

Company Profile

Airport Safety



Company

Gis Design
S.r.l.

Gis Design is a well-established company that has over 15 years of experience in supporting airport authorities in airport safety, ensuring compliance with standards, high-quality certification (ISO 9001:2015) and technological innovation.

Headquarters - Italy:

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Managing Directors:

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Experience: Since 2002

Employees: > 10

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The core competencies of Gis Design are around aerodrome and obstacles maps. The company provides a wide range of specialized services, such as potential air navigation obstacles identification, aerodrome chart type “A” and “B” elaboration and specific operating procedures using 3D Geographic Information System.

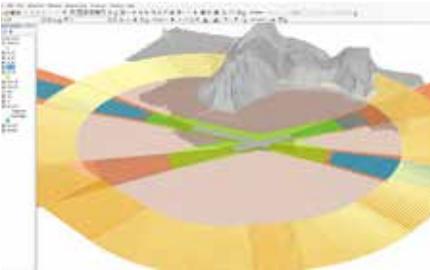
Gis Design has accomplished the **census and monitoring activity of air navigation obstacles** and has elaborated the constraint map for some of **the most important national Italian airports**, supporting the airport manager into an entire procedural iter until approval.

Moreover, through the use of 3D Geographic Information System, specialized software specifically made by the company and specific operating procedures (as high output cartographic selective restitution), **Gis Design is able to satisfy numerous necessities in the field of airport safety, according to ICAO, EASA, national standards**

Last but not least, Gis Design develops custom software solutions for the aviation industry, such as ALBATROS, aiming for instance airports to manage complex safety-related information, according to the evolution of future technologies.



Services



Generation of Obstacle Delimitation and Identification Surfaces (compliant with EASA CS-ADR-DSN).



Census of air navigation obstacles within the areas under jurisdiction of the airport manager (compliant with EASA Decision AMC & GM for Aerodromes) **and realisation of obstacles monographs.**





Implementation of the Electronic Terrain and Obstacles Data eTOD, compliant with EASA Decision AMC & GM for Aerodromes and Terrain and Obstacles Data Manual of Eurocontrol, **through the 3D Geographic Information System** structuring for the air navigation obstacles representation and management.



Monitoring obstacles marking and lighting system (Reg. UE 139/2014 Surroundings), even in real-time with fault detection automatic systems.



Services



Aerodrome chart type “A” and “B”, constraint and obstacles delimitation maps elaboration.



Potential air navigation obstacles identification with high-precision GPS surveys, satellite images, aerial photogrammetric survey and numerical cartography, LiDAR mapping campaign and DTM and DSM digital model creation.





Monitoring areas around the aerodrome (Surrounding), under Regulation (UE) n. 139/2014 (EASA ADR.OPS.B.075); obstacles and the possibility of induced turbulence; the use of hazardous lights; the dazzling caused by large and highly reflective surfaces; sources of non-visible radiation; non-aeronautical ground light near an aerodrome which may endanger the safety of aircraft, etc.



Monitoring Wildlife strike hazard (EASA ADR. OPS.B.020) through the use of satellite images and GIS implementation.



Software



Albatros

Airport Limitation of Objects Altitude:
Topographic Recognition of Obstacle System





Gis Design has recently developed an **advanced and innovative monitoring and advising technique that identifies potential air navigation obstacles by using live satellite images.**

Particularly, it provides a **response system that notifies the specialists of the presence of a new territorial element** (a tree, a crane, a trellis, a building, etc.) that may represent a potential obstacle.

The methodology, offered **to the managers with real-time, monthly, quarterly, biannual, or annual**, monitoring frequencies, **enables the manager to completely fulfill the in force EASA rules**, in relation to the communication and sharing of the data concerning the obstacles.

For such purposes, the company has created and developed the **ALBATROS application**, an expansion of the GIS (Geographic Information System) software, also working in Open-Source, that **allows the management of existing obstacles, in addition to the possibility to identify new ones by means of three-dimensional analysis made by the software itself.**



Gis Design has conducted over 30 projects, commissioned by both private and public clients of all sizes.

Airports aiming for more safety in air navigation and for a better management of compliance to applicable regulations.

Civil Aviation Authorities requiring consulting, providing specialistic software and training in aviation services.

Civil Engineering Companies looking for a partner with in-depth aviation expertise.





Clients



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