



GEOSTRATEGIC POSITION

Gipuzkoa, a green land in the heart of the Atlantic Arc

Page 6

INNOVATION

Promoting projects

Page 14

RESEARCH

When scientific excellence becomes essential for society

Page 18

EDUCATION

A high quality training network

Page 26

CUTTING EDGE

Entrepreneurs and entrepreneurial culture 'made in Gipuzkoa'

Page 28

Issue 1 / 2010

GIPUZKOA: LAND OF INNOVATION

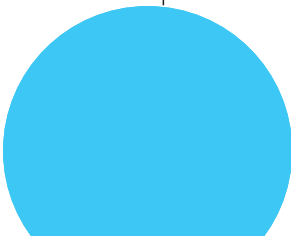


Table of Contents



**Gipuzkoa:
Land of Innovation**
Issue 1 / 2010

Provincial Council of Gipuzkoa
Department of Innovation and the
Knowledge Society
<http://www.igipuzkoa.net>

Plaza Gipuzkoa
20004 Donostia-San Sebastián

Production and design:
ACC-Comunicación

Contents processed by: DOKU

Translations: Bitez Logos Group

Photos: ACC comunicación, CIC Biomagune, CIC Microgune, CIC Nanogune, Inbiomed, Donostia International Physics Center, Kutxa, Tknika, Mondragon Corporation, CAF, Stua, Epsilon Euskadi, Azti Foundation, BCulinary Center, San Sebastián Turismo, Tabakalera, Balenciaga Museum, Oiasso Roman Museum, Surf Film Festival, Basque Country Surfing Federation, Club Golf Basozabal, Lurrak, Paisajes Españoles, Gaizka Bilbao, Javier Carballo Berazadi, Darío Garrido, Javier Larrea, Rubén Plaza, Juan Serrano Corbella and José Usoz.

Printing:
Orvy Impresión Gráfica S.L.

ISBN: 978-84-7907-635-1
Legal Deposit: SS-630-2010



1. INTRODUCTION	4
<ul style="list-style-type: none"> • Editorial note: A publication on innovation in Gipuzkoa • Gipuzkoa: Land of Innovation José Ramón Guridi <i>Councillor for Innovation and the Knowledge Society (Provincial Council of Gipuzkoa)</i> 	
2. GIPUZKOA: PRIVILEGED GEOSTRATEGIC POSITION IN THE BASQUE COUNTRY	6
<ul style="list-style-type: none"> • Gipuzkoa, a green land in the heart of the Atlantic Arc: Quality of life, corridor for innovation • San Sebastián, capital of Gipuzkoa: A city to live in and enjoy 	
3. GIPUZKOA: COMMITTED TO INNOVATION	14
<ul style="list-style-type: none"> • Promoting entrepreneurship and creative capacity 	
4. GIPUZKOA: LAND OF RESEARCH	18
<ul style="list-style-type: none"> • An advanced framework of research: When scientific excellence becomes essential for society • Nanotechnology and Nanoscience: A strategic line for Gipuzkoa's future 	
5. GIPUZKOA: TRAINING FOR KNOWLEDGE AND INNOVATION	26
<ul style="list-style-type: none"> • Universities and vocational training centres: A network for knowledge, innovation and entrepreneurship 	



6. **GIPUZKOA: ENTERPRISE ON THE CUTTING EDGE** 28

- Entrepreneurs and business culture ‘made in Gipuzkoa’
- CAF. Construcciones y Auxiliar de Ferrocarriles:
Trains for the future
- Mondragon CORPORATION:
A collective enterprise reaching out to international markets



7. **GIPUZKOA: CONTEMPORARY ART AND CULTURE** 34

- Gipuzkoa:
A wealth of cultural attractions



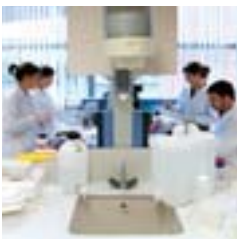
8. **GIPUZKOA: THE CULINARY CRÈME DE LA CRÈME** 38

- Gipuzkoa and the Basque Culinary Center project:
The European University of Gastronomic Sciences



9. **GIPUZKOA: SPORTS OLD AND NEW** 40

- Organisational, technological and social innovation
for amateur and competition sports
- Surfing in Gipuzkoa:
Riding the waves: sport, professional training and industry



10. **GIPUZKOA IN FIGURES** 42

- Gipuzkoa:
A profile for innovation and the knowledge society

Editorial note

A publication on innovation in Gipuzkoa

Gipuzkoa: Land of Innovation, a publication issued by the Provincial Council of Gipuzkoa Department of Innovation and the Knowledge Society, is conceived as a **tool for raising the profile** – preferably internationally – of Gipuzkoa’s most outstanding assets in the strategic area of innovation, research, science and technology.

...profile raising tool...

Approached from a global perspective, *Gipuzkoa: Land of Innovation* aims to offer, by means of **service information**, an overview of pivotal initiatives in the area of R&D+i – either at the project stage or consolidated – applicable to the different areas of activity in Gipuzkoan society: economy/business, training/education, culture, gastronomy or sports.

...service information...

This publication also aspires to become a **meeting place** for the different stakeholders involved or interested in innovative projects undertaken and developed in Gipuzkoa.

...meeting place...

Published yearly, *Gipuzkoa: Land of Innovation* will endeavour in its coming issues to extend and update the contents of this first instalment, with the added possibility in the near future of a complementary electronic edition. ●

1. Introduction



José Ramón Guridi

Gipuzkoa: Land of Innovation

Located in the Basque Country, Gipuzkoa offers remarkable potential for innovation in all areas: social relations, training/educational experience, economy/business activity, scientific/technological progress and cultural and other expressions.

To fulfil its purpose, Gipuzkoa has a whole variety of strategic conditions. Ours is a small province offering excellent quality of life, with financial capacity and our own tax system. We are backed by cutting-edge infrastructures, our own network of universities, advanced technology and research centres, staffed by qualified, motivated personnel; we harbour the benefits of social economy and a cooperative movement unique in the world, not to mention small and medium-sized companies open to the exterior, and a wealthy, close-knit network of relationships between our citizens.

A unique model

Gipuzkoa intelligently combines these elements as it works to assimilate an innovative culture starting to make its mark.

Convinced of the benefits of combining the public and private aspects, the Provincial Council of Gipuzkoa, through its Department of Innovation and the Knowledge Society, strives to competitively and creatively make the most of its resources set around inter-institutional collaboration. We believe that we have made a modest contribution to promoting values helping to shape a specific model targeting the consolidation and growth of innovation in Gipuzkoa.

Nevertheless, we have to persist with this line of joint, coordinated support in order to gain even more added value in the area of innovation. And the key to success lies in our efforts – in the classroom, at companies and in the Public Administrations – to advocate the values inherent to an enterprising, competitive and innovating mentality: opening up to change in all directions, the assumption of risk, paying permanent attention to emerging sectors, the value of emotional intelligence, lifelong learning, generosity when creating and sharing knowledge and projects, or the incorporation of women to the working world, among others.

These are values which must work in favour of a society involved in the different innovation processes. Because innovation, as a process of permanent investment, will only make sense if the society that promotes it finally benefits from its results in a coherent, sustainable fashion.

With this publication, **Gipuzkoa: Land of Innovation**, of which we now bring you the first issue, we endeavour to give an overview of innovation in Gipuzkoa past and present, while opening our arms to cooperation with players interested in undertaking projects in our province. ●

JOSÉ RAMÓN GURIDI

*Councillor for the Department of Innovation and the Knowledge Society
(Provincial Council of Gipuzkoa)*

2. GIPUZKOA: Privileged geostrategic position in the Basque Country

Gipuzkoa, a green land in the heart of the Atlantic Arc: Quality of life, corridor for innovation

The propitious conditions for promoting innovation in Gipuzkoa include its strategic location in the Atlantic Arc corridor, self-government, fiscal capacity, quality of life and in particular, the enterprising, highly-qualified human capital.

The expansive energy of the province of Gipuzkoa benefits from the possibilities offered by its geographical setting. Gipuzkoa is one of three provinces, together with Bizkaia and Alava, comprising the Basque Autonomous Community.

Gipuzkoa is a *border region* – and an area of heavy transit and exchange – bounded by the Bidasoa River to the east and the Cantabrian Sea at the southern end of the Bay of Biscay. As a European corridor between Spain, France and Portugal, Gipuzkoa's position ensures it a vital role in the development

of the Atlantic Arc in the framework of the Euskadi-Aquitaine Euroregion, its key cities, Bilbao and Bordeaux, linked by motorway.

Trans-European Corridor

As a logistical hub connecting Madrid and Paris, Gipuzkoa plays an important role in the trans-European transport network, whether by motorway and 'fast roads', by sea through the port of Pasaia, or by rail with the Atlantic high-speed railway axis which includes the French TGV and the future Basque 'Y' high-speed line linking the three Basque capitals – San Sebastián, Bilbao and Vitoria – in addition to Pamplona.

Gipuzkoa also extends the natural relationship it enjoys with Navarre toward the Mediterranean through the corridor that runs parallel to Pyrenees from Aragon (Zaragoza) to Catalonia. Barcelona is key here, a city with which San Sebastián shares a particular understanding and empathetic relationship.



Gipuzkoa in the Atlantic Arc corridor: road, rail, air and sea

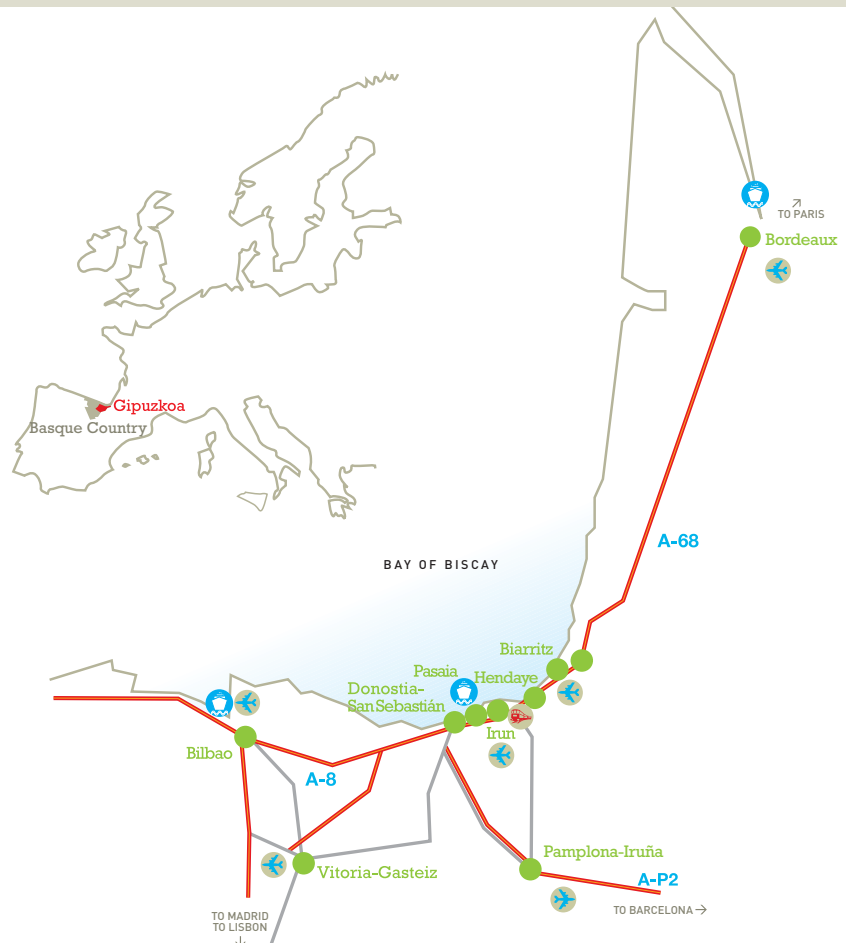
<p>Air</p> <ul style="list-style-type: none"> >San Sebastián Airport (Hondarribia) >Bilbao Airport >Biarritz-Anglet-Bayonne Airport 	<p>Rail</p> <ul style="list-style-type: none"> >SNCF: Paris-Hendaye (TGV) >RENFE and EUSKO TREN: Irun-San Sebastián 	<p>Road</p> <ul style="list-style-type: none"> >A-63 Motorway: Paris-Irun >A-8 Motorway: Irun-San Sebastián-Bilbao <p>Shipping ports</p> <ul style="list-style-type: none"> >Pasaia-Bilbao-Bordeaux
--	--	---

Added to Gipuzkoa's advantageous location and key role in these geographic, economic and cultural corridors, is the question of air transport. In addition to Hondarribia, other commonly used airports in the vicinity include Biarritz, Bilbao, Vitoria-Gasteiz and Pamplona.

The efforts of the Aquitaine-Euskadi Logistics Platform (PLAE-AEIE in its Spanish initials) will help maximise intermodality potential by optimising the cohesion of land (road and rail), sea and air transport networks in Gipuzkoa, thus enhancing cross-border mobility and turning it into an opportunity for development.

Human dimension: quality of life

Geography with a human dimension. Gipuzkoa's unique landscapes come together in a small but diverse territory encompassing nearly 2,000 square kilometres. In such a concentrated area it is surprising to find such a multi-faceted array of urban, industrial, maritime and rural environments.



THE BAYONNE-SAN SEBASTIÁN BASQUE EUROCITY

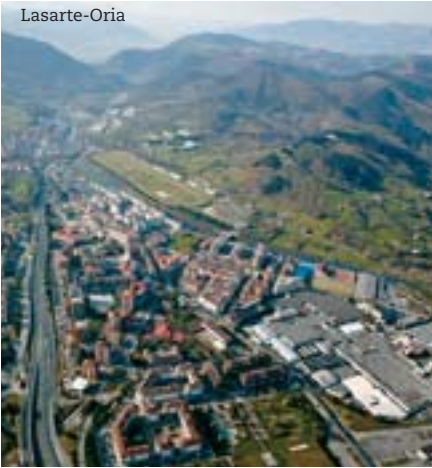
In the heart of the Southern Atlantic Arc, the Bayonne-San Sebastián Basque Eurocity stands out for the possibilities it presents for the future. The project, an initiative of cross-border cooperation promoted by the Provincial Council of Gipuzkoa and the Biarritz-Anglet-Bayonne Urban Community, first took shape in 1997 with the creation of a common institution, originally devised as an Observatory and later as a Cross-Border Agency.

The Basque Eurocity comprises three official languages (Basque, French and Spanish) and a population of over 600,000. About 425,000 people reside in Gipuzkoa and nearly 200,000 in the French

Basque region, distributed among 42 towns and two main centres of population: San Sebastián and Bayonne.

The area comprising the Eurocity conurbation begins in Bayonne to the north, extends to the southwest as far as Zarautz, and is bordered by the Cantabrian coast. It represents a metropolitan area that is highly regarded for its cultural, sport, and tourism offering, in addition to its business fabric and stunning natural environment.

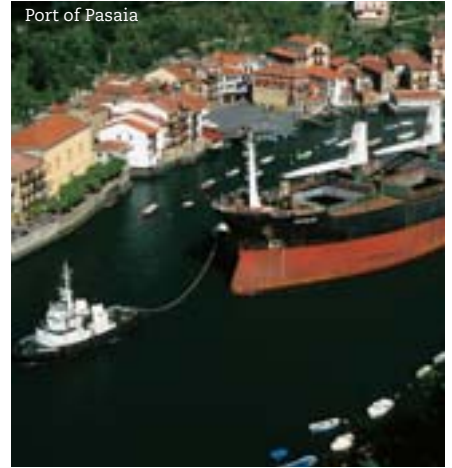
<http://www.eurociudad.org>



Lasarte-Oria



Sea cliffs on the coast of Gipuzkoa



Port of Pasaia

Gipuzkoa:
705,000
 residents,
356
 inhabitants/km²

The border
 region is an area
 of heavy transit
 and exchange

Gipuzkoa's
 nearly
 2,000 km²
 include
94 km
 of coastline

Added to this is the increasing awareness in Gipuzkoa of the importance of protecting and promoting our scenic, environmental, architectural and cultural heritage. We call it geography with a human dimension.

Gipuzkoa has over 705,000 residents spread across 88 municipalities, and a population density of 356 inhabitants per square kilometre. These factors, together with a well-balanced capital city, San Sebastián, have fostered a highly dynamic region fertile in initiatives and fluid in communications, characterised by an enterprising track record and exceptional social vitality for the creation and development of all types of projects. The high level of professional qualification, the well-developed infrastructure facilities and services and the fiscal capacity of the provincial government are additional factors conducive to innovation.

Blue Gipuzkoa

The province has 94 kilometres of coastline, with fishing ports and marinas in the towns of Hondarribia, San Sebastián, Pasaia, Orío, Getaria, Zumaia, Deba and Mutriku.

The Port of Pasaia services coastal and trawl fishing vessels, as well as handling freight cargo operations. Plans are currently in place to build an exterior dock to improve port facilities and Pasaia's potential as an intermodal logistics platform in the Atlantic Arc. Moreover, Pasaia is slated for an ambitious urban renewal project that will transform the town's urban landscape.

The coast of Gipuzkoa – blue Gipuzkoa – is a series of beautiful bays including

Txingudi and La Concha; wetlands and salt marshes; sea cliffs of significant geological value, such as the flysch formations between Deba and Zumaia (inter-tidal rock platform declared a Protected Biotope); sandy beaches, some renown for excellent surfing; and lighthouses over the Cantabrian Sea.

Green Gipuzkoa

The urban fabric (5% of the land area) is surrounded by woodland (75%) and farmland (20%). Green Gipuzkoa includes a network of parks and protected areas including four nature reserves: Aiako Harria, Aralar, Aizkorri-Aratz and Pagoeta. The potential of these reserves was bolstered this year with the signing of an agreement with the San Sebastián Museum of Science, KutxaEspacio, to create a single environmental entity guided by the mottos *Cultural landscapes and Nature with history*.

An extensive network of footpaths allows visitors to fully enjoy Gipuzkoa's natural heritage.

Gipuzkoa has also designed an interurban network of shared bikeways and pedestrian walkways (known as *bidegorris*) comprising over 400 kilometres. The commitment to the environment is reaffirmed with public intermodal transport to optimise the efficiency of road and rail links in Gipuzkoa.

The result of these efforts is a region with a human dimension, a territory which strives for efficiency, sustainability, business logistics, interurban mobility, access to services and quality of life. ●

PROJECT NATURBA SELECTED BY THE EUROPEAN UNION: Designing a model for sustainable territorial development

Presented by the Provincial Council of Gipuzkoa, the Naturba project was selected by the European Union to design a model for development respectful of the rural and urban environment. Naturba is characteristic of the type of innovative initiatives launched in Gipuzkoa.

In the framework of the Interreg IV-B programme, Naturba was selected to study the zones of contact

and transition between city and country. The focus will be on the Jaizkibel and Aiako Harria area in the 'Pasaia-Irun corridor', a region that shares valuable natural habitats with stock raising, farming, industry, towns and high-capacity road and rail networks.

The results will be compared to the outcomes derived from other enclaves, including Lisbon, Murcia and Toulouse. The latter of the three cities

is the driving force behind the Naturba programme. The final conclusions, slated for presentation in 2011, will be used to develop a common protocol for territorial intervention which will be applied in pilot project areas to reconcile environmental protection and rural activity with urban dynamics and new infrastructures.

<http://www.gipuzkoa.tv/play.php?vid=203>



Pasaia environs

San Sebastián, capital of Gipuzkoa:

A city to live in and enjoy



San Sebastián is a city built on a human scale. Its attractive character is shaped by the harmonious coexistence of different cities – the city of tourism and services, the city of fishing and the sea, the city of sports and culture – all of them sharing a pleasing and sustainable environment.

San Sebastián, home to 185,000 of Gipuzkoa's 705,000 residents, has entered the 21st century as an attractive vibrant city, a place residents care about and regard highly for its unique geographical setting and urban structure. These claims are backed by citizen satisfaction surveys. Rated by its own citizens' expectations and satisfaction, San Sebastián is generally ranked the leading city in Spain. The most recent Merco Ciudad report measuring the quality of living in Spanish cities confirms this once again.

San Sebastián is a harmonious city. To a large extent this is due to the fact that the towns in the rest of Gipuzkoa remain very much alive, thus curbing population influx to the capital and preventing excessive growth. San Sebastián is seen by both residents and visitors as a city built

on a human scale. Unlike most Spanish provinces, whose capital cities far exceed the rest of the province in terms of population and development, San Sebastián and Gipuzkoa strike a good balance.

Several cities in one

Part of the lure of San Sebastián lies in its multifaceted character – several cities in one living side by side, bolstering the city's personality. The **city by the sea** is the city that embraces the Bay of Biscay. The **city of tourism** is an essential part of the city by the sea, its three beaches integrated in the urban landscape. A walk along the waterfront framed by San Sebastián's classic white banister not only provides spectacular views of the bay but also reveals surprising sculptures including Eduardo Chillida's *Peine del viento* (Wind's Comb)



View of the port



María Cristina Bridge



and Jorge Oteiza's *Construcción vacía* (Empty Construction). The modern sculptures stand on either end of the walkway, with La Concha Bay and Santa Clara Island as the crown jewel.

Then there's the San Sebastián that has no intention of renouncing its roots. This is the **seafaring city**. Centuries ago San Sebastián's small port served commerce and whaling and although the fishing tradition remains alive, today the port is used mainly for recreational purposes. The Naval Museum, also located on the port, offers an interesting look at the city's naval history. Just a few steps away is the hundred-year-old Aquarium founded and still managed today by the Oceanographic Society of Gipuzkoa. Today visitors can discover the underwater world of the Cantabrian Sea in the newly remodelled facility.

San Sebastián ranked number one city in Spain based on citizen satisfaction

There's the **purely urban city** which, while never fully turning its back to the sea, extends outward along both banks of the Urumea River. The extension was designed in the 19th century by architect Antonio Cortázar intended to expand and modernise San Sebastián. The new development would become a benchmark for town planning in Europe. The grid street plan laid the foundation for the **city of services** San Sebastián is today. The city has a wide array of shops and businesses. San Sebastián is also known for its highly regarded restaurants and bars, many of which have earned it the reputation as the **culinary arts and good eating**.

The city has excellent infrastructure and venues to support a complete range of social activities and cultural programming year round. The **city of culture** becomes a **city of cinema**, with high-profile events including the San Sebastián International Film Festival (*Zinemaldia*) and the Horror and Fantasy Film Festival. And it turns into a **city of music** with the Jazz

City of film

San Sebastián has a very **special relationship with cinema**, as host to long-established events including the San Sebastián International Film Festival, the Horror and Fantasy Film Festival and the International Underwater Film Festival.

The **city's cinematographic tradition** and flair can also be explained by its very setting, a veritable stage blessed with stunning natural backdrops. San Sebastián offers a great variety of attractive locations for shooting films and television commercials.

It therefore comes as no surprise that San Sebastián is a partner of the EU **Film Cities** project (together with Venice, Oporto and Thessaloniki), and is also an audiovisual innovation 'hub' (Polo de Innovación Audiovisual - PIA) which in 2010 will have a 19,000 square metre building to promote audiovisual production.

Film Cities Network: San Sebastián
<http://www.fomentosansebastian.org/donostia-film-commission/red-de-ciudades-decine/localizaciones.php>

Audiovisual Innovation Hub: San Sebastián
<http://www.fomentosansebastian.org/sector-audiovisual/polo-de-innovacion-audiovisual.php>



Festival (*Jazzaldia*) and the Classical Music Festival (*Quincena Musical*).

San Sebastián offers a number of venues for all of these events, including the Kursaal Auditorium and Conference Centre (designed by Spanish architect Rafael Moneo), the Victoria Eugenia Theatre, the International Contemporary Culture Centre Tabakalera, the San Telmo Museum, and the Chillida-Leku Museum (located very nearby in the town of Hernani).

San Sebastián takes its passion for arts and culture one step further, presenting its candidacy for the 2016 European Capital of Culture based on the motto *waves of public energy*.

The city also maintains its place as a **city of sport**, with state-of-the-art infrastructure designed for both competitive and recreational sports. Installations cater for a wide range of disciplines – water sports facilities, the Anoeta stadium, golf courses, football and rugby pitches, basketball courts, fronton courts, a cycle-racing track, an ice-skating rink and a long list of others. San Sebastián is also home to events that draw thousands of international participants. The Behobia-San Sebastián half marathon breaks its own record for participation every year. The Donosti Cup international youth football tournament, granted UNICEF's National Prize, brought together 258 teams from around the world.



PHOTO: SAN SEBASTIÁN TURISMO

Hand in hand with the city of services is a **city of research**, boasting the San Sebastián Technology park and its sister health science centre, Polo Biosanitario; cutting-edge nanoscience research facilities in Ibaeta (Donostia International Physics Center and Nanogune Cooperative Research Center), the Biodonostia Institute, universities, technologically advanced firms and science museums (*KutxaEspacio*). These references are all reasons why San Sebastián has earned its Science City status. The number of people involved in research activities is also noteworthy – some 1,500 according to estimates released by the public company Fomento de San Sebastián. Researchers from over 16 countries, in addition to research fellows and

researchers on short-term engagements, currently work in San Sebastián, a city that is taking proactive steps to capture and retain talent.

A pleasant and sustainable environment

The city's scientific dimension integrates perfectly into San Sebastián: a vigorous city in transformation, owing to contributions from the rest of the province, and more particularly, to the possibilities of its metropolitan area, a corridor that extends from Lasarte-Oria to Irun and Hondarribia. The density of this corridor, and the extension that reaches Bayonne via the cross-border axis, will gain in fluidity and capacity thanks to the new metro project backed by the Provincial



Santa Clara Island and San Sebastián beaches

Council of Gipuzkoa and the Basque Government in 2009.

Sustainable mobility. San Sebastián wants to take a proactive role in addressing sustainability: in everyday city life, in the mobility of residents and visitors, and in promoting the interests of pedestrians, public-transport users and bicyclists.

The **green city.** San Sebastián is also dedicated to ensuring its green spaces. In 2009 Cristina Enea Park was selected second best park on the continent only behind Parc de la Deûle in Lille, France. Cristina Enea was given special mention by the Council of Europe for "sustainable territorial development, exemplary value, public participation and awareness-raising".

The **cycling city.** San Sebastián's network of bidegorris, or bike paths, is remarkable in both extension and use. In 2010 the network will encompass 55 kilometres and already ranks number one among all Spanish cities, with a total of 12,000 bicycle commuters daily.



Accessible city. In order to improve accessibility for people who have difficulties using community services, San Sebastián has joined the Global Age-Friendly Cities Programme. Created by the World Health Organization (WHO), 35 age-friendly cities – 9 in Europe – have now embarked on an effort to promote active ageing.

San Sebastián is all of these cities in one, a **city to live in and enjoy.** •

The future San Sebastián Metro: 25 million passengers a year

The future Metro railroad network is designed as a high-frequency, high-quality metropolitan transit service for San Sebastián and the surrounding region. The basic layout of the future Metro will improve connections between Lasarte-Oria and the city of Irun, with a link to the Hondarribia airport and the centre of Hondarribia.

Plans for the Metro include nine stations which will enhance public mobility in a corridor characterised by a heavy flow of people, private vehicles and trucks. The corridor accounts for 60% of all movements among the people of Gipuzkoa. Hence, the San Sebastián Metro will also be the metro for the Donostialdea district; and because of the benefits the system will entail, in a certain sense it will also be the metro for all of Gipuzkoa and the border region, which begins in Hendaye, France. An estimated of 25 million passengers per year gives us an idea of the positive impact of this project on society and the environment.

San Sebastián Metro project

<http://www.gipuzkoa.tv/play.php?vid=1011>

- Stations already in existence
- New stations

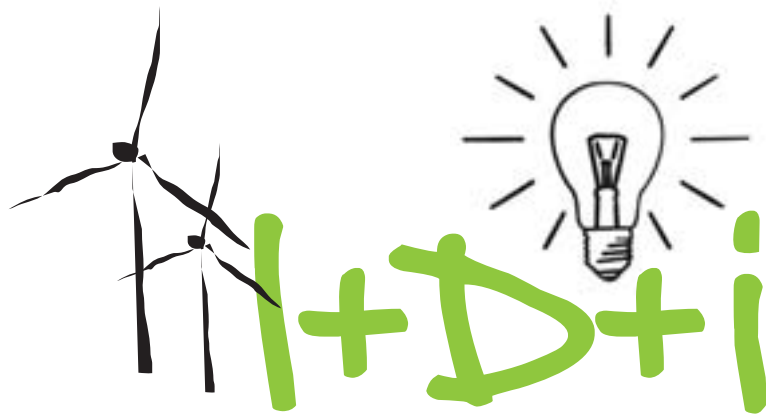


City of science
and knowledge,
with some
1,500
people
dedicated to
research



3. GIPUZKOA: Committed to Innovation

Promoting entrepreneurship and creative capacity



Gipuzkoa is a region committed to innovation and the knowledge society. Its development is underpinned by extensive and selective cooperation between the public and private sector. Strategic projects, programmes and funding provide a favourable setting for encouraging entrepreneurial activity in the area of innovation.

Public-private cooperation. A significant part of the initiatives in Gipuzkoa connected with innovation and the knowledge society are fuelled by joint actions between government bodies and private entities. The idea behind this formula of collaboration between institutions and enterprise is to provide an environment conducive to promoting projects; to attract and retain talent; to innovate and compete by generating knowledge and through cooperation and shared efforts.

Specific model. Gipuzkoa is developing a specific model with characteristics that make it unique: Gipuzkoa is a small area with financial capacity and its own system of taxation, advanced infrastructures, high-ranking universities and research centres, skilled and motivated workforce, a significant

presence in the social economy, a rich network of relations, confirmed potential in emerging sectors and a high quality of life.

Public commitment. The innovation policies promoted by the Provincial Council of Gipuzkoa constitute a firm public commitment both global in scope – encompassing all sectors in the province – and selective, focusing on emerging areas such as biotechnology, nanoscience, renewable energy and geriatric medicine, as well as consolidated sectors such as the machine tool industry.

People: our greatest asset. The innovation model backed by the government of Gipuzkoa, which combines the capacities of both public and private stakeholders, produces a wide and dynamic set of initiatives, with strategic projects and

programmes to generate opportunities in a sustainable manner. The quest for excellence is characteristic of Gipuzkoa, a region whose greatest asset is its human capital, people with a spirit of enterprise who know how to work efficiently and innovatively.

Strategic projects. Under the leadership of the Provincial Council of Gipuzkoa, the region's main economic and social challenges are the focus of the following strategic projects: *Gipuzkoa Aurrera*, *Gipuzkoa+20*, *Estrategia i-gipuzkoa (2010)*, *Gipuzkoa Berritzen (Gipuzkoa 2020)* and *Gipuzkoa Emprendedora*.

Programmes and actions. Programmes that encourage entrepreneurship and creative skills for stakeholders of innovative initiatives revolving around culture and R&D+I are vitally important in

«It is necessary, but not enough to invest in R&D as leading countries. We must also be leading countries in the returns generated from our investments».

José Ramón Guridi.
Regional Councillor for Innovation
and the Knowledge Society



<http://www.gipuzkoa.tv/play.php?vid=841>

underpinning the business fabric of Gipuzkoa.

These programmes and initiatives are applied with a great sense of awareness of the importance of R&D+i for society at large.

Other initiatives to support innovation. Such initiatives include support for enterprising individuals, and strategies aimed at fostering a

culture of innovation at various educational levels. All actions are oriented to fostering innovation in Gipuzkoa. ●

Department of Innovation and Knowledge Society

<http://www.gipuzkoa.net/DFG/berrikuntza-c.html>

<http://www.gipuzkoa.net/DFG/berrikuntza-e.html>

Strategic Office of Gipuzkoa

<http://www.gipuzkoaestrategia.net>

STRATEGIC PROJECTS



→ Gipuzkoa Aurrera: working together

Created in 2008, **Gipuzkoa Aurrera** is a group comprising the Provincial Council of Gipuzkoa, the Donostia-San Sebastián City Hall, the financial institution Kutxa, the Business Association of Gipuzkoa (Adegil), the Gipuzkoa Chamber of Commerce and the Mondragón Corporation. It operates on the basis of sharing diagnostics, and identifies and develops strategic projects for Gipuzkoa,

such as: Home systems laboratory, Structuring the health science system, Information and communication technologies in health, San Sebastián Metro and Intelligent electrical network.

<http://www.gipuzkoa.tv/play.php?vid=203>



→ Gipuzkoa+20: forecasting tool

Promoted by the Strategic Office of Gipuzkoa in 2008, **Gipuzkoa+20** is designed as a public arena for analysis and debate on the future of the province. This forum sets in motion a process of institutional and social learning and preparation for developing the necessary tools for a new political culture. In addition to monitoring the 2020 Gipuzkoa Plan, it has a forecasting function based on current international economic and social trends which will soon become key challenges for Gipuzkoa.

<http://www.estrategiag20.net>
<http://www.gipuzkoa.tv/play.php?vid=886>
<http://www.gipuzkoa.tv/play.php?vid=877>



→ Estrategia i-gipuzkoa 2010: toward the information society



Promoted by the Department of Innovation and Knowledge Society, the i-gipuzkoa strategy for 2010 has a twofold aim. In the first place, **Estrategia i-gipuzkoa 2010** is an effort to shape the information society in Gipuzkoa; the second aim is to promote economic growth, employment and social development.

<http://www.i-gipuzkoa.net>



PROGRAMMES AND INITIATIVES FOR INNOVATION



The programmes and initiatives promoted by the Provincial Council strive to expand innovative thinking and practices among individuals, agencies and organisations in Gipuzkoa. Renovated periodically, these actions are specifically aimed at furthering the innovative capacity of Gipuzkoan society and its driving forces: research networks, public administrations, business, the crafts sector and the educational community (teachers and students).

→ **Gipuzkoa Berritzen (Gipuzkoa 2020):**

R&D+i forum

Developed in 2005 by the Department of Innovation and the Knowledge Society, **Gipuzkoa Berritzen** is a forum in which the Basque Innovation Agency, Innobasque, and relevant R&D+i stakeholders take part to energise the innovative activity in Gipuzkoa. Stakeholders include Public Administrations, universities, companies and technology centres. The initiative's ultimate goal is to propose actions that will bring about greater returns on technological research, development and innovation.

<http://www.gipuzkoaberritzen.net>

→ **Gipuzkoa Emprendedora:** **introduction to entrepreneurship**

Promoted by the Department of Innovation and Knowledge Society, the **Gipuzkoa Emprendedora** project is closely tied to the world of business. The goals of the project are: to promote the spirit of enterprise, foster entrepreneurial thought,



encourage business creation, nurture innovation, and create an administrative and institutional environment that promotes the development of entrepreneurial ideas and the creation of new small and medium-sized enterprises.

<http://www.gipuzkoaemprededora.net>

The culture of innovation is spreading in Gipuzkoa through knowledge creation and combined efforts



4. GIPUZKOA: LAND OF RESEARCH

An advanced framework of research:

When scientific
excellence becomes
essential for society



Gipuzkoa enjoys a sophisticated framework of scientific research and technological development with which it faces the challenges of competitiveness and social well-being. Part of this can be explained by the significant amount of resources earmarked for this purpose – higher than the EU average. Public-private cooperation and innovation in emerging sectors are also among Gipuzkoa's strengths.

Investment efforts. The commitment to scientific research and technological development (R&D) in Gipuzkoa is made clear by a single factor – the budgetary investments undertaken. According to data from 2008 by the Basque Statistics Institute (EUSTAT), Gipuzkoa's R&D expenditure exceeded the EU average, accounting for 2.23% of the Gross Domestic Product (GDP), compared to the 1.90% average for the rest of EU countries. Gipuzkoa's position compared to Spain (1.35%) is even more advantageous.

The investment in Gipuzkoa shows the structure of its economy – a considerable presence in the business

world (owing to the importance of its industrial fabric), the areas of engineering and technology accounting for the greatest expenditure and employment.

In the case of the Provincial Council of Gipuzkoa Department of Innovation and the Knowledge Society, over the past four years more than 50 million euros have gone toward programmes supporting technology centres, universities and R&D+i units.

Human potential. According to figures from EUSTAT (2008), the R&D community in Gipuzkoa stood at 6200 individuals, some 3900 of which were researchers.

Lines of research

The global plans promoted by the Provincial Council of Gipuzkoa (such as the anti-crisis plan for 2010) include initiatives that support R&D+i and bolster science and technology in traditional sectors (such as machine tools), and emerging sectors

or sectors considered promising for the future: biomedicine, health sciences, mobility, renewable energy, electronics or information and communication technologies (ICT).

Gipuzkoa stands out for its network of cooperative research centres (CIC), centres for basic research and excellence (BERC), technology centres, and corporate R&D units operating at advanced levels. Salient examples in the areas of **Nanoscience** and **Nanotechnology** include CIC Nanogune, the Donostia International Physics Center, CIC Biomagune and CIC Microgune; the Centre for Materials Physics, in **new materials**, ETIC in **embedded technologies**; CIC Margune in **high performance manufacturing**; the Matia Centre for Innovation in Ageing in **gerontology**; Biodonostia in the field of **health sciences**; and CIC Tourgune in **tourism**.

This is also the case for technological and applied research within companies [see section 6] ●



Biotechnology Lab, INASMET



Ecotoxicology Lab, AZTI

R&D initiatives are designed to support both emerging areas and the sectors that drive the Gipuzkoan economy

A map of R&D+i in Gipuzkoa: TECHNOLOGY PARKS AND RESEARCH CENTRES*

Below is a selective overview of the research and innovation panorama in Gipuzkoa as seen through its technology parks (Parque Tecnológico), innovation centres (Polo de innovación) and technology and research centres. The R&D+i map, structured here in two parts, is constantly expanding. Part 1 includes technology parks and innovation centres; the second part contains technology and research centres.

Integrated research centres or units applied to companies will be addressed in section 6.

* Basque Science, Technology and Innovation Network (Gipuzkoa). This list of Gipuzkoan technology parks and centres is provided by the Basque Innovation Agency Innobasque in connection with the Basque Science, Technology and Innovation Network (RVCTI in its Spanish initials). Source: <http://www.innobasque.com/home.aspx?tabid=199>

1. TECHNOLOGY PARKS & INNOVATION CENTRES

<http://www.rpte.net>



Technology Park of San Sebastián

TECHNOLOGY PARK OF SAN SEBASTIÁN (MIRAMON)

Donostia-San Sebastián
With extension in Galarreta, Hernani (development stage)
<http://www.miramon.es>
<http://www.gipuzkoa.tv/play.php?vid=1078>

ZUATZU. BUSINESS PARK

Donostia-San Sebastián
<http://www.zuatzuparkea.com>

GARAIA INNOVATION CENTRE

Arrasate / Mondragón
<http://www.pologaraia.es>
<http://www.saiolan.com>

MATIA CENTRE FOR INNOVATION IN AGEING (development stage)

Donostia-San Sebastián
<http://www.polomatia.net>

CENTRE FOR AUDIOVISUAL INNOVATION (PIA) (development stage)

Donostia-San Sebastián
<http://www.fomentosansebastian.org>

GOIERRI INNOVATION CENTRE

(development stage)
Ordizia
<http://www.pologoierrri.net>

2. TECHNOLOGY AND RESEARCH CENTRES

COOPERATIVE RESEARCH CENTRES (CIC)

CIC NANOGUNE (CONSOLIDER).
Nanoscience Cooperative Research Center
Donostia-San Sebastián
<http://www.nanogune.eu>

CIC BIOMAGUNE. Centre for Cooperative Research in Biomaterials
Donostia-San Sebastián
<http://www.cicbiomagune.es>

CIC MICROGUNE. Centre for Cooperative Research in Micro-nanotechnologies (MNT)
Arrasate / Mondragón
<http://www.cicmicrogune.es>

CIC MARGUNE. Centre for Cooperative Research in High Performance Manufacturing
<http://www.margune.org>

CIC TOURGUNE. Centre for Cooperative Research in Tourism
Donostia-San Sebastián
<http://www.tourgune.org>

CENTRES FOR BASIC RESEARCH AND EXCELLENCE (BERC)

DONOSTIA INTERNATIONAL PHYSICS CENTER (DIPC)
Donostia-San Sebastián
<http://dipc.ehu.es>

CENTRE FOR MATERIALS PHYSICS (CFM)
Donostia-San Sebastián
<http://www.cfm.ehu.es>

BCBL. BASQUE CENTER ON COGNITION, BRAIN AND LANGUAGE
Donostia-San Sebastián
<http://www.bcbl.eu>

TECNALIA. TECHNOLOGY CORPORATION

<http://www.tecnalia.info>

INASMET

Donostia-San Sebastián and Irun
<http://www.inasmet.es>

FATRONIK

Donostia-San Sebastián
<http://www.fatronik.com>



Fatronik

CIDEMCO

Azpeitia
<http://www.cidemco.es>

AZTI.

Marine and Food Technological Centre
Pasaia
<http://www.azti.es>

IK4 RESEARCH ALLIANCE

<http://www.ik4.es>

CEIT. Centre for technical studies and research of Gipuzkoa
Donostia-San Sebastián
<http://www.ceit.es>

CIDETEC. Centre for Electrochemical Technologies
Donostia-San Sebastián
<http://www.cidetec.es>

IDEKO
Elgoibar
<http://www.ideko.es>

IKERLAN.
Technology Research Centre
Arrasate / Mondragón
<http://www.ikerlan.es>

TEKNIKER
Eibar
<http://www.tekniker.es>

VICOMTECH. Visual Interaction Communication Technologies
Donostia-San Sebastián
<http://www.vicomtech.es>



Oncology Institute of Kutxa, San Sebastián



Joxe Mari Korta Centre

OTHER CENTRES

JOXE MARI KORTA R&D+i CENTRE
Donostia-San Sebastián
http://www.gipuzkoa.ehu.es/p210-content/es/contenidos/informacion/vrg_indice/es_infraest/korta.html

ERAIKER. Association for research and development in the area of construction
Donostia-San Sebastián
eraiker@gikesa.net

LORTEK. Centre for research in joining technologies
Ordizia
<http://www.lortek.es>

INBIOMED. Institute for Biomedical Research and Technological Development
Donostia-San Sebastián
<http://www.inbiomed.org>

KUTXA ONCOLOGY INSTITUTE
Donostia-San Sebastián
<http://www.onkologikoa.org>

INGEMA. Matia Oncology Institute
Donostia-San Sebastián
<http://www.ingema.es>

BIODONOSTIA INSTITUTE
(development stage)
Donostia-San Sebastián

ARANZADI SOCIETY OF SCIENCES
Donostia-San Sebastián
<http://www.aranzadi-zientziak.org>



Inbiomed

CORPORATE R&D UNITS

Corporate R&D units deal with competitive projects in the area of process improvement and new product development for their own companies or groups. To learn about these units, check the Basque Science, Technology and Innovation Network website at:

<http://www.innobasque.com/home.aspx?tabid=212>

INTERMEDIARY INNOVATION BODIES

Intermediary innovation bodies develop activities associated with the transfer of knowledge and technological applications, the promotion of innovation and training. They also foster entrepreneurial cooperation and the exchange of experiences, and promote access to sources of funding and information. To learn about these units, check the Basque Science, Technology and Innovation Network website at:

<http://www.innobasque.com/home.aspx?tabid=215>



NANOTECHNOLOGY AND NANOSCIENCE

A STRATEGIC LINE FOR GIPUZKOA'S FUTURE

Nanotechnology and Nanoscience are of unquestionable strategic significance for Gipuzkoa. Proof is the existence of leading research centres such as CIC Nanogune, the Donostia International Physics Center, CIC Biomagune and CIC Microgune. The synergies of partnerships with companies and technology centres reinforce this advanced line of research.

Gipuzkoa has laid the foundations for becoming an international player in the field of nanotechnology and nanoscience research. The four top-level centres in Gipuzkoa are the driving force behind an expanding strategic area in the new economy.

Together with the purely research component (which includes the classic disciplines of Physics, Biology, Biochemistry and Materials Engineering), Nanoscience and Nanotechnology hold enormous potential for business and industrial applications across all sectors, with specific developments in regenerative medicine, energy and computing, among other areas.

Synergies

Three young but well-acknowledged centres are located in Donostia-San

Sebastián: the Donostia International Physics Center (DIPC), CIC Nanogune and CIC Biomagune. All three are in the vicinity of the University of the Basque Country Ibaeta campus. Their synergies are reinforced by other leading research centres including the Centre for Materials Physics (CFM), run by Juan Colmenero. CFM is an important centre for scientific research in nanotechnology and the design of new materials for different sectors, including aeronautics, medicine and construction.

Located in Arrasate-Mondragón, CIC Microgune is a body which works in coordination with three research centres: Ikerlan (Arrasate), Tekniker (Eibar) and CEIT (Donostia-San Sebastián). Each centre is equipped with a laboratory designed specially for working with key sectors: health,

energy, food safety and the environment.

Collaboration and synergies, with knowledge and technology transfer, have begun to develop in a promising direction. Thus, CIC Microgune, directed by Carlos Luri, has signed a collaboration agreement with the Biodonostia Institute, directed by Julio Arrizabalaga linked to Hospital Donostia. The goal of the joint venture is to develop new techniques for faster, simpler and more cost-effective medical diagnoses.

The Centre for Cooperative Research in Biomaterials-CIC Biomagune, led by José M. Mato (managing director) and Manual Martín Lomas (science director), has also acquired a relevant position in the highly sensitive area of health care. A new Magnetic Resonance Imaging scanner (one of the most powerful in the world) and a particle accelerator (cyclotron) allow the centre to improve the performance of diagnostic techniques and conduct research in oncology and neurology.



Surface spectrometer, photoelectrons



Heinrich Rohrer and Pedro Miguel Etxenike

© J. Usurz 2009

“Donostia,
a city
of science
and science
in the city”

Pedro Miguel Etxenike,
President of DIPC and CIC Nanogune

Atom by Atom, an international congress

The Donostia International Physics Center and CIC Nanogune joined forces to organise *Atom by Atom into Nanoscience*, a congress which not only generated great interest and support from the scientific community, but also bore witness to the research capacity of these two centres. Invited speakers to the conference included three Nobel laureates: Harold Kroto (Nobel Prize for Chemistry, 1996), Heinrich Rohrer (Nobel Prize for Physics, 1986) and Albert Fert (Nobel Prize for Physics, 2007). The three men expressed their humanist ideas and their empathy with fellow researchers, as well as the men and women who take interest in the *nano-universe*.

Held September 28, 29 and 30, the conference was a dynamic balance of scientific rigour, popular science and art. The driving force behind the event, Pedro Miguel Etxenike (joined by colleagues and former students José María Pitarke, general director of Nanogune, and Igor Campillo, head of the agency Nanobasque) nicely summed up what was made manifest at the conference: "Donostia, a city of science and science in the city."

In Etxenike's judgement a "centre of excellence" has been built up around the Gipuzkoa campus of the University of the Basque Country.

Etxenike underscored his personal commitment and the commitment of the Donostia International Physics Center and Nanogune to "conduct internationally recognised research, to educate, to translate ideas into products and to contribute to the diversification of industry." This commitment is governed by a humanist perspective that encourages creativity and «human quality». ●

Nanotechnology & Nanoscience centres in Gipuzkoa



GIG NANO GUNE (CONSOLIDER) Nanoscience Cooperative Research Center

- > **President**
Pedro Miguel Etxenike
- > **Director**
José María Pitarke
- > **Founded**
2009
- > **Areas of research**
Nanomagnetism
Nanooptics
Self-assembly
Nanobiotechnology
Nanodevices

> **Location**
Tolosa Hiribidea, 76
20018 Donostia-San Sebastián
Phone: 34 943 574 000
Fax: 34 943 574 001
nano@nanogune.eu
<http://www.nanogune.eu>



DONOSTIA INTERNATIONAL PHYSICS CENTER (DIPC)

- > **President**
Pedro Miguel Etxenike
- > **Director**
Juan Colmenero de León
- > **Secretary**
Alberto López Basaguren
- > **Founded**
2000
- > **Areas of research**
Condensed matter physics
Polymers and non-crystalline materials
- > **Location**
Paseo Manuel de Lardizabal, 4
20018 Donostia-San Sebastián
Phone: 943 015 368
Fax: 943 015 600
dipcinfo@ehu.es
<http://dipc.ehu.es>



CIC BIOMAGUNE Centre for Cooperative Research in Biomaterials

- > **Managing Director**
José M. Mato
- > **Science Director**
Manuel Martín-Lomas
- > **Founded**
2006
- > **Areas of research**
Biofunctional Nanomaterials
Biosurfaces
Molecular Imaging
Technological Platforms
Research Support
- > **Location**
Parque Tecnológico de San Sebastián
Paseo Miramón, 182
Edificio Empresarial "C"
Phone: 34 943 005 300
Fax: 34 943 005 301
<http://www.cicbiomagune.es>

“Leading countries not only know what is useful, they are also aware of how useful it is to know”

Pedro Miguel Etxenike,
President of DIPC and CIC Nanogune



Pedro Miguel Etxenike



CIC MICROGUNE

Centre for Cooperative Research in Micro-nanotechnologies (MNT)

- > **Director**
Carlos Luri
- > **Founded**
2004
- > **Areas of research**
Electrochemical and immunomagnetic detection of biological species
Micro- and nano-structuring of metals and polymers
Fluid handling polymers components

Nanostructured materials for gas detection
Organic micro-optoelectronic
Integration of micro/nanosystems

- > **In collaboration with**
IKERLAN (Arrasate / Mondragón)
TEKNIKER (Eibar)
CEIT (Donostia-San Sebastián)

- > **Location**
Apdo. 146
Paseo J. M.^a Arizmendiarieta, 2
20500 Arrasate / Mondragón
Phone: 34 943 712 400
Fax: 34 943 796 944
<http://www.cicmicrogune.es>

5.

GIPUZKOA: Training for knowledge and innovation

Universities and vocational training centres: A network for knowledge, innovation and entrepreneurship



Gipuzkoa's university and technical/professional college network offers a wide range of excellent training opportunities backed by initiatives touching closely upon the company in innovative sectors. Based on public/private cooperation, higher education focuses on entrepreneurship targeting the improved ability of organisations to compete while boosting citizen well-being.

Gipuzkoa's university and technical/professional college map is one of its major assets. As is the case in other areas, its diversity is remarkable.

Five universities

Centuries after the first university in Gipuzkoa was created in 1542 (the ancient University of Oñati) the area can now boast another five of its kind. Of these, two are public: the **Universidad del País Vasco/Euskal Herriko Unibertsitatea** (University of the Basque Country) and the **Universidad Nacional de Educación a Distancia** (National University of Distance Education); and three are private: **University of Deusto**, **University of Navarre** and **Mondragon Unibertsitatea**.

The courses and subjects available at these five universities cover a wide range of constantly increasing educational options adapted to introduction of the Bologna Plan.

Innovative initiatives

In addition to these consolidated centres, recent years have seen the introduction of several particularly innovative initiatives. These include:

- > The **Master's Degree in Technologies for Supporting Personal Autonomy** (organised jointly by the University of the Basque Country Faculty of Science and the Association for the Promotion of Social Technology for training experts in systems for the disabled).
- > The **Mondragon Goi Eskola Politeknikoa Ecodesign Classroom** (at Garaia Innovation Centre in Arrasate/Mondragon).
- > The **Master's Degree in Technical Specialisation for Motor-racing Competitions METCA** (organised by Mondragon Unibertsitatea in collaboration with the company Epsilon Euskadi).
- > And the **Multimedia Language Laboratory** in Donostia-San Sebastián (the result of an agreement signed between the Department of Innovation and the Knowledge Society and the Gipuzkoa Campus of the University of the Basque Country).

But our courses don't come to a halt at the end of term. The University of the Basque Country offers reputed international **Summer Courses** in San Sebastián. In 2009, almost a thousand teachers and over 7,000 students participated in these courses.

AN AGREEMENT TO PROMOTE THE CULTURE OF ENTREPRENEURSHIP

The public/private cooperation formula is applied to fostering entrepreneurship in higher education. Based on this strategic aim, the Department of Innovation and the Knowledge Society, the University of the Basque Country, the University of Deusto, the University of Navarre (Tecnun), Mondragon Unibertsitatea and TKNIKA have all made a commitment to the Gazte Ekintzaile-Gaze project.

This initiative is set around six basic guidelines: governance, cooperation, learning, research, innovation and assessment.

<http://www.gipuzkoa.tv/play.php?vid=808>

Universities and vocational training centres in Gipuzkoa: references

↗ UPV / EHU: Campus de Gipuzkoa
<http://www.gipuzkoa.ehu.es>

↗ UNIVERSIDAD DE DEUSTO
<http://www.deusto.es>

↗ MONDRAGON UNIBERTSITATEA
<http://www.mondragon.edu>

↗ UNIVERSIDAD DE NAVARRA:
Tecnun. Escuela Superior de Ingenieros
<http://www.tecnun.es>

↗ UNED: Centro Asociado de Bergara
<http://www.uned.es/ca-bergara>

↗ LANBIDEZ
<http://www.hezkuntza.ejgv.euskadi.net>

↗ Ikaslan Gipuzkoa
<http://www.ikaslangipuzkoa.net>

↗ TKNIKA <http://www.tknika.net>

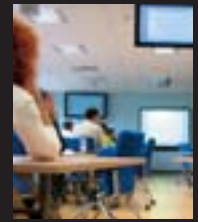
↗ HETEL <http://www.hetel.org>

↗ PROVINCIAL COUNCIL OF GIPUZKOA: DEPARTMENT OF INNOVATION AND THE KNOWLEDGE SOCIETY

<http://www.gipuzkoa.net/DFG/berrikuntza-c.html>
<http://www.gipuzkoa.net/DFG/berrikuntza-e.html>



TKNIKA Networking for vocational training in Gipuzkoa



“The Innovation Centre for Vocational Training and Lifelong Learning (TKNIKA) was created in 2005 by the Basque Government Department of Education, Universities and research to cultivate innovation in teaching vocational training throughout the Basque Country.

TKNIKA approaches innovation from five areas:

- By updating the professional contents taught to students in collaboration with pioneer companies, technology centres and universities.
- Fostering and promoting the use of ICT (information and communication technologies) tools and contents in centre classrooms and management processes.
- By training and transferring knowledge to teachers on innovative matters while advocating new didactic methodologies.
- Through innovative management of vocational training centres (marketing, competency-based management, etc.).
- By encouraging students to be enterprising and motivating the creation of companies.

All of the above is possible thanks to networking between vocational training (VT) centres, TKNIKA and companies by means of projects in the areas indicated. The 24 projects currently underway involve the same number of monitors from TKNIKA, 200 VT teachers and 300 companies. A key part of this framework is the close and extensive relationship between VT centres and the companies in their areas.”

Ramón Martínez de Murgia
[Director of TKNIKA]

<http://www.tknika.net>

Vocational Training Centres

Gipuzkoa has a long background of vocational training closely related to the production sector (particularly to the world of small and medium-sized businesses).

This network draws its strength from the number and variety of centres, their excellent social position, and cooperation between the public and private sectors. It consists of over thirty centres, including public and publicly-funded private schools, particularly focussing on the **industrial** (construction, electricity, electronics, mechanics, wood and furniture, cars, maintenance and production services) and **services sectors** (administration, commerce, marketing, hospitality and tourism, personal image, computer science, health, socio-cultural services,

agricultural and maritime-fishing activities).

Coordinated cooperation and development. Two associations: **Ikaslan**, the Association of Public Vocational Colleges (Ikaslan Gipuzkoa), and **HETEL**, **Heziketa Teknikoko Elkarte**, social initiative centres (publicly-funded), work to qualify and develop these centres. And more specifically, **TKNIKA**, the Centre for Innovation in Vocational Training and Lifelong Learning, in Errenteria, works hand-in-hand with centres and companies to achieve the very highest of qualifications.

Contributions from the Basque Government and the Provincial Council of Gipuzkoa (through its Department of Innovation and the Knowledge Society) complete the effort made by Gipuzkoa to meet the professional challenges of the 21st century. ●



6. GIPUZKOA: ENTERPRISE ON THE CUTTING EDGE

Entrepreneurs and business culture 'made in Gipuzkoa'

The entrepreneurial world in Gipuzkoa, committed to entrepreneurship, innovation and the search for excellence, was given a shot in the arm with the selection of Donostia-San Sebastián as host city for the 2010 European Conference on Competition. In February the event brought together science, technology and innovation ministers from 27 countries in Europe.

Entrepreneurship. The culture of entrepreneurship is one of the hallmarks of Gipuzkoa and the Basque Country. The drive to take on and develop professional initiatives has mainly been associated with small and medium-sized enterprise, the mainstay of Gipuzkoa's economic fabric.

This capacity to design projects and set them in motion has made it possible for a region with such limited natural resources as Gipuzkoa to be so fertile in generating new initiatives. People are Gipuzkoa's greatest source of energy in terms of both skills and deployment.

The Provincial Council of Gipuzkoa is fully aware how important this capital is, supporting the culture of entrepreneurship through a number of programmes. Entrepreneurship is essential to sustain the well-being reached in modern societies, and even more important in times of crisis, in which values such as initiative,

imagination, risk-taking and innovation make all the difference. The Provincial Council does not wish to see a single business idea left behind for lack of support.

Competitiveness

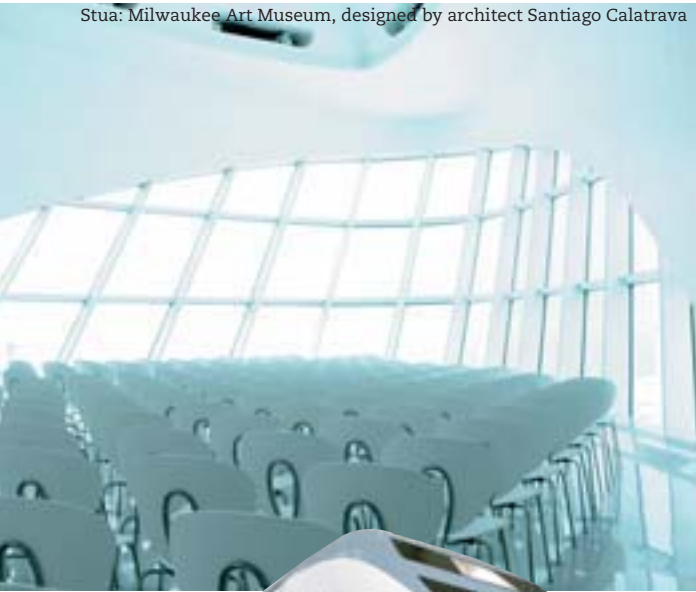
Aware of the challenge posed by today's crisis, Adegı (the Business Association of Gipuzkoa) and the regional Department of Innovation work together to promote programmes which foment business competitiveness in aspects including talent, people management, equality and the re-conciliation of work and family, family-owned business, leadership and business cooperation.

Innovation and internationalisation.

Adegı, the Business Association of Gipuzkoa, specifically develops business gatherings aimed at promoting excellence. Innovation and internationalisation are the two strategic lines. Since the first edition in 1993, nearly 10,000 executives and over 500 companies have taken part in the *AdegıTop* gatherings. At each event a host company shares its experience, and the event is rounded out with meetings with the different universities located in Gipuzkoa.

The **Gipuzkoa Chamber of Commerce** supports Gipuzkoan firms in training and internationalisation processes, thus making it easier for them to access

Stua: Milwaukee Art Museum, designed by architect Santiago Calatrava



CAF

Gipuzkoa's
greatest source of
energy
is its people

international markets. The Chamber provides consulting services on strategic planning, market studies, business missions and trade fairs, setting up offices abroad and other business promotion initiatives,

Design and added value

Incorporating design into culture and productive processes is vital in order to achieve business competitiveness. Ignacio Sola, president of the Basque Association of Industrial Designers, has observed this need.

Stua is an excellent example. Founded by Jesús Gasca in the town of Astigarraga, Stua is dedicated to contemporary furniture. In 2008 the company was awarded the Spanish National Design Award. Stua, an internationally acclaimed company whose furniture can be found worldwide (Petronas Towers in Malasia, the Burj Dubai and the

architects guild in Paris), is the perfect example of a certain type of Gipuzkoan entrepreneurial style - common sense, quality and customer commitment - all part of the *made in Gipuzkoa* brand.

Favourable framework

R&D+i: framework for collaboration. In the structure of Gipuzkoa's business map, the existence of **technology parks, innovation centres** and **research centres** is crucial. The expansion of these initiatives is unstoppable. One example of this is the expansion of the **Miramón Technology Park**. This project is the result of the institutional cooperation between the Provincial Council of Gipuzkoa, SPRI, Donostia-Sebastián Town Hall and Kutxa savings and loan, and **Orona**, a company belonging to the Mondragon Corporation. The project, slated for operation in 2012, will involve the creation of a **Centre for Innovation and Promotion** for a leading business group (Orona) in the lift and elevator industry. Orona has 150 professionals dedicated to R&D+i and has 180,000 elevators in 92 countries around the world.

Shared leadership and public-private collaboration is another characteristic of the far-reaching business initiatives undertaken. The strategic project *Gipuzkoa Aurrera* promotes on a global level this logic of working together.



San Sebastián: Aerial view



Fundación AZTI

Social innovation

Added to the phenomenon of co-operative enterprise (which sets Gipuzkoa apart) is a sense of the importance of social innovation, particularly in sensitive areas: biomedicine, gerontology and health sciences.

From social technology to social innovation. The experience of the Association for the promotion of social technology (Aptes) is noteworthy. Its overall goal is to develop projects which move the pendulum from technology to innovation, supported by public and private funding.

In the case of companies and centres involved in sectors working with special needs, Gipuzkoa stands out for its leadership and time-tested potential. Gipuzkoa is a pioneer in the social services network with groups like **Gureak**, which integrates people with disabilities into the labour market. The business project **Fik** is a successful example of this option. Coordinated by the **Fatronik-Tecnalia** technology centre and companies forming part of the **Miramón Technology Park**, Fik has created prototype patents and improvements aimed at senior citizens, people suffering from Parkinson's disease and patients with psychomotor and neurological disorders. Disability is the focus of social and entrepreneurial innovation and an opportunity to create 'value-added employment'.

Consolidated sectors and diversification of initiatives

In addition to the classic sectors in which Gipuzkoa is both leader and international benchmark, including the machine tool industry (Cecimo, the most

important meeting of machine-tool builders was held in San Sebastián in 2009), other leading companies include

the **Mondragon Corporation** (co-operative business group with areas in finance, industry, distribution and knowledge), **CAF** (manufacture of railway systems), **Irizar** (bus manufacturers), **Ibermática** (information technology) and **Grupo i68** (computer solutions).

The business map is also diversified through sectors in which Gipuzkoa is gaining a heightened profile. The information and communication technology industry is booming, with projects such as **Gaia Net Exchange**: the first Spanish platform set up for companies to exchange documents and information *on-line*, an initiative promoted by the Provincial Council of Gipuzkoa, the GAIA Cluster and a number of companies.

Another promising line will be opened in the audiovisual industry with the **Audiovisual Innovation Centre (PIA)**. Much the same can be said for the sports sector, with **Import Arrasate**, a company specialising in sportswear. The **Ternua** division of Import, specialising in garments designed for fishermen, in collaboration with fishermen and **Fundación AZTI**, received the 2002 Ispo Outdoor Award. This was one of the many projects that shape the pursuit of excellence exemplified by Gipuzkoan businesses. ●

Shared leadership and public-private collaboration

The culture of entrepreneurship is one of the hallmarks of Gipuzkoa

Adegi

<http://www.adegi.es>

Gipuzkoa Chamber of Commerce

<http://www.camaragipuzkoa.com>

CAF

Construcciones y Auxiliar de Ferrocarriles:

Trains for the future



CAF facility in Beasain

Construcciones y Auxiliar de Ferrocarriles (CAF) is one of the international market leaders in the design, manufacture, maintenance and supply of equipment and components for railway systems. CAF has operations in countries including the United States, China, India, Saudi Arabia, Algeria, Turkey, Belgium, Finland, France, the Netherlands, Hungary, Ireland, Italy, Portugal, Argentina, Brazil, Chile and Mexico.

CAF was founded in 1917 in Beasain, Gipuzkoa, where it established its corporate headquarters. In 1992 the company expanded internationally, increasing sales and exports and extending its manufacturing, maintenance and technical assistance network around the globe.

Several factors contribute to CAF's success. One of the most important is company's R&D+i efforts aimed at enhancing the quality, security and comfort of railway transport. Innovation and the development of new technologies is one of the pillars of CAF's strategic plan. The company's

Technology Plan reinforces research, coordinates technology-related activities and promotes collaboration between different stakeholders and companies at both the national and international level.

CAF innovation centre

In order to step up this strategic line, Grupo CAF has launched an ambitious project to create an **innovation centre in the area of mobility** prepared to make the most of the capabilities and experience that already exist.

The new centre, located in the town of Ordizia and known as **Agarre Gune Teknologikoa**, will serve as a **meeting point for knowledge-generation stakeholders**. Grupo CAF seeks to create an **opportunity hub** for its technology-based subsidiaries by providing a space to interact with **other companies in the sector** that move into the technology complex.

Agarre Gune Teknologikoa has the necessary tools to fuel **applied research in the area of mobility**, promote the development of **highly skilled**

professionals, foment a culture of entrepreneurship by contributing to high value-added **business projects**, and **attract innovative** initiatives in a climate of excellence.

Nearly 90 million euros have been invested in the construction of the technology centre. The first of the buildings is expected to be up and running in 2011. ●

Cutting-edge
technology
at the service of
quality, security
and comfort

CAF. Construcciones y Auxiliar de Ferrocarriles

<http://www.caf.net/ingles>

MONDRAGON Corporation: A collective enterprise reaching out to international markets



Structure by Construcciones Urssa built for the Marqués de Riscal Hotel & Restaurant (Elciego, Alava) designed by F. Gerhy. Orbea bicycle.



The MONDRAGON Corporation, comprising over 250 entities, is the leading business group in the Basque Country, the seventh biggest in Spain and the world's largest federation of worker co-operatives. Its origins are linked to José María Arizmendiarieta, an enterprising priest who in 1943 set up a Polytechnic School in Gipuzkoa, in the industrial town of Arrasate-Mondragon, where the corporation is headquartered today.

Today the MONDRAGON Corporation's **outreach is worldwide**. The Corporation's ongoing international development can be seen in the recent creation of an industrial park in Kunshan, near Shanghai, China's economic capital.

MONDRAGON Corporation, with a workforce of 90,000, is divided into **four areas of activity**: Finance, Industry, Retail and Knowledge. The Mondragon logo features these four areas, in addition to the slogan *Humanity at work*.

Knowledge

In the words of General Council Chairman, José María Aldecoa, the **Knowledge division** is one of the main aspects that sets the MONDRAGON Corporation apart. The Corporation is committed to ongoing investment

in education, training and technological innovation in the co-operative environment.

In the **area of education**, the Corporation stands out for its vocational training centres and **Mondragon Unibertsitatea** (University of Mondragon), both of which provide the workforce for the group's companies and co-operatives. University classes apply the *Corporate Science and Technology Plan*, and *Mondragon Ekiten*, a programme geared to boost entrepreneurship "among students and lecturers, in order to generate employment and improve competitiveness through the development of business projects".

As for **technological innovation**, MONDRAGON Corporation allocates funds for the R&D departments at the cooperatives, the activities carried out by its 12 technology centres, the *Corporate Science and Technology Plan* and the Garaia Innovation Centre, considered a *Space of Excellence* within the Corporation.

This and other entrepreneurial initiatives follow the spirit and words of wisdom spoken by **J. M. Arizmendiarieta** in the early days of the MONDRAGON Corporation:

«However splendid the present might be, it is destined to fail if it turns its back on the future»



MONDRAGON Corporation

<http://www.mondragon-corporation.com>
<http://www.mondragon-corporation.com/ENG/Who-we-are/Corporate-Video.aspx>

INNOVATION AT THE MONDRAGON CORPORATION

“**T**echnological innovation and training, two activities included in the Knowledge Area of the MONDRAGON Corporation, have been essential pillars for the Corporation's development. Both are key factors in the competitiveness of the partner firms and in generating qualified labour. The most recent data available (2008) illustrate this assessment.

In terms of major figures for 2008, the Corporation generated total revenue of just under 16.8 billion euros, 1.2 billion of which corresponded to Financial activity, 9.1 billion to Distribution, and 6.5 to Industry. International sales



accounted for 58.2% of total turnover from industrial activity.

In 2008, a budget of 143.3 million euros was earmarked for INNOVATION in the industrial area, which means 7.7% over added value went to R&D+i; 79 new patents were registered, accounting for a total of nearly 700 patents in force, and 20% of all the products and services sold had been designed and developed within the previous five years. A total

of 1500 people are currently dedicated to innovation-related tasks in the industrial area.

Technological Innovation and Knowledge

Technological Innovation at MONDRAGON revolves around the R&D departments of the Co-operatives and their affiliates, the Corporate Science and Technology Plan, and the activity at the 12 Technology centres and the Garaia Innovation Park

2008 saw the culmination of the four-year **Science and Technology Plan**, with the participation of co-operatives, technology centres and the University of Mondragon in different projects, including 18 Cent projects and another 34 international projects. A new Science and Technology Plan has been designed for 2009-2012. The main projects will revolve around five lines of technology: new materials and manufacturing systems, ICTs, energy and sustainability, health and business management.

'MONDRAGON Corporation was selected one of the ten 'Most Admired European Knowledge Enterprises'

As for the **12 Technology Centres** - with a workforce of more than 750 and a total budget of over 50 million euros - we should underline the fundamental role they play in the development of the sectors in which their activity takes place: the Ikerlan Research Centre (Ikerlan-IK4), MONDRAGON's reference in innovation, focuses its work on mechatronics, nanotechnology and areas linked to energy; Aotek is dedicated to automation and optics; Edertek, to components for automation; ETIC-Embedded Technologies, to the field of embedded technologies; Fagor Hometek, to home systems and electrical appliances; Ideko-IK4, to machine tools; Isea is a centre for innovation in advanced business services; Koniker is a technology centre specialising in forming and assembly; Lortek is dedicated to joining processes; Maier Technology Centre, to thermoplastic parts and assemblies; Orona EIC is an Elevator Innovation Centre; and UPTC is

dedicated to packaging technology.

The goal of the **Garaia Innovation Centre** is to become a 'Space of Excellence', where relations between the University, Technology Centres and companies will be strengthened. It is worth noting that in recent months Garaia has taken a major step forward with the official inauguration of Edertek; ETIC was created from an agreement signed with Microsoft for the use of embedded technologies in the development of embedded systems; construction of Ikerlan-IK4, Microgune cooperative research centre, dedicated to research in micro-nanotechnologies, and construction of the Centre for Technological Innovation in Electronics of the University of Mondragon.

The **University of Mondragon** is an important element within the area of Knowledge. Mondragon is a co-operative style university, which combines the development of knowledge, skills and values and maintains close relations with business, especially co-operatives. The University of Mondragon was the first Basque institution of higher education to adapt its degree programmes to the Bologna process, taking advantage of the experience garnered since 2000 with the implementation of the 'Mendeberri' education project. Between undergraduate and graduate programmes, some 4000 students are enrolled at the University.

European recognition

Recently MONDRAGON figured as one of the **Ten Most Admired European Knowledge Enterprises** in the MAKE report published by Teleos, an independent knowledge management and intellectual capital research firm, in association with The KNOW Network. That was the second time the Corporation was awarded this distinction, bestowed that same year on nine other companies of international prestige: BBC and British Petroleum (UK), Ericsson and Ikea (Sweden), Nokia (Finland), Royal Dutch Shell (Netherlands/UK), SAP and Siemens (Germany), and Uría Menéndez, a Madrid-based law firm.”

MONDRAGON Corporation

7. GIPUZKOA: CONTEMPORARY ART AND CULTURE



The cultural calendar of San Sebastián alone boasts an impressive array of events. Added to this is the wealth of attractions, entertainment and activities offered throughout the province, once again demonstrating Gipuzkoa's astounding capacity to generate ideas and make them work.

Cultural events to relish

There are many ways to enjoy the programme of cultural events and historic sites in Gipuzkoa. Gipuzkoa's rich past, present and future can be seen in various locations throughout the province. The list of events and activities revolve around cinema, music, theatre, dance, puppets, museums, fashion, modern art, historical monuments, archaeological sites and centres for creative activity.

Cinema, photography and advertising.

A magnificent venue for showcasing images, San Sebastián hosts a number of acclaimed film events: the **San Sebastián International Film Festival (Zinemaldia)**, the **Horror and Fantasy Film Festival**, the **International Underwater Film Festival**, the **Human Rights Film Festival** and the **Surfilm Festival**. The **Basque Film Library** also has its offices in the city.

As for photography, one of the most important venues is the **Photomuseum** in Zarautz.

The annual **El Sol Latin American Advertising Festival**, is both a showcase and a space for creativity. Last year's event



Aquarium



Sculpture by Jorge Oteiza

attracted over 1,500 professionals from advertising agencies in 18 countries.

Music.

Gipuzkoa sets the stage for music of all types. Annual events include the **Jazz Festival (Jazzaldia)**, visited by over 100,000 people last year, and the **Classical Musical Fortnight**, one of Spain's finest music festivals. In 2009 the programme of classical music concerts captivated more than 50,000 music-lovers.

The **International Choral Competition** hosted in Tolosa is yet another festival with a long track record.

Theatre, dance and puppets.

Performing arts are alive and well in Gipuzkoa. Some of the most outstanding companies and events include the **Itinerarte** theatre group, **Muestra de Teatro Joven**, a young actors theatre showcase hosted in Irun, the **Teatro de Bolsillo** festival featuring small-scale performances staged at local coffeehouses, schools, and other venues throughout San Sebastián, the cross-border dance festival **Dantza Hirian** and the **Theatre Festival of Eibar**. The **International Puppet Festival of Tolosa (Titirijai)**, now a signature event known Europe-wide, is supported by the

Tolosa International Puppet Centre (Topic), a showcase and European reference for the art of puppetry.

Museums and other centres of culture.

Koldo Mitxelena Kulturunea in San Sebastián is a library and cultural centre that boasts a busy calendar of exhibits and public events. Both the **Naval Museum (Untzi Museoa)** and the **Aquarium** invite visitors to take an in-depth look at history and the sea.

The **Chillida-Leku Museum** located in the town of Hernani is a harmonious blend of nature and architecture (the Zabalaga farmhouse) featuring the work of sculptor Eduardo Chillida.

Also noteworthy are the **Museum of Science (KutxaEspacio)**, the **San Telmo Museum** (reopening soon following renovation), and the **Kursaal Conference Centre**, now celebrating 10 years of cultural events. Designed by architect Rafael Moneo, the Kursaal Centre won the 2001 European Union Prize for Contemporary Architecture.

The International **Contemporary Culture Centre, Tabakalera**, a factory for visual culture, and **Arteleku**, a reference in the area of artistic debate and creation, are



two more of San Sebastián's cultural hotbeds.

Our cultural journey also has other interesting stops in Gipuzkoa. The town of Villabona houses the **Mintzola** centre dedicated to Basque oral culture.

And for a journey through history, we can stop in Zestoa to visit **Ekainberri**, a replica of the Ekain cave and its Palaeolithic cave paintings. Among the many other history museums in Gipuzkoa are the **Oiasso Roman Museum** in Irun, and the **Zumalakarregi Museum** in Ormaiztegi.

As for the world of fashion and design, in 2011 visitors will also be able to enjoy the **Balenciaga Museum** in the town of Getaria. Dedicated to Gipuzkoa-born fashion designer Cristobal Balenciaga, the museum will showcase the designer's many achievements in *haute couture*. Also slated to open in 2011 is the **Gipuzkoa Furniture Heritage Centre (Gordailu)** in Irun.

Spiritual heritage.

Other options include the **Sanctuary of Loiola** in Azpeitia, birthplace of the founder of the Jesuits, Ignatius Loyola, and the **Basilica of Arantzazu** in Oñati,

where under the Arantzazu Gaur Foundation and the Basque Innovation Agency (Innobasque), Franciscan monks are currently working on a project intended to become an international benchmark in the pursuit of human values.

Virtual journey.

The Internet is also a good place to explore Gipuzkoa. At **GureGipuzkoa.net** visitors will find digitized images of Gipuzkoa's past and present. This initiative is one of three web-based projects promoted by the Provincial Council of Gipuzkoa that will allow the public to visit museums online and access other culture-related content.

Home-grown culture

As important as they may be, all of the sites, sounds and attractions listed above wouldn't be possible without Gipuzkoa's home-grown cultural fabric and talented people with new ideas active in a wide range of disciplines. In the next issue of this publication we'll have a look at some of them.

San Sebastián, 2016 candidate for European Capital of Culture:

«Waves of People Energy»

San Sebastián's bid for European Capital of Culture 2016 is seen as a unique opportunity to rethink the city. To do this we need to build a strategy centred around innovation and founded on widespread participation and collaborative efforts between public and private stakeholders.

San Sebastián's candidature is spearheaded by the City Council, the Provincial Council of Gipuzkoa and the Basque Government.

The overriding concept for the candidature, expressed in the slogan «Waves of People's Energy», is based on three focal points:

- 1 → Culture of Peace and Education in Human Values
- 2 → The City of Words
- 3 → The Atlantic Eurocity



Chillida-Leku Museum



Replica of the Ekain cave

CULTURE IN GIPUZKOA CENTRES AND MUSEUMS: VARIOUS REFERENCES

Kursaal Conference Centre

<http://www.kursaal.com.es>

Tabakalera. The International Contemporary Culture Centre

<http://www.tabakalera.eu>

Koldo Mitxelena Kulturunea

<http://kmk.gipuzkoakultura2.net>

Chillida-Leku Museum

<http://www.museochillidaleku.com>

Naval Museum

<http://um.gipuzkoakultura2.net>

Aquarium

<http://www.aquariumss.com>

Museum of Science (KutxaEspacio)

<http://www.miramion.org>

San Telmo Museum

<http://www.museosantelmo.com>

Zumalakarregi Museum

<http://zm.gipuzkoakultura2.net>

Oiasso Roman Museum

<http://www.irun.org/oiasso>

Ekainberri

<http://www.ekainberri.com>

Topic. Tolosa International Puppet Centre

<http://www.topictolosa.com>

Basque Film Library

<http://www.filmotecavasca.com>

Photomuseum. Argazki & Zinema Museoa

<http://www.photomuseum.es>

Arteleku

<http://www.arteleku.net>

Eresbil. Basque music archive

<http://www.eresbil.com>

Sanctuary of Loiola

<http://www.santuariodeloyola.org>

Basílica / Sanctuary of Arantzazu

<http://www.arantzazukosantutegia.org>

*For more information about centres and museums check the online Kultura Web directory provided by the Provincial Council of Gipuzkoa Department of Culture and Euskera: <http://www.gipuzkoakultura.net>



Oiasso Roman Museum, Irun



Fotomontage, Balenciaga Museum, Getaria

Provincial Council of Gipuzkoa Office for the Promotion of Culture and the Basque Language

<http://www.gipuzkoa.net/DFG/kultura-c.html>

<http://www.gipuzkoa.net/DFG/kultura-e.html>

Kultura web <http://www.gipuzkoakultura.net>

Gure Gipuzkoa <http://guregipuzkoa.net>

8. Gipuzkoa: The culinary crème de la crème

Gipuzkoa and the Basque Culinary Center project:
The European University of Gastronomic Sciences



Juan Mari and Elena Arzak



Pedro Subijana



Martín Berasategui

Gipuzkoa's culinary movement has given enormous drive to the popularity of haute cuisine. In addition to its fine eateries, the province hosts a variety of international events including the *San Sebastián Gastronomika* conference or cutting-edge projects like the Basque Culinary Center

popularising haute gastronomy and auteur cuisine. Three of the seven establishments in Spain to have been awarded three stars in the French Michelin Guide 2010 (the red guide) have their home in Gipuzkoa: the afore-mentioned Arzak (Arzak: <http://www.arzak.info/>), Subijana (Akelarre: <http://www.akelarre.net/>) and Berasategui (Martín Berasategui: <http://www.martinberasategui.com/>).



Catering School of Luis Irizar

BASQUE NOUVELLE CUISINE:
experiment and innovate

- > The forebear of Basque Nouvelle Cuisine was the chef Luis Irizar, creator in Zarautz in 1967 of the first Basque Catering School, where a number of today's innovating chefs learned their trade, including Pedro Subijana, Karlos Argiñano or Ramón Roteta. Juan Mari Arzak also contributed with his teachings to the development and recognition of this avant-garde, experimental cuisine, backed by the joint efforts of Subijana and the new generations, particularly Martín Berasategui and Andoni Luis Aduriz.
- > All of these chefs share enormous dedication combined with the desire to experiment and innovate. «You get nowhere without research» sustains Arzak, for whom «Gipuzkoa is pure genius, we've crossed all borders with it».

The culture of eating places Gipuzkoa in a realm of its own. Alongside the widespread ability to appreciate and enjoy food well-cooked, we find the high-flying echelons of haute cuisine proposed by the restaurants and establishments of Gipuzkoa, internationally recognised for the excellent quality of a work drawing strongly on research and innovation. Yet such an achievement detracts absolutely nothing from the ongoing wealth of traditional provincial cookery and exquisite respect for its basic ingredients.

Haute cuisine. The acclaimed recognition of chefs like Juan Mari Arzak, Pedro Subijana, Martín Berasategui, Andoni Luis Aduriz, Hilario Arbelaitz or Dani López has gained even greater strength thanks to the weight of a heterogeneous although clearly-defined group responsible for

Nowhere else can
boast so many
Michelin stars in
one area: 15

Innovative initiatives. But in addition to the status acquired for the excellence of their establishments is the pivotal influence exerted by these chefs, whether separately or as a group, with their common spirit of promoting innovative initiatives as an active contribution to achieving top-notch professionals (the Basque Culinary Center, the Faculty of Gastronomic and Culinary Sciences: <http://www.bculinary.com/>), not to mention the impact of international conferences (*San Sebastián Gastronomika* congregates the best chefs in the world and professionals in the sector: almost 10,000 in 2009). ●



The Basque Culinary Center project: Innovative professional training

BCulinary: Six lines of study and R&D+i

The Basque Culinary Center will focus on 6 lines of study:

- Nutritional education and habits
- Social responsibility in the area of nutrition (biodiversity, agroecology, etc.)
- Nutritional trends (health and wellbeing)
- Innovation in managing companies in the sector
- Development of associated technologies (restaurant and catering equipment, new installations, etc.)
- Preparation, benefits and preservation of foodstuffs

This R&D+i centre will also provide the structure for a network of national and international researchers.

The Basque Culinary Center (BCulinary) is a strategic project underway in Gipuzkoa to create an internationally recognised university campus dedicated to haute cuisine and the culinary arts. This first gastronomy university in Spain and second in Europe aspires to place itself among the five top centres of its kind worldwide. The complex is expected to open its doors in 2011 with Joxe Mari Aizega as its Director.

BCulinary has four core objectives: to back research and knowledge transfer among players in the sector; to maintain the position of Basque and Spanish culinary know-how at the forefront of haute cuisine and innovation by producing skilled professionals; to generate sustainable development in gastronomic culture, food education and trends; and to promote the Basque Country and Spain as benchmarks for the very best in haute cuisine across the globe.

Teaching and research

Activities at BCulinary will revolve around innovative, qualified education taught at the Faculty of Gastronomy and

Culinary Sciences, and research/innovation work at the Gastronomic Science Research and Innovation Centre. A company forum managed by the Gipuzkoa Chamber of Commerce will also see the light to foster innovation in the food and hospitality sector.

The Faculty of Gastronomy and Culinary Sciences, promoted by Mondragon Unibertsitatea, will offer a Degree in Haute Cuisine, post-graduate courses, lifelong training for working professionals and courses for culinary enthusiasts. Enrolment is available for up to 300 students.

The campus will stand alongside Miramón Technology Park in Donostia-San Sebastián. The building, designed by the Gipuzkoan architects Vaumm Arquitectura y Urbanismo, is adventurous and representative. Its storeys are construed to resemble a pile of plates; an image identifying this centre for culinary training and innovation.

Public/private initiative

BCulinary is the result of joint public/private initiative bringing together not only top chefs, but the university (headed by Mondragon Unibertsitatea) and Public Administration bodies: San Sebastián City Council, the Provincial Council of Gipuzkoa Department of Innovation and the Knowledge Society, the Basque Government and the Spanish Ministry of Science and Innovation. The endeavour is expected to cost somewhere in the region of €14 million.

The Foundation to manage BCulinary has signed collaboration agreements with different associations, including the Spanish Royal Academy of Gastronomy, the Euro-Toques European chefs' organisation and the Spanish National Research Council (CSIC). ●

Basque Culinary Center

<http://www.bculinary.com>
<http://www.gipuzkoa.tv/play.php?vid=628>
<http://www.gipuzkoa.tv/play.php?vid=640>
<http://www.gipuzkoa.tv/play.php?vid=965>

9 GIPUZKOA: SPORTS OLD AND NEW

**Organisational, technological
and social innovation**
for amateur and competition sports



Hondarribia rowing team

Innovative sports initiatives find their development in a sector strongly rooted in Gipuzkoa. The Provincial Administration and different stakeholders promote innovation in technology, organisation, administration and even on the social front.

Elite and amateur sport. Sport in Gipuzkoa is as varied as it is socially widespread and intensely practiced. Elite and competition sports rub shoulders with their amateur counterparts in events outstanding for the high participation rates of athletes and spectators. The Behobia-San Sebastián race, with over 18,000 runners registered for its last edition, highlights the popularity of sport in Gipuzkoa. These events have an excellent organisational structure and are socially backed to an extent always remarked upon by visitors.

Traditional sport. Gipuzkoa's sporting calendar gains in strength with the different traditional or rural sports still practiced today, such as rowing (boat-racing competitions), pelota games, stone-lifting or log-chopping.



Epsilon Euskadi

Competition sport. The public/private sponsorship formula launched by Fundación Kirołgi has become a benchmark since its creation over 10 years ago. Formed by the Provincial Council of Gipuzkoa and some twenty companies, this endeavour backs top-level teams, clubs and athletes.

Training, research and innovation:

The mainstays of sports policies in Gipuzkoa

Backing training, research and innovation constitutes one of the ten basic mainstays of sports policies in Gipuzkoa. This initiative, channelled by the Provincial Council of Gipuzkoa through its General Directorate of Sports, takes shape in actions such as:

- > Promotion and funding of KIROLBEGI, the Gipuzkoa Sports Observatory, primarily concentrating on social innovation.
- > Collaboration agreement with GAIA, the Basque Association of Industries for Electronic and Information Technologies.
- > Collaboration in the creation and fostering of CINVIDERE, the Virtual Sports Research Centre.
- > Agreement with the Valencia Biomechanics Institute (IBV) for the development of projects at KIROLARTE, the Sports Management Resource Centre.
- > Training initiatives plus research and development projects through KIROLARTE, set around a yearly programme.
- > Collaboration with the Department of Innovation and the Knowledge Society for the introduction of emotional intelligence training aids.

This strategic line of backing for innovation in sports is rounded off with the funding of specific R&D+i projects and participation of the Advisory Committee of the Spanish Sports Industry Technological Platform (PTEID).

<http://www.kirolzerbitzua.net/home-c.asp>
<http://www.kirolzerbitzua.net/documentos/2008-2011cast.swf>



Waves in Zarautz

Riding the waves: sport, professional training and industry

MARINE ENVIRONMENT. Gipuzkoa offers surfers a privileged environment. The size and condition of the waves, particularly on the stretch of Basque coast running between Donostia-San Sebastián and Zarautz, make this a must among the European surfing favourites.

TOURIST POTENTIAL. And being so attractive for surfers means the influx of a specific kind of tourist who respects the sea. That's how Basque Tour (the Basque Tourist Agency) and the local and provincial administrations conceive the subject in their plans of action. The boards with pictograms found on the major surfing beaches reflect the effort to display the sport and tourist options available on the Basque coast while providing useful information.

STATE-OF-THE-ART INDUSTRY. The surf industry in Gipuzkoa has its international representative in the producers of surfing products, Pukas. Founded in 1973 in San Sebastián, the company has sold over 70,000 surfboards worldwide. These producers of top-range articles who destine 50% of their production to exports have now brought out a specialised clothing range.

EDUCATIONAL INNOVATION. This aspect of the company experienced a boost, in 2009, with the creation of an Advanced Course on the Marketing & Management of Surfing and Boardsports, organised and taught by Mondragon Unibersitatea in Irun. This is the first post-graduate course of its kind in Spain.

MOVIES AND CULTURE. In addition to the above, among other initiatives, is the Surfilm Festival film fest, now in its seventh year and offering parallel cultural activities in Donostia-San Sebastián.



Surfilm Festival

Social and company participation.

This sports framework, fostered by the public/private network, has a strong hold in Gipuzkoa thanks to its social backing and teams of volunteers, not to mention the hugely positive input from enterprises specialising in the field. Companies like the sportswear manufacturers Import Arrasate ([Temua: http://www.temua.com/](http://www.temua.com/)) and Astore: (<http://www.astore.es/>); STT (<http://www.stt.es/>), an engineering and systems firm with sports simulation applications; and Epilson Euskadi (<http://www.epilsoneuskadi.com/>), a motor-racing team responsible, along with Mondragon Unibersitatea, for creating the Master's Degree in Motor-Racing Competition.

Social innovation. But in addition to technological innovation in centres and companies is the social aspect, an

enormously important factor in Gipuzkoa. Working with the disabled thanks to the Gipuzkoan Federation of Adapted Sports, created in 2002 and consisting of several clubs, is one example.

The Adapted Sports Centre, scheduled to open in 2011 in Donostia-San Sebastián, will be an exceedingly important social and sports initiative.

Golf in Gipuzkoa. And last but not least, Gipuzkoa and its countryside invite us for a round on any of its four courses, one of which –the Real Nuevo Club Golf de San Sebastián Basozabal– was designed by the golfer José María Olazabal. ●

Fundación Kiroldgi
<http://www.kiroldgi.org>



Basozabal Golf Course in San Sebastián

10 GIPUZKOA IN FIGURES

Gipuzkoa:

A profile for innovation and the knowledge society

Source: INE (Spanish National Statistics Institute)

POPULATION (People)	2009
	705,421

Source: EUSTAT (Basque Statistics Office)

GDP PER CAPITA (€)	2001	2002	2003	2004	2005	2006	2007	2008
	21,901	22,797	24,038	25,630	27,250	29,651	31,714	32,409

Source: EUSTAT

R&D EXPENSE (% of the GDP)	2001	2002	2003	2004	2005	2006	2007	2008
Gipuzkoa	1.44	1.47	1.62	1.65	1.71	1.78	2.05	2.23

Source: EUSTAT

R&D PERSONNEL (full-time equivalent)	2001	2002	2003	2004	2005	2006	2007	2008
	3,893	4,027	4,448	4,698	5,056	5,392	5,879	6,236

(*): Figure as yet unknown

With R&D expenses standing at 2.23% of the GDP, Gipuzkoa is above the European Union (1.90%) and Spanish (1.35%) averages [Source: EUSTAT]

Source: MINISTRY OF INDUSTRY, TRADE AND TOURISM

EXPORTS (thousands of euros)	2008
	6,615,117
By destination (%)	
European Union	65.9
France	19.6
Germany	13.9
Italy	7.4
OCDE	74.4
USA	3.0
Latin America	8.1
Asia	8.8
By product (%)	
Foodstuffs	3.2
Energy products	0.1
Raw materials	0.9
Semi-manufactured products	29.9
Capital goods	49.6
Automotive industry	10.9
Durable goods	2.7
Consumer goods	2.6
Other goods	0.2

54.5% of all exports in 2008 were of a medium-high technological level

Exports in Gipuzkoa in 2008 came to 28.9% of the GDP, while imports came to 17.1%

[Source: CHAMBER OF COMMERCE OF GIPUZKOA]

DEPARTMENT OF INNOVATION AND THE KNOWLEDGE SOCIETY
(Monitoring de la Gipuzkoa Innovadora)
<http://www.i-gipuzkoa.net>

EUSTAT. Basque Statistics Office
<http://www.eustat.es>

CHAMBER OF COMMERCE OF GIPUZKOA
<http://www.camaragipuzkoa.com>

GIPUZKOA
berrikuntza lurraldea



Gipuzkoako Foru Aldundia
Diputación Foral de Gipuzkoa
Berrikuntzako eta Jakintzaren Gizarte Departamentua
Departamento de Innovación y Sociedad del Conocimiento

Innovation: our way of growing



In Gipuzkoa the spirit of innovation is alive and well in our companies, in our technology centres and at our universities. But that's not enough. Our goal is more ambitious. We want the commitment to innovation in technology, processes, products and services to permeate all of our organisations and people, both economically and socially.

Gipuzkoa has a challenge and we want to share it.

provincial council innovation



Gipuzkoako Foru Aldundia
Diputación Foral de Gipuzkoa
Berrikuntzako eta Jakintzaren Gizarteko Departamentua
Departamento de Innovación y la Sociedad del Conocimiento

GIPUZKOA
land of innovation

www.igipuzkoa.net