



SENASA

NEW REGULATORY FRAMEWORK FOR UAS
SERVICE CATALOGUE 2022

About **SENASA**

“Through our highly qualified professionals and our across-the-board experience in the aeronautics field, we strive to provide innovative solutions and improvements for safety in aviation”

SENASA, as instrumental means of the General State Administration, develops a wide range of activities with the Spanish civil aviation authority and other international authorities, providing integral assistance to their needs, offering a professional and efficient service, and developing specific actions that enable them to reach their expectations. SENASA's scope of activities are developed in different areas: inspection, surveillance, certification, technical standardization, environment, studies and technical assistance.

Latest UAS Legislation Approach

01

INDUSTRY

To promote and encourage UAS manufacturing and operations.

02

OPERATIONS

Expanding the possibilities of UAS in terms of operation categories and available airspace for these.

03

AIRSPACE

Maintain a safe airspace for all persons and aircrafts.

New opportunities

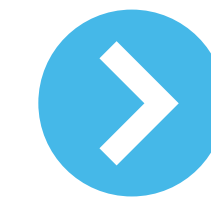
The latest legislation offers UAS operators

- Greater independence and ability to operate.
- Increased number of operation categories.
- Increased use of airspace.

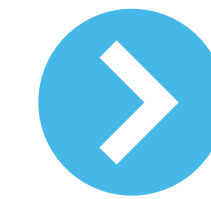


Benefits

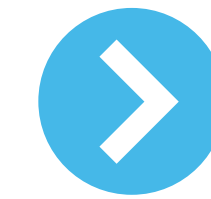
Taking advantage of the new opportunities offered by the regulations make organizations able to achieve greater usability of UAS that can translate to:



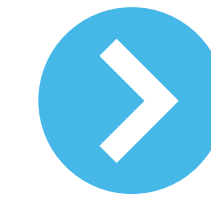
Transportation reduction.



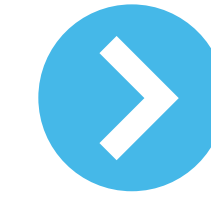
More affordable, fast and environmentally efficient relocations.



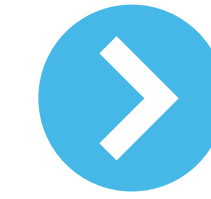
Hazardous tasks removal.



Heavy vehicles transport removal.



Availability of other points of view.



Accessibility improvement: opportunity to get closer to a situation or watch it from a better perspective.

Costs reduction and efficiency improvement

“

The introduction of UAS as a technological element enables the redefinition of business processes

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What do I need to operate?

To begin the operation with UAS, it is necessary to tackle these six aspects within your organization.



Operational:

Establish my UAS operation and obtain the correspondent authorization.

Management:

Introduce aeronautical quality and safety management systems.

Technology:

Get to know the technology or system which best adapts to my needs.

Training:

Get the staff trained about regulation general issues (pilots, maintenance technicians, management and operations personnel, supervisors...).

Maintenance:

Development and implementation of UAS maintenance procedures based on type and operational category.

Documentation:

Management and registration system to keep all the produced aeronautical information.

UAS Range of Scope

SENASA has a wide experience as a leading company in aeronautical training and consultancy for the public sector.

TEAM



Consultancy

Since 2004, we have been providing technical assistance to aviation authorities and other administrations with the aim of air transport improvement. As a support to the Spanish authority, we participate in regulation development and implementation.



Training

Since 1990, we have been a reference in training and technical training, which has been reinforced with our authorization as a UAS pilot school in 2014.



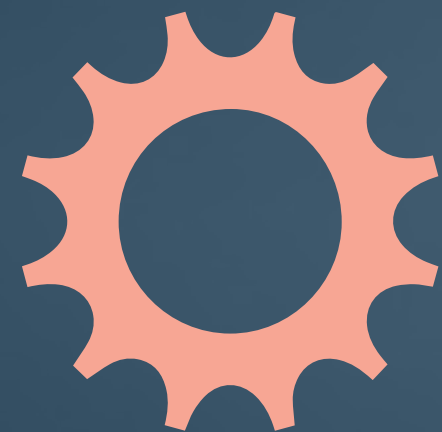
Maintenance

Our maintenance centers are certified as ESA Part 145 with approved aeronautical procedures. We run maintenance works for our own and third-party aircraft.

Services

SENASA is ready to provide a comprehensive UAS service scope to all its customers so that they can take the best of the latest regulatory changes to carry out the activities that fit their needs.

SENASA's services include the necessary issues to provide organizations with the tools that enable them to operate safely and in compliance with the legislation.



OPERATION



MANAGEMENT



TECHNOLOGY



TRAINING



MAINTENANCE



DOCUMENTATION



Operation

UAS operations subject to oversight by AESA

Support and collaboration to obtain authorizations in the “specific” category of UAS operations in “specific” category out of standard scenarios.

Non-EASA civil activities or services carried out with UAS

Consulting to guarantee the regulatory compliance and the safety in the execution off NON-EASA civil flights.

Operations and evaluation of risks planification

Planning of UAS operations based on an operational risk assessment following the SORA methodology.



Management

Implementation of a UAS operator management system

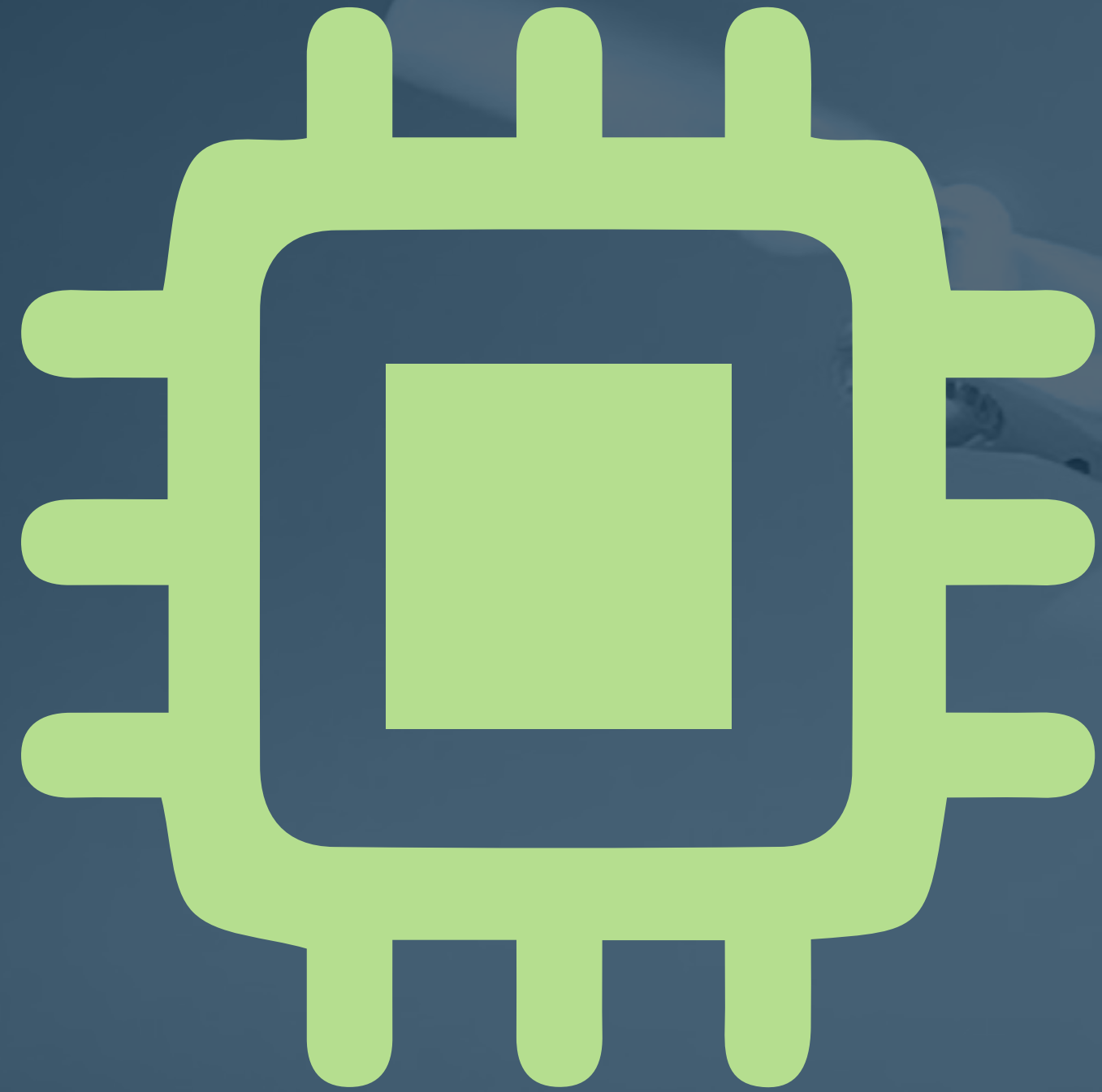
Establishment, implementation, and maintenance of a management system comprising both a safety management system (SMS) and a quality management system to ensure that UAS activities meet regulatory standards, requirements, and procedures.

Obtaining a Light UAS operator Certificate (LUC)

Support and advice on how to obtain the certificate in accordance with the requirements in Part C of the EU Regulation 2019/947 to obtain the authority to approve their own operations.

Supervision, audits, and inspections system

Development, implementation, and maintenance of a supervision system based on the nature and the risk of the UAS operations, as well as on audits program.



Technology

Technology advice on the purchase of UAS

- Analysis of the operation technical needs.
- Alternatives study.
- Advice in the election of alternatives.
- Purchase supervision.



Training

Remote pilot training for UAS operations in the “open” and “specific” categories (Theoretical and practical).

- Competency for remote pilots in the “open” category, subcategory A2.
- Competency for remote pilots in the “specific” category.

Internal UAS training

- -European Parliament and Council Regulation (EU) 2018/1139.
- Commission Regulation (EU) 2019/947.
- Commission Delegated Regulation (EU) 2019/945.
- Draft Royal Decree completing the legal regime for civil use of unmanned aircraft systems.

Internal UAS operations

- Knowledge of and adhesion to operational procedures.
- Knowledge and adhesion of operation risk assessments based on the SORA methodology.
- Updated SORA methodology for upcoming BVLOS operations in populated areas or over crowded areas in the “specific” category of UAS operations based on modifications proposed through JARUS and EASA as well.



Maintenance

UAS maintenance

SENASA has specific facilities resources to carry out all preventive and corrective maintenance activities. These facilities include workshops, technical, and administrative resources.

Training for UAS maintenance

SENASA provides UAS maintenance personnel with the necessary knowledge to perform their tasks correctly and efficiently, including inspections and routine works, according to the maintenance procedures and instructions for fixed or rotary wing UAS.



Documentation

Support in the development and maintenance of the Aeronautical Documentation

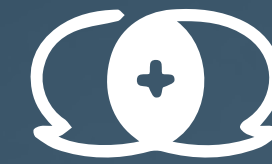
- Documentation related to the planification of operations and to the evaluation of operational risk.
- Documentation related to the operational procedures.
- Documentation related to the maintenance of UAS.
- Remote pilot flight logs.
- Coordination protocols with air traffic control service providers, aerodrome managers and those responsible for other facilities or infrastructures, in accordance with the procedures published in each UAS geographical area.

U-space *A look into the future*

From **SENASA**, we are clear that U-space is the answer at European level to the growing demand for UAS operations that arises to facilitate the most complex UAS operations, such as those performed beyond the visual range of the pilot (BVLOS), autonomous operations or the future Urban Air Mobility.

This new form of airspace organization will further expand and optimize the operational capabilities of UAS, giving greater responsibilities to the various players in the sector.

SENASA participates in the development of this new operational structure and makes available to any interested entity different services so that they can adapt to this future reality:



Consultancy

Support in the decision making about operations, technologies, risks, responsibilities... with greater anticipation for the optimization of the resources.



Training

Training course for U-space executive staff and framework management personnel:

- Regulatory framework.
- Foundational elements.
- Ongoing regulatory developments based on the implementation.
- "Certified" category of UAS operations.

