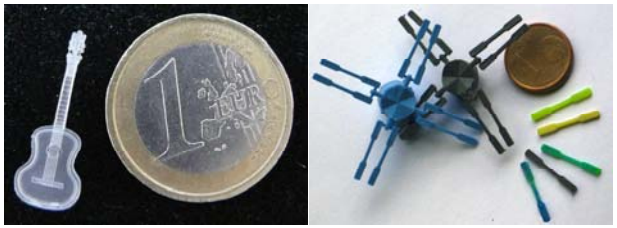
Project GOALS

The aim of the **SONO“R”US** project is the **improvement, optimization and industrial implementation of a pre-commercial moulding for the production of plastic parts in the micro and mini scale size**.



SONO”R”US project focuses part of its activities on **market analysis and business models for** reaching the **best strategy for the worldwide exploitation** of the commercial machine.

In order to achieve the expected results, the structure of the work plan has been focussed on:

1. Optimization of the prototype/machine by using technical criteria and relevant data parameters analysis.

2. Validation of optimization proposals: It has been analysed the necessity of developing 2 pre-commercial Machines (Macnine1 & Machine2) for reaching a complete validation of the technology to introduce the machine with guarantee to the market.

3. In a preliminary stage will be performed the validation of the first machine (Machine1) for an expert industrial laboratory.

4. With the best options (technical/cost analysis) from Machine1 tests, Machine 2 has the necessary aim to be tested in industrial conditions at full capacity.

CAPACITIES

sono“r”us
Collaborative Projects for SME's

www.sonorusproject.eu

"The research leading to these results has received funding from the European Union's Seventh Framework Programme managed by REA-Research Executive Agency http://ec.europa.eu/research/rea (FP7/2007-2013) under grant agreement n° 286552".

“Machine for Microparts Moulding based on UltraSound excitation”

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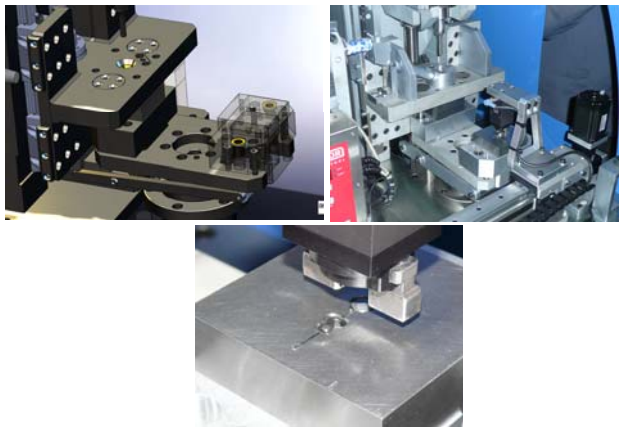
The Project

The **SONO“R”US Project** represents a breakthrough concept in the manufacture of plastic micro and mini parts, introducing into the market the first moulding machine based on the ultrasounds.

Taking profit of previous results achieved by Sonoplast (FP7-SME-2007-No.222378), SONO“R”US intends to develop an optimized, ready-to-market ultrasonic moulding machine that represents flexible, reliable and cost efficiency solutions for producing complex shaped and functional µ-parts.

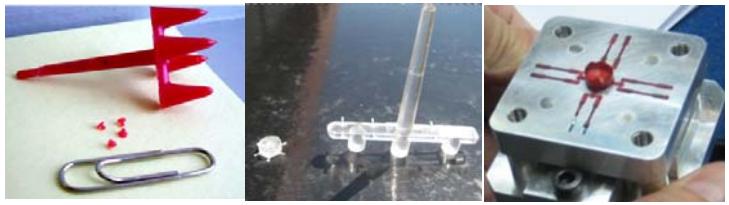
It started on 1st May 2011 and the project duration is 2 years.



After **SONO”R”US** the micro-injection moulding industry will benefit with a **new machinery** to offer to the market capable **of facing all the main difficulties that can be found in a conventional micro-injection moulding machine**.

The ultimate purpose of SONO“R”US is to deliver a machine perfectly adaptable to market needs. This equipment must be developed according to new parameters of ultrasounds while complying with technical requirements of micromoulding, like repetitiveness, quality, profitability, etc.

The main challenge is to produce micro and mini parts featuring very complex geometries through a higher of dosage.



Sonorus is structured following 6 work packages (WP):

WP1: Adaptation and prototype re-design for the final machine industrialization.

WP2: Performance verification of the machine in industrial conditions.

WP3: Market studies and competitive intelligence study of the technology.

WP4: Feasibility studies for increasing functionality and performance of the machine and target market.

WP5: Dissemination activities: Pilot Demonstration and Exploitation of the Project Results.

WP6: Project Management.

PARTNERS

The project consortium comprising, 5 partners from 3 European countries, 4 of which are SME (76,7% of the project consortium) and 1 is a RTD.

Partner	Main roles within the project
Mateu & Solé	• Project Coordinator • WP leader for Adaptation and prototype re-design for the final machine industrialization. • Manufacture of the Sonorus machines.
PROMOLDING creating polymer solutions	• WP leader for Performance verification of the machine in industrial conditions. • Contribution in the definition of Sonorus machine requirements & validation.
GROUPE CEDRAT	• WP leader for Viability studies for increasing the functionality and performance of the machine and the target market/sector. • Responsible for analyzing data from validation phase and propose solutions for improving the Sonorus machine regarding the ultrasound components.
ultrasion Innovative Ultrasonic Solutions	• WP leader for Market studies and Competitive Intelligence study of the technology. • Responsible for the commercialization around the world and technical support of the Sonorus machine. • IPR Manager and chaired of the Exploitation Committee.
ascamm technology centre	• WP leader for Dissemination: Pilot Demonstrations & Exploitation Plan. • Responsible for manufacturing micro-mould customized for USM technology for the validation phase. • Validation of the Sonorus Machine working on industrial lab conditions • Scale up studies