



---

## For immediate release

26 February 2010,

### Support to the definition and implementation of green procedures for rotorcraft

Elaborating and implementing eco-friendly initiatives and research programmes has never been so high on the agenda of the aviation industry stakeholders. Working towards greener skies, the European Commission has created jointly with the aviation industry the CleanSky Joint Undertaking to develop technologies aiming to mitigate the impact of air transport on the environment.

At the same time, the demand for rotorcraft operations is expected to grow in Europe especially for medical and passenger transport. Increasing rotorcraft operations should thus take care of environmental impact as well as developing specific procedures not interfering with existing aircraft traffic at airports. In this context, Global Navigation Satellite System (GNSS) guidance is a key solution as it enables accurate navigation capability on isolated platforms and steep approaches with reduced noise footprint.

One of the initiatives launched by CleanSky JU in this perspective is the GARDEN project. In the aim to obtain additional expertise and support in this framework, CleanSky JU selected through a Call for Proposals process an ad-hoc consortium of experts led by Egis Avia and gathering the French Direction Générale de l'Aviation Civile, Pildo Consulting, and CGX AEROinSYS.

The project consists in developing new flight procedures based on the use of GNSS and enabling rotorcraft to reach busy airports fully independently of the airplane traffic operating from or to active runways. A strong coordination with CleanSky Green Rotorcraft Integrated Technology Demonstrator (GRC-ITD) will allow the design of procedures based on low-noise flight paths.

The objectives that will be achieved in the frame of this project are to:

- ⊙ identify and analyse the existing regulation for helicopter operations based on GNSS;
- ⊙ design new Instrument Flight Rules (IFR) operations using GNSS with the related safety assessment;
- ⊙ define generic IFR procedures for European platforms and airports allowing rotorcraft to fly trajectories without interfering with aircraft traffic flows and minimising noise footprint;
- ⊙ perform in-flight demonstrations at a busy airport (Toulouse) and at an heliport in a constraining environment (Andorra);
- ⊙ provide experts contributions to support CleanSky Green Rotorcraft ITD in the frame of the Environment-Friendly Flight Path (EFFP) project to develop and test new rotorcraft-specific flight procedures.

Gathering a large diversity of skills through a major Air Navigation Service Provider, a National Regulator, two specialised engineering companies and procedure designers, the consortium led by Egis Avia will help making the required breakthrough a reality.



### About Egis

Subsidiary of the Caisse des Dépôts Group, Egis, with a workforce of 7,300 worldwide, is an engineering and consulting firm specialised in the construction of transport systems and infrastructures, local and territorial development, water and the environment. Egis is also involved in project development and road and airport operations.

With a workforce of 7,300 worldwide and an estimated turnover of €550m in 2009, it is active in more than 90 countries and has some 50 entities in France.

In 2009, Egis announced the creation of an alliance with Iosis, specialised in building and civil nuclear engineering, to launch a new global engineering offer to their French and international clients. Both groups form now the French leader in construction engineering.

The alliance between the two groups results in the deployment of a joint industrial and commercial strategy. It is underpinned by Egis' acquisition of a 34% stake in the capital of Iosis Holding.

The new entity can rely on a strong base of 8,400 employees, including 5,500 engineers, and should benefit from a turnover in excess of €700m in 2009.

For more information, visit [www.egis-group.com](http://www.egis-group.com)

### About Egis Avia

Thanks to a 40-year experience in a demanding sector, Egis Avia is today a key expert in the Civil Aviation industry. Egis Avia offers a multifaceted expertise covering all aspects of airport, air operations and air traffic management activities. With a current workforce of 194 employees and a 28.6M€ annual turnover in 2008 Egis Avia has been, since its creation in 1969, successfully managing more than 1000 projects in 140 countries.

Egis Avia provides research and technology, consulting and engineering services, operations and turnkey solutions adapted to each client's business needs. With its unique position on the market, Egis Avia provides bespoke solutions aiming at increasing operations safety and efficiency, the compliance with international regulation and offering an optimum use of advanced technologies.

For more information, visit [www.egis-avia.fr](http://www.egis-avia.fr)

### About Direction Générale de l'Aviation Civile

The Direction générale de l'Aviation civile (DGAC) is the French Civil Aviation Authority responsible for safety and security in air transport, with a declared commitment to sustainable development.

DGAC plays a central role in the world of French air transport. The Authority ensures the safety and security of air traffic, takes actions to prevent all forms of pollution and regulates the air transport market. As an Air Navigation Service Provider, the Authority also supervises air transport personnel training and is a consulting partner for French industry and operators.

### About CGx AERO in SYS

Since 1996 CGx AERO in SYS has been developing, marketing and integrating worldwide (+25 countries) aeronautical information systems and services with geographical expert added value.

In-house domains of expertise are geodesy, procedure design (GéoTITAN® + studies – CONV, RNAV, RNP-AR – in partnership with ENAC and QUOVADIS, an Airbus Subsidiary), aeronautical charting, 3D, aeronautical (AIXM, ARINC, DAFIF, etc.) and geographical (DTM, Rasters, Vectors) data management, airports (mobiles and surfaces management). CGx AERO in SYS is an active member of the Aerospace Valley GAIA project (interoperable Simulation platform) and an ESRI Advanced Business Partner with large investments in R&D.

More information about this company can be found at [www.aeroinsys.com](http://www.aeroinsys.com)



## About Pildo Labs

Founded in 2001 and based in Barcelona (Spain), Pildo Labs has been committed to providing the highest level of excellence in systems and software engineering and offers solutions and proprietary products to the following sectors: Aerospace, Critical Software & Systems, and Science, Technology Dissemination & Education. Pildo Labs delivers services as a consultancy, as basic engineering or as key-in-hand, fully operative systems, and is active in all phases of development (from conception to maintenance). Pildo Labs plays a key role in GNSS for aviation in Europe, especially in the validation phase, thanks to its independence and technical solvency to implement the most convenient solutions with no other conditions other than the full satisfaction of the final user. Pildo Labs has been awarded with several national and international prizes and distinction acknowledges for innovation, quality and engineering excellence ("Most promising company of Barcelona by the Diputació de Barcelona- 2004", "Most innovative company of year 2005 by Barcelona Activa, One of the "The 10 best Corporate Social Responsibility models in Spain", by ESADE Business School- 2007) Pildo Labs is organized in three departments (R&D+I, Solutions and Technology Transfer) . The high interaction between the fields of expertise is one of the main added values of the company.

More information about this company can be found at [www.pildo.com](http://www.pildo.com)

---

## Press contacts

### Egis

Isabelle Bourguet  
Communication Director  
Tel. : +33 (0)1 30 48 44 17  
Email: [isabelle.bourquet@egis.fr](mailto:isabelle.bourquet@egis.fr)

### Egis Avia

Ivanna Girard  
Marketing & Communication Assistant  
Tel.: +33 (0)5 62 24 56 00  
Email: [ivanna.girard@egis.fr](mailto:ivanna.girard@egis.fr)

### DGAC

François Grémy  
Head of Programme – Procedures national coordinator  
Division Etudes et Développements  
Tel: +33 5 57 92 57 82  
Email: [francois.gremy@aviation-civile.gouv.fr](mailto:francois.gremy@aviation-civile.gouv.fr)

### Pildo Labs

Fernando Nuñez  
General Manager  
Tel: +33 931 82 88 40  
Email: [fernando.nunez@pildo.com](mailto:fernando.nunez@pildo.com)

### CGx AERO in SYS

Marc Chiesa  
Chief Executive Officer  
+33 (0)5 63 73 50 87  
Email: [contactus@aeroinsys.com](mailto:contactus@aeroinsys.com)