CGX provides services in the field of aeronautical information: on site data gathering and ground surveys, aeronautical studies (from aerodromes to flight trajectories, etc.), instrument flight procedure design and aeronautical charting.

Aeronautical Services

Aero ►►

CGX

Aeronautical Services

CGX

CGX provides services in data survey, eTOD, auditing, training, support and consultancy in the domains mentioned above.

Studies

> Instrument flight procedures operations:
- Airplanes and/or helicopters
- Complete or partial conventional procedures, RNAV/GNSS, RNP, RNP-AR.
- Studies and trajectory efficiency.
- Assistance on decision making over the location of a NAVAID or ground installations, extension of a runway, etc.

> Aerodromes operations

Aeronautical Charting

> Chart production - aeronautical cartographers work with our own expert tools to produce the aeronautical charts required by ICAO Annex 4. Charts are produced according to the ICAO format, the national AIP, or custom format if required.

> Specific cartographical manual - based on ICAO regulations and on different national published AIP, cartographical specifications handbooks. These handbooks present all the requirements cartographers must comply with to produce their national charts.

> Chart migration capable of migrating charts from outdated systems to current data driven GIS based systems.

> eAIP: CGX team acts at every step of aeronautical information production chain, from flight procedure design, including impact studies, AIP update and the publication on a dedicated and secured website.

Data Gathering

> Numerical Terrain Data - aeronautical studies from surveyed ground data complying with ICAO recommendations. The SPOT DEM data sets are specifically sized and realized for the study that needs to be carried out.

> CGX supplies electronic terrain obstacle data bases in compliance with ICAO Annex 15 (eTOD). CGX adapts its methodology according to local and specific constraint and can provide data based on satellite observations or LIDAR.

> Obstacle Survey - collection and interpretation of ground sets for obstacle and terrain surveys related to any airport. CGX can operate directly on the ground in order to verify, complete, create or update any airport obstacle data sets.

> Aeronautical Data - CGX surveys, calculates gathers, verifies and completes all required aeronautical data from those issued from the published AIP or those directly collected from the site ground: coordinates and elevations of runways and NAVAIDs, distances, magnetic variations, temperatures, wind, and more.

> Topographical Survey Report - providing full reports on the land surveys that are realized including technical notes, explanations, charts and identification sheet of surveyed points, along with photographs.
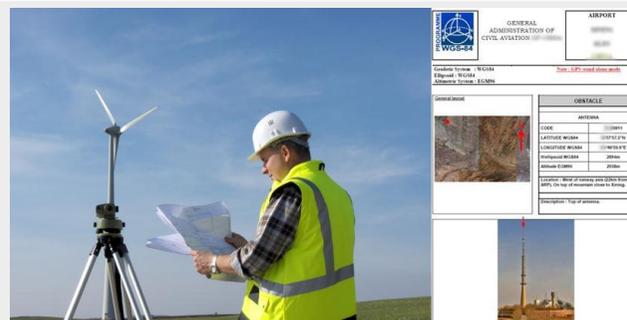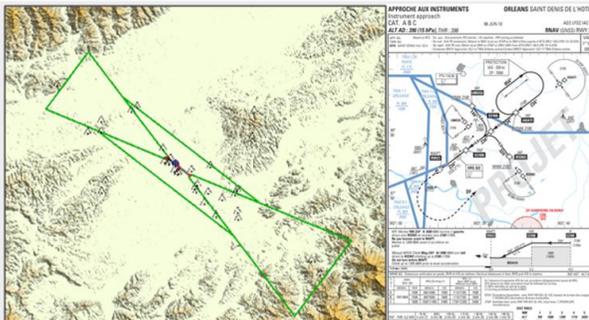
Wind Turbine Development

> CGX provides assistance to wind Turbine Company by evaluating the available elevation around the airport, based on the existing aeronautical constraints.

> CGX can also evaluate the modification of the existing procedures to allow the building of wind turbines or wind farms, based on fight security and regulation requirements.

Database Skills

> CGX is able to integrate collected data and/or survey data into the customer's database. It can also provide an AIXM file collecting all the data. Utilizing in-house expertise allows CGX to leverage database systems such as CGX Data4Flight®, THALES' GDM/TDM, and/or Esri's ArcGIS Server for complete data integration and interoperability with AIXM.

ARINC Coding

> CGX can provide ARINC coding of studied procedures. This coding allows the data integrator to provide aircraft FMS with appropriate coding to fly such procedures.

Speak with a product specialist

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