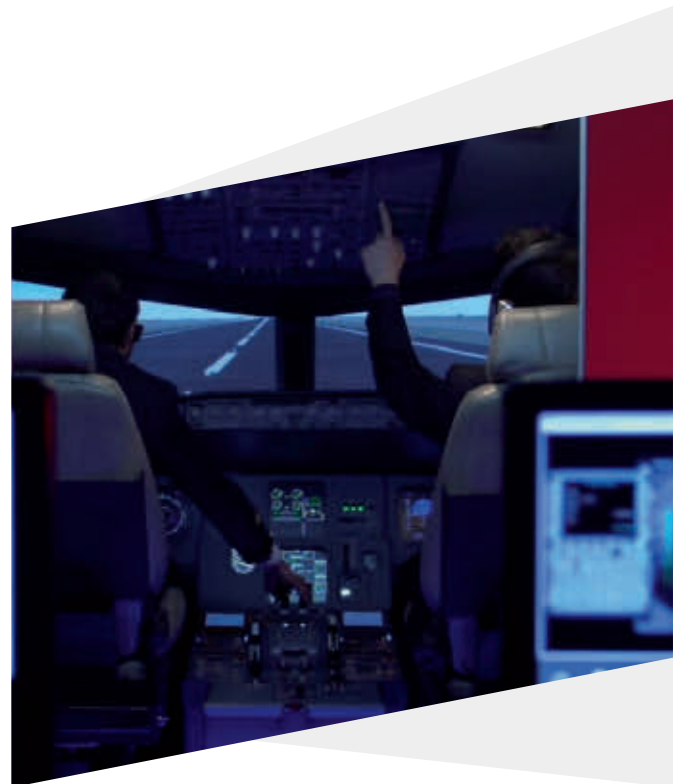


## / FLIGHT INSPECTION & VALIDATION

Radar, VOR, DME, VDF, ILS. These devices, which are essential for air navigation, use electromagnetic signals to provide pilots with information about the horizontal and vertical position of their aircraft.

Continuous validation of the accuracy of radio signals enables air transport operators to fly in complete safety.

Thanks to our pilots and a new fleet of Piaggio Aero P180 Avanti II aircraft equipped with cutting-edge technologies, we fly an average of 1.800 hours a year. Our aircraft enable us to perform in-flight checks without the need for ground equipment, obtaining results in real time and always in compliance with international regulations.



## / SOFTWARE SYSTEMS

In the air traffic control domain, operational software is key to ensure reliability, quality and workflow of processes.

That's why ENAV fellow Group companies, IDS AirNav and Techno Sky, develop complex software solutions to support operations such as analyses, planning and control of traffic fully compliant to international standards and rules. These systems are sold to over 100 countries around the world.

## / RESEARCH AND INNOVATION

We have long been active in the field of research and innovation in the air traffic control sector. These activities are focused on the European level in the SESAR, Single European Sky ATM Research. In close coordination with the European Commission, we participate in numerous projects for the definition and verification of new operational concepts, technologies and systems, in order to improve the capacity and performance of the international flight navigation service system.



## / TRAINING

We are the only company in Italy authorized to select, train and update the various professional profiles operating in the services for civil air traffic control. The ENAV Training Center provides a high level of specialized training, providing both initial training and ongoing updates to personnel, in addition to providing support to instructors and teachers. The ENAV's training offerings are targeted at the professional figures connected with air traffic control, as well as resources requiring training in the flight navigation sector.

## / INTERNATIONAL ACTIVITIES

We are one of the main service providers at European and international level. In Europe, we actively participate in cooperation agreements, partnerships and multilateral programmes; we are an integral part of the initiatives promoted by the European Commission, EASA and EUROCONTROL.

We are also involved in a series of international industrial partnerships, and play a fundamental role in the ICAO (International Civil Aviation Organization) and CANSO (Civil Air Navigation Services Organization).

## / U-SPACE AND DRONES

We manage the platform providing services to fly drones in compliance to European regulations; further, we provide all additional services to attain the sustainable evolution of this ever-growing market. ENAV aims to enable traditional air traffic to coexist with the needs of this new type of traffic, allowing the use of drones for an increasing number of services including public utilities while ensuring maximum safety levels.

1 RADAR SIMULATION ROOM  
(24 STATIONS IN 12 SUITES)

5 3D 270° TOWER SIMULATORS

1 CRJ CERTIFIED FLIGHT SIMULATOR

8 PTT (PART TASK TRAINER) WORKSTATIONS)



## / SERVICES & PRODUCTS:

Know-how and excellence in air traffic management are our calling card. We are a reliable partner for our international customers. Thanks to constant commitment, supported by continuous investments in technological systems, we have achieved significant operational results, becoming a point of reference worldwide.. We have reached 20 additional international clients over the last five years, totally reaching over 100 customers worldwide.

### / SERVICES:

**CONSULTANCY FOR CHANGE  
MANAGEMENT**

**FLIGHT INSPECTION AND VALIDATION**

**TRAINING**

**AERONAUTICAL INFORMATION**

**ENGINEERING & MAINTAINANCE**

**METEOROLOGY**

**AIRSPACE & FLIGHT  
PROCEDURES DESIGN**

**SAFETY ASSESSMENT  
& RISK MANAGEMENT**

**OBSTACLE & ELECTROMAGNETIC  
INTERFERENCES EVALUATIONS**

### / PRODUCTS:

**AIR TRAFFIC FLOW  
MANAGEMENT (ATFM)**

**AIR TRAFFIC MANAGEMENT  
(ATM) & METEO (MET)**

**COMMUNICATION NAVIGATION  
AND SURVEILLANCE (CNS)**

**DIGITAL AERONAUTICAL  
INFORMATION MANAGEMENT  
(D-AIM)**

**FLIGHT PROCEDURE DESIGN &  
VALIDATION**

**UNMANNED AIRCRAFT SYSTEM  
TRAFFIC MANAGEMENT (UTM)**



# Providing ATM solutions and services, Worldwide

Thanks to strong commitment and innovation,  
we are leader in the provision of air navigation services

## / SUSTAINABLE FOR YOU

Sustainability represents our commitment to a cleaner sky and to pursuing a model of development that is ever more inclusive and attentive to future generations. We design shorter and more direct routes to enable aircraft to reduce CO2 emissions. We play an active role in key national and international networks and we will be soon a zero environmental impact company, reducing our direct emissions by more than 80%.







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