

PROGRAMA **GARAITUZ** PROGRAMA

SUCCESSFUL CASES

The following document shows 11 projects developed by the VET centers participating in the TKgune program, within the Garaituz program launched during 2014/2015 by the Provincial Government of Gipuzkoa



PROGRAMA GARAITUZ PROGRAMA

Simeyco S.A.L. (Beterri)

It is a company of 12 workers who perform painting works for the protection and maintenance of metallic pieces (automotive, renewable energy, railway industry and aeronautic industry).

In order to respond to requests from the automotive industry the 5S system must be implemented in the company; the project involved the implementation thereof. To this end, the employees have been trained and the system has been implemented in the expedition area of the company. Looking ahead workers are already trained to work independently and can expand the implementation to other sections of the company on their own.

PROGRAMA GARAITUZ PROGRAMA

Talleres Mecánicos Bianditz S.L. (Bidasoa)

The company has 24 employees and is dedicated to the production of manuals, tool molds and matrices.

On the one hand, has proceeded to improve the productivity of some references made by the company, with beneficial results (adjusting the process parameters, rethinking production strategies and adapting the tools to be used).

Reference 1	Process from 20'' to 10''
Reference 2	Process from 2'20'' to 1'20''

On the other hand, some machines used in the company have been updated by improving accuracy, integrating operations or programming.

PROGRAMA GARAITUZ PROGRAMA

Iris Chains S.L. (Debabarrena)

The company, which has 24 employees, produces chains of transmission for motorcycles, the industry sector, quad and karting sectors.

Has been developed a resistance analysis in two engines by the finite element method (FEM). Since this way you can know the mechanical properties of different designs without having to repeat the same theoretical calculations of the past. Moreover the designs have been and the used time to develop the products has been reduced. Therefore, enhancing the competitiveness of the company.



PROGRAMA **GARAITUZ** PROGRAMA

Mecapal S.L. (Debagoiena)

It is a company of 35 employees working in high-precision CNC machining.

The productivity of parts manufactured by the company have been improved (by analyzing the tools and the cutting parameters used and from there designing and validating more appropriate ones).

Time reduction of
55%; from 32" to 14".



In addition, a new feeding system has also been designed, which was required by the exigencies of the new production capacity.

PROGRAMA **GARAITUZ** PROGRAMA

Arrieta Igeltseritza S.L. (Donostia)

This company of 6 employees is dedicated to the restoration of homes and public buildings.

The manufacturing system for draining pipes installed in the showers has been improved. A new proposal has been made that is based on thermoforming process rather than in the chemical casting. To do this, they have studied different designs with different materials and shapes and the necessary modifications have been made to the mold required for the process.



Gipuzkoa
BERRIA



Garapen

etorkizuna lantzen
por y para el desarrollo

GARAPEN AGENTZIA
EUSKAL EKARTEA
ASOCIACIÓN VASCA
DE AGENCIAS DE DESARROLLO



Gizarte funtsak zure
etorkizunean inbertitzen du

El Fondo Social Europeo
invierte en tu futuro

eman ta zabal zazu



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

Tknika

LANBIDE HEZIKETARAKO BERRIKUNTZA ZENTROA
CENTRO DE INNOVACIÓN PARA LA FORMACIÓN PROFESIONAL

PROGRAMA GARAITUZ PROGRAMA

Aitzkoate S.A.L. (Goierri)

The company has 28 employees and is dedicated to the fine metal fabrication; mainly for the food and railway industries.

The ordering-payment process has been improved, identified as the key to improve the competitiveness of the company. The improvements are aimed at increasing the number of orders received and the amount of time required in the delivery services. To this end, a study of all the processes has been done and a solution has been analyzed and modeled, to finally be implemented. Furthermore, the staff of the company has received related training and awareness and the implementation of the proposed measures has been supervised.

 **Aitzkoate**
caldereria fina

MGEP

PROGRAMA **GARAITUZ** PROGRAMA

Ekolur Asesoría Ambiental S.L.L. (Oarsoaldea)

There are 15 workers working there and it is a service and consultancy company. They offer all kind of services related to environmental issues (surface water and river ecosystems studies, biodiversity and natural environments studies, environmental impact studies of different programs...).

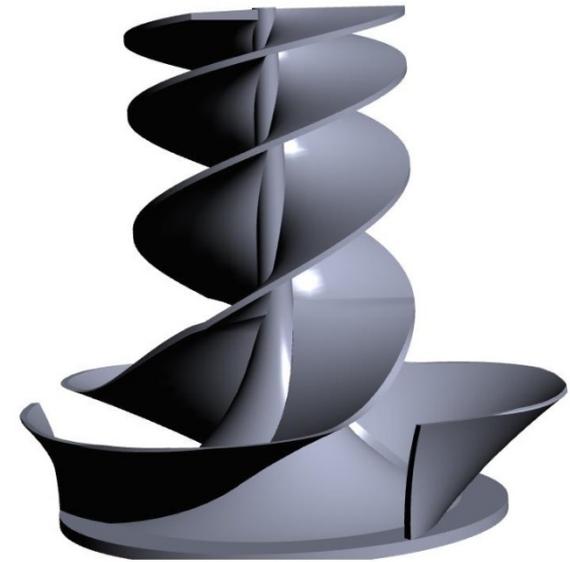
They have prepared and implemented a new database to collect the work they had done previously in order to be able to use that data in future projects. To do this, the features that the database should meet have been defined and based on that conceptual analysis a design has been done. Finally, this design has been implemented and the necessary modifications have been done in order to validate the product.

PROGRAMA **GARAITUZ** PROGRAMA

Olgaiz Construcciones Mecánicas S.L.L.(Tolosaldea)

The company is made up of 22 employees. It works primarily in the paper industry, more specifically in the production and repairing of equipment.

The company wants to improve the energy efficiency of a turbine by doing a new design. For that aim, a 3D model has been previously created from 2D drawings.



PROGRAMA GARAITUZ PROGRAMA

Talleres Patri S.L. (Urola Erdia)

It is a company with 6 employees, dedicated to machining parts. The project carried out has responded to the following business needs to enhance the machining process.

- To improve the performance of a machine, it has been integrated into a new process and the methodology of mechanisation has been redesigned.
- The tools chosen and the cutting conditions have been modified and improved.
- The safety of workers has been analyzed, checking the equipment used.
- The communication between CNC machines and computers has been adapted, updated.



PROGRAMA **GARAITUZ** PROGRAMA

Calderería Oslan S.L./Calderería y Oxicorte Oria S.L. (Urola Garaia)

These companies have 8 and 6 workers respectively and are engaged in the manufacturing of metal structures from 2D drawings. Between the two companies a unique project has been developed as the activity carried out is similar and because they are trying to work together.

The steps needed to comply with EN-1090-1 have been worked on during the project and how to introduce it into the processes of both companies. For this purpose, firstly the current process has been analyzed and documented. Later the implementation of the new standard has been carried out. Finally, an internal audit has been conducted and both companies have been prepared to obtain a certificate of quality.

PROGRAMA GARAITUZ PROGRAMA

Kultur Atelier S.L. (Urola Kosta)

The company is a communications agency that works for both public entities and the private sector which is integrated by 6 employees.

The project is based on the design and implementation of a software tool designed for the company. All the information the company had available has been compiled in a database and a contact book with suppliers and customers data has also been compiled. In this way, the company will be able to take advantage as much as possible of its previous work and will have the needed contact data available which is updated at all times. In addition to launching this tool, the necessary training has been given to the employees in order to teach how to work properly with it.



Gipuzkoa
BERRIA



Garapen

etorkizuna lantzen
por y para el desarrollo

GARAPEN AGONIZEN
EUSKAL EKARTEA
ASOCIACION VASCA
DE AGENCIAS DE DESARROLLO



Gizarte funtsak zure
etorkizunean inbertitzen du
El Fondo Social Europeo
invierte en tu futuro

eman ta zabal zazu



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

Tknika
LANBIDE HEZIKETARAKO BERRIKUNTZA ZENTROA
CENTRO DE INNOVACIÓN PARA LA FORMACIÓN PROFESIONAL

PROGRAMA GARAITUZ PROGRAMA

Resistance
3D-model
optimize
Tools
Manufacturing
Data-Base
Process Norms
adapt
Order-Payment
improve
FEM
Parameters
analyze
create
implement
Machining
Productivity
Informatics
Times
Welding
Machining