

January - March 2013



# Quality assessment in power line maintenance inspection [PLMI]



# Exhibitions

Once again Albatroz Engineering will be present at two major exhibitions.

## 50th International Paris Air Show - Le Bourget, 17<sup>th</sup> - 23<sup>rd</sup> June

The International Paris Air Show is one of the largest worldwide happenings dedicated to the aviation and space industry. Is the most significant event of the Aerospace sector in France which takes place every two years, being the next edition of 17 to 23 June 2013.

Albatroz Engineering will be part of Portugal Pavilion organised by aicep Portugal Global (Trade & Investment Agency).

Payload solutions designed for 3D model generation with Video textures will be on display and innovative vehicles for power line maintenance inspections will be introduced.

<http://www.paris-air-show.com>

## CIREC 2013, 10<sup>th</sup> - 13<sup>th</sup> June

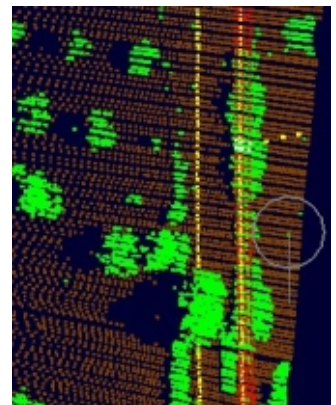
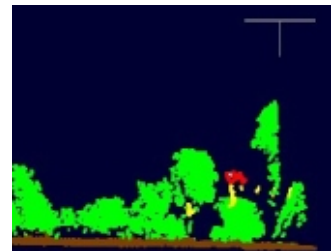
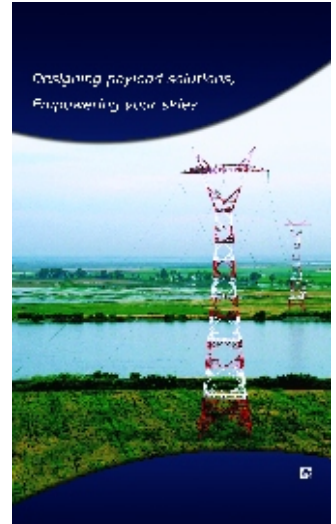
CIREC is the greatest International Electricity Conference & Exhibition. It is the leading Forum where the Electricity Distribution Community meets every two years at several locations in Europe, with a global perspective and participation and in 2013 the exhibition will take place in Stockholm, at the Kistamässan in Kista.

*“CIREC is dedicated to the design, construction and operation of public distribution systems and of large installations using electrical energy in industry, services and transport”*

( <https://connect.innovateuk.org/web/cired-2013>).

During this 4 days Albatroz Engineering will exhibit their solutions in the field of Aeronautics and Electronic engineering, in response to the challenges and issues facing electricity today and in the future, with a focus on Medium Voltage over-head line inspection.

<http://www.cired2013.org>



MV line clearance (right-of-way) inspection

**January**

# CHAPLIN Project

In December 2012 it was formally given the kick-off of CHAPLIN project, a project funded by the European Commission under the 7<sup>th</sup> Framework Programme (FP7). The overall aim of CHAPLIN is to develop and demonstrate an integrated technology solution for the efficient and cost-effective inspection of high power overhead transmission line cables.

CHAPLIN will develop a non-destructive testing (NDT) technique, integrated with other technologies, in order to provide an automated condition monitoring system to gather quantitative information about the presence of defects in high power transmission line cables. The proposed NDT technique for this project is Long Range Ultrasonic Testing (LRUT). This technology will allow inspection of the full volumetric cross section area of a cable for many metres with minimum number of points of access. LRUT will inspect the cable for defects/corrosion, identifying the presence and the location of the defect (including areas where accessibility is an issue).

Albatroz Engineering is part of this project as an SME, representing and taking the role of the end customer, the Transmission System Operators. It will be able to commercially explore the end product, CHAPLIN sensor, at the end of the project.

**<http://chaplin-project.eu/>**



**February**

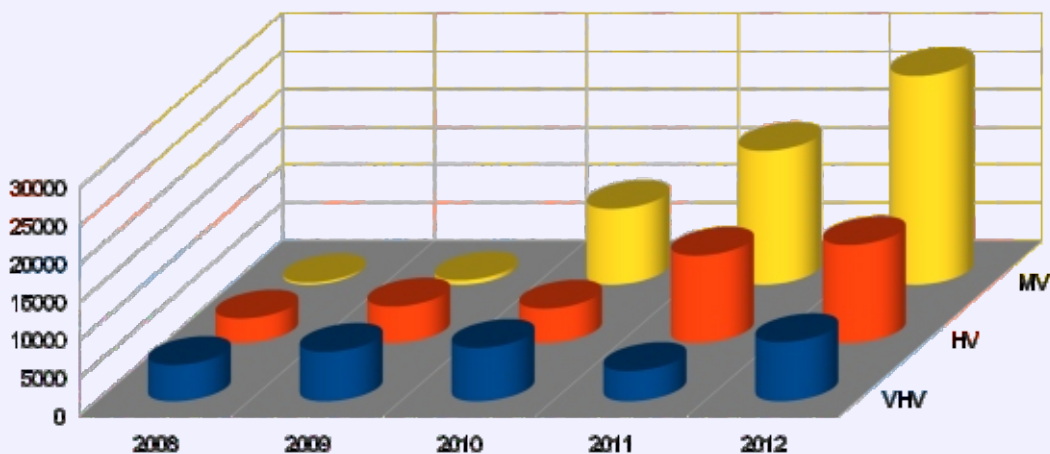
## With 125000km experience on LiDAR inspection ...

Bucking the current economic conjuncture, Albatroz Engineering has been increasing its workload.

The company closed the year 2012 with the total of 125 000 km of overhead line inspected, which corresponds to an increase of 45% over the previous year. Of all the overhead line inspected in 2012, 57% correspond to medium voltage lines (MV, below 50kV), 27% correspond to high voltage lines (HV) and 16% correspond to Very High Voltage lines (VHV, above 100kV).

This increased workload contributed to the growth of the Albatroz team, that almost doubled in the previous year, which in turn contributed to the opening of the second office and a second system was deployed in France with AirTouraine Hélicoptère for ERDF (see photo on the cover page).

To allow the company to continue to grow healthily Albatroz Engineering has a new goal, the internationalization of its products in new markets, while continues to explore the area of aeronautical engineering.



*lines inspected in the last five years [km]*

**ALBATROZ Engineering**  
[www.albatroz-eng.com](http://www.albatroz-eng.com)

Research, Development and Innovation

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