

PROJECT PROFILE

Acronym Project #		CICADE 2004_CICADE		Project Title: "CICADE": Aerial photography & LiDAR Services								
Name of Legal Entity		Country	Project value [million €]	Carried by EPSILON [%]	Staff Provided [#]	Name of Client	Origin of Funding	Date [start/end]	Partners			
EPSILON		GREECE	1,0	100%	6	Self Investment	EPSILON	01.01.2004 Continuous	CICAD (BE)			
Project Description							Type of Services					
 The EPSILON-CICADE joint venture bases its operations on the production of mapping data, from the aerial photographs to the processing and provision of that data. The aerial photographs are digitalised and are converted into an indexed database. Access to this database allows the production of orthophotos, i.e. a vertical aerial colour (OK) photograph geometrically and geographically corrected to be super imposed on a plan (that is, a document which can be measured). Rectified images preserve all the detail of the aerial photo and form the basis for a complete GIS. The image produced has an exceptional accuracy of 15 cm/pixel (each pixel represent 15 cm on the ground). The JV operates with its own planes, fully equipped with the most specialised aerial photographic technology. All technologies, call for the most highly developed systems, all of which have been fully adopted for the most efficient production of these maps. Each stage of the process, from the taking of the aerial view to the implementation of the resulting data, is in constant evolution, in order to keep-up with the increasing technological changes in the industry. The development of data processing in conjunction with geographical information has opened the way to a much larger number of GIS platforms. The simplification and generalisation of these which began several years ago through Local Authorities and businesses of all size, has now emerged and developed because of the growing need for geographical data. One of the main aspects of our activity is the continual updating of the data. Indeed, these photographs become obsolete within a few years, and our clients often ask for a new production within a horizon of 3-5 years. Selected features of products & services offered: Large scale territorial aerial survey mapping; Aerial photography (2 aircrafts with the latest technology on board, Analogue camera, Digital camera DIMAC); Very high quality digitalized map; Digitally enhanced aerial orthophoto maps (aero triangulation, interior exterior orientation, DTM generation, orthorectification, mosaicing); Photogrammetry; Digitally enhanced topographic map; LIDAR (Airborne laser scanner); Digital modular aerial camera (D.M.A.C) equipped with F.M.C technology; Photos compiled on CD ROMS; and other.							 			Reference - PPNC - BELGIUM Ministry of the Walloon Region - coverage to date: more than 10.000 Km2 - Orthophotoplans of the Walloon region territory; 1994-2000. - S.N.C.B. -Belgium National Railways - coverage: 1.000 Km Precision photogrammetric surveys for the main Belgian railway trucks. Yearly. - Brussels South airport Photogrammic survey and obstacles for the project of the renovation of the airport. 2000. - I.F.N. – FANCE National Forest inventory - coverage to date: more than 50.000 Km2 infrared aerial photography for several French departments - 1998 to 2000. - E.D.F. - French Electricity Company. Orthophotoplans and DTM for the Vectors region concerning a study for the fitting of electrical lines and equipments - 1998. - I.G.N. - National Institute of Geography Colour scanning of more than 6000 pictures. 1999 - 2002. - ONIC - National office for cereals (linked to EU) for crops control in France - coverage: 40.000 km2 Aerial photography and infrared orthophotoplan - 2002. - SGAR - Picardy Region in France - coverage: 10.000 Km2 Aerial Photography and colour scanning-2002 - ISTAR - Private company specialised in telephone facility equipment in France B/W scanning of 5.DW pictures-1998 - Aerial photographs of 35 Tunisian cities (scale 1/10000) for BETBEL in 2002		

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