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6-7 May 2002

• **Are you looking for partners in Europe?**

• **Do you have an idea to develop?**

• **Do you need to finance an innovation process?**

• **Do you want to find information on European technology results?**
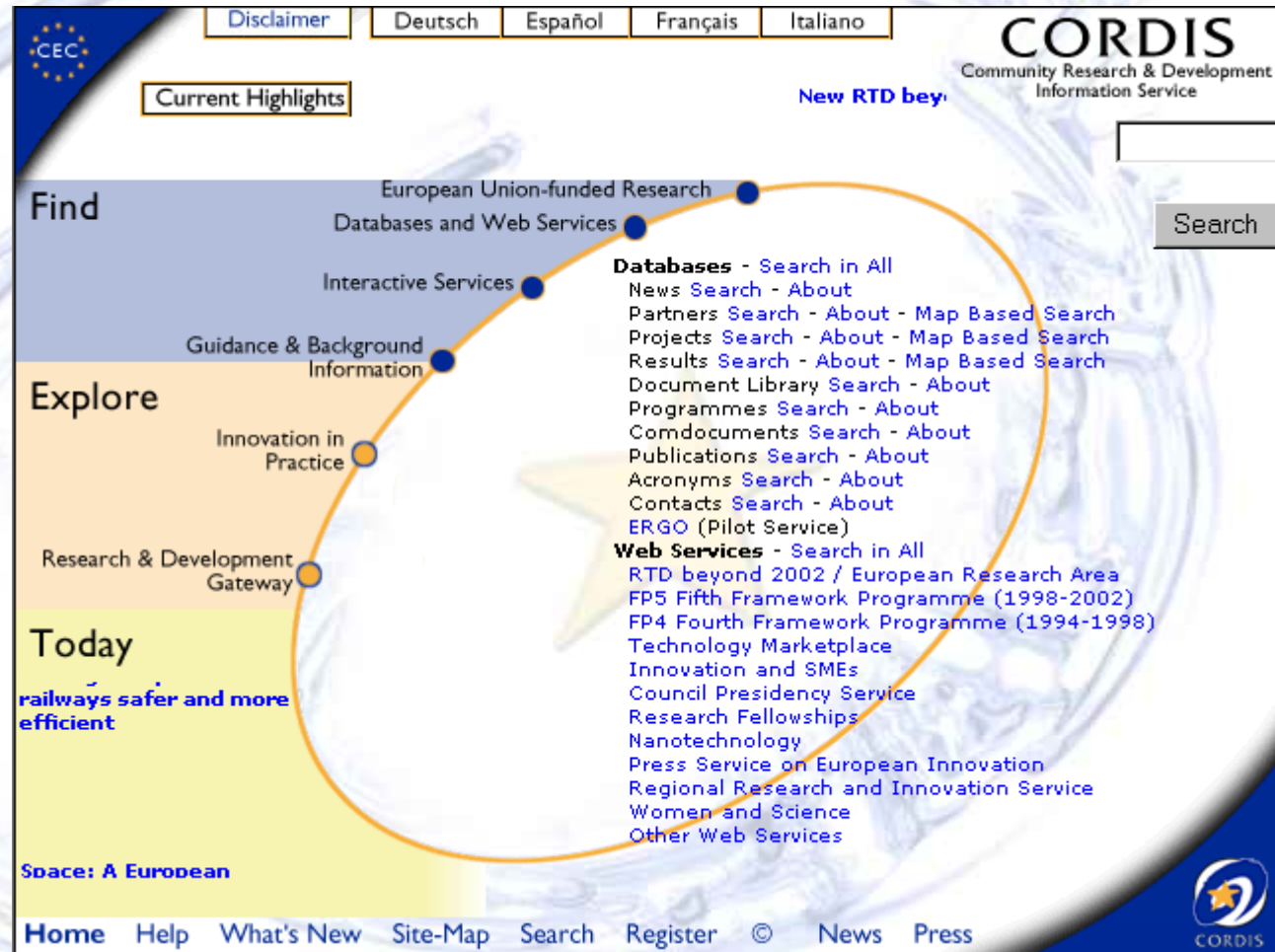
CORDIS.lu can help

CORDIS Objectives

- *Offer a quick access to information on European Research programmes and activities*

- *Ease participation in programmes supported by the European Union*

- *Enhance research results exploitation and promote innovation*

- *Provide small business with local information and assistance*

A European Innovation Portal

• *Timely and free information on R&D*

• *Fully searchable web services and database services*

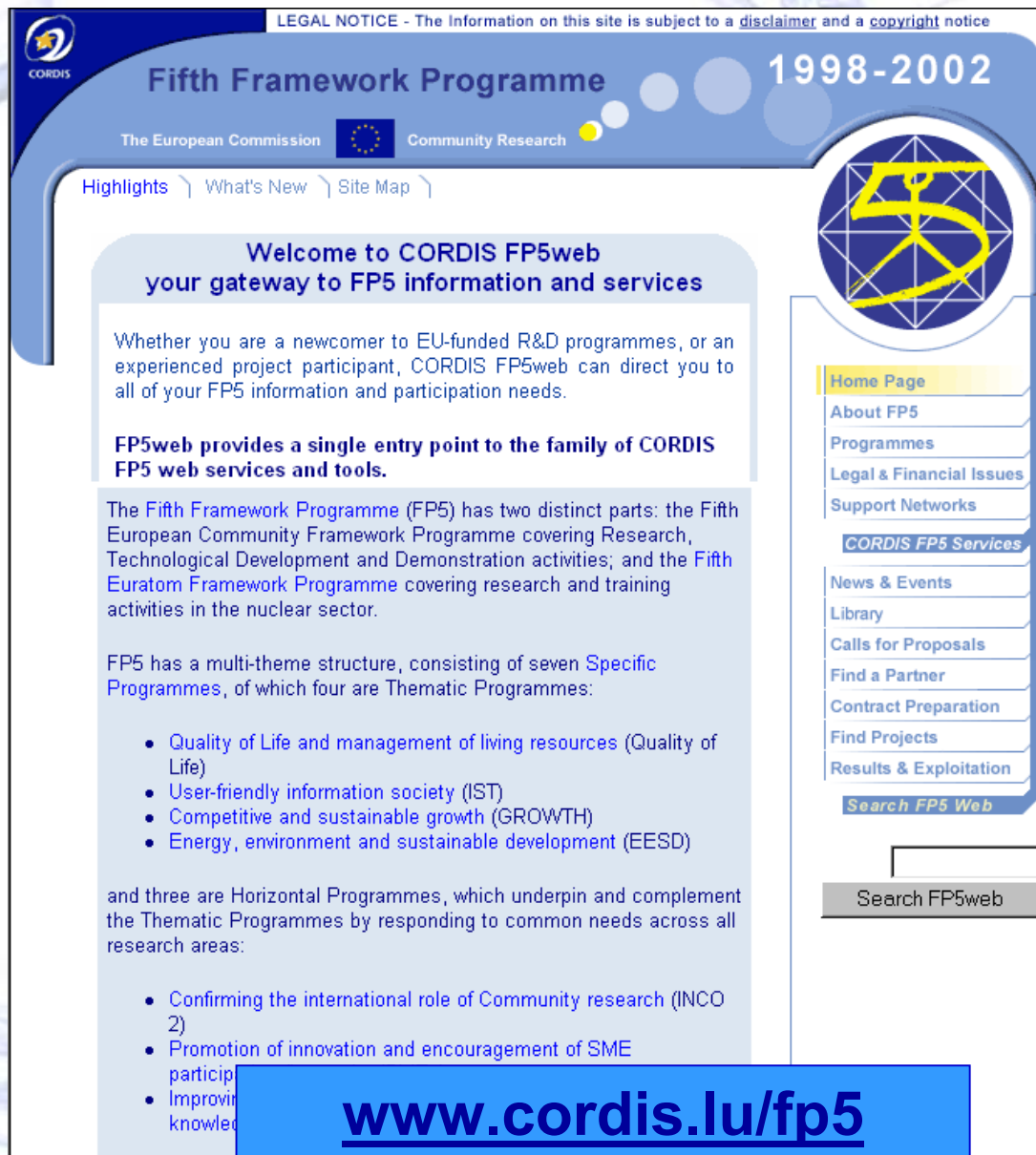• *Interactive and user-friendly features, including e-mail alert*

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Easing access to funding opportunities

• *Information on research programmes and key actions*

• *Direct access to calls and documentation*

• *Assistance to participation in projects*

• *List of useful contacts*

www.cordis.lu/fp5

Simplifying technology transfers

- *Selection of recent exploitable technologies*

- *Useful links to ease transfers*

- *Searchable results in Business, Science and Society*

- *Facility to submit new results on-line*

- *Available in English, French, German, Italian & Spanish*

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Technology Marketplace

Database for climate change

A project in the European Arctic is studying environmental systems in order to produce a data set of the interacting units that strive to achieve ecological balance. This database is to be used as the basis of a model to predict climate change

The European Arctic is an ideal place to investigate factors of climatic fluctuation. It is comparable to similar environments in Alaska, Canada and Northern Russia. Any alterations of the climate in these areas will be felt on a continental scale. The data collection contains 30 minute averages for individual parts of the ecosystems. Information has been accumulated using the latest in field equipment to sample gas, soil and water. A focus of the study has been the flow of energy between the surface and the atmosphere. Several of the greenhouse gases were studied such as carbon dioxide and methane to determine their influence on the continental ecosystem. The database will produce models that researchers in climatology can use to predict changes in climate, ecology and energy balance.

Country: United Kingdom

Information Source: Non EU-funded research

Collaboration Sought: Further research or development support

Date: 2000-06-28

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- Energy
- Environment
- IT-Telecommunications
- Industrial Technologies

■ ■ ■ ■ ■ **Offers Environment**

Regional weather prediction with space data

Major international centres have made steady progress in fulfilling their functions and responsibilities with increasing skill in the field of weather prediction. A rather new field of activity is atmospheric profiling, based on the global navigation positioning satellites (GPS). A prototype system has been developed that is able to easily process all intermediate steps between the extractions of raw data and derivation of atmospheric profiles of physical parameters for a reliable regional weather forecast.

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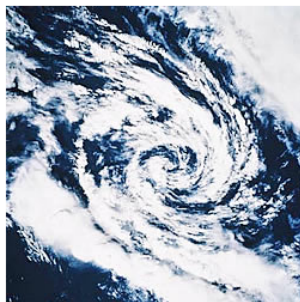
Meteorological satellites carrying appropriate instrumentation have been extensively used for observing the planets weather phenomena and monitoring its climate. As science and technology advance, new weather prediction models and their outputs have become indispensable tools for modern weather and climate forecasting from short, medium to long-range seasonal scales. While global modelling requires considerable computing power mainly for data assimilation and pre-processing functions, regional models and limited domain models, using boundary conditions from global models, can now be run on workstations and PC platforms for operational weather forecasting and research.

A new prototype system with the capability of processing all the necessary steps from handling the raw satellite data to producing the atmospheric profiles of pressure, temperature and humidity has been developed. These atmospheric profiles can be easily introduced to the running of multi-level regional and limited area numerical prediction models. Thus facilities are enhanced in terms of operational capacities using models with boundary conditions and a low-cost platform to support issuance of forecasts tailored to meet user needs and more detailed, more accurate forecasts of severe weather events, such as thunderstorms, tornadoes, tropical cyclones.

The system uses semi-automatic end-to end radio occultation measurements in a processing chain for deriving density, temperature and humidity profiles that are further assimilated into the regional numerical weather prediction models with the aid of specially designed tools. Due to their global distribution, a sufficient number of such occultation measurements is expected to improve the atmospheric predictability, and consequently numerical weather prediction models, as well as the climate monitoring. The software developed has been validated with data coming from different satellites. Furthermore, the impact of GPS profiles on the weather prediction has been extensively studied.

Recent severe weather events in different parts of the world, either associated with strong El Niño-southern oscillation events or other global trends have drawn attention to the need for meteorological services to enhance their capacity and skill to monitor and predict severe weather and climate events. This particular system is expected to contribute substantially to both climatology and meteorology for new weather prediction. Through early detection, the new weather prediction models offer improved community preparation with an action plan that responds to the threat of all types of severe weather, focusing on the sustainable social-economic development of topical regions.

Country: Denmark

Information Source: Result from the EU funded ENV 2C programme

Collaboration Sought: Further research or development support; Financial support
Property Rights: Patent(s) applied for but not yet granted

Date: 2002-02-18

Contact Details

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■ ■ ■ ■ ■ Video production gets dedicated hardware/software combination

European innovation under the umbrella of the ESPRIT programme, has taken the lead in PC based video-graphic manipulation solutions. VITEC Multimedia, a French based IT company has introduced an award winning hardware/software technology that promises to make an impact.

Video-graphic manipulation has come a long way. With the potential to make close-to-Hollywood type video, special effects and animation with software packages already on the market, the only drawback seems to be the processing power of PC graphic cards. The race for faster and better video digitisers is a world of constant and expensive upgrades. A newly devised, dedicated hardware aims to provide a better solution.

VITEC Multimedia aims to put the breaks on such expenditure trends, relieving the user of the need to constantly upgrade their video hardware and software installations. They've introduced the *ASIC*/VLSI MPEG-2 codec chipset embedded in a PCI board interface, fully capable of real-time video capture, compression, decompression and resolution. The card is a stand-alone hardware solution that comes ready made with its own drivers, software package and a open architecture for future upgrades that makes it a strong competitor for PC video editing.

With full picture algorithm and motion estimation support, the chipset allows for the suitable integration of this technology into other video based services such as certain medical, industrial, educational and video surveillance arenas. Whilst the chipset operates at only Half D1 MPEG-2 format, it uses its own co-processor along with the processor of the PC, thus ensuring unprecedented processing power and ease.

© PhotoDisc

It is however, their open architecture that is the core innovative feature, doing away with the need for a continuous process of expensive hardware upgrades. VITEC's solution offers a truly unique compatibility-upgrade potential. As it is a hybrid encoding/decoding solution, it is cost effective as it can be continually evolved to faster, better processors and never be outdated by upgraded hardware designs. Hence it is fully compatible with fast computers and even advanced MPEG-4, multi-video channel encoding.

The technology is currently under production and sale, available for distribution world wide.

Country: France

Information Source: Result from the EU funded ESPRIT 4 programme

Collaboration Sought: Further research and development support; Join venture agreement; Licence agreement; Financial support

Date: 2002-02-11

Contact Details

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FRANCE

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Fax: +33-1-46730600
Email: info@vitecmm.com
URL: http://www.vitecmm.com

Improving international partner search

• **A free 2-way communication channel**

• **An easy consultation of potential co-players**

• **Details of thousands of partnership requests from companies, research centers, universities in Europe and the world**

• **A selection of potential partners in Newly associated States**

www.cordis.lu/partners-service

Section 1: Contact Person Details

Before Filling out the Form:

1. Read the Entry Form Instructions carefully.
2. Use an UP-TO-DATE browser preferably PC based (Netscape 3.04 or Internet Explorer 4.0 or higher).
3. Use the ISO 8859/1 Character set but avoid using the characters ÿ < > / & which could be misinterpreted.
4. In fields (boxes) where you enter your own text make sure you use the %L to go to a new line as explained in the instructions. Leave a space at the end of each line.
5. For multiple selections in list boxes use the Control key on your keyboard.
6. Avoid navigating with the [BACK] and [FORWARD] buttons of the browser when completing each section. Rather complete one section at a time, in sequence, and confirm each section when complete. Only then may you submit your data by pressing the SUBMIT button in the left-hand frame. All sections need to be completed paying particular attention to mandatory (required) fields.

NOTE: If you are already a registered CORDIS user, your contact details are automatically inserted for you in this section. However, you may modify and correct this form or add additional information as necessary.

1.1 Organization Name: *(required)*

1.2 Family Name: *(required)*

1.3 First Name:

1.4 Position in Organization:

1.5 Title:

Support
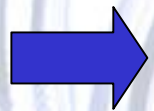
➡ **Search features**
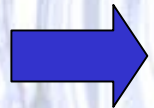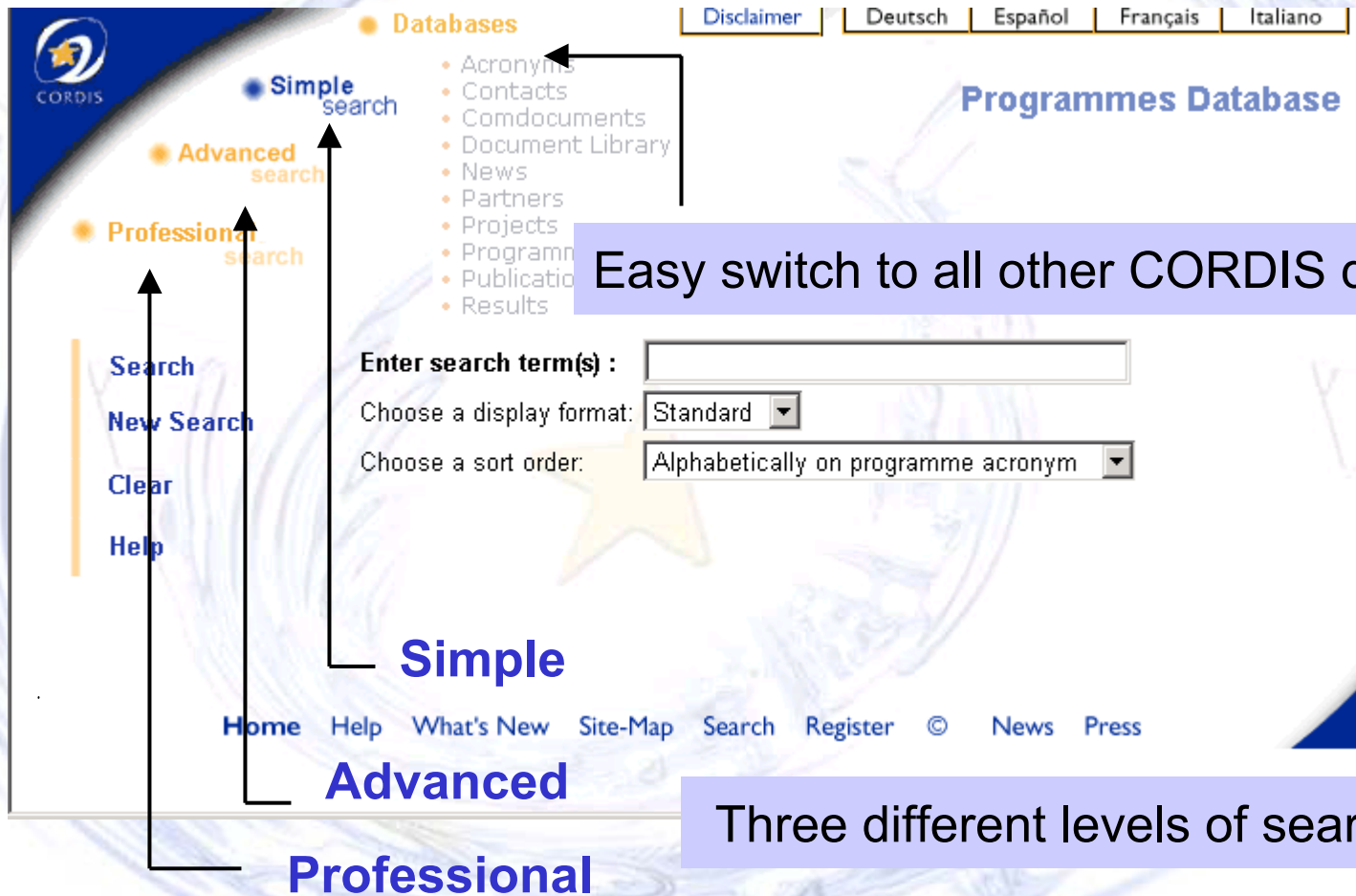
➡ **Assistance networks**
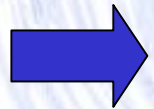
➡ **Dedicated information**

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Simple

Advanced

Professional

Three different levels of search

Geographical Search

• *A simple way to identify projects, results and partners*

• *A possibility to select information at local and regional levels*

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E-mail alert service

Easy system to keep abreast of the latest information with customised search profiles:

➔ *New partner profiles*

➔ *Latest research results and projects*

➔ *Specific news*

➔ *Calls for tenders and proposals*

www.cordis.lu/rapidus

Access to local assistance

• *Information on the Research infrastructures, policies and activities from a local perspective*

• *Support for adopting technology and finding partners*

• *Links to other assistance helpdesk and national contact points*

www.cordis.lu/irc

Access to local Business incubators

• *Direct access and links to Science Parks and Innovation Centers in Europe*

• *Searchable contacts in Europe by country and sector of activity*

• *More than 800 addresses to assist local business*

www.cordis.lu/incubators

A window on the future of European research

• *Information on the European Research & Innovation Area*

• *Privileged access to debates and documents on the FP6 (2002-2006)*

• *Highlights on policy initiatives*

• *Dedicated services on « Science & Society », "S&T indicators" and "S&T foresight"*

www.cordis.lu/rtd2002

Daily coverage of European research and innovation activities

- *Information on policy measures and programme implementation*

- *Open calls for tenders*

- *Focus on research projects and breakthrough*

- *Event announcements*

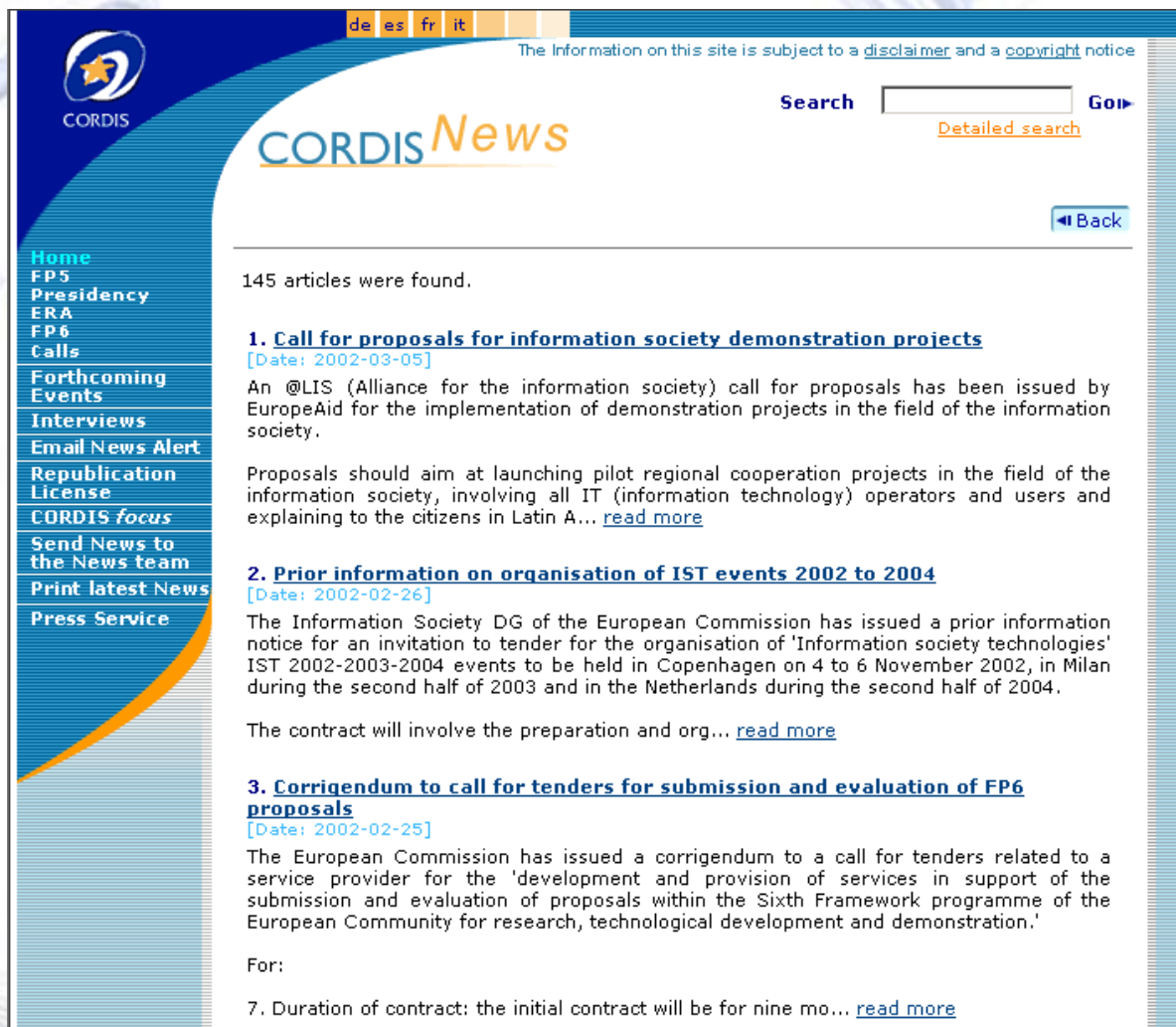- *In English, German, French, Italian and Spanish*

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Latest Calls for proposals

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145 articles were found.

1. Call for proposals for information society demonstration projects
[Date: 2002-03-05]

An @LIS (Alliance for the information society) call for proposals has been issued by EuropeAid for the implementation of demonstration projects in the field of the information society.

Proposals should aim at launching pilot regional cooperation projects in the field of the information society, involving all IT (information technology) operators and users and explaining to the citizens in Latin A... read more

2. Prior information on organisation of IST events 2002 to 2004
[Date: 2002-02-26]

The Information Society DG of the European Commission has issued a prior information notice for an invitation to tender for the organisation of 'Information society technologies' IST 2002-2003-2004 events to be held in Copenhagen on 4 to 6 November 2002, in Milan during the second half of 2003 and in the Netherlands during the second half of 2004.

The contract will involve the preparation and org... read more

3. Corrigendum to call for tenders for submission and evaluation of FP6 proposals
[Date: 2002-02-25]

The European Commission has issued a corrigendum to a call for tenders related to a service provider for the 'development and provision of services in support of the submission and evaluation of proposals within the Sixth Framework programme of the European Community for research, technological development and demonstration.'

For:

7. Duration of contract: the initial contract will be for nine mo... read more

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