

European cooperation in the Field of Scientific and Technical Research



COST



Annual
Report
2003



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**EUROPEAN CO-OPERATION IN THE FIELD OF
SCIENTIFIC AND TECHNICAL RESEARCH**

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“The medium- to long term prospects of COST look good”

Gösta Diehl

FOREWORD

BY THE CHAIR OF THE CSO



2003 was in many respects a very significant year for COST. After a transition period difficult for the COST Actions, the Commission COST Secretariat was replaced by the new COST Office. Ten more COST States were accepted as new members of the European Union and for the first time EU Member States will in 2004 form a majority in COST.

The three most important COST-events of the year were the Ministerial Conference in Dubrovnik in May, the contract between ESF and the European Commission for the EU support for COST and the start-up of the new COST Office.

The Ministerial Conference reconfirmed the Ministers belief that COST is one of the most important instruments for strengthening European research and innovation. The Ministers approved the new strategic axes for developing COST proposed by the Committee of Senior Officials. One of the most important of these was further development of the synergies with other European initiatives to advance the European Research and Innovation Area.

The synergies with the Framework Programme have always been a high priority in COST. The agreement between ESF and COST has already lead to strongly increased cooperation between the scientific bodies of both partners and the contract with the European Commission has introduced a new tripartite collaboration that can be of enormous benefit to the further development of the European Research Area and support to the Unions Lisbon strategy.

The new COST Office that has been become operational from the beginning of 2004 as a result of the cooperation between COST, ESF and the Commission forms an additional base for further exploiting the synergies between these actors. We have been fortunate in managing to persuade many of the Science Officers from the old Commission COST Secretariat to move to the new COST Office. With their help the Office has quickly shown to the field that we now experience an invigorating restart of the COST Action activities.

The Ministers also emphasised that COST should be open to participation from third countries and continue its strong role to help to integrate neighbouring non-EU countries into the European Research Area. The CSO has therefore decided not only to further encourage the participation of institutions from these countries to participate in COST Actions, but especially to facilitate participation from Balkan Countries in different COST Meetings.

With the reformed support structure, the COST Actions can again accelerate and catch up on time lost during the over-long transition period.

Also COST as a whole can meet the challenges that we have seen:

First of all we must implant the reforms outlined in our new strategy: We must ensure that the impact of COST stays at its traditionally high level and that the organisation continuously becomes leaner and more efficient.

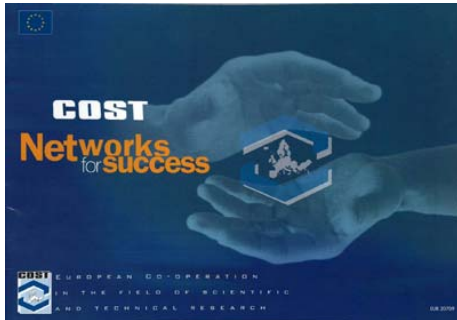
Secondly we must succeed in improving cooperation with other initiatives: first of all with ESF and the Framework Programme but also with other science actors in Europe and the rest of the world.

And thirdly, we must continue to work on defining our position in the future RTD Framework Programmes of the EU and in relation to other existing and new initiatives in the changing landscape of European and global research.

The future of COST for the moment looks good, but there is a lot of work to be done to keep it so.

Gösta Diehl
Chair, Committee of Senior Officials

INTRODUCTION: COST - A SUCCESS STORY



COST is one of the longest-running European instruments supporting co-operation among scientists and researchers across Europe. Set up back in 1971 by 19 countries together with the European Communities (which had only six Member States at the time), COST now has 34 member countries, spanning Europe. Rather than funding research itself, COST brings together research teams in different countries working on specific topics and funds their joint activities, supporting networking, conferences, short-term scientific exchanges and publications.

Every year, with a budget of just over €11 million, COST contributes to research activities with a value almost 100 times that amount, bringing together tens of thousands of researchers from all over Europe.

One of COST's greatest strengths is its flexibility: there are no set areas for co-operation, so scientists themselves put forward proposals for COST Actions (bottom-up principle). Only five member countries need to participate to enable an Action to start. Participation need not be limited to member countries: COST Actions are essentially open and scientists may co-operate with teams from anywhere in the world (à la carte co-operation). From the smallest to the largest, COST welcomes them all.

Another reason for COST's success is the enduring nature of the networks it helps establish. Once a COST Action is concluded, the participants will almost always seek to continue their work together, not necessarily in an identical set-up. Networks supported by COST will often include members from outside the world of science, bringing researchers together with policy-makers, consumer groups and industry to develop common understandings and approaches to problem solving. Thanks to this, COST is able to react quickly to new problems and phenomena, responding to the needs of European society.

The fact that some of Europe's best scientists are involved in COST surely demonstrates its benefits. "Many people have told me that if COST did not exist it would have to be invented," says Gösta Diehl, chairman of the COST Committee of Senior Officials.

Extract from**"COST Network for success"****A STRONG FUTURE FOR COST**

Young researchers are the future of European science. COST has always sought to support their professional development, in particular through scientific exchanges between laboratories.

In recent years, the European Commission has promoted the development of a European Research Area (ERA), where national frontiers are broken down, scientists can move around freely and exchange ideas, and research activities are no longer fenced in by differing national policies. It is "a framework within which national and regional governments can co-ordinate their research policies and integrate their activities", according to EU Research Commissioner, Philippe Busquin. "I am convinced that COST has the potential to make a strong contribution," he added. The dream behind ERA is to foster European-level networks bringing together the best European scientists, working in close contact, spurring each other on to world-beating results. And, of course, these results need to be taken up by European companies, to bring new ideas, products and processes to improve European competitiveness in the global market place.

The need to simplify procedures for participants as much as possible will remain central to COST's principles. COST management will be looking at more effective structures to help the growing numbers of multidisciplinary Actions launched in recent years. Deeper links will be forged with other European-level research mechanisms, building on the existing close links with EU-supported programmes, notably the Framework Programme. In particular these should favour the possibility that COST co-operation can be built up into more extensive multinational research programmes in specific fields of interest to European society.

Although it remains fundamentally a European initiative, COST is reacting to Europe's growing openness to its close neighbours. COST is already open to researchers from around the world, but coming years will see efforts to encourage greater participation from neighbouring countries. These countries share many common concerns with COST member countries, and encouraging research co-operation will help all of us to solve these problems faster. In particular COST is helping to bring scientists from the former Yugoslavian nations into the European mainstream, as it has done with those from the central European countries.

JAF ANNUAL REPORT 2003

The JAF Group (CSO Working Group on Legal, Financial and Administrative Matters) met five times during 2003:

- 24 January 2003 (Brussels)
- 20 March 2003 (Zürich)
- 7 May 2003 (Thessaloniki)
- 12 September 2003 (Brussels)
- 17 November 2003 (Berlin)

The JAF Group is an open subgroup of the CSO and has the task to prepare its decisions. JAF is, therefore, dealing with numerous and often small scale management questions and processes. All these various steps are, however, necessary to achieve the large scale reforms that are expected from COST.

During the last year the debate of the following issues occupied the JAF Group:

The first months of 2003 were devoted to the preparation of the documents for the *“Ministerial Conference (see separate section)”*. The JAF Group prepared for the CSO the *“Draft COST Declaration”* and the *“Draft COST Report”*.

The negotiations for the contract between the ESF and the EU-Commission and the implementation of the scientific COST Office have been closely followed by the JAF Group. COST and ESF have agreed in a Memorandum of Understanding on a co-operation scheme already in September 2002 for the scientific secretariat although, for various reasons, it was not until August 2003 that the contract to be signed. JAF received regular reports about the status of the operation of setting up the COST Office in Brussels.

The JAF Group organised the update of the *“Guidelines for the Continuous Evaluation and Monitoring of COST Actions”* (CEM Guidelines). In order to adapt to the changes in the research landscape and the working methods of the TCs. The necessary amendments have been made by representatives from COST Technical Committees, so that the document again reflects best practice in the COST TCs. The document has been approved by the CSO.

The COST Office together with the JAF Group suggested to the CSO a number of office procedures like TC travel reimbursement, etc. and presented a first set of modalities to the CSO which approved the document.

The CSO decided that the development of synergy with ESF as implementing agent of the COST Office should start with a COST - ESF joint meeting (2 October 2003), the modalities of which had to be worked out in several preparatory discussions with representatives from both organisations. It became evident that such an event with presentations from all COST TCs and ESF Standing Committees was most welcome to get to know better the new colleagues, their fields of interest and their working methods. This is a basic necessity to start discussions about synergies between the two organisations.

The COST Office presented the JAF Group for the first time with a work plan and a draft budget for 2004. The work plan and the overview of the COST budget for 2004 was examined by the JAF Group and forwarded with a positive recommendation to the CSO.

The situation of the COST Fund was again examined and the creation of a 5th COST Fund over Euro 1 Mio. was recommended to the CSO.

The JAF Group started discussions on the *revision of the “Guidance of Rules of Procedure for the CSO”*. The next big step of reforms COST is going to implement after setting up the COST Office, is a modernising the working methods of the CSO as well as of the JAF and SIG Groups. In the framework of JAF, a first draft of new *“rules of procedure for the CSO”* has been discussed. The idea of an elected JAF Group working as an *“extended Bureau”* with a number of tasks delegated from the CSO found considerable support in the Committee. This discussion will continue into the next year with a CSO decision planned for the May 2005 meeting of the CSO and theme for immediate implementation.



Dr. Eva M. Klaper
Vice-chair, Senior Officials Committee, Chair of the JAF Group

SIG ANNUAL REPORT 2003

The SIG Group (CSO Working on Strategic Issues) meets in consecutively with JAF, also on open SIG Group of the CSO.

2003 was the year that COST was trying to establish the new relationship with the new COST Office. This has created a number of uncertainties. that have put constraints on actions of a strategic character in COST. Thus, SIG has been concentrated mainly on issues related to the Dubrovnik Ministerial Conference, issues of International collaboration and, of course the contract issues.

The SIG had six meetings during 2003 :

- 24 January 2003(Brussels)
- 7 March 2003 (Brussels)
- 21 March 2003 (Zurich)
- 8 May 2003 (Thessaloniki)
- 12 September 2003 (Brussels)
- 17 November 2003 (Berlin)

These meetings have focused on abovementioned subjects have been discussed and the relevant recommendations have been forwarded to CSO for approval. More specifically :

1. One of the major activities for SIG was the formulation of the future strategic objectives for COST. These objectives have been included in the “*COST Report*” presented at the Dubrovnik Ministerial Conference and they have been utilised in the Dubrovnik Ministerial Declaration. The strategic objectives of COST have been lined along three strategic axes : the COST position in ERA, the improvement of COST efficiency and improvement research quality.

2. SIG has already initialised discussions on how to give emphasis to the development of increasing efficiency in COST and the development of synergies with FP6 and ESF. This has led to:

- SIG debated and admired the CSO on the form of the successful synergy meeting in October 2003 with ESF.
- SIG has also started working on the development of synergy in 2004 with representatives of different DG's and FP 'units'(in DG Research and DG Informatics Society) of the Commission.

3. A significant effort has been devoted in strengthening the international cooperation with the neighbouring countries in consistency with the relevant European Union R & D policy. The following actions have been taken on the subject:

- In searching for further opportunities of COST within FP6, a detailed presentation on FP6 International cooperation was given to SIG by Ms M Kayamanidou from DG Research-INCO. The presentation has been forwarded to the TCs and MCs for further action.
- The European Council priorities on R & D cooperation with the neighbouring countries have been reviewed and discussed. In the Action Plan in Science and Technology for the EU-Balkan countries set at the Ministerial Conference on June 27, 2003, COST is explicitly mentioned as an important instrument for improving networking and collaboration with these countries.
- SIG decided to recommend to the CSO to authorise the CSO Chair to use the COST Fund to activate participation from the Balkan countries (Croatia, FYR of Macedonia and Serbia and Montenegro) in COST activities. SIG also invited the Council Secretariat and the COST Office to study also other opportunities for possible cooperation and funding, e.g. through UNESCO/ROSTE and Balkan Stability Pact.

4. Discussions have taken place how the scientific domain review decided by CSO, is to be organized. The conclusions of these discussions has been incorporated into the contract between the Commission and the ESF for the establishment of the COST Office.

5. SIG agreed to propose to the CSO the creation of a Nanotech Group with a new structure similar to that of the BioMat Group to promote co-ordination of R&D in the field of Nano Science and Technology.



*Prof . J.G. Bartzis
Chair, Strategic Issues
Group and Vice Chair,
Committee of Senior
Officials*

COST IN 2003



The past year has been somewhat of a hiatus in the COST system. During 2001, the European Commission, which has previously provided the Scientific Secretariat of COST, indicated its wish to cease carrying out this function as from the end of the year 2002. In anticipation of this change, the COST Committee of Senior Officials (CSO) had received agreement with the European Science Foundation (ESF) for the latter to provide the scientific, technical and administrative support for COST through a Memorandum of understanding.

The Sixth Framework Programme contained a provision for support of COST at a level up between € 50 million and € 80 million over the four year period of the Framework Programme. Therefore, in order to harness this support, it was necessary for the ESF, as the implementing agent, to submit a proposal under the Framework Programme provision.

This was completed in mid-May and subjected to independent expert review. Following a positive assessment, ESF entered into detailed negotiations with the European Commission and consultation with

the CSO which culminated in the signature of a specific support contract at the end of August. The contract was for an initial period of 18 months to the end of 2004 with a total value of € 22 million.

Following the signing of the contract, ESF embarked on an intensive period of obtaining and equipping new premises, procuring IT systems and staffing the Office. This process took until the end of the year. In September, the ESF Secretary General announced the appointment of Tony Mayer as Director of the new COST Office.

Recognising the need to maintain continuity of the COST operations, the European Commission continued to support the COST Scientific Secretariat until the end of 2003 and also provided an additional € 5 million to support already agreed activity of Actions. The launching of new Actions was put on hold until November when ESF was able to start its support with the convening of the initial meetings of the Management Committee of 11 new Actions.

This additional support from the European Commission provided essential funding for what has to be seen as a COST transitional year. During the year, the Technical Committees continued their work in assessing and recommending new Actions, maintaining ongoing activities and evaluating completed Actions.

I should like to record my thanks to all who have helped COST during 2003, especially the staff of the European Commission, colleagues from the former COST Scientific Secretariat, from the CSO and the COST Secretariat in the Council of the EU, and all the staff of the European Science Foundation, who made it possible for us to create the new COST Office.

Tony Mayer
Director COST Office



The Representatives of the Governments of the COST Member States and of the European Commission, meeting at the COST Ministerial Conference in Dubrovnik on 27 May 2003,

Whereas the COST Ministerial Conference in Prague on 27 May 1997 confirmed the continuing commitment to COST as a valuable and flexible instrument for promotion of European research and technological development by means of coordinated actions among a large number of participants, including the European Commission, in different areas of research;

Whereas COST is an intergovernmental mechanism that has contributed significantly to the bottom-up creation of new European research activities both inside the 35 COST countries and beyond, through supporting initiatives for the networking of researchers with marginal amounts of seed money;

Whereas COST has at its core an ethos of flexibility and responsiveness to proposals that originate from all sections of the research community and provides openness and equality of access to activities in a way that is probably unique amongst current S&T cooperation modalities;

Whereas COST 'levers' several billions of euro worth of research per year and actively involves networking some 20.000 – 25.000 researchers annually with an annual financial investment in coordination of only around 1% of the research volume;

Whereas COST has consistently and to a high level fostered the international coordination of national research activities in Europe - one of the priorities of the European Research and Innovation Area - and has been very successful in attracting national funding to common European research actions;

Whereas COST, through its high quality scientific networks, and by promoting scientific cooperation including with non COST countries, has strengthened the European Research and Innovation Area;

MINISTERIAL DECLARATION ON COST,

CONFERENCE OF EUROPEAN MINISTERS
RESPONSIBLE FOR COOPERATION
IN THE FIELD OF SCIENTIFIC AND
TECHNICAL RESEARCH (COST)
DUBROVNIK, 27TH OF MAY 2003

DECLARATION :

Whereas COST, through its Actions, has generated a large number of Expressions of Interest for Networks of Excellence and Integrated Projects in the Sixth Framework Programme;

Whereas COST has been and is effective in stimulating cooperation in research domains not included as Framework Programme priorities, in supporting novel, interdisciplinary research, and as a precursor providing scientific foresight and anticipating priorities likely to be included into future Framework Programmes;

Whereas the number of COST Technical Committees has increased with the growing number of scientific and technical disciplines within which new COST Actions have been proposed, and the CSO has recently started a process to combine scientific domains to increase interdisciplinary;

Whereas COST has demonstrated its ability to extend cooperation to Central and Eastern Europe and to non-European countries;
Whereas the European Commission has expressed its intention to become an active partner in COST;

Whereas COST and the European Science Foundation (ESF) have agreed in a Memorandum of Understanding (Annex) that ESF shall act as the legal entity to provide and manage the administrative, technical and scientific secretariat for COST, its Technical Committees and its Actions;

Whereas COST has initiated major modernisation of its modus operandi in accordance with the recommendations of the report "An Assessment of COST", prepared by an independent assessment panel on request of the Committee of Senior Officials (CSO);

Whereas COST, in cooperation with ESF, recently has reviewed its Guidelines for assessment, monitoring and evaluation of COST activity

1. CONFIRM their commitment to COST as an effective asset for European research because of its demonstrated contribution to scientific capacity building, through cooperation and coordination;
2. UNDERTAKE to enable and encourage national COST authorities to commit themselves in terms of managerial and scientific personnel resources to fully exploit COST's potential;
3. FIND that COST must continue and should be encouraged to develop as a European initiative and as an intergovernmental mechanism of prime importance for the implementation and strengthening of the European Research and Innovation Area;
4. FIND that COST should continue to strengthen links with relevant European RTD organisations and initiatives;
5. ENCOURAGE the CSO to continue to use COST as a precursor and an initiator of ideas for future European research;
6. FIND that maintaining the specific bottom-up and à la carte principles of COST is essential;
7. RECOGNISE that it is important for the credibility of COST to ensure that the CSO remains the decision-making body of COST;
8. EMPHASISE that COST must maintain an efficient organisation supported by a capable, cost-effective scientific secretariat to assist in the execution of the work and ENDORSE to that effect the contents of the attached Memorandum of Understanding between COST and the ESF;
9. WELCOME the initiatives taken for the further modernisation of COST in conformity with relevant proposals by the Assessment Panel and invite the CSO to further develop the strategy for this;
10. RECOMMEND that the CSO reviews the structure of the research domains of COST, with a view to organising a more effective strategic management through smaller number of Technical Committees with increased interdisciplinary approach;
11. EMPHASISE that COST must ensure high quality standards through its Technical Committees according to the COST Guidelines for assessment, monitoring and evaluation of COST Actions approved by the CSO;
12. WELCOME the geographical expansion of COST to cover an additional 7 countries since 1997;
13. FIND that COST should continue to lend support, in the scientific and technological field, to the Community's foreign dimension, especially in Mediterranean third countries including the Western Balkans and in the Russian Federation and other Newly Independent States (NIS);
14. STRESS the importance of the European Community maintaining a strong and active involvement in all aspects of COST through both the Council and the Commission RECOGNISING the advantages that COST has through cooperation with the European Community and its RTD programmes;
15. WELCOME the initiatives taken by the Commission to become an active partner in COST particularly with a view to further developing synergy between the RTD Framework Programmes and COST;
16. ENCOURAGE all European countries to participate fully in COST;
17. INVITE the CSO to report to the next Ministerial Conference on the achievements realised;
18. The representatives of the Governments APPRECIATE the support from the Commission to ensure a degree of continuity for COST Actions during the transition period before establishing the new COST Office so as to minimise the effect on the scientists involved in the actions as well as on the scientific community as a whole;
19. Finally, the representatives of the Governments FIND that the level of Community funding should allow COST to meet present tasks and future expectations, and in the event of the necessary reform of COST as highlighted in the Assessment Panel report and in line with the Decision of the Council of the EU of 30 September 2002, RECOMMEND that the Commission allocate to COST a total budget of 80 million Euro for the duration of FP6 representing the upper limit of the fourchette indicated in that Decision.

MEMORANDUM OF UNDERSTANDING BETWEEN COST AND THE ESF

Considerations

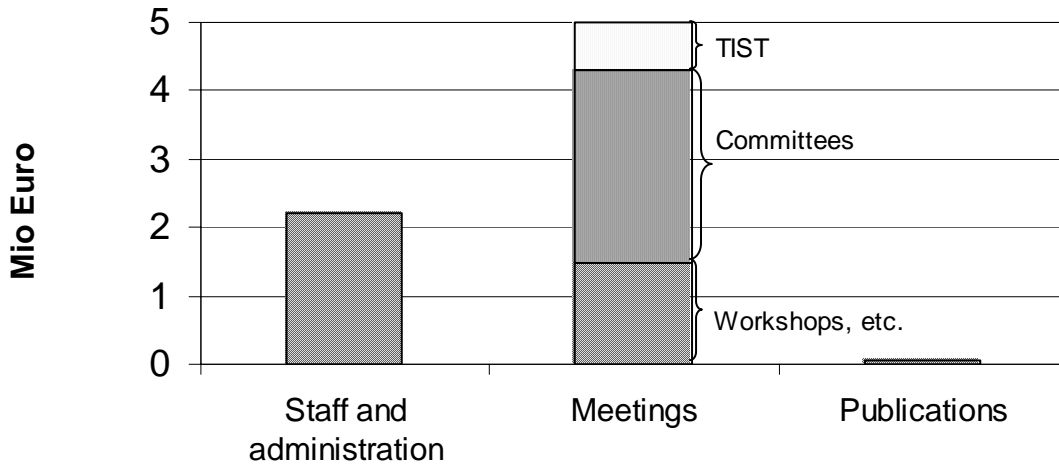
- (1) Whereas COST was founded by an exchange of letters in 1970 between 19 European States, which led also to the setting up of the Committee of Senior Officials (CSO);
- (2) Whereas the Representatives of these 19 States and the European Communities confirmed the creation of the framework of international cooperation COST in a general Resolution adopted by the Conference of European Research Ministers in Brussels on 22 and 23 November 1971;
- (3) Whereas COST now incorporates 35 countries;
- (4) Whereas COST must continue to fulfil its intergovernmental role to ensure a cost-efficient contribution to research coordination within the European Research Area;
- (5) Whereas reinforced coordination among the activities of the ESF, COST and FP will be actively sought in order to exploit the synergies to strengthen the European Research Area;
- (6) Whereas the COST Secretariat is provided by the General Secretariat of the Council of the European Union with technical and scientific support from the Commission;
- (7) Whereas the Council, in its decision adopting a specific programme for research "Strengthening and Integrating the European Research Area", indicates that a substantial grant to COST from the Sixth Framework Programme could be justified;
- (8) Whereas the Council notes that the Commission does not intend to provide the administrative, technical and scientific secretariat to COST and its Technical Committees and its Actions initiated during the Sixth Framework Programme and therefore another solution for this task has to be found;
- (9) Whereas the COST Assessment Panel, in its report, recommends i.a. that management needs to be strengthened and processes of administration be simplified, emphasising the need for substantial out-sourcing of technical support;
- (10) Whereas COST is an intergovernmental framework for the co-ordination of nationally funded research at a European level, characterised by the following principles:
 - "bottom-up" initiative from the European scientific and technical community,
 - "à la carte" or "variable geometry" concept for organisation of networks,
 - "co-ordination of research capacity" using the network of 35 national co-ordinators and 12 technical committees,
 - "openness to non-European participation";
- (11) Whereas the European Science Foundation (ESF), founded in 1974, is a non-profit association of 70 national funding agencies devoted to scientific research in 27 European countries;
- (12) Whereas the ESF fulfils the criteria to be a legal entity eligible for financial support from the European Community;
- (13) Whereas the ESF expressed its preparedness to provide and manage the administrative, technical and scientific secretariat for COST, its Technical Committees and its Actions;

Therefore:

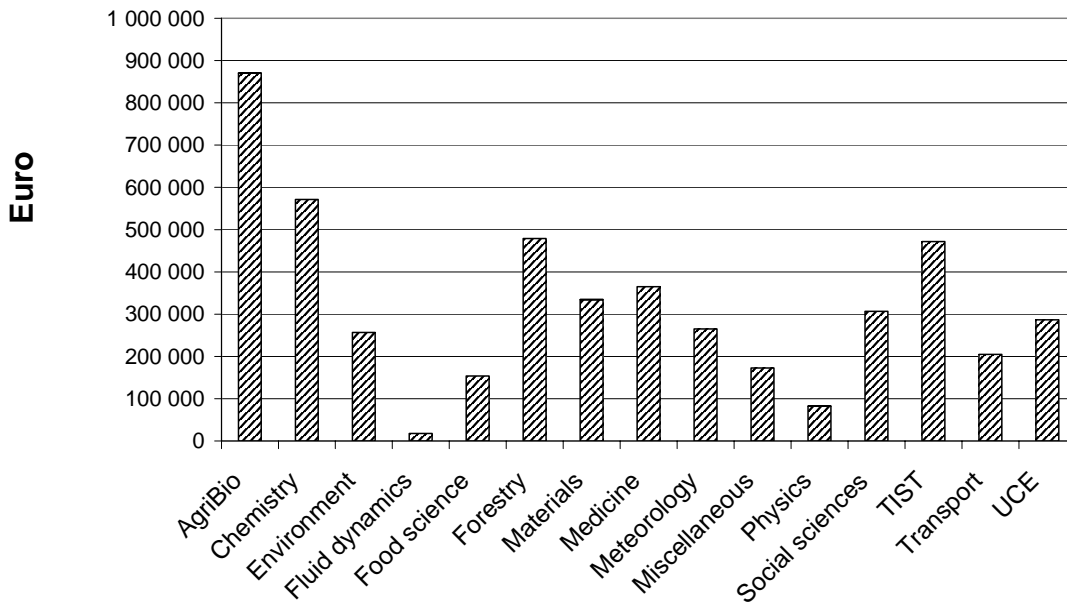
The COST Senior Officials and the ESF, with a view of contributing to the strengthening of the European Research Area arrived at the following conclusions:

1. The ESF is prepared, as from 1 January 2003, to act as the legal entity to provide and manage the administrative, technical and scientific secretariat for COST, its Technical Committees and its Actions, dependent of the appropriate funding for the COST activities and the COST Office being made available from the EU RTD framework programme.
2. Therefore the ESF will establish a COST Office. The main functions and responsibilities of that Office are set out in an Annex to this Memorandum.
3. Under the new arrangement, COST will retain its above characteristics of an intergovernmental cooperation mechanism governed by the CSO as its decision-making body.
4. The secretariat of the CSO and its sub-committees will continue to be assumed by the Secretariat General of the Council of the European Union.
5. The arrangement will not constitute an obstacle to the membership of COST not coinciding with the ESF nor to COST's openness towards COST Action participation from third partners.
6. A Transition Working Party, consisting of representatives of ESF and COST, will be created, to advise on the integration of the operation and on appropriate modalities. The Transition Working Party will submit its proposals to both COST and ESF for approval.
7. The present MoU will have effect until the end of the Community's Sixth Framework Programme. The COST and the ESF decided to assess the operation of the MoU at the latest by 1 July 2005 with a view to transmitting their opinions, and possible recommendations for the future; to the Council, Parliament and Commission, in particular to provide the latter with suggestions likely to be relevant for future Framework Programme proposals.

COST Expenditure Distribution 2003 by spending line

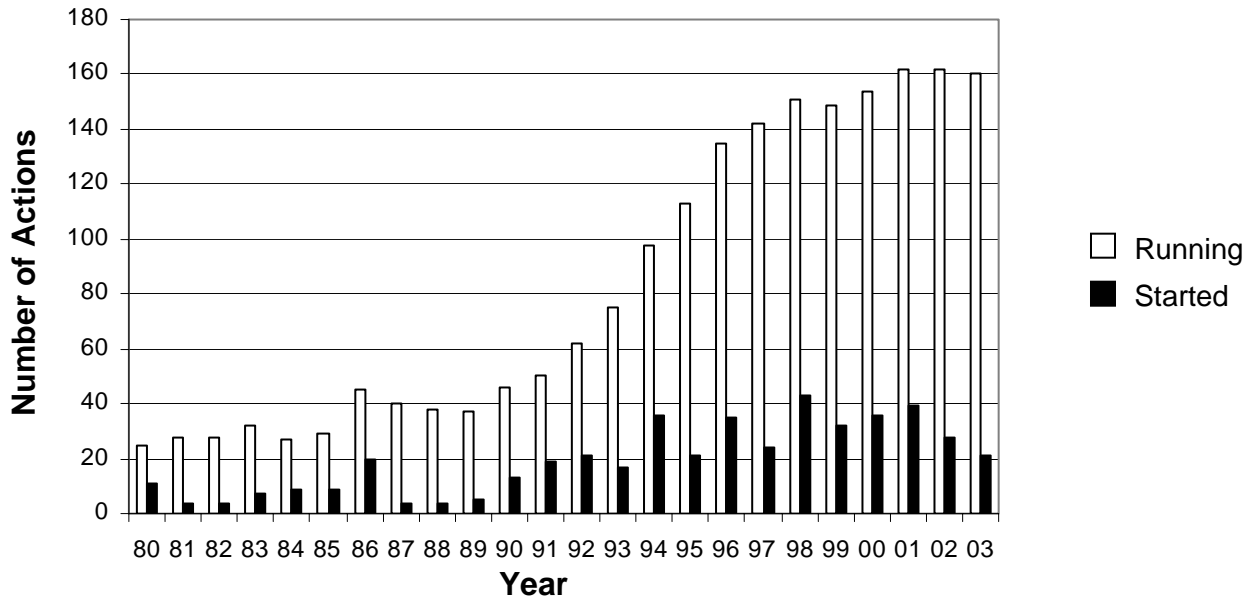


COST Expenditure Distribution 2003 by Domain

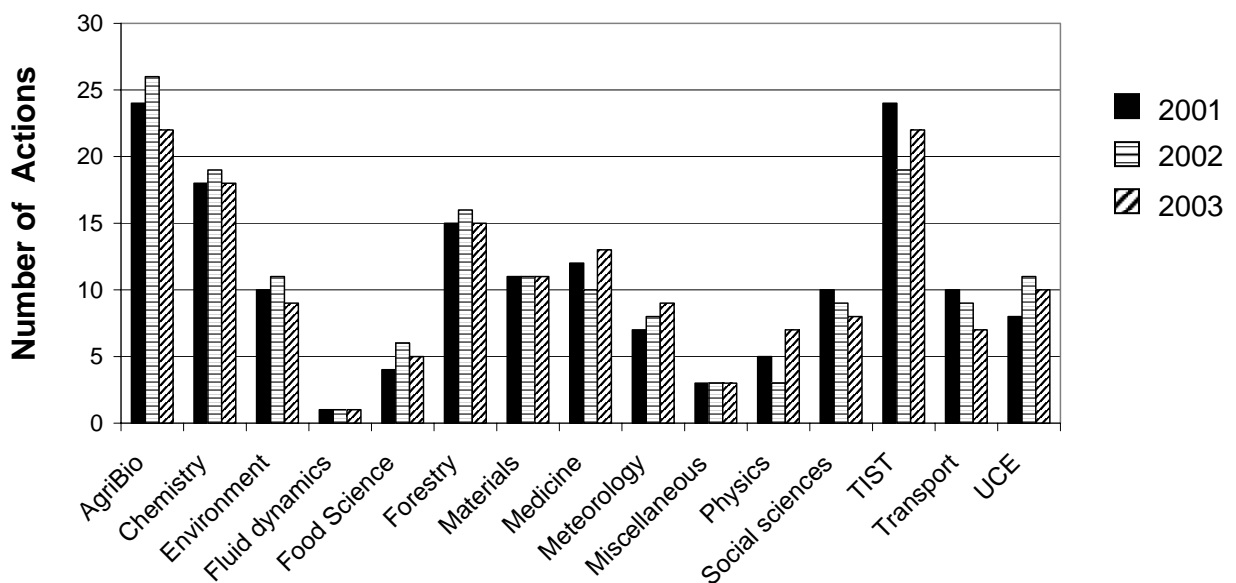


STATISTICS AND TABLES

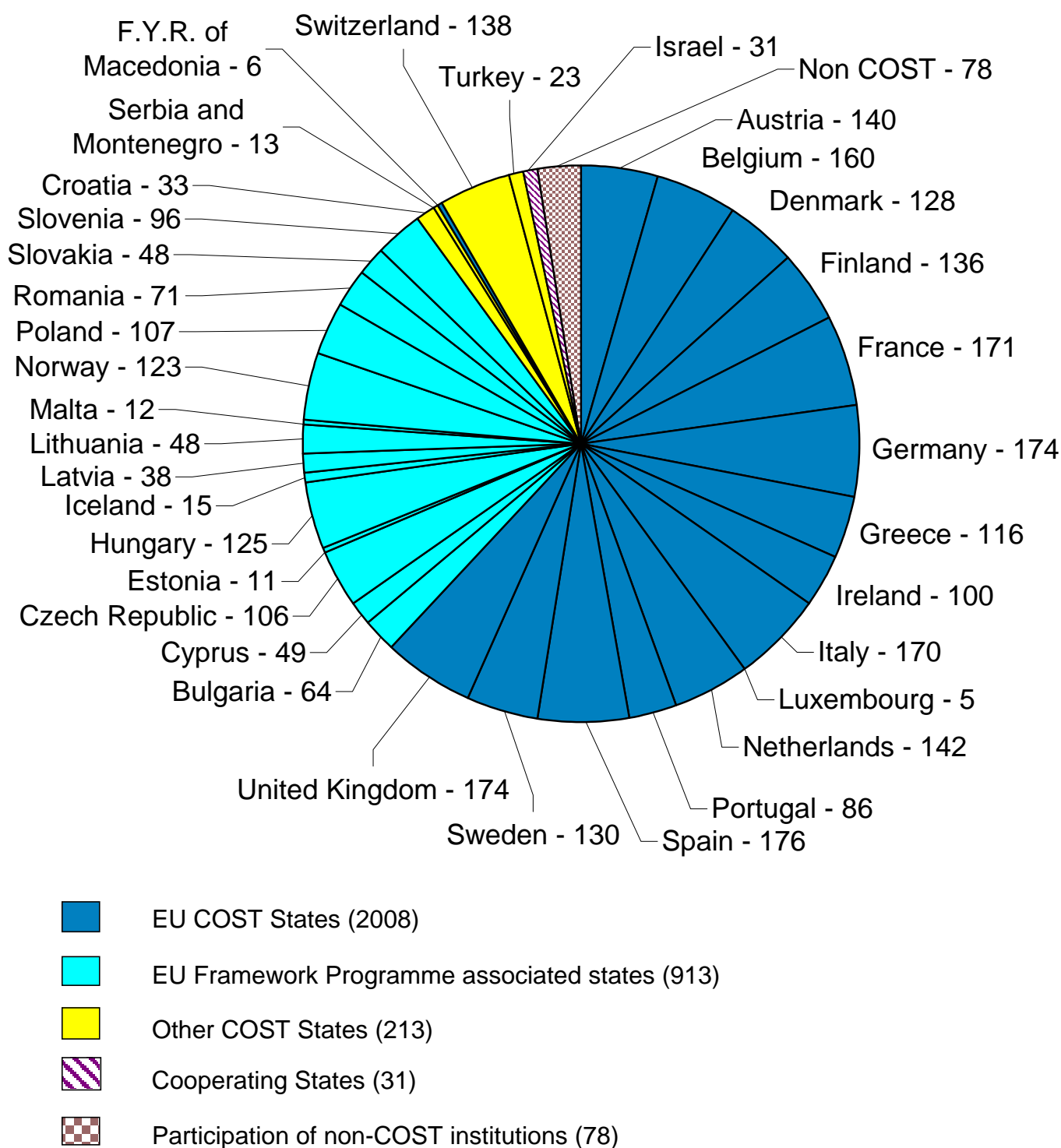
Yearly Evolution of the Running and Started COST Actions up to 2003 (Status on 31st December)



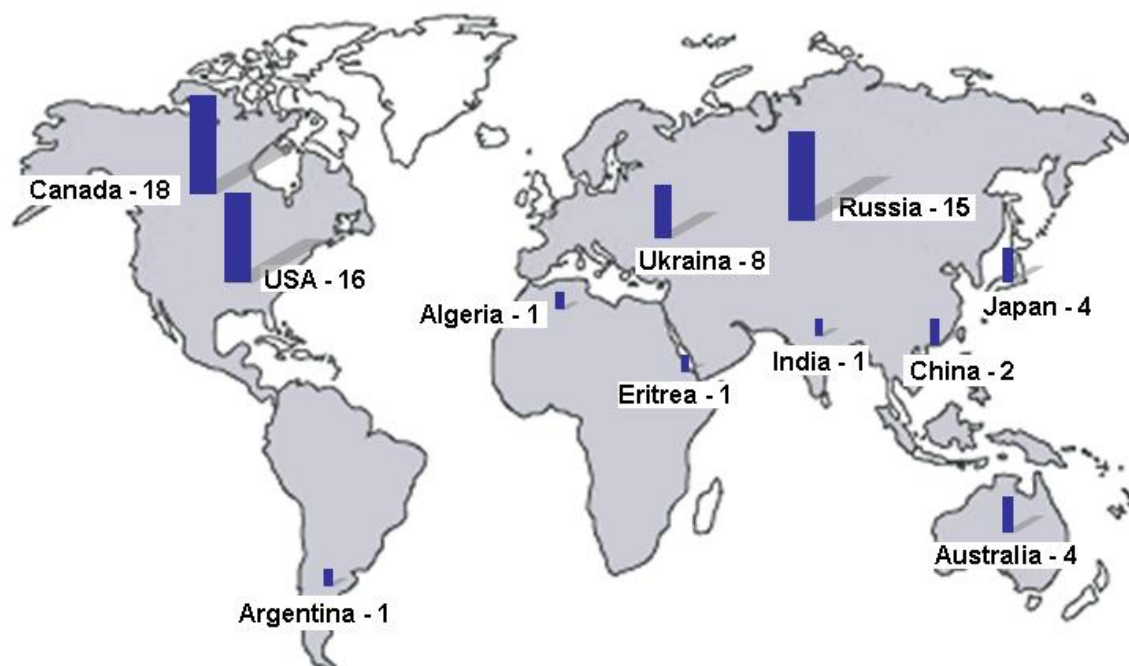
Number of COST Actions by Domain 2001-2003 (Status on 31st December)



COST Country Participation 2003 (Total number of signatories: 3243)



Participation of Non-COST Country Institutions 2003 (Total number: 78)



(details on page 26)

LIST OF COST ACTIONS WITH SIGNATORIES AND DURATION

Action n°	Title	Participating countries	Duration								
			2000	2001	2002	2003	2004	2005	2006	2007	
Agriculture and Biotechnology											
829	Fundamental , agronomical and environmental aspects of sulphur nutrition and assimilation in plants	A, B, CH, CZ, D, DK, E, F, FIN, GB, H, I, IRL, N, NL, P, PL, RO, S	••••	••••	••••	••					
830	Microbial inoculents in agriculture and the environment	B, CH, D, DK, E, F, FIN, GB, GR, H, I, N, NL, P, PL, S	••••	••••	••••	••••	••				
832	Quantifying the agricultural contribution to eutrophication	A, B, CH, D, DK, E, F, FIN, GB, GR, H, I, IRL, N, NL, PL, RO, S	••••	••••	••••	••••					
833	Mange and myiasis of livestock	A, B, CH, CY, CZ, D, DK, E, F, GB, GR, H, I, IRL, IS, NL, PL, RO, S	••••	••••	••••	•					
834	Lentiviruses of sheep and goats - pathogenesis , diagnosis and prevention	A, B, CH, CY, D, E, F, FIN, GB, GR, I, IRL, IS, N, NL, P, PL, S	••••	••••	••••	••					
835	Agriculturally important toxigenic fungi	A, B, CH, CY, CZ, D, DK, E, F, FIN, GB, H, I, IRL, N, NL, P, RO, S, SK	••••	••••	••••	••••	••••				
836	Towards an organization of the integrated research in berries : model for a strawberry of quality , in respect with the environment rules and consumers requirements	A, B, BG, CH, D, DK, E, F, FIN, GB, GR, H, I, IRL, LT, N, NL, P, PL, RO, S, SK, TR	••••	••••	••••	••••					
837	Plant biotechnology for the removal of organic pollutants and toxic metals from wastewaters and contaminated sites	A, B, BG, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, H, I, IL, IRL, N, NL, P, PL, RO, S, SI, SK	••••	••••	••••	••••					
838	Managing arbuscular mycorrhizal fungi for improving soil quality and health in agriculture	A, B, CH, CY, CZ, D, DK, E, F, FIN, GB, H, I, IL, IRL, IS, LV, NL, P, PL, S, SI, TR	••••	••••	••••	••••	••••	••			
839	Immunosuppressive viral diseases in poultry	A, B, CY, CZ, D, DK, E, F, FIN, GB, H, HR, I, IL, IRL, IS, N, NL, PL, S, SI	••••	••••	••••	••••	••••	••••			
840	Bioencapsulation innovations and technologies	A, B, CH, CZ, D, E, F, FIN, GB, GR, I, IL, IRL, IS, N, NL, PL, S, SI, SK, YU	••••	••••	••••	••••	••••	••••			
841	Biological and Biochemical diversity of hydrogen metabolism	CH, D, DK, E, F, GB, H, I, NL, P, S, TR	••••	••••	••••	••••	••				
842	Biological control of pest insects and mites with special reference to Entomophthorales	A, CH, CY, CZ, D, DK, E, F, GB, GR, I, LV, N, NL, P, PL, SK	••••	••••	••••	••••	••••	••			
843	Quality enhancement of plant production through tissue culture	A, B, BG, CH, CY, CZ, D, E, F, FIN, GB, GR, H, I, IL, IRL, L, N, NL, P, PL, RO, S, SK	••••	••••	••••	••••	••••	••			
844	Apoptosis and programmed cell death: molecular mechanisms and applications in Biotechnology and Agriculture	A, B, BG, CH, CZ, D, DK, E, F, GB, GR, H, I, IRL, N, NL, PL, RO, S, SK	••••	••••	••••	••••	••••				

LIST OF COST ACTIONS WITH SIGNATORIES AND DURATION

Action n°	Title	Participating countries	Duration									
			2000	2001	2002	2003	2004	2005	2006	2007		
Agriculture and Biotechnology												
845	Brucellosis in Animals and Man	B, CY, D, DK, E, F, FIN, GB, GR, I, IRL, LT, MK, N, NL, P, PL, S, YU	•••	••••	••••	••••	••••	••••	••••	••••	••••	••••
846	Measuring and Monitoring of Farm Animal Welfare	A, B, BG, CH, CY, CZ, D, DK, E, F, FIN, GB, I, IRL, N, NL, S, SK	•	••••	••••	••••	••••	••••	••••	••••	••••	••••
847	Textile quality and biotechnology	A, B, BG, CZ, D, DK, E, F, FIN, GB, GR, H, I, IRL, LT, NL, P, PL, RO, SI, YU	•••	••••	••••	••••	••••	••••	••••	••••	••••	••••
848	Multi-facetted research in rabbits: a model to develop a healthy and safe production in respect with animal welfare	A, B, CH, CZ, D, E, F, GR, H, I, NL, P, PL, SI	•••	••••	••••	••••	••••	••••	••	••	••	••
849	Parasitic Plant Management in Sustainable Agriculture	A, B, BG, CY, D, DK, E, F, GB, GR, H, HR, I, IL, NL, RO		••••	••••	••••	••••	••••	••••	••••	••	••
850	Bio-control Symbioses (Symbiotic Complexes for Biological Control of Pests)	A, B, BG, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, IL, IRL, N, NL, P, PL, S		••••	••••	••••	••••	••••	••••	••••	••	••
851	Gametic cells and molecular breeding for crop improvement	A, B, BG, CH, CY, CZ, D, DK, E, EE, F, FIN, GB, GR, H, I, IRL, LT, LV, N, NL, PL, RO, S, SI, SK		•	••••	••••	••••	••••	••••	••••	••••	••••
852	Quality Legume-Based Forage Systems for Contrasting Environments	A, B, BG, CH, D, DK, E, F, FIN, GB, GR, I, IRL, IS, LT, N, NL, P, PL, S, SI		•	••••	••••	••••	••••	••••	••••	••••	••••
853	Agricultural Bio-Markers for Array Technology	A, B, BG, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, H, I, LT, N, NL, P, PL, SI			••••	••••	••••	••••	••••	••••	••••	••
854	Protozoal Reproduction Losses in Farm Ruminants	A, B, BG, CH, D, E, F, GB, GR, I, IRL, LT, NL, PL, S			••	••••	••••	••••	••••	••	••	••
855	Animal Chlamydiosis and its zoonotic implications	B, BG, CH, D, E, F, GB, H, I, IRL, PL, S				•	••••	••••	••••	••••	••••	••••
856	Denitrification in agriculture, air and water pollution	B, D, DK, E, F, FIN, GB, GR, H, I, N, NL, PL, S			••	••••	••••	••••	••••	••••	••••	••
857	Apicomplexan Biology in the Post-Genomic Era	CH, D, E, F, GB, I, P				•	••••	••••	••••	••••	••••	••••
858	Viticulture: Biotic and abiotic stress - Grapevine Defence Mechanism and Grape Development	A, CH, CY, D, E, F, GR, H, I, IL, PL, SI				•	••••	••••	••••	••••	••••	••••
Chemistry												
D11	Supramolecular chemistry	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, HR, I, IRL, NL, P, PL, RO, S, SI	••••	••••	••••	•						
D13	New molecules towards human health care	A, B, CH, CZ, D, DK, E, F, GB, GR, H, HR, I, IRL, LV, N, NL, P, PL, S, SI, SK	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••
D14	Functional molecular materials	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, IRL, NL, P, PL, S, TR	••••	••••	••••	••••	••••	••••	••••	••••	••••	••••

LIST OF COST ACTIONS WITH SIGNATORIES AND DURATION

Action n°	Title	Participating countries	Duration								
			2000	2001	2002	2003	2004	2005	2006	2007	
Chemistry											
D15	Interfacial chemistry and catalysis	A, B, BG, CH, CZ, D, DK, E, F, FIN, GB, H, I, IRL, LV, NL, P, PL, RO, S, SI	••••	••••	••••	••••	○•••○				
D16	Combinatorial Chemistry	A, B, CH, CZ, D, DK, E, F, FIN, GB, H, I, IRL, LV, N, NL, P, S, SI	••••	••••	••••	••••	•••				
D17	Oligomers, polymers and copolymers via metal catalysis	A, B, CH, CY, CZ, D, E, F, FIN, GB, H, I, LV, N, NL, P, PL, RO, TR	••••	••••	••••	••••	••••				
D18	Lanthanide Chemistry for Diagnosis and Therapy	A, B, CH, CY, CZ, D, E, F, FIN, GB, GR, H, I, LV, N, NL, P, RO, S	••••	••••	••••	••••	•••				
D19	Chemical functionality specific to the nanometer scale	A, B, CH, D, DK, E, F, GB, H, HR, I, IL, IRL, LV, NL, P, PL, RO, SI, TR	••••	••••	••••	••••	••••	•			
D20	Metal compounds in the treatment of cancer and viral diseases	A, B, BG, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, H, I, IL, IRL, N, NL, PL, RO, S, SI, TR	•••	••••	••••	••••	••••	••			
D21	Metalloenzymes and chemical biomimetics	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, IL, IRL, MT, N, NL, P, PL, S	•••	••••	••••	••••	••••	••			
D22	Protein-lipid interaction	A, B, CH, D, DK, E, F, FIN, GB, H, HR, I, LV, NL, P, PL, S, SI	•••	••••	••••	••••	••••	••			
D23	Metachem	A, B, CH, CZ, D, DK, E, F, GB, GR, H, I, IL, N, NL, P, PL, SI, SK	••	••••	••••	••••	••••	•••			
D24	Sustainable Chemical Processes: Stereoselective Transition Metal-Catalysed Reaction	A, B, BG, CH, D, DK, E, F, FIN, GB, GR, H, I, IRL, LV, MT, N, NL, PL, RO, S, SI		•••	••••	••••	••••	••••	••		
D25	Applied biocatalysis: stereoselective and environmentally-friendly reactions catalysed by enzymes	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, LV, N, NL, PL, S, SI, SK		•	••••	••••	••••	••••	••••		
D26	Integrative computational chemistry	A, B, CH, D, E, F, FIN, GB, GR, H, HR, I, IL, N, NL, PL, S, SK		•	••••	••••	••••	••••	•••		
D27	Prebiotic Chemistry and Early Evolution	A, B, BG, CH, D, E, F, GB, GR, H, HR, I, IL, LT, NL, PL, S, SI			••••	••••	••••	••••	••••	•	
D28	Natural Products as a Source for Discovery, Synthesis, and Application of New Pharmaceuticals	B, BG, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, I, IRL, LV, N, RO, S			•••	••••	••••	••••	••••	••	
D29	Sustainable/Green Chemistry and Chemical Technology	A, B, BG, CH, CZ, D, E, EE, F, FIN, GB, GR, H, I, LT, LV, N, NL, PL, RO, S, SI, SK			•••	••••	••••	••••	••••	••	
D30	High pressure tuning of chemical and biochemical processes	B, BG, CH, CZ, D, E, F, FIN, GB, H, HR, I, NL, PL, S, SI			•	••••	••••	••••	••••	••••	
Environment											
620	Vulnerability and risk mapping for the protection of karst aquifers	A, B, CH, D, E, F, GB, GR, H, HR, I, IRL, MT, SI, SK	••••	••••	•••○	○					

LIST OF COST ACTIONS WITH SIGNATORIES AND DURATION

Action n°	Title	Participating countries	Duration								
			2000	2001	2002	2003	2004	2005	2006	2007	
Environment											
622	Soil resources of Europe volcanic ecosystems	B, D, E, F, GB, GR, H, I, IS, NL, P, SK	••••	••••	••••	••••	••••	••••			
623	Soil erosion and global change	A, B, CY, CZ, D, DK, E, F, FIN, GB, GR, H, I, IL, IS, N, NL, P, PL, SK	••••	••••	••••	••••					
624	Optimal management of wastewater systems	A, B, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, H, I, IRL, L, LV, N, NL, P, RO, S, SI, TR	••••	••••	••••	••••	••••	••••			
625	3-D Monitoring of Active Tectonic Structure	A, B, BG, CZ, D, DK, E, GB, GR, H, I, L, LV, P, PL, RO, SI, SK	••••	••••	••••	••••	••••	••••	•		
626	European aquatic habitat modelling	A, B, CH, CY, D, DK, E, F, FIN, GB, GR, H, IL, L, LV, N, NL, S, SI	•••	••••	••••	••••	••••	••			
627	Carbon storage in European grasslands	A, B, CH, CZ, D, DK, E, F, FIN, GB, H, I, IRL, IS, LT, N, SI	•••	••••	••••	••••	••••	••••	••		
628	Life Cycle Assessment of Textile Products, Eco-efficiency and Definition of Best Available Technology (BAT) of Textile Processing	B, BG, CH, CZ, D, DK, E, F, FIN, GB, GR, LT, PL, RO, S, SI, TR		••••	••••	••••	••••	••••	•		
629	Fate, impact and indicators of water pollution in natural porous media at different scales	A, B, BG, CH, CY, CZ, D, DK, E, F, GB, GR, H, HR, I, IRL, MT, N, NL, SK		••	••••	••••	••••	••••	••••	•••	
631	Understanding and modelling plant-soil interactions in the Rhizosphere environment	A, B, BG, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, H, I, IL, N, NL, PL, RO, S, SI, SK			••••	••••	••••	••••	••••	••••	•
633	Particulate matter: Properties related to health effects	A, B, CH, CZ, D, E, F, FIN, GB, GR, H, I, LT, N, NL, P, SI, TR			•	••••	••••	••••	••••	••••	••••
Fluid dynamics											
F2	Electrochemical sensors for flow measurements	B, CZ, D, E, F, GB, GR, I, S	••••	••••	••••	••••	••••	••			
Food Sciences											
918	Body weight and energy expenditure: functional food and nutrition technology	A, B, CZ, D, DK, E, FIN, GB, H, I, IRL, LT, N, NL, PL, S, SI	••••	••••	••••	••••					
919	Melanoidins in food and health	A, B, BG, CZ, D, DK, E, F, GB, I, LT, N, NL, RO, S, SI	••••	••••	••••	••••	••••	••			
920	Foodborne Zoonoses: a Coordinated Food Chain Approach	A, B, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, H, HR, I, IRL, LT, N, NL, PL, RO, S		••	••••	••••	••••	••••	••••	•••	
921	Food Matrices: Structural Organisation and Impact on Flavour Release and Perception	A, B, BG, CH, CZ, D, DK, E, F, GB, I, IRL, LT, N, NL, PL, S, SI			••	••••	••••	••••	••••	•••	
922	Health Implications of Dietary Amines	A, B, CH, CZ, D, E, F, FIN, GB, GR, H, I, LT, N, NL, PL, RO, S, YU		•	••••	••••	••••	••••	••••	••••	
923	Multidisciplinary Hen Egg Research	A, B, D, DK, E, F, FIN, GR, I, NL, PL			••	••••	••••	••••	••••	•••	

LIST OF COST ACTIONS WITH SIGNATORIES AND DURATION

Action n°	Title	Participating countries	Duration							
			2000	2001	2002	2003	2004	2005	2006	2007
Forests and Forestry Products										
E15	Advances in the drying of wood	A, B, CH, D, DK, E, F, FIN, GB, GR, H, I, IRL, LV, N, NL, P, PL, S	••••	••••	••••	••••	○••○			
E17	Microbiology in paper making	A, B, D, E, F, FIN, GB, I, N, NL, RO, S, SI, YU	••••	••••	••••	•••○				
E18	High performance in wood coating	A, B, CH, D, DK, E, F, FIN, GB, H, I, N, NL, P, RO, S, SI	••••	••••	••••	••••	••○			
E19	National forest programmes	A, B, CH, CY, D, DK, E, F, FIN, GB, GR, H, I, IRL, LT, N, NL, P, PL, S	••••	••••	••••	•••				
E20	Wood fibre cell wall structure	A, B, CH, D, DK, F, FIN, GB, GR, H, I, IRL, LV, N, NL, P, PL, S	••••	••••	••••	•••○	○			
E21	Contribution of forests and forestry to mitigate greenhouse effects	A, B, CH, CZ, D, DK, E, EE, F, FIN, GB, GR, H, HR, I, IRL, IS, LT, N, NL, P, PL, RO, S	••••	••••	••••	••••	○••○			
E22	Environmental optimisation of wood protection	A, B, CH, D, DK, E, F, FIN, GB, GR, HR, I, IRL, LT, LV, N, NL, P, RO, S, SI	••••	••••	••••	••••	○			
E23	Biotechnology in the pulp and paper industry	A, B, D, E, F, FIN, GB, H, I, NL, P, S, SI, SK	••	••••	••••	••••	•••			
E24	Reliability of timber structures	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, IRL, N, NL, P, RO, S, SI	•••	••••	••••	••••	••			
E25	European network for a long-term forest ecosystem and landscape research programme	A, B, BG, CH, CZ, D, DK, E, EE, F, FIN, GB, GR, H, I, IRL, IS, LT, LV, N, NL, PL, RO, S, SI, SK	•	••••	••••	••••	••••			
E26	Effective solutions to reduce the impact of waste arisings from the papermaking process	CZ, E, F, FIN, GB, H, I, NL, RO, S, SI		•	••••	••••	••••	•••		
E27	PROFOR-Protected Forest Areas	A, B, BG, CY, CZ, D, DK, E, F, FIN, GB, GR, I, IRL, LT, MK, N, NL, P, PL, RO, S, SI			••••	••••	••••	••••	•	
E28	Genosilva : European Forest Genomics Network	A, B, BG, CH, D, DK, E, F, FIN, GB, GR, H, I, IRL, LT, N, P, PL, S, SI			••••	••••	••••	••••	•	
E29	Innovative Timber & Composite Elements/Components for Buildings	B, CH, D, DK, E, F, FIN, GB, H, I, IRL, MK, N, NL, RO, S, SI			•	••••	••••	••••	••••	
E30	Economic integration of urban consumers' demand and rural forestry production	A, BG, CH, D, DK, F, FIN, GB, GR, H, I, IRL, IS, LT, N, PL, RO, S			••	••••	••••	••••	•••	
E31	Management of Recovered Wood	A, B, BG, D, DK, E, F, FIN, GB, GR, I, IRL, N, NL, RO, S, SI			•	••••	••••	••••	••••	
E32	Characterisation of paper surfaces for improved printing paper grades	BG, D, E, F, FIN, GB, N, NL, RO, S, SI				•	••••	••••	••••	••••

LIST OF COST ACTIONS WITH SIGNATORIES AND DURATION

Action n°	Title	Participating countries	Duration									
			2000	2001	2002	2003	2004	2005	2006	2007		
Materials												
522	Power generation in the 21st century : ultra-efficient , low-emission plant	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, IRL, N, NL, P, PL, S, SK	••••	••••	••••	••••	••••					
523	Nano-structured materials	A, B, BG, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, IRL, LT, N, P, PL, RO, S, SI, SK, TR	••••	••••	••••	••••	•					
525	Advanced Electroceramics: Grain Boundary Engineering	A, B, CH, CZ, D, DK, E, F, GB, I, IRL, LT, LV, N, P, S, SI, TR	••••	••••	••••	••••	••••	••••	••••			
526	Automatic Process Optimization in Materials Technology	B, CH, CZ, D, DK, F, FIN, GB, H, PL, SI	••••	••••	••••	••••	••••	••••	•			
527	Plasma polymers and related materials	A, B, CH, CZ, D, E, F, GB, I, IRL, LT, NL, P, PL, RO, TR	••••	••••	••••	••••	••••	•				
528	Chemical solution deposition of thin films	A, B, CH, CZ, D, E, F, FIN, GB, H, I, IRL, LT, P, RO, S, SI, SK, YU	•••	••••	••••	••••	••••	••				
529	Efficient Lightning for the 21st Century	A, B, BG, CH, CZ, D, E, F, FIN, GB, GR, H, HR, I, LT, LV, NL, P, S		•••	••••	••••	••••	••••	••••	••		
530	Life Cycle Inventories for Environmentally Conscious Manufacturing Processes	A, B, BG, CH, D, DK, E, FIN, GB, GR, IS, LT, N, NL, PL, S, SI		•••	••••	••••	••••	••••	••••	••		
531	Lead-free Solder Materials	A, BG, CH, CZ, D, E, F, FIN, GB, GR, HR, I, IRL, NL, P, PL, S, SI, SK, YU			••••	••••	••••	••••	••••	••••	•	
532	Triboscience and Tribotechnology: Superior Friction and Wear Control in Engines and Transmissions	B, BG, CH, CZ, D, DK, E, EE, F, FIN, GB, GR, H, HR, I, IL, IRL, LT, MT, N, NL, P, PL, RO, S, SI, SK			••••	••••	••••	••••	••••	••••	•	
534	New Materials and Systems for Prestressed Concrete Structures	A, B, BG, CH, D, DK, E, F, FIN, GB, H, I, IRL, IS, N, NL, PL, RO, SI, SK			•	••••	••••	••••	••••	••••	••••	
535	Thermodynamics of alloyed aluminides (THALU)	A, B, D, E, F, FIN, GB, I, PL, S, YU				•	••••	••••	••••	••••	••••	
Medicine and Health												
B6	Psychotherapeutic treatment of eating disorders	B, CH, CZ, D, DK, E, F, FIN, GB, H, I, IS, N, NL, P, PL, RO, S	••••	••••								
B8	Odontogenesis	B, CZ, D, DK, E, F, FIN, GB, GR, H, I, N, NL, S, SI	••••	••••								
B9	Chemotherapy of protozoal infections	A, B, CH, CZ, D, DK, E, F, GB, NL, P, S	••••	••••	•••							
B10	Brain damage repair	A, B, CH, CZ, D, DK, E, F, FIN, H, HR, I, IRL, IS, N, NL, P, PL, S, SI, SK, YU	••••	••••	••••	••••	••••	••••				
B11	Quantification of magnetic resonance image texture	A, B, CH, CZ, D, DK, E, F, GB, H, I, N, PL	••••	••••	•							
B12	Development of new radiotracers for the in-vivo assessment of biological functions and drug interactions	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, N, NL, P, PL, S, SI	••••	••••	••••	••••	••••	••••	••••	••••	•	

LIST OF COST ACTIONS WITH SIGNATORIES AND DURATION

Action n°	Title	Participating countries	Duration							
			2000	2001	2002	2003	2004	2005	2006	2007
Medicine and Health										
B13	Guidelines for the management of low back pain in Europe	A, B, CH, D, DK, E, F, FIN, GB, I, IL, N, NL, S	••••	••••	••••	••••	•••			
B14	Hyperbaric oxygen therapy	A, B, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, I, IL, NL, P, PL, S, SI	••••	••••	••••	••••	•••			
B15	Modelling during drug development	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, I, IL, MT, N, NL, P, RO, S, SK, TR	••••	••••	••••	••••	•••			
B16	Multidrug resistance reversal	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, IL, LV, N, NL, P, PL, RO, S, SK, TR	•••	••••	••••	••••	••••	••		
B17	Insulin Resistance, Obesity and Diabetes Mellitus in the Elderly	A, B, CH, CZ, D, DK, E, F, GB, GR, H, I, IL, IRL, L, LT, N, NL, PL, RO, S, SI, SK	••••	••••	••••	••••	••••	••••		
B18	Corpus cavernosum EMG in erectile dysfunction	A, B, BG, D, DK, E, GB, GR, I, IL, N, NL	•	••••	••••	••••	••••	••••		
B19	Molecular cytogenetics of solid tumors	A, B, CZ, D, DK, E, F, FIN, GB, GR, I, LT, N, NL, P, PL, RO, S	••	••••	••••	••••	••••	••••	•••	
B20	Mammary Gland development, Function and Cancer	A, B, BG, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, H, I, IL, IRL, MT, N, NL, PL, S, SI		••	••••	••••	••••	••••	•••	
B21	Physiological modelling of MR image formation	A, B, CH, CY, CZ, D, DK, E, F, GB, H, HR, I, N, PL, RO, SI				•	••••	••••	••••	••••
B22	Drug development for parasitic diseases	A, B, BG, CH, CZ, D, DK, E, F, GB, GR, I, IRL, NL, S, SK				•	••••	••••	••••	••••
B23	Oral facial development and regeneration	B, BG, CZ, D, DK, E, F, FIN, GB, GR, H, I, IL, LV, N, NL, RO, S				•	••••	••••	••••	••••
Meteorology										
715	Urban meteorology applied to air pollution problems	A, B, BG, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, IRL, LT, N, P, PL	••••	••••	••••	••••	•			
716	Exploitation of ground-based GPS for climate and numerical weather prediction applications	A, B, CH, CZ, D, DK, E, F, FIN, GB, H, I, N, NL, S	••••	••••	••••	••••	•			
717	Use of radar observation in hydrological and NWP models	A, B, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, H, I, IRL, N, NL, P, PL, S, SI	••••	••••	••••	••••	••••	••••		
718	Meteorological Applications for Agriculture	A, B, BG, CY, D, DK, E, FIN, GB, GR, H, I, IRL, N, NL, P, PL, RO, S, SI, SK	••••	••••	••••	••••	••••	••••	•••	
719	The use of geographic information systems in Climatology and Meteorology	A, B, CH, CY, D, E, F, FIN, GB, GR, H, I, N, NL, P, PL, RO, S, SI	•	••••	••••	••••	••••	••••		
720	Integrated ground-based remote sensing stations for atmospheric profiling	A, CH, D, E, F, FIN, GB, GR, I, NL, P, PL	•	••••	••••	••••	••••	••••		
722	Short range forecasting methods of fog, visibility and low clouds	A, BG, CH, CY, D, DK, E, F, FIN, GB, H, N, PL, S		•	••••	••••	••••	••••	••••	••••

LIST OF COST ACTIONS WITH SIGNATORIES AND DURATION

Action n°	Title	Participating countries	Duration								
			2000	2001	2002	2003	2004	2005	2006	2007	
Meteorology											
723	Data Exploitation and Modeling for the Upper Troposphere and Lower Stratosphere	B, BG, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, I, N, NL, PL, S			••	••••	••••	••••	••••		
724	Developing the basis for monitoring, modelling and predicting Space Weather	A, B, BG, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, PL, S, SK, YU				•	••••	••••	••••	••••	
Miscellaneous											
G3	Industrial ventilation	B, CH, CZ, D, DK, E, EE, F, FIN, GB, H, I, N, NL, S	••••	••••	○○○○	○○○○					
G7	Artwork conservation by Laser	A, B, CY, D, DK, E, F, FIN, GB, GR, H, I, LV, MT, N, NL, P, PL, RO, SI	•••	••••	••••	••••	••••	••			
G8	Non-destructive analysis and testing of museum objects	A, B, BG, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, IL, MT, PL, RO, SI, SK		••••	••••	••••	••••	•○○			
G9	Modelling Real Property Transactions	A, D, DK, E, FIN, GB, GR, H, LV, NL, S, SI		•••	••••	••••	••••	••			
Physics											
P6	Magnetic Fluid Hydrodynamics	B, D, E, F, GB, GR, I, IL, IRL, LV, S	••••	••••	••••	••••	•○○				
P7	X-ray and Neutron Optics	B, CZ, D, E, F, GB, H, I, NL, S, SK			••••	••••	••••	••••	•		
P8	Materials and Systems for Optical Data Storage and Processing	B, BG, CH, D, DK, E, F, GB, GR, H, I, IRL, LT, LV, PL, RO			••••	••••	••••	••••	•		
P9	Radiation Damage in Biomolecular Systems	A, B, BG, D, DK, E, F, GB, IRL, LT, NL, PL, SK, YU				•	••••	••••	••••	••••	
P10	Physics of Risk	B, CZ, D, DK, F, GB, GR, H, I, IL, IRL, PL, RO, SI				•	••••	••••	••••	••••	
P11	Physics of linear, non-linear and active photonic crystals	B, BG, CH, CZ, D, E, F, FIN, GB, GR, H, IRL, NL, PL, RO, S				•	••••	••••	••••	••••	
P12	Structuring of Polymers	B, BG, D, E, F, I, N, NL, PL				•	••••	••••	••••	••••	
Social Sciences and Humanities											
A13	Changing labour markets	A, CH, CZ, D, DK, E, F, FIN, GB, H, I, IRL, IS, MT, N, NL, S, SI	••••	••••	••••	•○○○					
A14	Government and democracy in the information age	A, B, CH, CZ, D, DK, E, F, FIN, GB, I, IRL, N, NL, P, S	••••	••••	••••	•					
A15	Reforming social protection systems in Europe	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, HR, I, IRL, LT, N, NL, S	••••	••••	••••	••••	•○○				
A16	Policy and regulatory responses to the use of electronic communication technologies by transnational communities in Europe	A, B, DK, E, FIN, GB, H, IRL, N, NL, SI	••••	••••	••••	•○○○	○				

LIST OF COST ACTIONS WITH SIGNATORIES AND DURATION

Action n°	Title	Participating countries	Duration								
			2000	2001	2002	2003	2004	2005	2006	2007	
Social Sciences and Humanities											
A17	Small and medium enterprises, economics development and regional convergence in Europe	A, CH, CY, CZ, D, DK, E, FIN, GB, GR, H, HR, I, IRL, LT, LV, N, NL, PL, S, SK, TR	•••	••••	••••	••••	••○○	○○			
A18	Comparing the dynamics of violence within European Countries	A, B, CH, CY, D, E, F, FIN, GB, GR, H, HR, I, IRL, LT, N, NL, RO, SI	•••	••••	••••	••••	••				
A19	Children's Welfare	A, B, BG, CY, CZ, D, DK, E, EE, F, FIN, GB, HR, I, IL, IRL, LT, MT, N, RO, S		•••	••••	••••	••••	••			
A20	The Impact of the Internet on the Mass Media in Europe	A, B, BG, CH, CY, D, DK, E, EE, F, FIN, GB, GR, H, HR, I, IRL, LT, N, NL, P, SI		•••	••••	••••	••				
A21	Restorative Justice Developments in Europe	A, B, BG, CY, D, E, F, FIN, GB, H, I, IRL, N, NL, P, SI			•	••••	••••	••••	••••		
A22	Foresight Methodologies - Exploring new ways to explore the future	BG, CZ, DK, E, EE, F, FIN, GB, GR, H, I, MT, NL, S				•	••••	••••	••••	••••	
Telecommunications Information Science and Technology											
211 qua	Redundancy reduction techniques and content analysis for multimedia services	B, D, E, F, FIN, GB, GR, I, IRL, P	••••	••••	••••	••					
219 ter	Accessibility for all to services and terminals for next generation networks	CH, D, DK, E, F, FIN, GB, GR, I, IL, IRL, N, NL, P, S, SI				••••	••••	••••	••••	•	
263	Quality of future Internet services (QoFIS)	B, CH, D, E, F, FIN, GB, GR, H, I, NL, P, RO, S, SI	••••	••••	••••	○○○○					
266	Advanced infrastructure for photonic networks	A, B, CH, CZ, D, E, F, FIN, GB, GR, H, HR, I, IRL, N, PL	••••	••••	••••	•○					
269	User aspects of ITCs	A, B, CH, DK, E, F, FIN, GB, I, IRL, N, NL, RO, S, SI	••••	••••	••••	••••	••				
270	Reliability of optical components and devices in communications networks and systems	A, B, CH, CY, D, DK, E, F, GB, I, LV, NL, PL, S	•••	••••	••••	••••	••••	••			
271	Effects of upper Atmosphere on terrestrial and Earth-space Communications	A, B, BG, CZ, D, E, F, FIN, GB, GR, H, I, LV, P, PL, TR, YU	•••	••••	••••	••••	••				
272	Packet-oriented service delivery via satellite	B, D, E, F, GB, GR, HR, I, N, SI, SK		•••	••••	••••	••••	••			
273	Towards Mobile Broadband multimedia networks	A, B, BG, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, H, HR, I, IRL, N, NL, P, PL, S, SI, SK, YU		•••	••••	••••	••••	••			
274	Theory and Application of Relational Structures as Knowledge Instruments	A, B, BG, CH, CZ, D, E, F, FIN, GB, H, I, NL, PL, S, SI, SK		•••	••••	••••	••••	••			
275	Biometrics-Based Recognition of People over the Internet	B, CH, E, F, GB, GR, HR, I, IRL, P, PL, S, SI, SK		•••	••••	••••	••••	••			
276	Information and Knowledge Management for Integrated Media Communication Systems	BG, CH, CY, CZ, E, F, GR, H, HR, I, IRL, MK, N, RO, SI, SK, TR, YU		•••	••••	••••	••••	••			

LIST OF COST ACTIONS WITH SIGNATORIES AND DURATION

Action n°	Title	Participating countries	Duration							
			2000	2001	2002	2003	2004	2005	2006	2007
Telecommunications Information Science and Technology										
277	Nonlinear Speech Processing	A, B, CH, CZ, D, E, F, GB, GR, I, IRL, LT, P, S, SI, SK		•••	••••	••••	••••	••		
278	Spoken Language Interaction in Telecommunication	A, B, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, H, I, LT, N, NL, P, S, SI, SK, TR		•••	••••	••••	••••	••		
279	Analysis and Design of Advanced Multiservice Networks supporting Mobility, Multimedia and Internetworking	A, B, CY, D, DK, E, F, FIN, GB, H, HR, I, N, NL, P, PL, S, SI, SK, TR, YU		•••	••••	••••	••••	••		
280	Channel Modelling and Propagation Impairment Mitigation for Millimetre Wave Radio Systems	B, CZ, D, E, F, FIN, GB, H, I, N, NL, P, PL, RO, SI		•••	••••	••••	••••	••		
281	Electromagnetic fields and health emerging information and communication technologies	A, B, BG, CH, CZ, D, DK, E, F, FIN, GB, GR, H, HR, I, IRL, LT, LV, N, NL, PL, S, SI		••	••••	••••	••••	••••	•••	
282	Knowledge and Exploration in Science and Technology	A, B, BG, CH, CY, D, E, EE, F, GB, I, IRL, N, P, PL, SK		•	••••	••••	••••	••••		
283	Computational and Information Infrastructure in the Astronomical Datagrid	BG, CH, D, E, F, GB, GR, H, I, IRL		•	••••	••••	••••	••••		
284	Innovative Antennas for Emerging Terrestrial and Space-based Applications	B, BG, CH, D, DK, E, EE, F, FIN, GB, GR, H, HR, I, N, NL, P, S, TR			•••	••••	••••	••••	••	
285	Modelling and Simulation Tools for Research in Emerging Multiservice Telecommunications	BG, D, DK, E, I, IRL, N, SI, TR				•••	••••	••••	••••	••
286	Electromagnetic Compatibility (EMC) in Diffused Communication Systems	A, B, CH, D, E, F, FIN, GB, H, HR, I, PL				•••	••••	••••	••••	••
287	Gesture Controlled Audio Systems	B, CH, D, DK, E, F, FIN, GB, I, IRL, N, NL, S				••••	••••	••••	••••	•
288	Nanoscale and ultrafast photonics	B, BG, CH, CZ, D, DK, E, FIN, GB, H, I, IRL, NL, PL, S				•••	••••	••••	••••	••
289	Spectrum and Power Efficient Broadband Communications	B, BG, CH, CZ, D, E, F, GR, H, I, N, S, SK, TR, YU				•••	••••	••••	••••	••
Transport										
340	Towards an intermodal transport network : lessons from history	A, B, CH, CZ, D, DK, E, F, GB, GR, I, LV, NL, P, RO, S, SI	••••	••••	••••	••••	•••			
341	Habitat fragmentation due to transportation infrastructure	A, B, CH, CY, CZ, DK, E, F, GB, H, IRL, N, NL, P, RO, S	••••	••••	••••	•••				
342	Parking policy measures and their effects on mobility and the economy	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, LV, N, NL, P, S	••••	••••	••••	•				
343	Reduction in road closures by improved pavement maintenance procedures	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, HR, I, IRL, N, NL, P, PL, RO, S, SI	••••	••••	••••	••				

LIST OF COST ACTIONS WITH SIGNATORIES AND DURATION

Action n°	Title	Participating countries	Duration									
			2000	2001	2002	2003	2004	2005	2006	2007		
Transport												
346	Energy and fuel consumption from heavy duty vehicles	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, I, LT, NL, RO, S	••••	••••	••••	••••	•••					
347	Pavement research with accelerated loading testing facilities	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, H, IS, NL, RO, S, SI		•	••••	••••	••••	••				
348	Reinforcement of pavements with steel meshes and geosynthetics	A, B, CH, D, DK, E, F, FIN, GB, GR, H, HR, I, IRL, N, NL, P, PL, RO, S, SI				••••	••••	••••	•			
349	The Accessibility of Coaches and Long Distance Buses for People with Reduced Mobility	A, B, CZ, D, E, F, FIN, GB, H, I, IRL, LT, N, NL, S			•	••••	••••	••••	••			
350	Integrated assessment of environmental impact of traffic and transport infrastructure	A, B, CH, CY, CZ, D, E, F, FIN, GB, GR, H, I, IRL, LT, LV, NL, P, RO, SI			•	••••	••••	••••	••••			
351	Water Movement in Road Pavements and Embankments	B, CH, DK, F, FIN, GB, HR, N, PL, S, SI					•	••••	••••	••••		
Urban Civil Engineering												
C8	Best practice in sustainable urban infrastructure	A, B, CH, CY, D, DK, E, F, FIN, GB, I, N, NL, P, S, SI	••••	••••	••••	••••	••••	○				
C9	Processes to reach urban quality	A, B, CH, CY, D, DK, E, F, FIN, GB, I, LV, N, S	••••	••••	••••	••••	••••	○○				
C10	Outskirts of European Cities	A, B, CH, CY, D, DK, E, F, FIN, GB, I, N, S, SI	••••	••••	••••	••••	••••	○○				
C11	Greenstructures and urban planning	A, B, CZ, D, DK, E, F, FIN, GB, I, LT, N, NL, PL, S	•••	••••	••••	••••	••••	••○○				
C12	Improvement of buildings structural quality by new technologies	A, B, CH, CZ, D, DK, E, F, FIN, GB, GR, I, IRL, LT, LV, MK, NL, P, PL, RO, SI	•••	••••	••••	••••	••••	••○○	○			
C13	Glass and interactive building envelopes	A, B, CH, CY, CZ, D, DK, E, F, FIN, GB, GR, I, IRL, LT, N, NL, SI	•••	••••	••••	••••	••••	••○○	○○			
C14	Impact of wind and storm on city life and built environment	B, CZ, D, DK, E, F, FIN, GB, GR, I, IRL, IS, N, NL, PL, S	•••	••••	••••	••••	••••	○○				
C15	Technical infrastructure and vegetation-improving relations and preventing conflicts by an Interdisciplinary approach	CH, D, DK, F, FIN, GB, H, I, N, NL, P, S				•••	••••	••••	••••	••		
C16	Improving the quality of existing urban building envelopes	B, CY, D, DK, F, GB, H, I, MK, MT, NL, P, PL, S, SI				•••	••••	••••	••••	••		
C17	Built Heritage: Fire Loss to Historic Buildings	A, BG, CH, DK, E, F, FIN, GB, I, N, S, SI			•	••••	••••	••••	••••	••••		

LIST OF NON-COST COUNTRY INSTITUTIONS

Action	Title	Institute
Algeria		
F2	Electrochemical sensors for flow measurements	University of Boumerdes
Argentina		
845	Brucellosis in Animals and Man	Instituto Nacional do Tecnología Agropecuarias - INTA
Australia		
219 ter	Accessibility for all to services and terminals for next generation networks	GSA Information Consultant - Ascot
837	Plant biotechnology for the removal of organic pollutants and toxic metals from wastewaters and contaminated sites	University of Melbourne
852	Quality Legume-Based Forage Systems for Contrasting Environments	Pastoral and Veterinary Institute
D27	Prebiotic Chemistry and Early Evolution	Queensland University of Technology at Brisbane
Canada		
273	Towards Mobile Broadband multimedia networks	Communication Research Center
274	Theory and Application of Relational Structures as Knowledge Instruments	St. Francis Xavier University
		Université de Montréal
		Université Laval
		Brock University
277	Nonlinear Speech Processing	Université de Sherbrooke
280	Channel Modelling and Propagation Impairment Mitigation for Millimetre Wave Radio Systems	Communication Research Center
342	Parking policy measures and their effects on mobility and the economy	Canadian Parking Association
531	Lead-free Solder Materials	Materials and Manufacturing Ontario
B10	Brain damage repair	University McGill
		Université Lavall
B17	Insulin Resistance, Obesity and Diabetes Mellitus in the Elderly	Hospital for Sick Children
		University of Guelph
B20	Mammary Gland development, Function and Cancer	University of Western Ontario
C8	Best practice in sustainable urban infrastructure	National Research Council of Canada - NRCC
C14	Impact of wind and storm on city life and built environment	Concordia University
E15	Advances in the drying of wood	University of British Columbia
G3	Industrial ventilation	University of Toronto

LIST OF NON-COST COUNTRY INSTITUTIONS

Action	Title	Institute
China		
715	Urban meteorology applied to air pollution problems	Meteorological and Geophysical Service of Macao
720	Integrated ground-based remote sensing stations for atmospheric profiling	Meteorological and Geophysical Service of Macao
Eritrea		
845	Brucellosis in Animals and Man	University of Asmara
India		
837	Plant biotechnology for the removal of organic pollutants and toxic metals from wastewaters and contaminated sites	Jai Research Institute
Japan		
841	Biological and Biochemical diversity of hydrogen metabolism	University of Kyoto
		Waseda University
		Institute of Technology of Tokyo
G3	Industrial ventilation	The Society of Heating, Air-Conditioning and Sanitary Engineers of Japan - SHASE
NGO		
273	Towards Mobile Broadband multimedia networks	Chiao-Tong University
341	Habitat fragmentation due to transportation infrastructure	European Centre for Nature Conservation
342	Parking policy measures and their effects on mobility and the economy	European Parking Association
845	Brucellosis in Animals and Man	World Organisation for Animal Health
850	Bio-control Symbioses (Symbiotic Complexes for Biological Control of Pests)	UNESCO
C14	Impact of wind and storm on city life and built environment	Von Karmann Institute
G3	Industrial ventilation	Eurovent
Russia		
280	Channel Modelling and Propagation Impairment Mitigation for Millimetre Wave Radio Systems	Ministry of Telecommunication and Informatisation of the Russian Federation
		Russian Academy of Sciences
		Vladimir State University
346	Energy and fuel consumption from heavy duty vehicles	Technical University of Moscow
838	Managing arbuscular mycorrhizal fungi for improving soil quality and health in agriculture	Research Institute of Microbiology
		Institute for Agricultural Microbiology

LIST OF NON-COST COUNTRY INSTITUTIONS

Action	Title	Institute
Russia		
841	Biological and Biochemical diversity of hydrogen metabolism	Russian Academy of Sciences
850	Bio-control Symbioses (Symbiotic Complexes for Biological Control of Pests)	Russian Academy of Sciences
B12	Development of new radiotracers for the in-vivo assessment of biological functions and drug interactions	Russian Academy of Sciences
D11	Supramolecular chemistry	Kazan State University
D21	Metalloenzymes and chemical biomimetics	Russian Academy of Sciences
F2	Electrochemical sensors for flow measurements	A.N. Frumkin Institute of Electrochemistry RAS
		Russian Academy of Sciences, Siberian Branch
P7	X-ray and Neutron Optics	Russian Academy of Sciences
		Rostov State University
Ukraine		
532	Triboscience and Tribotechnology: Superior Friction and Wear Control in Engines and Transmissions	Institute for Problems of Materials Science
719	The use of geographic information systems in Climatology and Meteorology	Ecomedservice
		Scientific and Industrial Enterprise "Ecomedservice"
720	Integrated ground-based remote sensing stations for atmospheric profiling	Innovation Center "Magic Solutions"
D15	Interfacial chemistry and catalysis	National Academy of Sciences of Ukraine
D20	Metal compounds in the treatment of cancer and viral diseases	Kyiv National Taras Shevchenko University
D21	Metalloenzymes and chemical biomimetics	National Academy of Sciences of Ukraine
P6	Magnetic Fluid Hydrodynamics	Technical University of Ukraine
United States of America		
219 ter	Accessibility for all to services and terminals for next generation networks	Trace R&D Center - Madison
273	Towards Mobile Broadband multimedia networks	Lucent Technologies
342	Parking policy measures and their effects on mobility and the economy	International Parking Institute
		National Parking Association
		Institute of Transportation Engineers
343	Reduction in road closures by improved pavement maintenance procedures	Transportation Research Board

LIST OF NON-COST COUNTRY INSTITUTIONS

Action	Title	Institute
United States of America		
348	Reinforcement of pavements with steel meshes and geosynthetics	Montana State University
841	Biological and Biochemical diversity of hydrogen metabolism	Basic Sciences Center University of Georgia - Athens
C8	Best practice in sustainable urban infrastructure	US Environmental Protection Agency
C13	Glass and interactive building envelopes	Lawrence Berkeley National Laboratory
D17	Oligomers, polymers and copolymers via metal catalysis	Stanford University
D18	Lanthanide Chemistry for Diagnosis and Therapy	University of Texas at Dallas University of California, Berkeley University of Illinois
G3	Industrial ventilation	American Society of Heating, Refrigerating and Air-Conditioning Engineers - ASHRAE

COST PUBLICATIONS

COST Action	Publication Title	COST Ref.	EUR No.	ISBN No.
Transport				
329	Models for traffic and safety development and interventions	03/13	20913	
335	Passengers' Accessibility of Heavy Rail Systems	03/10	20807	
341	Habitat Fragmentation due to Transportation Infrastructure, The European Review	03/06	20721	92-894-5591-8
341	Wildlife and Traffic - COST 341 European Handbook	NO-OP 28		
Environment				
620	Vulnerability and Risk Mapping for the Protection of Carbonate (Karst) Aquifers	03/12	20912	
621	The Main Coastal Karstic Aquifers of Southern Europe	03/11	20911	
625	Special Issue of Studi Geologici Camerti	NO-OP 24		
Agriculture and Biotechnology				
833	Proceedings of the final conference in Bari	03/03	20647	92-894-5683-3
836	Acta Horticultura: proceedings final workshop COST 836	NO-OP 31		
837	Plant biotechnology for the removal of organic pollutants and toxic metals from waste waters and contaminated sites - Annual Report 2002	03/09	20798	92-894-5816-X
837	Phytoremediation inventory; COST Action 837 view	NO-OP 32		
839	Immunosuppressive viral diseases in poultry, Annual Report & Proceedings 2002	03/02	20468	92-894-5393-1
840	Proceedings of COST 840: "Practical aspects of encapsulation technologies", in special issue of "Landbauforschung Voelkenrode"	NO-OP 19		
843	Directory of European Plant Tissue Culture Laboratories 2002	03/05	20720	92-894-5592-6
Food Sciences and Technology				
919	Melanoids in Food and Health, Proceedings of 919 workshop: Volume 4	03/07	20722	92-894-5724-4
922	Health Implications of Dietary Amines: Volume 1	03/14	20928	
Social Sciences and Humanities				
A13	1) Changing Labour Markets, Welfare Policies and Citizenship 2) Europe's New State of Welfare	NO-OP 27		
A15	Social Policy and Administration, Vol.37, n°6	NO-OP 26		
A20	Towards New Media Paradigms. II International Conference of COST A20	NO-OP 29		
A21	Restorative Justice Developments in Europe, Empirical Research	NO-OP 30		
Medicine and Health				
B16	International Journal of Antimicrobial Agents: Vol.22 Issue 03, September issue	NO-OP 21		
Urban Civil Engineering				
C12	Improvement of building's structural quality by new technologies	03/08	20728	92-894-5684-1
Forests and Forestry Products				
E19	Making NFPs Work - Supporting Factors and Procedural Aspects - Report on COST Action "National Forest Programmes in a European Context"	NO-OP 25		
General				
	COST Success Stories Brochure	03/04	20709	92-894-3799-9

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