

eureka

Spanish Chairmanship
2000 - 2001

FINAL REPORT



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Projects announced by the Ministerial Conference of Madrid

The Spanish Chairmanship Team



The Spanish Chairmanship in images



NPC#2
Barcelona, 24-25 January 2001



Meat 21
Barcelona, 11-12 May 2000



German Chairmanship. Ministerial Conference
Hanover, 21-23 June 2000



NPC#3
Málaga, 4-5 April 2001

Venture Capital Discussion Forum
Valencia, 17 October 2000



HLG#2
Málaga, 5-6 October 2001



INTERPARLIAMENTARY CONFERENCE
Madrid, 17-18 May 2001



EUROTOURISM
Santander, 23-25 November 2000



HRH The Prince of Asturias and Ministers
Madrid, 28 June 2001



Auto 2005
Valencia, 25-26 November 1999



HLG#1
Valencia, 18-19 October 2000



MINISTERIAL CONFERENCE
Madrid, 28 June 2001



NPC#1
Valencia, 17-18 October 2000



HLG#3
Madrid, 27 June 2001



NPC#4
Toledo, 26 June 2001



Her Excellency the Spanish Minister of Science and Technology, Mrs Anna M. Birules

Once completed the Spanish Eureka Chairmanship, whose organization we enthusiastically undertook more than a year ago, I am pleased to present this Annual Report in which we confront the objectives underlying the programme of our Chair and the results attained until the end of the term.

Since the beginning, the Spanish Eureka Chairmanship was undertaken with a determined spirit of renewal under the motto “Boosting Technology for a New Era”, and, in this respect, we must be satisfied with the outcome both in terms of openness towards trans-border cooperation and the development of technological innovation in the service sector, and the impulse given to fast-growth innovative companies.

In fact, the programme has experienced a relevant drive, mainly thanks to the mechanisms and instruments used, that has helped the generation of projects, the basic objective for Eureka. The fact remains that all of it has made Eureka reach the number of 190 generated projects during the Spanish Chairmanship 2000-2001.

As regards the international reach of Eureka, the Ministerial Conference of Madrid 2001 passed the new Madrid Amended Rules, including the figure of Associated Country, a new category that opens the participation in Eureka to countries beyond the European environment.

On the other hand, we must keep on working towards a closer coordination between European policies for technological development and support for research, mainly focused on the creation of the European

Research Area (ERA). This is why we consider of interest the contributions emerged from the Coordination Workgroup between Eureka and the European Commission, whose meetings started this very year and whose first conclusions have been concentrated on the areas of strategic projects and the encouragement of SMEs participation in European technological cooperation.

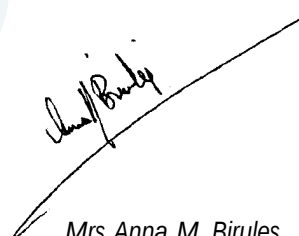
SMEs themselves, for their significant importance in the European economy, have been amongst the main actors present in our Chair Programme right from the start. The traditional Eureka “bottom-up approach” is unquestionably an attractive model for this kind of organizations, as assessed by the important number of SMEs involved in Eureka projects, which means a 40% of the total number of participants in the history of the Eureka Initiative.

The most important factor for the development of technology-based, fast-growth SMEs is funding, mainly on the start-up stage, and Eureka provides solution in line with this need. Much of the Spanish Chair work has been devoted to the analysis of Venture Capital as a funding instrument for these organizations, that we call Promising Moving Enterprises. After an intense work in this area, however, we still considered that it was necessary to make Eureka known more in depth within the private funding market, and, thus, the brand-new Lynx Award, promoted by the Spanish Chair, has been awarded this year for the first time.

A clear example of the use and development of new technologies by SMEs is Services, which had not had the due relevance so far however, in spite of their vital importance for the European economy. Consequently, the Spanish programme included an initiative on tourism. Nowadays, there are great expectations on the projects that may emanate from “Eurotourism”, the cluster created to the purpose, to foster the application of new technologies to the sector.

Finally, I would also like to thank all those involved in the Eureka network for their interest and dedication to the programme of the Spanish Chair and to all of the initiatives contributed during the last year. Very specially, I would like to welcome two new countries to the Eureka family, the Slovak Republic and the Republic of Estonia. The Ministerial Conference held in Madrid endorsed the full membership of these countries and Spain is very glad about the enlargement and reinforcement of the network.

Spain now turns the baton over to Greece, and we encourage the Hellenic team to work towards their programme objectives, to keep on fostering interaction and collaboration within the ERA and pursue the involvement of private funding, the increasing participation of SMEs in technological projects, and the sustainable management of Eureka.



Mrs Anna M. Birules
Minister of Science and Technology,



EUREKA is an

Europe-wide Network for Industrial R&D

- strengthening European competitiveness
- by promoting 'market-driven' collaborative RTD
- involving industry and research institutes across Europe
- using advanced technologies
- resulting in cost-effective products, processes and services.

Launched in 1985, **EUREKA** has already changed the face of pan-European cooperative research and development. It is a framework through which industry and research institutes from 31 countries and the European Union develop and exploit the technologies crucial to global competitiveness and a better quality of life.

EUREKA has a relatively simple, unbureaucratic structure. Although there are international-level bodies to oversee the Initiative, project participants need only ever be in contact with their national **EUREKA** office, known as the National Project Coordinator (or NPC).

EUREKA is open to all civilian technology sectors. The bottom-up approach means that industrialists and researchers are free to choose their field.

EUREKA offers:

- help in finding partners from industry and research
- improved access to national public financing
- supportive measures, including help in defining collaborative contracts between partners across Europe
- involvement in European standardization activities
- facilitated access to private funding sources
- the **EUREKA** 'Label of Excellence'

EUREKA exists to create **EUREKA** projects: trans-border, market-oriented, hi-tech European RTD projects. A **EUREKA** Project meets the **EUREKA** criteria if it:

- is a hi-tech, market-oriented R&D project
- involves partners from at least two **EUREKA** Members
- aims to develop a cutting edge, civilian product, process or service
- is funded by the partners themselves, who receive public financing from their national governments

There is enormous scope for variety within these constraints, with projects ranging from the 100+ partner, 3.8 billion ECU to two-partner feasibility projects involving less than 1 million ECU in investment.



- member countries
- countries with National Information Points

Spanish Eureka Chairmanship: Programme and goals

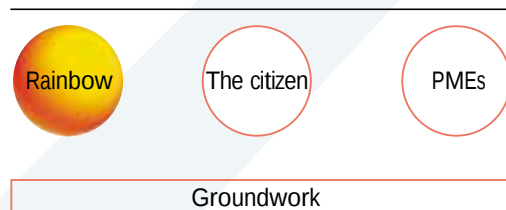
Boosting technology for a new era

Spain undertook, for the second time in the history of the programme, the Chairmanship of Eureka, from June 2000 to June 2001, with the basic aim of continuing the progressive adaptation of Eureka to the changing needs of our companies and the markets within which they compete.

The programme of the Spanish Chairmanship has been based on four strategic lines with the common objective of Boosting technology for a new era.



HRH The Prince of Asturias opened the Ministerial Conference of the Spanish Chairmanship. From left to right, Mrs Anna M. Birules, Minister of Science and Technology; HRH The Prince of Asturias; Mr Gonzalo Babé, Minister's Head of Office; Mr Baudilio Tomé, Secretary of State for Telecommunications and the Information Society and Mr Vicente Gómez, Director General of CDTI.



Rainbow

Building-up New Σ ! Scenarios.

- World Level Technology Partnerships
- Technology Generating Countries
- Cooperation in Technology Demonstration
- European Technology Organizations



The citizen

Technologies for the Service Sectors.

- Tourism/Leisure as Model System
- Technology Demand from New Service Sectors
- Electronic Commerce and Multimedia Integration
- Cultural Heritage and Environment



PMEs

Promising Moving Enterprises.

- Fast Growth Innovative SMEs
- Increasing Birth-Rate of Innovative PME's
- Technology Development, Market Access and Funding
- Acceleration of Innovative Process as a Paradigma



Groundwork

Continuous Improvement of Σ ! Management.

- Generation of Projects as Cardinal Point. Quantitative Goals
- NPC's Transparency: Goals, Means and Results
- Integration of Eureka in National Innovation Policies
- Improving internal working procedures

Building-up New Σ! Scenarios.

A suitable strategy should allow for individual Eureka members and companies to seek the best alternatives around the world and take back home both profits and knowledge from their own experience. Eureka has been and continues to be an important framework for the internationalization of R&D, but its positive effects on companies could be improved if the initiative would be able to gain access to the global market by providing suitable tools.

During the Chairmanship term, the Eureka network has made a great effort to open its strategies to new scenarios, and discussions have concentrated around three key issues:

● Eureka within ERA

From the beginning of 2001, and created on the initiative of Spanish Chairmanship, a joint workgroup with members from both the Eureka network and the Services of the European Commission is working to generate specific initiatives and tools for collaboration within the ERA context. This discussion has been open to contributions from representatives of the industry, which have shown interest in reinforcing the scenario and competitiveness of the European R&D. It is now necessary to draw specific action proposals streaming from the group. SMEs and strategic projects have been highlighted as the main areas for which the group should provide ways for cooperation.



Mr. Richard Lange and Mr. Guy Somekh presented in Málaga the Blue Smart Operating Model, a cooperation network among organisations from the European Union and Canada, devoted to launch dynamic emerging companies within both markets.

● The new status “associated country”

This new Eureka category has been implemented to help open new markets to the European industries by means of having non-member countries participate in Eureka projects, and to assist Third Countries in tracking down financial resources for the development of their industries.

Under this initiative, the Ministerial Conference of Madrid 2001 endorsed the new Madrid Amended



Mr. André Pirlet, from the European Committee for Standardisation presented in Málaga the activity of CEN/STAR and the existing opportunities for collaboration with Eureka.



The Ministerial Conference held on 28 June 2001 and chaired by Her Excellency the Spanish Minister of Science and Technology, Mrs Anna M. Birules, endorsed the new status of Eureka associated country.

Rules on the “Participation of companies and research centers from non-member countries” to include the new status of “associated country”. The new status is based on two basic ideas:

- Associated countries will guarantee that national organizations participating in Eureka projects have access to public funding for R&D.
- Organizations from associated countries may team up and participate in any Eureka project or proposal, provided that Eureka rules are fulfilled.

A three-year pilot phase has been started with countries of the Mediterranean area, not seeking new memberships but closer contacts nonetheless.

● Eureka and the European Committee for Standardisation (CEN/STAR)

The approach between Eureka and CEN/STAR has remarked the importance of connecting R&D with standardization and of enhancing the exploitation of results from industrial research. During the Spanish Chairmanship, both organizations have agreed on a Memorandum of Understanding based on the exchange of information about technological trends and on the improvement of the hyperlinks between the sections of their web sites that may be useful for the companies.

Technologies for the Service Sector

Services are increasingly becoming an important source of employment and growth of the economy. Latest data from the OECD show that this sector accounts for 60-70% of the Gross Domestic Product (GDP) of the business sector and employment in the broad OECD areas. Services are becoming the main source of growth, and, what is more important, not only for the service sector itself, but also for the manufacturing business: the “tercialization” process is a solid fact and is already affecting horizontally the complete productive activity.

Further to the evidence, the Spanish programme initiated the analysis of how Eureka is contributing to innovative performance by the service sector, and how this contribution could be improved if the specifics of services vs. manufacturing are considered. A task force of experts was created for the purpose.

The experts concluded that Eureka has a relevant experience in supporting innovative manufacturing projects, but, on the service side, the process of innovation features certain specifics that should be first considered:

- The human factor has a decisive influence on the success of new services
- Innovation in services can be imitated faster
- Revenues from patents and licenses are notably less important
- R&D seems to be a less useful indicator
- The innovation process is less focused on the product and more on internal and organizational procedures



Mr Antonio Rami, Chairman of the Eureka Task Force on the Service Sector, presented during the Ministerial Conference held in Madrid the final conclusions from the analysis carried out by this group of experts.

In spite of these conclusions, around 30% of the Eureka projects are related to services. This percentage is still far from the above-mentioned share corresponding to services (ca. 70%), but it is a positive springboard for Eureka to reinforce and disseminate its impact among service companies.

Hence, it was recommended to seek and improve the awareness of service companies about the Eureka initiative, especially in sub-sectors with lower participation, and to promote the concept of "R&D project" towards a most general notion of "innovative project", so that innovative initiatives be able to gain access to grants and tax reductions.

The importance of Services in the economy

(Sources: OECD National Accounts 1985-97 and Labour Force Statistics 1977-97. www.CIA.com 1997)



Parallel to this analysis, a new strategic initiative within a very dynamic area of the service sector has been also started, and it is "Eurotourism", a strategic umbrella project leadered by Spain and focused on the development of tourism, culture and leisure by means of technological innovation.



The Center for the Development of the Industry Technology (CDTI) has coordinated and organised all the official events held on occasion of the Spanish Chairmanship of Eureka.

Promising Moving Enterprises. (PMEs)

This initiative was directed to increasing the impact of Eureka in the so-called “Promising Moving Enterprises” body (PMEs). The term PME refers to the SMEs whose growth is connected with innovation and with a steadfast annual rate of growth of 25% at the very least both in turnover and employment during three consecutive years.

The Eureka programme, given its industry-driven, flexible and unbureaucratic profile, already covers some of the needs of the innovative PME, namely e.g. the abilities to work in close cooperation with other European innovative companies, to survey potential markets for their products, to share know-how, development costs and the acquisition of knowledge, and, above all, the funding capacity, based on a decentralised system in which each country decides how to support its own enterprises.

Since funding is considered a main handicap for innovative SMEs, and taking into account that a significant number of Eureka customers are already supported by Venture Capital investors, Eureka has started to pay especial attention to this fact. The aim is to find a common working space and attract additional private resources for Eureka companies to complement public funding. It is recommendable that actions be started in line with the notion of increasing the awareness of private investors, and the network has agreed that this issue should be maintained and followed up within the strategies of Eureka for the near future.

The Spanish Chairmanship programme included a Venture Capital Discussion Forum that was scheduled for October 2000. The experts centred their discussions around the funding issue and the Venture Capital alternative.



Mr Bernard Bobe, Chairman of the Eureka Venture Capital Expert Group explained during the Málaga meeting the work carried out by this group

Venture Capital Discussion Forum (Valencia, October 2000). From left to right, Mr Olli Lindbland from the Finnish National Fund for R&D; Mr Denis Marnane, from Enterprise Ireland; Mr Henri Guillaume, from the French Public Venture Capital Funds; Mr Dietrich Schuhmann, from Lion Bioscience A.G. and Mr Mark Heappy, from 3i Europe.



The first results obtained about the topic confirmed that the relationship between Venture Capital (VCs) and Eureka is still at an early stage, although certain Eureka projects have already been funded via this alternative. It should be also remarked that the networking capacity featured by Eureka is perceived by Venture Capital investors as an advantage in terms of learning and investment opportunities transmission.

As a consequence, the group of experts concluded that Eureka should reinforce the circulation of information and the promotional actions, especially addressed at private investors, to intensify the role and image of Eureka. Moreover, the coordination among national Venture Capital funds should be pursued in order to ensure the utmost efficiency of these resources.

The Ministerial Conference of Madrid 2001 pioneered by calling the first edition of the Eureka Lynx Award, a promotional action addressed to those Promising Moving Enterprises featuring the best performances in terms of economic and innovation indicators. A principal goal of the Lynx award is to give visibility to the Eureka label among private investors.

Eureka is standing up to and providing alternative solutions to an issue discussed in many international organizations and public administrations nowadays: how to have private funding get involved with innovative and relatively high-risk projects developed by small companies. The answer to this question is also the answer to the future development and growth of the European economy, since SMEs generate and will still generate in the future the highest share of employment in Europe.

IV



The Spanish High Level Representative, Mr Arturo González exposed during the meeting held in Málaga the interest of Spain in supporting the participation of SMEs in Eureka.

Continuous Improvement of Σ ! Management

Another issue in the programme of the Spanish Chairmanship was the continuous improvement of Eureka management, the Groundwork. This item pursued a clear and evident goal: to reinforce the generation of projects via the internal tools of the Eureka network itself.

In this respect, the Spanish Chairmanship term has seen the Eureka network accomplish certain improvements that affect internal working procedures in four aspects: planning, information technologies applied to management, standardization and promotion.

Planning has reached the core of Eureka: project generation. In the first official meeting of the Spanish Chairmanship, held in October 2000, the Eureka countries set their goals in terms of number of projects to be generated and project participation for the upcoming twelve months. Thanks to this planning exercise, it has been possible to periodically monitor the generation of projects and draw preliminary conclusions on the performance of Eureka at each Project Coordinators' subsequent meeting. This management procedure has been assessed as a definitely positive and useful tool by the Eureka network.

Information technologies applied to internal procedures should also be a priority for Eureka. The Spanish Chairmanship considered that the use of these technologies within the network is crucial, in order to achieve the utmost efficiency demanded by customers. In this respect, two new tools have been implemented:

- A new functionality within the Eureka website with two basic features: to speed up the assessment procedure, by allowing national offices to upload information updates about project proposals and to provide information on the different funding system operating in each member country.
- The Dynamic System for Eureka Documents (DSED), a multimedia software for the management of complex information flows, such as the documents of the official Eureka meetings. The DSED system stores information (basically, the information contained in the official meetings' documents) in different multimedia formats, and, what is more interesting, provides a user-friendly and transparent management of this information.



During the Spanish Chairmanship, Eureka has adopted a planning system that facilitates the monitoring of the programme. Mrs M. Luisa Poncela, Spanish HLR Deputy and Mr. Francisco Castro, NPC, participated in several Press Conferences explaining the Eureka performance during this year.

The Spanish Chairmanship Office presented in Barcelona (January 2001) the DSED.





Mr Ramón Marimon, Secretary of State for Science and Technology Policy, during the Press Conference held in Valencia on occasion of the first official meeting of the Spanish Chairmanship (October 2000). From the Ministry of Science and Technology, Spain has made a great effort to transmit the advantages that Eureka offers to the enterprises.

Standardization is, nowadays, not only an alternative but also a necessity as regards the global market in which we are involved. Eureka is structured as an international framework, and should consider the introduction of standards in every aspect of its working procedures. The network has recently adopted the ISO nomenclature for the abbreviation of country names (ISO 3166). Further steps should be taken in order to make Eureka evolve into a more harmonized system.

V

Promotion has also been a key issue for the Spanish Chairmanship. The network has made a great effort in terms of financial and human resources to develop an appropriate promotional strategy for the near future. As a result of this intense networking and consultation process, the network approved last April the Mid Term Marketing and Communications Strategy.

The Spanish Programme comprised both, strategic issues and management aspects, aimed at fostering the participation of companies in the Eureka framework. From left to right Mr José E. Román, Spanish NPC Chairman; Mr Fernando Aldana, Spanish HLG Chairman and Mr Arturo González, Spanish HLR.

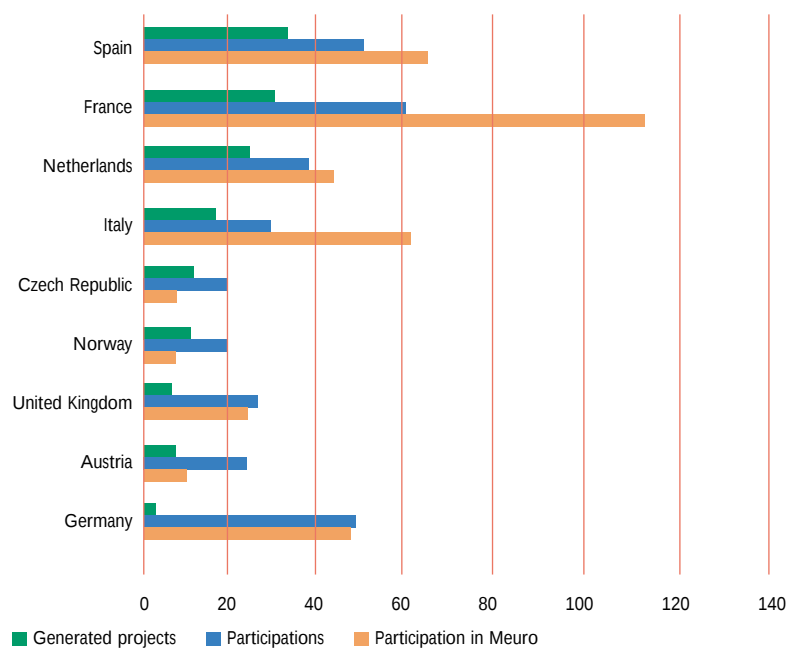


Eureka in figures. Spanish Chair Summary

Evolution of Eureka Projects. (number and budget)*



Spanish Chair. Main participants by number of generated projects*

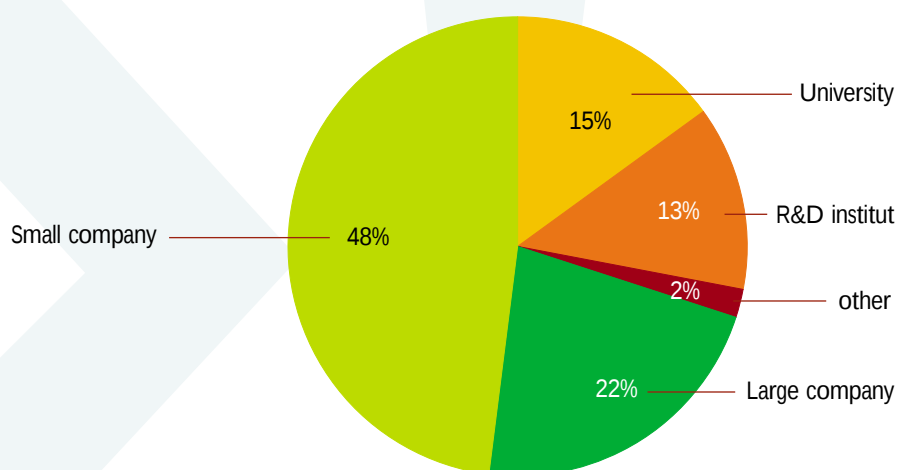


* Excluding cluster projects

Spanish Chair in figures: Summary

	Number	Cost (MEuro)
Projects and umbrellas	190	499
Clusters	63	1770
TOTAL	253	2273
Portfolio (Ongoing)	861	5668

Spanish Chair. Organisations participating in projects*



VI

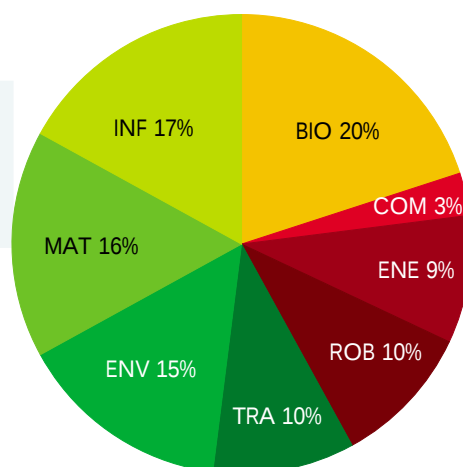
Spanish Chair. Projects by technological area*

BIO: Biotechnology
COM: Communications

ENE: Energy
ROB: Robotic

TRA: Transport
ENV: Enviroment

MAT: New materials
INF: Information Technologies



* Excluding cluster projects

Brokerage Events

Brokerage Events are essentially market-driven, "match-making" & partnering conferences that provide companies and research organizations from different European countries with a forum where they can meet and talk about new technology and business opportunities. These events are designed so that Eureka clients can make the contacts and be able to discuss potential research ideas in the most time- and cost-effective way.

Eureka Brokerage Events pursue

- 1. To permit the exchange of information and views on specific sectors
- 2. To create new business opportunities
- 3. To identify potential partners for a cooperative business activity or research and facilitate the contact on site during the event
- 4. To find partners and help in project identification
- 5. To provide participants with assistance on funding location

Up to three Brokerage Events have been scheduled and organized by the Spanish Chairmanship, namely Auto 2005, Meat 21 and Eurotourism.

VII

● Auto 2005: Advanced Technologies for New Generation Vehicles

The Brokerage Event of the car components' industry, Auto 2005, took place in Valencia from 25th to 26th November 1999, in close cooperation with the Valencia Institute for the Medium and Small Sized Industry (IMPI-VA) and the "Factory" Umbrella Project of Eureka.

The overall perspective of growth for motor vehicle components and accessories is good, but major adaptations to new working methods, more investment in R&D and competitive efforts from the industry are urgently required. Cooperation within Eureka can help meet these challenges and increase the competitiveness of the sector through R&D projects.

In order to cater for these necessities, Auto 2005 provided more than 200 participants from 17 different countries with the opportunity to meet other parties with similar ideas and accomplish European collaboration projects.

The technological areas of Auto 2005

- 1. System and product development
- 2. Process and manufacturing engineering
- 3. Management, quality and testing aspects
- 4. Electronics, sensors and instrumentation on board
- 5. Clean technologies and new materials



Mr. Vicente Gómez, Director General of CDTI, chaired the opening ceremony of Auto 2005.

● Meat 21: Meat & Poultry Processing. New Technologies for the 21st Century



MEAT 21, in turn, was held in Barcelona, from the 11th to 12th May 2000, with the support of the IRTA-CTC (Institute for Food and Agriculture Research and Technology - Center for Meat Technology) and in association with the "Euroagri" Umbrella Project.

The meat and poultry industry comprises all the relevant production processes on the way from the stock raising stage right up to the final market and the consumer. In between, the slaughter, process and storage of meat and poultry products. This Brokerage Event also fitted the interests of manufacturers of equipment, sensors and management systems for meat processing companies. All these topics were discussed by 120 participants from thirteen countries in plenary sessions, satellite workshops and bilateral meetings.

The technological areas of Meat 21

- 1. Food Safety and Meat Quality
- 2. Development of New Processes & Meat Processing Equipment and Machinery
- 3. Environmental Aspects
- 4. Development of New Products
- 5. Treatment and Preservation of Meat & Meat-derived Products
- 6. Consumers' Concern

VII

● Eurotourism: Advanced Technologies for the Tourism, Leisure and Culture Industries

Santander was the venue for Eurotourism 2000 from the 23rd to 25th November 2000. This has been the first-ever Eureka event on Tourism, Leisure and Advanced Technologies.

Eurotourism is the strategic action of the Spanish Eureka Programme focused on the application of new technologies for the improvement and sustainability of the tourism, leisure and cultural industries, as well as to increase life quality standards of the European citizenship. Tourism has been appointed as one of the key topics for Eureka throughout the forthcoming years for its importance in the European economy.



The event analyzed the design and development of new technologies for Tourism, and how to apply the existing ones to new products and services. The programme comprised Lectures, Bilateral Meetings' sessions and seven Workshops in which relevant specifics were discussed by 200 participants from 18 countries.

The technological areas of Eurotourism

- 1. Sustainability
- 2. Working processes, knowledge & human resources management
- 3. Future products, establishments & services
- 4. Infrastructures & destination management
- 5. Information, services & e-commerce
- 6. Cultural heritage
- 7. New business opportunities

LYNX and LILLEHAMMER awards

THE LILLEHAMMER AWARD

The Lillehammer Award was created in 1994 by the Norwegian Chairmanship to acknowledge successful EUREKA projects with outstanding environmental benefits, a wide applicability and a significant impact on Economy. Projects finished within the last three years are eligible for the award.

The winning projects are appointed by an independent Jury of three internationally-recognised experts on Environment from different member countries. The prize is a signed artprint, contributed by Norway, and 10,000 EURO. The Award ceremony is held within the programme of the annual Ministerial Conference in June.

Lillehammer Award Winning projects 2001

E!853 EUROENVIRON AUTORES. Automatic station for on-site and continuous waste water analysis

Main partner: Aquatec S.A. (Spain)

E!1393 EUROENVIRON SECONWET. Second generation of constructed wetlands in southern Europe

Main partner: Limnos D.O.O. (Slovenia)

VIII



Her Excellency Mrs Anna M. Birules handed the Linx (left) and Lillehammer (right) Awards on occasion of the Eureka Ministerial Conference held in Madrid



THE EUREKA LYNX AWARD

The Eureka Ministerial Conference of Madrid 2001 announced the first winner of the “Lynx Award”. Created by the Spanish Chairmanship and with an economic contribution of EURO 50 000, it is awarded to the Promising Moving Enterprise (PME) that participate in Eureka projects and feature the best performance in terms of economic and innovation indicators.

PMEs is a collective that traditionally suffers from a lack of resources and funding, mainly because of the increasing risk of their innovative activity and also because of the null guarantee they can provide, from their position of being small and scarcely known within their markets. In this respect, Eureka has agreed that imaginative initiatives must be contributed in order to reinforce the “marketing” added value of the programme, especially as regards private investors.

The same conclusion was drawn from the Venture Capital Discussion Forum of Valencia 2000, out of the analysis made by the group of experts from the Venture Capital business. They confirmed then that “promotional and communication action is recommended in order to give visibility to the Eureka label”. The Spanish Chair, in line with the conclusions of the experts, firmly believes that the Lynx Award will contribute to this objective and will also have a positive impact both on project generation and private funding.

Lynx Award Winning company 2001

Coheris (France), main partner in the Eureka project E! 1815 MAIGRET, Application generator for the management of information and communication

VIII



Team of Eureka NPC Office in Spain



Team of the Spanish Eureka Chairmanship Office

The Spanish Chairmanship organisation was based on the coordination and synergy between the Minister of Science and Technology and two units located at the CDTI premises: the Eureka NPC Office and the Spanish Eureka Chairmanship Office, specially created for the organisation of the Chairmanship events.

UMBRELLAS AND CLUSTER PROJECTS

Strategic projects, or Clusters, are umbrella-like projects focused on the generation of sub-projects within a common area. Clusters differ from Umbrella Projects in that they always have a specific management and organization emanating from the business environment.

Spain actively contributes to the generation and development of Umbrella Projects and Clusters.



IX

UMBRELLA PROJECTS

EUROAGRI (Agrofood sector) is one of the most active Umbrella Projects. It was generated by Spain, and it is also leadered by our country at present.

During the Spanish Chair, an ambitious new Umbrella Project has been generated by Spain, for the application of technology to tourism-, leisure- and culture-related services: EUROTOURISM.

Spain takes also part in the main Eureka Umbrella Projects: FACTORY, EUROENVIRON, EUROCARE, MULTIMEDIA y LOGCHAIN.

EUROAGRI (www.euroagri.org) was created by Spain in 1991 and announced in the Ministerial Conference of Tampere 1992. It is devoted to the promotion and coordination of projects on agrofood technologies and related sectors such as animal and plant production.

EUROAGRI is participated by 19 countries. Each country may be represented by more than one organization, which can be Universities, Companies, Investigation Centers and members of the Eureka network. Spain, in charge of the organization of the Executive Committees and the follow-up of the project, chairs EUROAGRI until February 2002.

CLUSTERS

Cluster Projects are leadered by large European companies of the Telecommunications, IT and Electronics sectors, and work to develop technologies, programmes and innovation processes within key sectors for the European citizen and diverse industries: the car industry, telecommunications, the information society, industrial processes, multimedia, the home, the environment, education, health, trade, etc.

Spain takes active part in all the Clusters, and also leaders some of them.

The Cluster Projects of Eureka are:

- EURIMUS

Industrial application of microsystems

Spanish participants: MCC, Gas Natural, CNM-Barcelona (CSIC), U. Barcelona, LEAR, Instituto de óptica (CSIC), MACSA. Magnetti Marelli.

- PIDEA

Complex interconnection and encapsulation for the Electronics Industry

Spanish participants: ELBASA, CEBISA, OMICRON, CNM-Barcelona.

- MEDEA+

Microelectronics technology for the Information Society

Spanish participants: CNM-Sevilla (CSIC).

- ITEA

Software methodology and engineering for intensive-use software systems

Spanish participants: European Software Istitute, DIT-UPM, Sainco, Soluziona, Gedas, Amena, Telvent, I&IMS.

- SCARE

Sustainable Methodology for reusability in the electro-electronic industry

Spanish participants: Gaiker, Robotiker, Indumetal recycling.

IX

Spain has also initiated in 2000 a new cluster-like project, EUROFOREST, to develop the application of new technologies to timber trees cultivation. It has already generated 20 sub-projects, not only within Eureka, but also within Iberoeka and the Framewok Programme.



Technological exhibition on occasion of the NPC and HLG meetings of Málaga: Robot for live line maintenance in electrical networks.

EUROTOURISM already has 10 projects approved, out of which 6 are leaded by Spanish companies, on subjects as: environment, geographical information systems, e-training, etc. These projects already amount to 17 MEuro, and new suggestions and ideas for new projects will be developed and approved during the Hellenic Chairmanship.

ANGEL

The Angel Project develops a multi-sensor system able to first detect and then destroy or neutralize anti-person mines and ammunition as yet undetected, normally disseminated in territories where war conflicts have taken place.

Nowadays, the evidence of the existence of anti-person mines has been disclosed in some 70 countries around the world, according to the files of United Nations. The most affected countries, sorted by impact on civil victims, are Afghanistan, Angola, Bosnia Herzegovina, Cambodia, Croatia, Eritrea, Irak, Mozambique, Somalia and Sudan. These ten countries already concentrate 50% of the anti-person mines existing worldwide.

In spite of the increasingly numerous efforts of the international community, the technology used nowadays for the detection of mines is not sufficient. It is evident that only the conjunction of the know-how provided by leading unmining technology companies and research institutes experienced in the development of similar technologies may lead to the design and implementation of a system more efficient and safe than the existing ones nowadays. The companies and institutions involved with ANGEL do not intend to sell the system itself, but to market a complete package to unmine affected territories.

The system will comprise two multisensor engines: an overhead aerial system for mine detection and a terrestrial engine for neutralization and destruction.

In order to guarantee as much as possible the positive result of the system, GTD (as leader of the ANGEL project) has gathered some of the principal European experts on humanitarian unmining, as well as the organizations and institutions that develop the most advanced and adequate systems for the correct implementation of the project.





eureka
Spanish Chairmanship
2000 - 2001

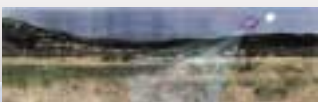


1889 ANGEL

Spanish Treasures Expo

Protector del horror de las minas antipersonales

Antipersonnel mines safeguard

Países participantes / Participating countries:

España / Spain
Francia / France
Italia / Italy
Suecia / Sweden
Austria
Rep. de Eslovaquia / Slovak Rep.
Bélgica / Belgium
Turquía / Turkey
Bosnia-Herzegovina

Participantes / Participants:

GTI, S.A. Ingeniería de Sistemas y Software Industrial
Explosivos Aljibes, S.A.
CAC Systems
CHERA
Techno Sud Industries
Matra Bae Dynamics France
IDS - Ingeniería del Sistema S.p.A.
Biosensor Applications Sweden AB
FOA - Sweden's Defence Research Estab.
Schelbel Elektronische Geräte GmbH
Gespac GmbH
Marmara Research Center
Tula University / Electrical & Mechanical Engineering Faculty
Vale Information Technology
Slovak Academy of Sciences / Inst. of Control Theory & Robotics

Sistema de desactivación de minas capaz de detectar y neutralizar o destruir minas enterradas en campos minados.

De-mining system for the detection & neutralization or destruction of mines in mine fields.

Our acknowledge to the following cities, where the Official Meetings of the Spanish Eureka Chairmanship 2000-2001 were held:



Valencia



Málaga



Madrid



Barcelona



Toledo



Santander



www.mcyt.es

www.cdti.es

1,15 MEuro Mr. ISIDRO PALACIOS RODAU, S.L. Tuset, 19 - 1º 4. 08006 Barcelona Tel.: + 34 93 201 77 16	● 2472 EUROAGRI HPP MEATS 6000 Biotechnology Demonstration and industrial vali- dation of the efficiency of using high pressure processing at 600 mpa to improve the sanitary safety of pac- ked sliced meat products, raw, coo- ked or dry cureMr. Design of new 600 mpa industrial pilot plant. 3,34 MEuro Mr. NARCIS GREBOL ESTEBAN ESPUÑA. S.L. Mestre Turina, 39-41. 17800 Olot (Girona) Tel.: + 34 972 27 06 60
● 2452 EUROAGRI IMMUCON Biotechnology Consumers, the food industry and farmers all demand safe, health- promoting, cost-effective ingre- dients. Banning antibiotics in feed has given rise to the need to find substitutes to avoid a fall in animal production. 2,53 MEuro Mr. JAVIER POLO APC EUROPE, S.A. Av. San Julián, 246-258. Polígono industrial El Con. 08400 Barcelona Tel.: + 34 93 861 52 77	● 2477 MULTIMEDIA EUROKNOW NET Information Technology Development of a knowledge management platform to create, share and exchange knowledge and expertise within a network of enter- prises. The platform will make it possible to build learning organisa- tions. 0,82 MEuro Mr. ANTONIO RUBIO OVERLAP CONSULTORES. Avda. del Partenon, 10. 28042 Madrid Tel.: + 34 91 721 02 21
● 2459 EUROAGRI SPANISH SERRANO TECH Food Technology State-of-the-food technology provi- des an opportunity to develop more accurate grading systems for Serra- no ham firms with the aim of achie- ving better quality assurance and traceability from farm-to-table ham by ham. 1,1 MEuro Mr. JOSEP BATALLÉ RESERVA BATALLÈ, S.A. Av. Segadors. 17421 Riudarenas. (Girona) Tel.: + 34 972 85 63 74	● 2498 EUROAGRI KIWINEW Food Technology Through the development and application of new technologies the aim is to improve management techniques (nutrition/soil manage- ment, irrigation), to improve qua- lity assurance and breeding and increase the export/marketing of kiwi fruit. 1,5 MEuro Mrs. EDURNE SENDRA KIWI ESPAÑA, S.A. Apto. 23. 36740 Tomiño (Pontevedra) Tel.: + 34 986 33 06 50
● 2470 ECOSENSOR New materials The goal is to develop a multi-laye- red ceramic integrated sensor for wide temperature range control of the combustion processes (redu- cing noxious emissions into the atmosphere). 2,2 MEuro Mr. FRANCISCO MARRO FAE - FRANCISCO ALBERO, S.A. Carme, 19. Polígono Gran Via Sud 08908 L'Hospitalet- (Barcelona) Tel.: + 34 93 261 85 00	

EUREKA PROJECTS ENDORSED DURING THE SPANISH CHAIRMANSHIP
WITH PARTICIPATION OF SPANISH COMPANIES (description, total budget and Spanish company)

● 2235 IKF Information Technology Distributed infrastructure and ser- vices system (IKF framework) with appropriate toolkits and tech- niques, for knowledge discovery/ fusion and presentation in diffe- rent application areas. 14,14 MEuro Mr. LUIS OLAVARRIA EMPRESA PÚBLICA DE EMER- GENCIAS EPES. Severo Ochoa, 28. 29590 Málaga Tel.: + 34 670 94 20 31	with the environmental standard euro-2000 and Carb.Lev II for automotive applications. 17,43 MEuro Mr. ALFREDO RAMOS ESCOBOSA MECANOPLÁSTICA, S.A. Ctra. Ventas Astigarriaga, s/n. Apar- tado 29. 20100 Renteria. (Guipúzcoa) Tel.: + 34 94 351 35 50
● 2375 TYRESENSE Transport Remote interrogated sensor sys- tem to monitor the frictional con- ditions between the tyre and the roadway in order to enhance acti- ve vehicle safety. 2,22 MEuro Mr. ERNESTO GARCÍA 3BYME, S.A. (3 BOBINADOS Y MONTAJES ELECTRÓNICA, S.A.). Pico de Almanzor, 31. Polígono Valdecabañas. 28500 Arganda del Rey. (Madrid) Tel.: + 34 91 87 3 71	● 2375 TYRESENSE Transport Remote interrogated sensor sys- tem to monitor the frictional con- ditions between the tyre and the roadway in order to enhance acti- ve vehicle safety. 2,22 MEuro Mr. ERNESTO GARCÍA 3BYME, S.A. (3 BOBINADOS Y MONTAJES ELECTRÓNICA, S.A.). Pico de Almanzor, 31. Polígono Valdecabañas. 28500 Arganda del Rey. (Madrid) Tel.: + 34 91 87 3 71
● 2317 FACTORY-PROSURF Robotics The aim is to overcome current technical and technological defi- cits by advanced process and pro- duction automation technologies in metal surface processing and net-shaping for repair welding and recovery services. 4,56 MEuro Mr. EMILIO PÉREZ PICAZO AIDO (INSTITUTO TECNOLÓGI- CO DE ÓPTICA). Nicolás Copérnico, 7. Parque tec- nológico Paterna. 46980 Valencia Tel.: + 34 96 131 80 51	● 2383 WARM HYDRO-FORMING New Materials Exploitation of new and innovative potentials of metals by increasing the hydro-forming process win- dow through increased metal tem- perature. 0,62 MEuro Mr. JORGE BERASATEGUI LUCAS GIRLING. Ctra. Echaui, 9 31160 Orcoyoen (Pamplona)
● 2365 MEDEA + Information Technology A new cooperative R & D pro- gramme to strengthen micro-elec- tronics in europe as the enabling technology for the whole informa- tion society, thereby strongly con- tributing to the creation of higher added-value and more jobs. Cluster Mr. JUAN RAMOS Av. Reina Mercedes, s/n. 41012 Sevilla Tel.: + 34 95 505 66 66	● 2394 NESSI + Information Technology The aim is to provide assistance in the form of technical support and guidance and organise cooperative work groups for SMEs. This pro- ject will create a technical transfer network around a large European partnership. 28,62 MEuro Mr. JOSÉ GUTIÉRREZ EMC TEIN2, S.L. Felipe de la Gue- rra, 27. 28223 Pozuelo de Alarcón. (Madrid) Tel.: +34 639 24 49 84
● 2411 ERTAC Transport In response to car manufacturers' requests, this will use simulation techniques/experimental valida- tion. New materials and processes will be defined to cover all the audible frequencies through a glo- bal acoustic approach to the car. 4,4 MEuro Mr. ENRIQUE VILLAGRASA CATENSA, S.A. (CATALANA DE ENFELTRADOS, S.A.). Ausias March.16. 08010 Barcelona Tel.: + 34 93 342 97 00	● 2411 ERTAC Transport In response to car manufacturers' requests, this will use simulation techniques/experimental valida- tion. New materials and processes will be defined to cover all the audible frequencies through a glo- bal acoustic approach to the car. 4,4 MEuro Mr. ENRIQUE VILLAGRASA CATENSA, S.A. (CATALANA DE ENFELTRADOS, S.A.). Ausias March.16. 08010 Barcelona Tel.: + 34 93 342 97 00
● 2421 ODYSSOL MELISSA Environment The aim is to develop competen- ces in the area of bio de-pollution. This combined technology using microorganisms will make it possi- ble to degrade the different mole- cules combined in most agricultu- ral effluents. 1,87 MEuro Mr. BLAS SIMÓN ANS COOP Campo de Tajonar. 31192 Valle de Aranguren. (Navarra) Tel.: + 34 94 829 94 00	● 2421 ODYSSOL MELISSA Environment The aim is to develop competen- ces in the area of bio de-pollution. This combined technology using microorganisms will make it possi- ble to degrade the different mole- cules combined in most agricultu- ral effluents. 1,87 MEuro Mr. BLAS SIMÓN ANS COOP Campo de Tajonar. 31192 Valle de Aranguren. (Navarra) Tel.: + 34 94 829 94 00
● 2467 ENVIRONMENTAL AGIS Environment Development of tools and techni- ques for the monitoring of our environment on a nation-wide basis and the management of the relational information in distribu- ted but clustered information sys- tems. Umbrella Mr. JOSEP LLUIS COLOMER INSTITUT CARTOGRÁFIC DE CATALUNYA. Parc de Montjuic. 08038 Barcelona Tel.: +34 93 567 15 00	● 2467 ENVIRONMENTAL AGIS Environment Development of tools and techni- ques for the monitoring of our environment on a nation-wide basis and the management of the relational information in distribu- ted but clustered information sys- tems. Umbrella Mr. JOSEP LLUIS COLOMER INSTITUT CARTOGRÁFIC DE CATALUNYA. Parc de Montjuic. 08038 Barcelona Tel.: +34 93 567 15 00
● 2480 KIDENCYCLO Information Technology The aim of the project is to make available to children, schools and associations tools for visualisation,	● 2480 KIDENCYCLO Information Technology The aim of the project is to make available to children, schools and associations tools for visualisation,

editing, page set-up, communica- tion, sharing of information, coo- peration work, on-line publishing and evaluation. 2 MEuro Mr. JULIÁN DE MARCO / Mr. RAÚL AGUDO AGHISA EDITORIAL, S.A., LAFER. Arquitectura, 18. 28005 Madrid Tel.: + 34 91 517 80 90	monitored and controlle Mr. 10 MEuro Mr. SANTIAGO GURIDI ULMA FORJA S. COOP. B. Zubillaga. 20560 Oñati (Guipuzkoa) Tel.: + 34 94 378 05 52
● 2539 NET4TV Communications Development of a pan-european monitoring study of the market for itv systems and services, an evaluation guideline of best-practi- ce, ec-funded projects on advan- ced television systems and a policy roadmap for evolving areas in itv. 0,4 MEuro Mr. ALBERT GOIG ICT. Ciudad de Granada, 131. 08018 Barcelona Tel.: + 34 93 485 85 85	● 2539 NET4TV Communications Development of a pan-european monitoring study of the market for itv systems and services, an evaluation guideline of best-practi- ce, ec-funded projects on advan- ced television systems and a policy roadmap for evolving areas in itv. 0,4 MEuro Mr. ALBERT GOIG ICT. Ciudad de Granada, 131. 08018 Barcelona Tel.: + 34 93 485 85 85
● 2482 E-WORKSHOP Information Technology Production software and dazibao departments now work on sepa- rate products. The idea is to make them both work together to produce software solutions for numerical machine tools and intranet/internet communication architectures. 2,21 MEuro Mr. LLUIS CAMPOY MAINOX METAL CUTTING SYSTEMS. Andorra, 32. 08830 Sant Boi de Llobregat (Barcelona) Tel.: + 34 93 652 55 20	● 2482 E-WORKSHOP Information Technology Production software and dazibao departments now work on sepa- rate products. The idea is to make them both work together to produce software solutions for numerical machine tools and intranet/internet communication architectures. 2,21 MEuro Mr. LLUIS CAMPOY MAINOX METAL CUTTING SYSTEMS. Andorra, 32. 08830 Sant Boi de Llobregat (Barcelona) Tel.: + 34 93 652 55 20
● 2494 BARINTEL New Materials An intelligent, resonant soundproof barrier with fog-guard and moni- toring functions on traffic, cons- tructed using special insulating, resistant, ecological materials, which provides an efficient means of noise/communications control. 8,55 MEuro Mr. PEDRO VINARDELL COPERFIL GROUP, S.A. Polígono Industrial El Molinot. 08470 Vall- gorgina (Barcelona) Tel.: + 34 93 867 52 50	● 2494 BARINTEL New Materials An intelligent, resonant soundproof barrier with fog-guard and moni- toring functions on traffic, cons- tructed using special insulating, resistant, ecological materials, which provides an efficient means of noise/communications control. 8,55 MEuro Mr. PEDRO VINARDELL COPERFIL GROUP, S.A. Polígono Industrial El Molinot. 08470 Vall- gorgina (Barcelona) Tel.: + 34 93 867 52 50
● 2531 FACTORY DECOFOR Robotics The objective is to develop and implement into different industrial environments innovative design pro- cedures and control strategies for precision forging operations where product quality is continuously	● 2531 FACTORY DECOFOR Robotics The objective is to develop and implement into different industrial environments innovative design pro- cedures and control strategies for precision forging operations where product quality is continuously
● 2546 ENGENEX Biotechnology Development of a new set of tools to improve current technology in combinant protein production and purification. 5,3 MEuro Mr. ÁNGEL CEBOLLA BIOMEDAL CENTRO DE EMPRESAS. Planta 3A Sector NOC. Isaac Newton 41092 Sevilla Tel.: + 34 95 408 12 76	● 2546 ENGENEX Biotechnology Development of a new set of tools to improve current technology in combinant protein production and purification. 5,3 MEuro Mr. ÁNGEL CEBOLLA BIOMEDAL CENTRO DE EMPRESAS. Planta 3A Sector NOC. Isaac Newton 41092 Sevilla Tel.: + 34 95 408 12 76
● 2582 ANTHAMINE Medical and Biotechnology The objective is to design and	● 2582 ANTHAMINE Medical and Biotechnology The objective is to design and

develop a histamine H3 receptor inverse agonist as a novel type of drug for use in the treatment of alzheimer's disease, obesity and/or epilepsy. 9,33 MEuro Mr. ANTONIO GIUGLIETTA GRUPO FERRER. Juan de Sada, 32. 08028 Barcelona Tel.: + 34 93 330 21 95	develop a histamine H3 receptor inverse agonist as a novel type of drug for use in the treatment of alzheimer's disease, obesity and/or epilepsy. 9,33 MEuro Mr. ANTONIO GIUGLIETTA GRUPO FERRER. Juan de Sada, 32. 08028 Barcelona Tel.: + 34 93 330 21 95
● 2586 NITIN SCOOTER Energy Technology Development of new, high perfor- mance nickel-zinc secondary bat- teries for -and with- a new innova- tive electric scooter. 1,54 MEuro Mr. JOSÉ MIGUEL RÍOS MITCHEL ENUSA INDUSTRIAS AVANZA- DAS, S.A. Santiago Rusiñol, 12. 28040 Madrid Tel.: + 34 91 347 43 80	● 2586 NITIN SCOOTER Energy Technology Development of new, high perfor- mance nickel-zinc secondary bat- teries for -and with- a new innova- tive electric scooter. 1,54 MEuro Mr. JOSÉ MIGUEL RÍOS MITCHEL ENUSA INDUSTRIAS AVANZA- DAS, S.A. Santiago Rusiñol, 12. 28040 Madrid Tel.: + 34 91 347 43 80
● 2587 VI-TIS Food Technology Development of a centralised, site-specific control system of all cultivation operations on vine- yards in order to improve wine quality and decrease operation costs, through a better understand- ing and control of all operations. 2,42 MEuro Mr. ENRIQUE BASARTE BODEGAS JULIÁN CHIVITE. Ribera, 34. 31592 Cintruenigo (Navarra) Tel.: + 34 948 81 10 00	● 2587 VI-TIS Food Technology Development of a centralised, site-specific control system of all cultivation operations on vine- yards in order to improve wine quality and decrease operation costs, through a better understand- ing and control of all operations. 2,42 MEuro Mr. ENRIQUE BASARTE BODEGAS JULIÁN CHIVITE. Ribera, 34. 31592 Cintruenigo (Navarra) Tel.: + 34 948 81 10 00

● 2499 MULTIMEDIA TELE-EXPERT Information Technology Development of a self-learning inte- lligent system with automatic level diagnostic ability, as well as design and optimization of the learning strategies and the adaptation of dynamic mechanisms. 1 MEuro Mr. ILARI ZUBIRI DIDAKTIKER. Elcano, 20. 48013 Bilbao. Vizcaya Tel.: + 34 94 421 77 77	now called into question from an environmental viewpoint 1,01 MEuro Mr. ALFONSO AMEYUGO PERPLASTIC, S.L. Polígono industrial Cantabria. 26006 Logroño Tel.: + 34 941 24 52 33
● 2524 EUROTOURISM ASITEC(DEF) Environment New technologies will be develo- ped/applied in a sustained and inte- grated way in order to obtain better quality of life for citizens by redu- cing the negative environmental impact and better management of council resources. 9,68 MEuro Mr. MIGUEL A. SANTOS CRUZ AYUNTAMIENTO DE ADEJE. Calle Grande, 1. 38670 Adeje (Tenerife) Tel.: + 34 92 27 10 69	● 2524 EUROTOURISM ASITEC(DEF) Environment New technologies will be develo- ped/applied in a sustained and inte- grated way in order to obtain better quality of life for citizens by redu- cing the negative environmental impact and better management of council resources. 9,68 MEuro Mr. MIGUEL A. SANTOS CRUZ AYUNTAMIENTO DE ADEJE. Calle Grande, 1. 38670 Adeje (Tenerife) Tel.: + 34 92 27 10 69
● 2527 EUROTOURISM (DEF) Information Technology The objective of this strategic project is the application of new technologies for the improvement and sustainabi- lity of the tourism, leisure and cultu- ral industry as well increasing the european citizen's standard of life. 1 MEuro Mrs. ANA Mª SALAZAR DE LA GUERRA CONSORCIO ESPAÑOL EURO- TOURISM. Pl. Manuel Becerra, 14. 28028 Madrid Tel.: + 34 91 725 08 14	● 2527 EUROTOURISM (DEF) Information Technology The objective of this strategic project is the application of new technologies for the improvement and sustainabi- lity of the tourism, leisure and cultu- ral industry as well increasing the european citizen's standard of life. 1 MEuro Mrs. ANA Mª SALAZAR DE LA GUERRA CONSORCIO ESPAÑOL EURO- TOURISM. Pl. Manuel Becerra, 14. 28028 Madrid Tel.: + 34 91 725 08 14
● 2540 EUROTOURISM INTERTOUR Information Technology The project consists of encouraging the use of the Internet between small and medium-sized companies as a promotional springboard. 2,6 MEuro Mr. RAFAEL BURRIEL CONSEJO INSULAR DE MENORCA Reverend Francesc Sitjar, 1. 07010 Palma de Mallorca Tel.: + 34 971 17 72 70	● 2540 EUROTOURISM INTERTOUR Information Technology The project consists of encouraging the use of the Internet between small and medium-sized companies as a promotional springboard. 2,6 MEuro Mr. RAFAEL BURRIEL CONSEJO INSULAR DE MENORCA Reverend Francesc Sitjar, 1. 07010 Palma de Mallorca Tel.: + 34 971 17 72 70
● 2502 FREEHALOGEN New Materials Design of halogen-free, flame-retar- dant plastic formulations for cable insulators in the automotive sector able to compete with the vinyl com- pounds currently used, as these are	● 2502 FREEHALOGEN New Materials Design of halogen-free, flame-retar- dant plastic formulations for cable insulators in the automotive sector able to compete with the vinyl com- pounds currently used, as these are