



Redis News

2 □ 1997 Bi-annual

FOREWORD

R&D and Innovation Statistics in the Year 2000

Some years ago, the mention of *Year 2000* conjured the vision of some very distant future date. Today, most people have come to realise that this is barely twenty six months from now.

While the euphoria of the millenium will no doubt build up in the coming months, two basic questions will continue to dog a lot of R&D statisticians. The first is *what have we achieved in the last decade?* The second will be *how prepared are we to meet the ever-increasing demand of users for good quality statistical information?*

The past ten years have witnessed intense activities in the development of methodologies. Cooperation and dedication of experts at international level have yielded a lot of fruits. Basic definitions and standard methods have been (and are being) developed while the *ad hoc* nature of work in this field has given way to systematic planning and execution of data collection, treatment, analysis and dissemination.

What had seemed so futuristic some years ago are now gradually being introduced into production

process of the statistical information system. Thanks to the efforts of international groups such as the UNESCO, the OECD, the exemplary work of the *Indicators Group* of DGXII, the EIMS of DGXIII and a number of others.

The biggest achievements for this decade will not be measured by the number of tables or volume of data, nor for that matter number of publications produced. Rather, three basic (and very interrelated yardsticks) will be used.

The first will be the *quality* of our products and the perceived *reliability* of our data. The second will be how close we are getting to understanding and to catering for the *real* needs of our users (and perhaps involving them at the *engineering* stage). The third will be our level of foresight and anticipation of user needs.

In the coming months, while attention will no doubt be focused on the imminent arrival of the millenium, statisticians will have to ask themselves the inevitable questions: *how prepared are we to meet the needs of our users? What will be the implications of the evolving new technologies for our profession? What should (or can) we do to improve the system?*

Through its various statistical research activities, Eurostat has been preoccupied in finding answers to these and many other pertinent questions.

Photis Nanopoulos
Director



..... Stop Press

Please note that the date of the next meeting of the Working Party on R&D and Innovation Statistics has now been moved to 15-17/12/97. Invitations for this meeting and all the working documents will be sent out as usual. (For more information on this meeting, please see page 7.)

In this issue:

Foreword	1
The REDIS Management	2
R&D statistics in Eurostat	3
Human Resources in S&T	3
Intangibles	3
Regional R&D Indicators	4
Community Innovation Survey	4
Databases & Publications	5
Plans for coming months	7
Focus (The Working Party)	7
Who is Who of the WP	7
Other news	10
OPOCE sales offices	11

The REDIS Management

The REDIS (Research Development and Innovation Statistics) Project is one of the projects of the Directorate A. It is managed by Unit A4 (Research, Development, Methods and Data Analysis) headed by Mr. Daniel Defays under the director Mr. Photis Nanopoulos. Mr. Maurits Pino is responsible for the overall coordination and day-to-day running of the project.

There have been some changes to the REDIS team since the last issue of this newsletter. Mr Mikael Åkerblom (seconded from Statistics Finland) who managed the Innovation Statistics project went back to Helsinki while Miss Ruth Magono who worked on the Indicators project (REIST) has moved on to another unit of Eurostat. Mr. Youri Baeyens will leave the CIS team shortly to take up new challenges. He will be replaced by Miss Anne Flottes. In the secretariat, Mrs. Anne-Françoise Van Schingen-Gonry (who was until recently the project secretary) has taken up a new role in the team. She has been replaced by Ms. Anne-Marie Pratiffi.

Some useful telephone numbers:

Photis Nanopoulos	4301 32443
Internet: photis.nanopoulos@eurostat.cec.be	
Daniel Defays	4301 32854
Internet: daniel.defays@eurostat.cec.be	
Maurits Pino	4301 34462
Internet: maurits.pino@eurostat.cec.be	

Cesar De Diego Diez 4301 34992
Internet: cesar.dediegodiez@eurostat.cec.be

It is an important part of our mission to continue serving you to the best of our ability. This newsletter is a mere summary of some of our activities. If you would like some more information, or if you have questions or comments on any of the issues mentioned in it, please do not hesitate to contact us. To ensure that you receive future issues of REDIS News, please notify us of any changes to your address as soon as possible.

Your attention is drawn particularly to the change of address form on page 9. We will appreciate your completing it if and when this becomes necessary.

REDIS News is prepared by Unit A4 of Eurostat as a service to users of statistical information on R&D and Innovation. The opinions expressed are those of the authors alone. Neither the European Commission nor any person acting on its behalf is responsible for the use which might be made of the information contained in this newsletter.

All communication should be addressed to:

REDIS News

Eurostat

Room C5-98, Jean Monnet Building

L-2920, LUXEMBOURG

Phone: +(352) 4301 34462 Telefax: +(352) 4301 34149

Internet: maurits.pino@eurostat.cec.be

Editor: Edward OJO

Internet: edward.ojo@eurostat.cec.be

R&D STATISTICS IN EUROSTAT

Progress reports on main activities

Human Resources in Science and Technology (HRST)

The pilot survey on HRST stocks came to an end, with data from eleven EFTA countries received, including some further detailed data from countries which had already responded (sector of economy, regional data etc). Despite the limitations associated with the survey, the main findings were largely positive, with the basic stock indicators calculated in the majority of cases.

The results of the pilot survey were released in an edition of Eurostat's *Statistics in Focus, Research and Development* (1997, No.2 ISSN 1024-7971) which analysed the data in as much detail as was possible. Key indicators were presented graphically, and each of the main aspects of HRST were discussed - analysis by HRST occupations, university and technician level HRST, field of study and so on.

The final part of the pilot survey was completed by way of sending out a questionnaire to all countries, which had responded. This covered such aspects as comparability, keys used for the conversion from national occupation and education systems to the international systems (and possible discrepancies as a result of these transformations), statistical problems, and possible changes which could be undertaken to improve future stock surveys.

The paper describing indicators measuring certain key flows of HRST - inflows via education and migratory flows of HRST - has been finalised. Our current work on the Human Resources in Science and Technology project involves looking at flow data which is currently available, mainly education data.

For more information please contact :

George Paterson (Tel.: +352-426640-404
Fax: +352 426640410) E-mail: george.paterson@camire.lu

Intangibles

Eurostat has recently received two reports from contractors on intangibles. The first was the final report from the study by Mangematin and Lhuillery "Intangible Activities: What kind of data do we need?". The second was the first interim report of a SUPCOM study executed by Statistics Netherlands (Croes, Vosselman) on ways to actually determine what can and should be measured.

Mangematin and Lhuillery split intangibles into a number of domains and, for each of these, ask what is known (and what is the uncertainty) and what is needed. They aim to find their answers in the scientific literature.

In their chapter on R&D, they identified among others, the need for a depreciation rate of R&D and a price index of the R&D inputs.

Information technology is discussed with an emphasis on its relation with productivity. A chapter is devoted to Human capital. Various aspects of marketing are discussed, of which the most important one is the duration of the effect of marketing. In general this seems to be shorter than a year, implying that it should not be treated as an investment. Lastly they discuss the investment in the ability to innovate.

Every chapter contains a table which reports the authors' overview of the literature with an indication of the type of research and the area of application.

Croes and Vosselman devote the first part of their report to trying to define intangibles in general. They then discuss *rights, technology and innovation, marketing and sales, organisation and information technology.*

Rights include concepts like patents, trade marks etc. *Rights* can be seen as an output indicator and therefore provide valuable information on what is going on near the end of the innovation chain.

Technology and Innovation proposes among others, to divide various expenditure/cost categories of the OECD Oslo Manual on innovation into intangible investments or not. R&D is dealt with in this chapter.

With marketing and sales, the main issue is to what extent the expenditure is considered to be *investments* or *activities*, i.e. whether they have a long-term impact or not.

Under *organisation*, the authors deal with organisational change such as tentatively discussed in the second edition of the Oslo Manual. They focus on organisational change and especially on those in the accounting system and the way the enterprise deals with the changes in its environment that are induced by the government. Finally they deal with information technology which they treat as software.

The first study is now ready and seems (despite its unfortunately very slow production) an adequate document for its purpose of providing information on a literature basis.

The second study has only recently started, but seems to be on full speed. Its first interim report has raised the hopes for an important contribution towards a systematic treatment of various types of investments in intangibles.

For more information please contact

Maurits Pino (Tel.: +352-4301.34462 Fax: +352 4301 34149).
E-mail: maurits.pino@eurostat.cec.be

Regional R&D Indicators

Regional R&D input indicators

Regional coverage of the R&D input indicators (R&D expenditure, R&D personnel) has been further improved in the 1998 annual publication. For the first time, regional data are now available for all institutional sectors for Belgium (at NUTS 1), Italy (at NUTS 2), and Finland (NUTS 2). Most countries have up-dated their time series.

Regional patent data

Co-operation with the European Patent Office (EPO) for the compilation of regional data on

European patent applications continues. In the 1997 edition of *R&D: Annual Statistics*, time series from 1989 to 1995 are presented. Data are now available for all Member States.

The regionalisation of data on European patent applications is achieved by translating postal codes – taken from the address of the inventor(s) – into NUTS. To maintain the quality of the data, these relational tables from postal codes to NUTS have been up-dated for the data extraction for the 1998 annual publication. Additionally, an improved approach to regionalising the patent data has been prepared in co-operation with the EPO. It is expected that the new method will further improve the quality of data for the 1998 publication.

New methodologies – Measurement of employment in high technology sectors

A feasibility study carried out by the Institute for Employment Studies - IES (Brighton, UK) led to the conclusion that reliable data on employment in high technology sectors at NUTS level 1 could be derived from the Community Labour Force Survey (LFS). Data have been extracted from the LFS and are currently being analysed. The publication of an issue of *Statistics in Focus* on the results is planned for early 1998.

For more information please contact

Sabine Gagel (Tel.: +352-426640406 Fax: +352 426640410).
E-mail: sabine.gagel@camire.lu

Community Innovation Survey (CIS)

CIS-I

Release of the CD-ROM

Eurostat has released a CD-ROM summarising information from the first Community Innovation Survey, which has been jointly supported and implemented by Eurostat and DGXIII, SPRINT Programme and European Innovation Monitoring System (EIMS).

The CIS-I was organised in the 12 old Member States of the European Union, in Norway and in Iceland. With the data received from the countries, Eurostat set up a database that is being used for analysis of innovation from academic and policy-making perspectives.

From this database a CD-ROM has been prepared. It contains a large number of tables (7000). This is a mere tip of the iceberg considering that around 40,000 enterprises that can be ordered in many ways (country, size, primary activity, innovative or not, performing R&D or not, etc.) have answered some 200 questions. This opens boundless opportunities for creating tables.

From the several options considered, it was eventually decided on a set that is considered as being the most relevant set of tables.

The CD-ROM covers economic activities, general information about innovation, sources of information and objectives of innovation, acquisition/transfer of technology, methods for maintaining and increasing competitiveness of innovations, R&D activities, impact (output) and costs of innovation activities and factors hampering innovation.

Some tables could not be completely filled in. Sometimes a country has not included a question in their national questionnaire. More often a series of cells has to be suppressed to protect the confidentiality of the data.

In general one must be very careful with comparisons between countries. Differences in wording in the questionnaire or in sampling techniques between the countries endanger the comparability. In the *help* function of the CD-ROM an indication is given where these problems can be expected.

To order the CD-ROM, please contact the

Eurostat Datashop, rue Jean Engling, L-1466 Luxembourg,
Telephone: +352 4335 22 51, Telefax: +352 4335 22 24



Progress report

At the last EEA working party on R&D and innovation statistics in January 1997, it was decided that the second Community Innovation Survey (CIS-II) should be carried out in 1997.

As at going to press, the new survey is being launched. This time, all the fifteen Member States as well as Norway and Iceland intend to take part. A stricter co-ordination of the work has been

imposed in order to guarantee a much higher comparability between countries. The second survey should allow for more profound analysis.

The target population will consist of enterprises in the manufacturing, as well as in the service sectors. The questionnaire follows very closely the recommendations of the revised version of the Oslo manual. It is the outcome of the work of a task force on innovation and of active discussions between the Member States and the Commission.

To monitor the harmonisation of CIS-II, the Commission (Eurostat together with DGXIII) is actively cooperating with the participating countries. A full documentation on the implementation of CIS-II has been sent out to the Member States.

The exhaustive documentation covers the following subjects:

- Core questionnaire (service and manufacturing sectors)
- Methodological recommendations (target population, survey methodology, collecting and data processing, non-response analysis, etc.)
- Controls and logical checks and methods for estimation of item non-response
- Algorithms for the control and logical checks (manufacturing and service sector)
- Guidelines for data transmission (manufacturing and service sectors)

Eurostat aims to achieve a high degree of harmonisation for the collection of innovation data. In this respect the Member States transmit their questionnaires as well as their survey methodology to Eurostat for comments. National institutes also make relevant remarks on the logical and control checks, the cleaning procedure including the estimation techniques proposed by Eurostat. Hence we are expecting to reach a higher degree of harmonisation for CIS-II than for CIS-I.

To speed up the dissemination of data the participating countries of CIS-II have been asked to provide Eurostat with some preliminary results at an early stage. These will cover the following statistics:

- Population of enterprises
- Innovation input
- Innovation output
- Innovation objectives
- Innovation sources
- Innovation cooperation
- Innovation barriers.

In most of the countries the national innovation survey has already started. The countries which are on the field are: Belgium, Germany, Spain, France, Italy, Luxembourg, Netherlands, Finland, Sweden and the United Kingdom.

Denmark, Greece, Ireland, Austria, and Iceland are expected to start very soon. Norway will send out the questionnaires in January 1998.

For more information, please contact

Eric Ng Shing (Tel.: +352-4301 34248 Fax: +352 4301 34149)

Database and Publications

The Indicators Report

The work on the second edition of the European Report on Science and Technology Indicators (REIST) is almost finished. The English version (of this DG XII publication) will appear in print end of this year. REIST sets out to analyse the situation of S&T in Europe in its wider economic context, and to compare it with major developments in other parts of the world. Therefore, the geographical scope of REIST is not restricted to EU or OECD member countries, but includes also several Eastern European, Asian, South American and Mediterranean countries.

Several research institutes across Europe were responsible for providing the text to the Report, with many graphs and tables. Eurostat was, and is, responsible for the data. Over the past year, datasets containing S&T variables and general macro-economic indicators have been collected from various sources.

These data-files were handed out to the subcontractors of DGXII. The contractors on the other hand collected data on specialised indicators, for example bibliometrics and patents and delivered them to Eurostat. All data are stored in a database, which will serve as a prime reference source for S&T information, and will also facilitate the work on the next issue of the Report, which will start next year.

Some important contribution to REIST is the Statistical and the Methodological Annex produced by Eurostat. The Statistical Annex consists of 150 pages of tables with data on both S&T and economic variables.

Topics covered are: R&D appropriations, R&D expenditure, R&D personnel, graduates of higher education, bibliometrics, patents, total and high-tech trade, technology balance of payments, innovation, R&D co-operation in Europe, national accounts, price indices, exchange rates, population, labour force and foreign direct investment. The Methodological Annex (of about 40 pages) discusses in detail, underlying concepts and definitions of the indicators.

For more information please contact :

Martin Schaaper (Tel.: +352-426640406 Fax: +352 426640410).
E-mail: martin.schaaper@camire.lu

Research and Development: Annual Statistics 1997

Just Released !

The R&D Annual Statistics 1997 brings the readers data on government appropriations on R&D (GBAORD), and expenditures and personnel like in the past. Patent data are provided for the period 1989-1995. Patent data were new in last year's publication and this year they have been improved upon.

A number of difficulties have been cleared up, although some remain. For example, a considerable number of patents cannot be allocated to a region because the postal code cannot be identified or because the link between postal codes and regions is not sufficiently reliable.

There are two new features in the annual publication: the first is a chapter devoted to now- and forecasts and there is a chapter on non-EEA countries. Eurostat is now for the first time able to meet the requests of the users for up to date data on these.

The other new chapter, on non-EEA states, is a consequence of the use of the Indicators Report (REIST) database. In the past, some comparisons were made with the USA and Japan. The width of the comparisons has now been widened substantially.

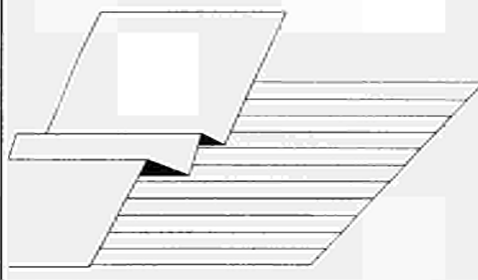
For the 1997 issue, there has been a big acceleration of the production process compared to 1996. This means that information is a lot more fresh. There were two factors, which made this possible: the Member States delivered the data earlier than last year and Eurostat's editing work has been streamlined. For 1998 we hope to be able to cut the process down by one month!

To obtain a copy of this document, please contact your nearest sales office for official EU publications (as shown on page 11 of this newsletter). You may also obtain further information on this and other REDIS publications from the project secretary or by contacting the Eurostat Data shop (see page 11)

For information on the content of the publication please contact:
 Véronique de Kanel (Tel.: +352-426640406 Fax: +352 426640410)
 E-mail: veronique.dekanel@camire.lu



**FORSCHUNG UND ENTWICKLUNG:
 JÄHRLICHE STATISTIKEN
 RESEARCH AND DEVELOPMENT:
 ANNUAL STATISTICS
 RECHERCHE ET DEVELOPPEMENT:
 STATISTIQUE ANNUELLES
 1997**



Plans for the coming months

The 1997 EEA Working Party Meeting will take place on 15 - 17 December. The major item of the agenda will (as it was last year) be the innovation survey. Discussions will focus on the progress made both by the Member States and Eurostat. The meeting will deal with related issues (CD-ROM, studies, third CIS)

Also to be discussed will be HRST, regional indicators, internal indicators, the REIST report. A new topic for discussion will be that of now/forecasts. (Research and Development: Annual Statistics contains in the 1997 issue, for the first time, a series of nowcasts, which will need to be discussed.)

The Council Decision establishing a multi-annual programme on R&D and Innovation statistics which has been the legal basis for the activities of the project over the past years requires Eurostat to produce a report on the work of the past four years. A draft of this report has been prepared and will eventually be submitted to the Council.

For more information, please contact:

Maurits Pino (Tel.: +352-4301 34462 Fax: +352 4301 34149).
 E-mail: maurits.pino@eurostat.ecc.be



Abbreviations and Acronyms used

CIS	Community Innovation Survey
DG	General Directorate (of the European Commission)
EEA	European Economic Area
EPO	European Patent Office
EU	European Union
GBAORD	Government Budget Appropriation or Outlays on R&D
HRST	Human Resources in Science & Technology
NUTS	Nomenclature of Territorial Units for Statistics
OECD	Organisation for Economic Cooperation and Development
R&D	Research and development
REDIS	R&D and Innovation Statistics
REIST	European Report on Science and Technology Indicators
UNESCO	United Nations Educational Scientific and Cultural Organisation

FOCUS

.....The European Economic Area Working Party on Research, Development and Innovation Statistics

In the *Focus* section of the preceding issue of this newsletter, we looked at the activities of the EEA Working Party on REDIS, which was created over seven years ago. The group has been responsible for guiding and advising on the various actions of Eurostat in this field.

We noted that close cooperation with international bodies such as the OECD and UNESCO has

meant participation in the discussions at a very broad international level. So has the presence in the meetings of such countries as the USA, Canada, Australia etc.

As promised in that issue, in this concluding part of the FOCUS section, we present the list of other regular non-EU participants to the Working Party.

Who is Who in the working party (concluding part) The other participants (non-EU)

	Telephone	Fax
OECD		
Daniel MALKIN	+33 -1-45249380	+33 -1-45241848
Alison Young	+33 -1-45249388	+33 -1-45241848
Genevieve MUZART	+33 -1-45249383	+33 -1-45241848
Domnique GUELLEC	+33 -1-45249384	+33 -1-45241848
Linda HARDY	+33 -1-45249987	+33 -1-45241848
UNESCO		
Lilia CAMPO-OPENA <i>Division of Statistics</i>	+33-1-45682444	+33-1-45685520
ALBANIA		
Luljeta PRIFTI <i>Institute of Statistics</i>	+355- 42-22411	+355- 42-28300
BULGARIA		
Vania JELEVA <i>National Statistical Institute</i>	+359-2-882893	+359-2-463168
CANADA		
Fred GAULT <i>Statistics Canada</i>	+1-613-9512198	+1-613-9519920
Wendy HANSON <i>Industry, Science & Technology Canada</i>	+1-613-9909787	+1-613-9967887
CZECH REPUBLIC		
Helena GLATZOVA <i>Czech Statistical Office</i>	+42-2-66042126	+42-2-862218
ESTONIA		
Aavo HEINLO <i>State Statistical Office</i>	+372-6-259217	+372-2-453923
HUNGARY		
Annamaria INZELT <i>IKU Innovation Research Centre</i>	+36-1-1185674	+36-1-2020806
ICELAND		
Thorvald FINNBJORNSSON <i>Iceland Research Council</i>	+354-5621320	+354-5529814

LITHUANIA

Aldona GIBAITE <i>Lithuania Department of Statistics</i>	+370-2-623913	+370-2-227223
-------------------------------------------------------------	---------------	---------------

FYR of MACEDONIA

Marica ALEKSIC <i>Statistical Office of Macedonia</i>	+389-91-115022	+389-91-111336
----------------------------------------------------------	----------------	----------------

MEXICO

Isabel GOMEZ <i>CONACYT</i>	+52-5-32771/3277591	+52-5-3277593
--------------------------------	---------------------	---------------

NORWAY

Frank FOYN <i>Statistics Norway</i>	+47-22-864758	+47-22-864996
Kirsten-Wille MAUS <i>NIFU</i>	+47-22-595 169	+47-22-595 101

POLAND

Elizbieta DMOWSKA <i>Central Statistical Office</i>	+48-22-6083722	+48-22-6083882
--------------------------------------------------------	----------------	----------------

ROMANIA

Pauna OLARU <i>National Commission for Statistics</i>	+40-1-4102810	+40-1-312 4873
----------------------------------------------------------	---------------	----------------

REPUBLIC OF SLOVENIA

Simona FRANK <i>Statistical Office of Slovenia</i>	+386-61-1255372	+386-61-216932
-------------------------------------------------------	-----------------	----------------

RUSSIA FEDERATION

Levan MINDELI <i>Centre for Science Research and Statistics</i>	+7-095-2294740	+7-095-8820587
Leonid GOKHBERG <i>Centre for Science Research and Statistics</i>	+7-095-2291662	+7-095-9242828
Natali GORODNIKOVA <i>Centre for Science Research and Statistics</i>	+7-095-2291738	+7-095-9242828
Alexander GORIN <i>State Committee on Science & Technology</i>	+7-095-2291642	+7-095-2299085

SWITZERLAND

Ariel DELAY <i>Federal Statistical Office</i>	+41-31-3248299	+41-31-3227857
--------------------------------------------------	----------------	----------------

**Change of address?**

REDIS News aims to keep you informed of our activities on the Research Development and Innovation Statistics project. To ensure that you receive future issues, please notify us of any change of address using the form below. If you will not like to receive any future issues of the publication, please indicate this on the form.

Name as currently printed on label:.....		
<input type="checkbox"/> My name/address should be changed to:		
Name:		
Address:		
.....		
Telephone:..... Fax..... E-mail:		

Please fax this form to: Fax number +352 4301 34149 Or e-mail to: maurits.pino@eurostat.cec.be
or by mail to: The project secretary, REDIS Project, (Eurostat A4),
Room C5/98 Jean Monnet Building, L-2920, LUXEMBOURG

OTHER NEWS

Research in Statistics

New techniques and technologies for statistics

Eurostat has the preoccupation of meeting the needs of users of European Union's data on research and development and consequently, strives to develop a robust statistical information system in this field. To achieve this, there is a clear need to develop new tools for statistics. A concerted, carefully coordinated, and active programme of statistical research is necessary to make developing of new tools and technologies, aimed as a support to producers of data at an international level, possible. This is the only way to meet the challenges of the millenium.

By jointly developing the tools with the National Statistical Institutes and the wider academic and scientific communities, issues of relevance and practical usability are addressed from the conception stage.

Eurostat supports a wide range of research activities in various fields of statistics with a number of projects being currently executed by public and private institutes on its behalf.

DOSIS and SUP-COM

There are twelve research topics which are presently being addressed within the framework of the **DOSIS** (Development of Statistical Information Systems) programme funded through the ESPRIT (Information Technologies) and Telematics Applications programme.

In addition, research projects in the field of official statistics are being financed within the framework of **SUP-COM** – a programme intended to provide scientific and technical support to Community policies. A total of twenty six projects (mostly of twelve-month duration) were financed under this programme in 1995, thirty in 1996, and about eighteen other projects are planned to be financed in 1997.

Within Eurostat itself, a number of statistical research issues are being investigated in-house.

Dissemination

To disseminate results of statistical research activities, two main actions are being undertaken. The first is the development of the statistical research website on the internet. (Please see below for the address of the home-page.)

The second is the organising of a number of scientific seminars, which are intended to provide the forum where new ideas and findings are discussed and experiences shared. Participation in these seminars is opened to anyone anywhere in the world and both scientific and programme committees always reflect very international composition.

Some of the scientific seminars planned by Eurostat for 1998 include:

Statistical Data Protection

SDP-98 Seminar, *Lisbon, Portugal 25-27 March 1998*

R&D in Official Statistics

Academic and Official Statistics Cooperation

AOSC-98 Seminar, *Sinaia, Romania 16-18 April 1998*

Knowledge Extraction & Symbolic Data Analysis

KESDA-98 Seminar, *Luxembourg, 27-28 April 1998*

Seasonal Adjustment Methods

SAM-98 Seminar, *Bucharest, Romania 21-23 October 1998*

New Techniques & Technologies for Statistics

NTTS-98 Seminar, *Sorrento, Italy 4-6 November 1998*

Exchange of Technology and Know-how

ETK-98 Seminar, *London, 1998*

It is worth mentioning that Eurostat is currently working on a new scientific review – *Research in Official Statistics ROS*. This is planned to be released shortly.

Contact for further information:

On the research activities

Justin Wickens (E-mail: justin.wickens@eurostat.cec.be)
(Telephone: +352 4301 32023 Telefax: +352 4301 34149)

For the seminars:

Edward Ojo (E-mail: helen.eftaxiadou@eurogramme.lu)
(Telephone: +352-7108 30305 Telefax: +352 7108-38)

For research home-page:

<http://europa.eu.int/en/comm/eurostat/research/intro.html>

BELGIQUE/BELGIÉ

Moniteur belge/Belgisch Staatsblad
Rue de Louvain 40-42/Leuvenseweg 40-42
B-1000 Bruxelles/Brussel
Tel. (32-2) 552 22 11
Fax (32-2) 511 01 84

Jean De Lannoy
Avenue du Roi 202/Koningslaan 202
B-1060 Bruxelles/Brussel
Tel. (32-2) 538 51 69
Fax (32-2) 538 08 41
E-mail: jean.de.lannoy@infoboard.be
URL: <http://www.jean-de-lannoy.be>

Librairie européenne/Europese Boekhandel
Rue de la Loi 244/Welstraat 244
B-1040 Bruxelles/Brussel
Tel. (32-2) 295 26 39
Fax (32-2) 735 08 60

DANMARK

J. H. Schultz Information A/S
Herstedvang 10-12
DK-2620 Albertslund
Tlf. (45) 43 63 23 00
Fax (45) 43 63 19 69
E-mail: schultz@schultz.dk
URL: <http://www.schultz.dk>

DEUTSCHLAND

Bundesanzeiger Verlag
Breite Straße 78-80
Postfach 10 05 34
D-50667 Köln
Tel. (49-221) 20 29-0
Fax (49-221) 202 92 78
E-mail: vertreib@bundesanzeiger.de
URL: <http://www.bundesanzeiger.de>

ΕΛΛΑΔΑ/GREECE

G. C. Eleftheroudakis SA
International Bookstore
Panepistimiou 17
GR-10564 Athens
Tel. (30-1) 331 41 80/1/2/3
Fax (30-1) 323 98 21
E-mail: elebooks@netor.gr

ESPAÑA

Mundi Prensa Libros, SA
Castelló, 37
E-28001 Madrid
Tel. (34-1) 431 33 99
Fax (34-1) 575 39 98
E-mail: libreria@mundiprensa.es
URL: <http://www.mundiprensa.es>

Boletín Oficial del Estado

Trafalgar, 27
E-28010 Madrid
Tel. (34-1) 538 21 11 (Libros/
Suscripciones) 384 17 15 (Libros/
Suscripciones) 384 17 21 (Libros/
Suscripciones) 384 17 14 (Libros/
Suscripciones)
E-mail: webmaster@boe.es
URL: <http://www.boe.es>

FRANCE

Journal officiel
Service des publications des CE
26, rue Desaix
F-75727 Paris Cedex 15
Tel. (33) 140 58 77 01/31
Fax (33) 140 58 77 00

IRELAND

Government Supplies Agency
Publications Section
4-5 Harcourt Road
Dublin 2
Tel. (353-1) 661 31 11
Fax (353-1) 475 27 60

ITALIA

Licosa SpA
Via Duca di Calabria, 1/1
Casella postale 552
I-50125 Firenze
Tel. (39-55) 64 54 15
Fax (39-55) 64 12 57
E-mail: licosa@fbcc.it
URL: <http://www.fbcc.it/licosa>

LUXEMBOURG

Messageries du livre SARL
5, rue Raiffaisen
L-2411 Luxembourg
Tel. (352) 40 10 20
Fax (352) 49 06 61
E-mail: mdl@pt.lu

Abonnements:

Messageries Paul Kraus
11, rue Christophe Plantin
L-2339 Luxembourg
Tel. (352) 49 98 88-8
Fax (352) 49 98 88-444
E-mail: mpk@pt.lu
URL: <http://www.mpk.lu>

NEDERLAND

SDU Servicecentrum Uitgevers
Externe Fondsen
Postbus 20014
2500 EA Den Haag
Tel. (31-70) 378 98 80
Fax (31-70) 378 97 83
E-mail: sdu@sdu.nl
URL: <http://www.sdu.nl>

ÖSTERREICH

**Manz'sche Verlags- und
Universitätsbuchhandlung GmbH**
Siebenbrunnengasse 21
Postfach 1
A-1050 Wien
Tel. (43-1) 53 16 13 34/40
Fax (43-1) 53 16 13 39
E-mail: auslieferung@manz.co.at
URL: <http://www.austria.EU.net:81/manz>

PORTUGAL

Imprensa Nacional-Casa da Moeda, EP
Rua Marquês de Sá da Bandeira, 16 A
P-1050 Lisboa Codex
Tel. (351-1) 353 03 99
Fax (351-1) 353 02 94, 384 01 32

Distribuidora de Livros Bertrand Ld.ª
Rua das Terras dos Vales, 4/A
Apartado 60037
P-2701 Amadora Codex
Tel. (351-1) 495 90 50, 495 87 87
Fax (351-1) 496 02 55

SUOMI/FINLAND

**Akateeminen Kirjakauppa/Akademiska
Bokhandeln**
Pohjoisesplanadi 39/
Norra esplanaden 39
PL/PB 128
FIN-00101 Helsinki/Helsingfors
P./tfn (358-9) 121 41
F./fax (358-9) 121 44 35
E-mail: akatilaus@stockmann.mailnet.fi
URL: <http://booknet.cultnet.fi/aka/index.htm>

SVERIGE

BTJ AB
Traktorvägen 11
S-221 82 Lund
Tfn (46-46) 18 00 00
Fax (46-46) 30 79 47
E-post: btjeu-pub@btj.se
URL: <http://www.btj.se/media/eu>

UNITED KINGDOM

**The Stationery Office Ltd
International Sales Agency**
51 Nine Elms Lane
London SW8 5DR
Tel. (44-171) 873 90 90
Fax (44-171) 873 84 63
E-mail: jill_speed@theso.co.uk
URL: <http://www.the-stationery-office.co.uk>

ISLAND

Bokabud Larusar Blöndal
Skólavörðustíg, 2
IS-101 Reykjavík
Tel. (354) 551 56 50
Fax (354) 552 55 60

NORGE

NIC Info A/S
Ostenjoveien 18
Boks 6512 Etterstad
N-0606 Oslo
Tel. (47-22) 97 45 00
Fax (47-22) 97 45 45

SCHWEIZ/SUISSE/SVIZZERA

OSEC
Stampfenbachstraße 85
CH-8035 Zürich
Tel. (41-1) 365 53 15
Fax (41-1) 365 54 11
E-mail: uleimbacher@osec.ch
URL: <http://www.osec.ch>

BĂLGARIA

Europress-Euromedia Ltd
59, Blvd Vitoshka
BG-1000 Sofia
Tel. (359-2) 980 37 66
Fax (359-2) 980 42 30

ČESKA REPUBLIKA

NIS CR — prodejna
Konviktka 5
CZ-113 57 Praha 1
Tel. (420-2) 24 22 94 33, 24 23 09 07
Fax (420-2) 24 22 94 33
E-mail: nkposp@dec.nis.cz
URL: <http://www.nis.cz>

CYPRUS

Cyprus Chamber of Commerce & Industry
Griva-Digeni 38 & Delgiorgi 3
Mail orders:
PO Box 1455
CY-1509 Nicosia
Tel. (357-2) 44 95 00, 46 23 12
Fax (357-2) 36 10 44
E-mail: cy1691.ec.cyprus@vans.infonet.com

MAGYARORSZAG

Euro Info Service
Európa Ház
Margitsziget
PO Box 475
H-1396 Budapest 62
Tel. (36-1) 111 60 61, 111 62 16
Fax (36-1) 302 50 35
E-mail: euroinfo@mail.mataw.hu
URL: <http://www.euroinfo.hu/index.htm>

MALTA

Miller Distributors Ltd
Malta International Airport
PO Box 25
LQA 05 Malta
Tel. (356) 66 44 88
Fax (356) 67 67 99

POLSKA

Ars Polona
Krakowskie Przedmieście 7
Skr. pocztowa 1001
PL-00-950 Warszawa
Tel. (48-22) 826 12 01
Fax (48-22) 826 62 40, 826 53 34, 826 86 73
E-mail: ars_pol@bevy.hsn.com.pl

ROMÂNIA

Euromedia
Str. G-ral Berthelot Nr 41
RO-70749 Bucuresti
Tel. (40-1) 210 44 01, 614 06 64
Fax (40-1) 210 44 01, 312 96 46

SLOVAKIA

**Slovak Centre of Scientific and Technical
Information**
Námestie slobody 19
SK-81223 Bratislava 1
Tel. (421-7) 531 83 64
Fax (421-7) 531 83 64
E-mail: europ@tb1.sitk.stuba.sk

SLOVENIA

Gospodarski Vestnik
Zalozniska skupina d.d.
Dunajska cesta 5
SLO-1000 Ljubljana
Tel. (386) 611 33 03 54
Fax (386) 611 33 91 28
E-mail: belicd@gvestnik.si
URL: <http://www.gvestnik.si>

TÜRKIYE

Dünya Infotel AS
Istiklal Cad. No. 469
TR-80050 Tunel-Istanbul
Tel. (90-212) 251 91 96
Fax (90-212) 251 91 97

AUSTRALIA

Hunter Publications
PO Box 404
3167 Abbotsford, Victoria
Tel. (61-3) 94 17 53 61
Fax (61-3) 94 19 71 54

CANADA

Subscriptions only/Uniquement abonnements.
Renouf Publishing Co. Ltd
5369 Chemin Canotek Road Unit 1
K1J 9J3 Ottawa, Ontario
Tel. (1-613) 745 26 65
Fax (1-613) 745 76 60
E-mail: renouf@fox.nstn.ca
URL: <http://www.renoufbooks.com>

EGYPT

The Middle East Observer
41, Sherif Street
Cairo
Tel. (20-2) 393 97 32
Fax (20-2) 393 97 32

HRVATSKA

Mediatrade Ltd
Pavla Hatza 1
HR-10000 Zagreb
Tel. (385-1) 43 03 92
Fax (385-1) 43 03 92

INDIA

EBIC India
3rd Floor, Y. B. Chavan Centre
Gen. J. Bhosale Marg.
400 021 Mumbai
Tel. (91-22) 282 60 64
Fax (91-22) 285 45 64
E-mail: ebic@giabsm01.vsnl.net.in

ISRAEL

ROY International
17, Shimon Hatarassi Street
PO Box 13056
61130 Tel Aviv
Tel. (972-3) 546 14 23
Fax (972-3) 546 14 42
E-mail: royil@netvision.net.il

Sub-agent for the Palestinian Authority:

Index Information Services
PO Box 19502
Jerusalem
Tel. (972-2) 627 16 34
Fax (972-2) 627 12 19

JAPAN

PSI-Japan
Asahi Sanbancho Plaza #206
7-1 Sanbancho, Chiyoda-ku
Tokyo 102
Tel. (81-3) 32 34 69 21
Fax (81-3) 32 34 69 15
E-mail: psijapan@gol.com
URL: <http://www.psi-japan.com>

MALAYSIA

EBIC Malaysia
Level 7, Wisma Hong Leong
18 Jalan Perak
50450 Kuala Lumpur
Tel. (60-3) 262 62 98
Fax (60-3) 262 61 98
E-mail: ebic-kl@mnl.net.my

PHILIPPINES

EBIC Philippines
19th Floor, PS Bank Tower Sen.
Gil J. Puyat Ave. cor. Tindalo St.
Makati City
Metro Manila
Tel. (63-2) 759 66 80
Fax (63-2) 759 66 90
E-mail: eccpcpm@globe.com.ph

RUSSIA

CCEC
60-Ietiya Oktyabrya Av. 9
117312 Moscow
Tel. (70-95) 135 52 27
Fax (70-95) 135 52 27

SOUTH AFRICA

Safto
5th Floor Export House
CNR Maude & West Streets
PO Box 782 706
2146 Sandton
Tel. (27-11) 883 37 37
Fax (27-11) 883 65 69

SOUTH KOREA

Kyowa Book Company
1 F1, Phylung Hwa Bldg
411-2 Hap Jeong Dong, Mapo Ku
121-220 Seoul
Tel. (82-2) 322 67 80/1
Fax (82-2) 322 67 82
E-mail: kyowa2@ktnet.co.kr

THAILANDE

EBIC Thailand
Vanissa Building 8th Floor
29 Soi Chidlom
Ploenchit
10330 Bangkok
Tel. (66-2) 655 06 27
Fax (66-2) 655 06 28
E-mail: ebicbkk@ksc15.th.com

UNITED STATES OF AMERICA

Bernan Associates
4611-F Assembly Drive
MD20706 Lanham
Tel. (800) 274 44 47 (toll free telephone)
Fax (800) 865 34 50 (toll free fax)
E-mail: query@bernan.com
URL: <http://www.bernan.com>

ANDERE LANDER/OTHER COUNTRIES
AUTRES PAYS

Bitte wenden Sie sich an ein Büro Ihrer Wahl / Please contact the sales office of your choice / Veuillez vous adresser au bureau de vente de votre choix



AMT FÜR AMTLICHE VERÖFFENTLICHUNGEN DER EUROPÄISCHEN GEMEINSCHAFTEN
OFFICE FOR OFFICIAL PUBLICATIONS OF THE EUROPEAN COMMUNITIES
OFFICE DES PUBLICATIONS OFFICIELLES DES COMMUNAUTÉS EUROPÉENNES

Catalogue number: CA-CQ-97-002-EN-C