The worldwide increased use of helicopters over the past decade, either for emergency services, commercial air transport, private and business aviation, oil & gas, aerial work, military and so forth, has resulted in a more structured operational framework. This helicopter activities intensification has given priority to several issues: the need of safer and more reliable landing locations, regulatory compliance, environmental matters, among others. CGX can provide you with high quality services for your Heliport Design.

HELIPORT DESIGN

Expertise and Innovation for Heliports
Engineering and design solutions: Heliport Design

Our team designs, audits and optimizes heliports facilities, in compliance with the applicable regulations (international, European and/or national regulations requirements, i.e. ICAO, EASA, and local regulations). Our experts provide efficient and reliable technical support in:

- Design of new runways type FATO, surface-level heliports, elevated heliports, helidecks
- Helicopter stands, taxiways and taxi-routes design
- Obstacle Assessment and Survey
- Operational analyses for heliports impacted by obstacles
- Optimization and rehabilitation of heliports
- Regulatory compliance audits according to ICAO regulations

Environmental approach

CGX offers its support evaluating environmental considerations for heliports construction or rehabilitation:

- Considerations of environmental aspects in heliport in design
- Noise assessments

Planning and strategic studies for Heliports

Our team offers its experience developing helicopter air transport strategies for:

- Emergency medical services
- Firefighting

Training

CGX proposes specialized and customized trainings including:

- ICAO Annex 14 Airfield and heliport design (i.e. regulations overview, heliports design, obstacle assessment, visual aids, heliport design oriented to emergency medical services)

Instrument Flight Rules Procedure Design for Helicopters

CGX was involved in the first Instrument Flight Rules trajectories research project held in France in 2008 and called HTT. The results of this experimentation were presented to the ICAO IFPP and were used to define the ICAO basis for Helicopter IFPD.

During the past years, CGX achieved several projects of Instrument flight Procedure Design for Helicopter and especially over Hospital platforms with network connection between the different helipads.

P4F®- Path4Flight Project

"P4F" is a ground / on board solution providing automatic & optimized flight path for helicopters for mission preparation and operations. Based on an innovative Artificial Intelligence, P4F helps pilots proposing secured trajectories merging aeronautical, geographical, operational databases with high-resolution weather hazards.

P4F trajectories are coupled with an on-board electronic flight plan management tool ensuring traceability of mission preparation and execution. Flight plans are also available at a supervision level for the company with a dedicated and customizable dashboard ensuring flight analysis/replay, statistics and continuous Safety Management System operations. Dedicated to mission preparation and operations, P4F provides a “Real Time” monitoring and updates notifications for pilots.

"P4F" is a research project and will be available in the market at the beginning of 2018.