

## General Description

Nuevas Soluciones Virtuales S.L (nSOLVER) is a SME/NTBF (New Technology-Based Firm) company created in 2009 in Cogullada Technological Park in Zaragoza, Spain.

nSOLVER is a new company based on an **intensive control of the scientific and technical knowledge to maintain its competitiveness**. For this reason, it can be defined like a goods and services manufacturer organization, engaged with the design, development and production of new innovative products and/or processes, through the **systematical application of scientific and technical knowledge**.

For nSOLVER, the **innovation is a requirement to be a competitive organization**.

## Main Features

**Ability** to incorporate new paths in the improvement of traditional products, generating new developments incrementally, introducing new features in terms of size, adaptability and versatility.

**Flexibility**. The programmable nature of the staff allows overcoming the inflexibility of the old companies, reducing the importance of the mass-production-based economy and promoting a higher value added products.

**Expertise of the team**. It allows a faster change of the planning, raising the levels of productive efficiency.

**Technological Dynamism**. Thus it is integrated the design to product realization process. This implies the need for integration with research, development and engineering design.

**Adapting to the demand**. The demand diversity thereby multiplying the supply of products and the possibility of investment, opening new markets.

## Company Purpose

**Develop and operate** the business and industrial solutions in the field of ICT based on free software.

**Develop R&D projects** in the business and industrial sectors related to **production and design technologies** and industrial production.

**Design and program** solutions for different **industry** environments.

## Technological actions

**Conducting R&D projects** with other companies.

**Establish relationships** with universities, research institutes and centres where technologies are developed in areas of knowledge similar to nSOLVER to enhance their development and technological upgrading.

**Increasing competitiveness**

**Development and Implementation:** New Open Source technologies and open content platform.

#### Technology transfer

- Dissemination days.
- Marketing of innovative products
- Training
- Etc.

### Work Lines

#### Engineering Services

- Complete simulation reports of the most usual polymer technologies like Injection Moulding (from filling and packing to warpage and cooling or foaming) or Extrusion Blowing (final map of thickness, extensions, 3D blowing and pre-blowing)

#### Research & Development

Mainly focused on the next lines:

- Innovative ICT
- Product, Process and Services improvement
- Advanced simulation of processes.

Applied to Factories of the future, Health, Energy Efficient Buildings

#### Project Consultancy

- Web usability and accessibility
- Web services feasibility studies
- Advertising campaigns on searchers, making a further position support.
- Process re-engineering and systems integration.
- Work group, sharing resources and automation.
- Information flows, internal communications and knowledge management.

#### Web design and development and Project management

In nSOLVER we have the tools and experience necessities to develop:

- Effective web pages for all kind of clients.
- Professional Web designs, creative and unique for each client.
- Our designers are specialists on Web pages and applications for all kind of companies, adapting to the client needs.
- Tailor-made applications
- Corporative bulletin design.
- Development of dynamic Web pages and applications, news portals, CMS systems (content managers)
- Development of tailor-made Web applications with Web 2.0 technologies, using open-code programming languages (PHP), javascript libraries (jQuery) and content management systems

(Joomla, Wordpress)

#### IT Services

- Installation and configuration of equipment, network, servers
- Internet connections, mail
- Software maintenance and configuration
- Maintenance of equipment

### Products Portfolio

**VIRTUAL Q-ERP** – is a fully dynamic integral management, easy-to-use and open-code based software. This Enterprise Resource Planning software has been developed specifically to cover the management needs of the companies, especially SMEs, due to it is easy transferable and adaptable to any business model based on project management.

**PDGS – Product Development Guidance System** – This open-code guidance software allows to control and optimize the whole process of the development of a complex plastic part, divided on a 4 stages with its decision gates, involving all the participants and promoting the use of simulation from the beginning of the project and increasing the importance of the sign of agreements and relevant documents on each stage.

**AITEAM** – Collaborative workgroup environment software.

**TIIPFLOW** – Web application capable of estimate the thermoplastic injection moulding process parameters in simple geometries. It allows knowing the parameters associated to the filling, packing and mould cooling process depending on the type of polymer, part geometry and main moulding parameters.

**CADMOULD** - nSOLVER is an official national reseller of this professional injection moulding simulation software.

### R&D Projects

**ADIA, Project number ADIA/10/576** *“Simulación avanzada de productos plásticos, métodos avanzados de simulación de piezas y del proceso de desarrollo de productos plásticos de inyección”*

Time to market and cost reduction of plastic products in a 30% using new and advanced simulation method for product development.

Optimization of the product development process between SMEs and its clients obtaining a high-

efficient process advancing uncertainties.

Increasing the efficiency of the value chain of the plastic industry in Europe, strengthening its global competitiveness.

**AGINTES - INJECTED PLASTIC PRODUCTS SMART PROCESS:** *Nuevo proceso de fabricación ágil de productos plásticos inyectados basado en sistemas TIC, moldes y bienes de equipo inteligentes.*

The main objective of this project is to define a new radical concept of the injection plastic process, where the tools will become active network elements instead of passive ones, with the knowledge incorporated, integrating them in a platform for a global control of the process. This will allow, on one side, the improvement of the efficiency of the complete lifecycle of the plastic parts production (from the material to the human resources, from the mould to the machinery necessary) because all the process parameters could be monitored, fixed on real time and stored, for a further and automated correction by the system if necessary.

This will lead to a smart instrument for the company which allows a complete management and control of the injection process with maximum real-time information.

**SINIDE - Sistema inteligente de acabado de piezas y utillajes mediante sistemas de pulido y desbarbado.**

The aim is to obtain of a smart system for part and tool finishing for the metal and plastic sectors (specially automotive and aeronautical), by means of polish and deburring, based on robotics and artificial intelligence applicable to a high-tech metallic and composite materials, improving the competitiveness of companies of these sectors and by extension to the providers of them dedicated to tool manufacturing.

**ABILITAS – i-Habilitation - integración de redes sociales y redes de sensores biométricos, de actividad y comportamiento**

The main technological objective of the Project is the integration of biometric, activity and behavior sensor networks with social networks for the development of new applications and personalized services of rehabilitation and monitoring of patients.

Its application is focused on the improvement of the quality of life both of the patients, health professionals and familiars, especially those who live on rural areas, where degenerative processes are more important.

### Contact details

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