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DESARROLLO DE PROCESOS FLEXIBLES Y AVANZADOS DE FABRICACIÓN DE ENGRANAJES DE ALTAS PRESTACIONES Y RESPONSABILIDAD (ENNGRANA) REF: IPT-2011-0711-02000

The Enhanced Gear Drives Research Group (GITAE) of Universidad Politécnica de Cartagena (UPCT), in partnership with the Universidad del País Vasco (UPV/EHU) and the companies DESARROLLOS MECANICOS DE PRECISION SL, ZEHATZ SL, EGILE INNOVATIVE SOLUTIONS A.I.E., and FUNDACION CIDETEC, all located in País Vasco region (Spain), have been involved in the development of the project entitled “Development of Flexible and Advanced Manufacturing Processes of Advanced Gear Drives – ENNGRANA”, with reference IPT-2011-0711-020000, financially supported within the program INNPACTO of the Ministry of Economy, Industry, and Competitiveness and partially funded by the European Regional Development Fund (FEDER), with a global budget of more than 4.7 M€, of which 219.451,30 € have supported the research activity of the GITAE research group at UPCT.

The project has lasted three and a half years (July 2011 – December 2014) and has addressed a new concept of flexible and advanced gear manufacturing with a high technological content and responsibility, which is meant to be a starting point for the consolidation of a Spanish center of design and manufacturing of advanced gears.

The main goal of the funding program INNPACTO of the Ministry of Economy, Industry and Competitiveness has been to support the creation of joint I+D projects between research institutions and companies to promote innovation, private investment in technology, job creation, and improve the overall technological position of the country.

The project has allowed GITAE research group to provide an enormous push towards the development of a gear design software denominated IGD, Integrated Gear Design, for the analysis and design of advanced gear drives.