



CONTACT

## INTELLIGENT, FLEXIBLE AND SAFE ROBOT FOR THE MANUFACTURING OF METAL AND COMPOSITE PARTS

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Years

7

Countries

16

Partners

## WELCOME FROM THE PROJECT SCIENTIFIC COORDINATOR

*Asier Barrios*

I am Asier Barrios, COROMA's Scientific Coordinator. I am very excited to work in this project where the knowledge and experience of both, robotics and manufacturing industry, are combined.

I've been involved in manufacturing R&D projects for more than 12 years at IK4-IDEKO. IK4-IDEKO is, a Spanish private Research Center founded in 1986 and specialized in manufacturing technologies. Certified by the wide 30 years experience, IK4-IDEKO has been very active during the last 20 years in **European Projects, participating in more than 50 collaboration projects** and coordinating around 20 of them.

The objective of COROMA project is to **develop a cognitively enhanced robot** that can perform multiple manufacturing operations in order to provide more **flexibility and competitiveness** to the **European manufacturing industry**.

As project coordinators, we will take care of the project management aspects during the next three years, and besides that, we will be working on the technical development of improved robot assistant of milling and drilling operations in metal and composites parts and as well as Non Destructive testing.

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## INTERVIEW TO PARTNERS:

Ester Porras

### *Ester Porras, from Aciturri, talks about the importance of COROMA's results on Aerospace Industry*

Aeronautical is a very conservative Industry which is related with manufacturing security reasons that are around the parts. This is so that even today there are many handmade operations, but, the demand of the market requirements is to move to the automation of these operations. That is the reason why Aciturri, as a provider of the aeronautical sector, is trying to **integrate as much as automated solutions** as possible for traditionally handmade operations.

In this project what we propose is an automated ending part to **reduce operational times and cost improving the quality of the parts**. Nowadays,

the surface finishing operation is done by hand, by many working people and with low added value.

Automating the process we will **improve the working conditions** and the added value of the operations. The staff will also gain in qualification and added value in their work.

**ACITURRI AERONAUTICA** is a Spanish industrial group and Tier 1 supplier of metal and composite parts for the aerospace industry, specifically high technology aero structures (Tier 1) and engine components.

## Meetings

The kick-off meeting of COROMA project was held on October 4<sup>th</sup>-5<sup>th</sup> in the Spanish embassy in Brussels. Main objectives of the meeting were to set the official start of the project, establish relations between all partners, provide clarification about administrative issues and define the specific work that each participant is going to make in the following months.

During these first 3 months, another three work meetings were held in Beneteau, ENSA, and Aciturri premises in order to **define the industrial use cases scenarios**, understand the needs and problems of each end-user and start the specifications of the demonstrators.

Also, the objective of these meetings was to ensure that the project developments will be aligned with real requirements of the European manufacturing industry.



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## INTERVIEW TO PARTNERS:

*Erdem Ozturk*

### *Erdem Ozturk from AMRC, talks about the relevance of Mobile fixturing solutions in manufacturing*

In this project we are working on the **integration of cognitively enhanced manufacturing solutions** such as drilling, deburring, polishing and adaptive fixturing processes to validate them in the laboratory.

Mobile fixturing solution is the field that we are quite interested in developing. In these operations, a machine tool makes the cutting operation while the part is supported from the other side by a robot. Such innovations can **improve stability of the machining process** and **improved productivity** can be obtained.

We are supporting two case studies, one for the aerospace Industry together with ACITURRI and the other for energy Industry working with ENSA. All of these tasks are ambitious innovations to have in three years' time to produce parts in a **more efficient or economical way** by using robots.

**The University of Sheffield Advanced Manufacturing Research Centre (AMRC)** is a world-class centre for advanced machining and materials research for high-value manufacturing sectors.

## COROMA's engagement



3 MONTHS



1173 WEBSITE  
VISITS



44 FOLLOWERS

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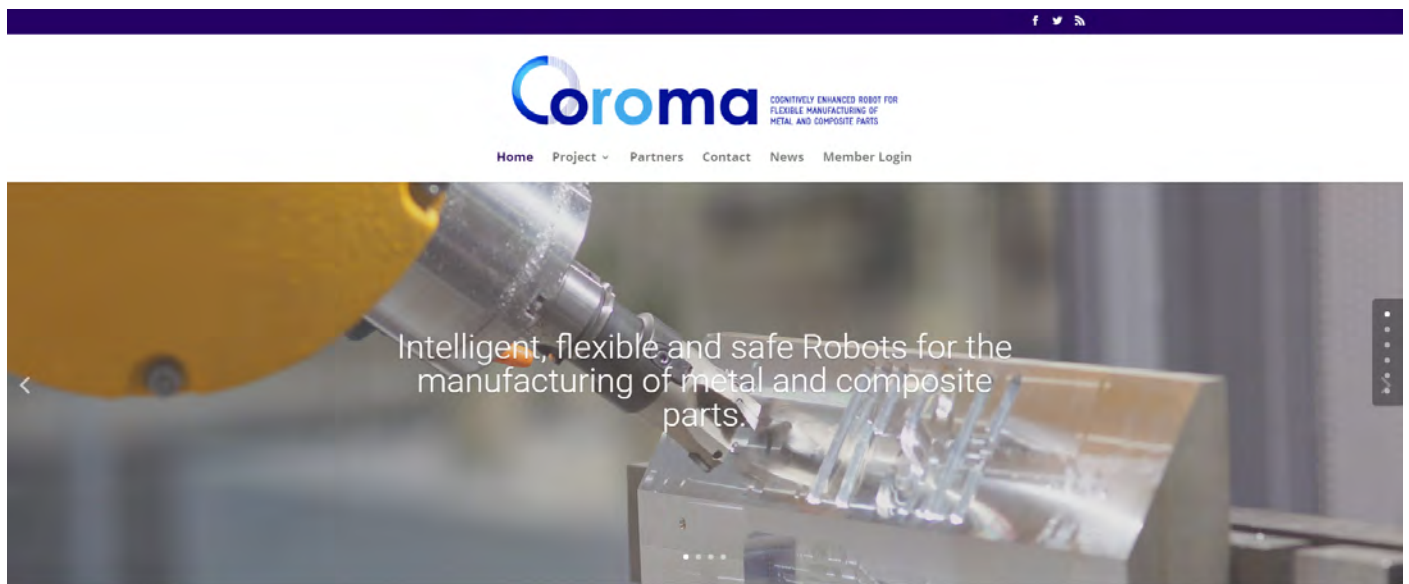


# COROMA's new website

With the goal of having greater presence in digital environment, the COROMA project has **launched its new website** and its own social channels, Twitter, Facebook, Youtube and LinkedIn.

This portal will provide actual and updated information and results from the project. The site has been designed for an **easy access and user friendly navigation** through all the information for the different stakeholders.

Through its different sections, the site offers project information, details about the partners, scientific publications, latest news and events, and a private site for members.



## Upcoming events



- March 22<sup>nd</sup>-24<sup>th</sup> in Edinburgh, Scotland, ERF 2017 (European Robotics Forum).
- April 4<sup>th</sup>-6<sup>th</sup> General Assembly (M6 meeting) and Exploitation Strategy Seminar in Mordelles, at BAS facilities, France.

## Project consortium



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