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## R E P O R T

of the Committee on Energy, Research and Technology

on the Commission proposal for a Council decision concerning a specific programme of research and technological development in the field of Communication Technologies (1990-1994)  
(COM(90) 0154 final - C3-0157/90 - SYN 259)

Rapporteur: Mr Günter RINSCHÉ

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PART A: AMENDMENTS  
DRAFT LEGISLATIVE RESOLUTION

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A Series: Reports - B Series: Motions for Resolutions, Oral Questions - C Series: Documents received from other institutions (e.g. Consultations) - PE 144 403/fin./Part A

\* = Consultation procedure requiring a single reading

\*\*II = Cooperation procedure (second reading) which requires the votes of a majority of the current Members of Parliament for rejection or amendment

\*\*I = Cooperation procedure (first reading)

\*\*\* = Parliamentary assent which requires the votes of a majority of the current Members of Parliament

C O N T E N T S

	<u>Page</u>
Procedural page.....	3
A. Amendments to the Commission proposal.....	4
DRAFT LEGISLATIVE RESOLUTION.....	20

By letter of 11 June 1990 the Council consulted the European Parliament, pursuant to Article 130q of the EEC Treaty, on the Commission proposal for a Council decision (EEC) concerning a specific programme of research and technological development in the field of Communication Technologies (1990-1994).

At the sitting of 15 June 1990 the President of Parliament announced that he had referred this proposal to the Committee on Energy, Research and Technology as the committee responsible and to the Committee on Budgets and the Committee on Economic and Monetary Affairs and Industrial Policy for their opinions.

At its meeting of 22 May 1990 the Committee on Energy, Research and Technology had appointed Mr Rinsche rapporteur.

At its meetings of 28 and 29 June, 27 to 29 September, 6 to 8 November and 28 November 1990 it considered the Commission proposal and draft report.

At the last meeting it adopted the draft legislative resolution unanimously.

The following took part in the vote: Adam, acting chairman; Rinsche, rapporteur; Anger, Bettini, Breyer, Larive, Linkohr, Pompidou, Porrazzini, Quisthoudt-Rowohl, Regge, Robles Piquer, Sanz Fernandez, Garcia Arias and Samland (for Schinzel).

The opinions of the Committee on Budgets and the Committee on Economic and Monetary Affairs and Industrial Policy will be published separately.

The report was tabled on 29 November 1990.

The deadline for tabling amendments will appear on the draft agenda for the part-session at which the report is to be considered.

## AMENDMENTS

A

Commission proposal for a Council decision concerning  
a specific programme of research and technological development  
in the field of Communication Technologies (1990-1994)

### Commission text<sup>1</sup>

### Amendments

(Amendment No. 1)  
Fourth recital

Whereas, pursuant to Article 4 and Annex I of Decision 90/221/EURATOM, EEC, the amount deemed necessary for the whole framework programme includes an amount of 57 million ECU for the centralized dissemination and exploitation of results, to be divided up in proportion to the amount envisaged for each activity; whereas in view of the importance of this specific programme within the information and communications technologies action the estimate of the financial resources needed by this programme is to be reduced by 4.89 million ECU, which amount is to be allocated to the centralized activities, in order to comply with the second sentence of Article 130p(2) of the Treaty;

Whereas, pursuant to Article 4 and Annex I of Decision 90/221/EURATOM, EEC, the amount deemed necessary for the whole framework programme includes an amount deemed necessary of 57 million ECU for the centralized dissemination and exploitation of results which is to be the subject of a decision of the Council in cooperation with Parliament; whereas, in view of the importance of this specific programme within the information and communications technologies action a financial contribution to the centralized activities is required;

(Amendment No. 2)  
Recital 4a (new)

Whereas fundamental research must be specifically encouraged Community wide in each of the strategic research sectors of the Framework Programme;

<sup>1</sup>Full text: COM(90) 154 final, OJ No. C 174, 16.7.1990, p.9

Commission text

Amendments

(Amendment No. 3)  
Recital 5

Whereas, in addition to the specific programme on human capital and mobility, training of researchers in each of the strategic research sectors of the Framework Programme must be ensured;

(Amendment No. 4)  
Recital 5a (new)

Whereas the economic and social (human and environmental) impact of the programme must be assessed by an independent panel, and technology and risk assessment be undertaken;

Commission text

Amendments

(Amendment No. 5)  
Recital 6

Whereas this programme must be implemented essentially by the selection of research and development projects to enable them to benefit from Community participation; whereas the Commission should encourage the submission of such projects by the usual means of publishing calls for proposals in the Official Journal of the European Communities; whereas a special procedure should also be devised so as to maintain a degree of flexibility enabling the Commission, in the face of the continuous evolution and gradual acceleration of technological progress, also to take into consideration spontaneous proposals consistent with the objectives of the programme;

Whereas this programme must be implemented essentially by the selection of research and development projects to enable them to benefit from Community participation; whereas the Commission should encourage the submission of such projects by the usual means of publishing calls for proposals in the Official Journal of the European Communities; whereas an exceptional procedure should also be devised so as to come into effect between calls for proposals so as to maintain a degree of flexibility enabling the Commission, in the face of the continuous evolution and gradual acceleration of technological progress, also to take into consideration spontaneous proposals consistent with the objectives of the programme;

(Amendment No. 6)

Article 1

A specific research and technological development programme for the European Economic Community in the field of communication technologies, as defined in Annex I, is hereby adopted for a period of five years as from 1 January 1990.

A specific research and technological development programme for the European Economic Community in the field of communication technologies, as defined in Annex I, is hereby adopted for the period from the date of publication of this decision in the Official Journal to 31 December 1994.

Commission text

Amendments

(Amendment No. 7)

Article 2

1. The Community funds estimated as necessary for the execution of the programme under this Decision amount to 489 million ECU. Of this amount 4.89 million ECU is drawn for the centralized dissemination and exploitation of results. The amount thus reduced to 484.11 million ECU includes staff costs which may not exceed 4%. An indicative breakdown of expenditure is set out in Annex II.

1. The Community funds estimated as necessary for the execution of the programme under this Decision amount to 489 million ECU, including staff costs and a contribution to the centralized dissemination and exploitation of results. An indicative breakdown of expenditure for the implementation of this programme is set out in Annex II. The procedures for the dissemination and exploitation of results are set out in Annex III. An indicative breakdown of expenditure and the procedures concerning staff are set out in Annex II.

(Amendment No. 8 )

Article 5(3)

3. The reports shall be drawn up having regard to the objectives set out in Annex I to this Decision and in accordance with Article 2(4) of Decision 90/221/Euratom, EEC.

3. The reports shall be drawn up having regard to the objectives set out in Annex I to this Decision and in accordance with Article 2(4) of Decision 90/.../Euratom, EEC, and shall assess the coherence of the programme's measurable implementation with the six major concerns set out in Annex II of Council Decision 90/221/Euratom, EEC<sup>1</sup>.

<sup>1</sup> OJ No. L 117, 8.5.1990

Commission text

Amendments

(Amendment No. 9)  
Article 6

1. The Commission shall be responsible for the execution of the programme. It shall be assisted by a committee, hereinafter referred to as 'the Committee', composed of representatives of the Member States and chaired by a representative of the Commission.

2. The contracts concluded by the Commission shall govern the rights and obligations of each party, including the procedures for disseminating, protecting and exploiting the research results, in accordance with the arrangements adopted pursuant to the second paragraph of Article 130k of the Treaty.

3. A work programme for each year shall be drawn up and updated where necessary. It shall set out the detailed objectives and types of projects to be undertaken, and the financial arrangements to be made for them. The Commission shall make calls for proposals for projects on the basis of the annual work programmes.

1. The Commission shall be responsible for the execution of the programme. It shall be assisted by a committee, hereinafter referred to as 'the Committee', composed of representatives of the Member States and chaired by a representative of the Commission.

The European Parliament shall be informed of the deliberations of the Committee in a comprehensive and timely manner.

2. The contracts concluded by the Commission shall govern the rights and obligations of each party, including the procedures for disseminating, protecting and exploiting the research results, in accordance with the arrangements adopted pursuant to the second paragraph of Article 130k of the Treaty and, where appropriate, procedures for training and evaluation.

3. A work programme shall be drawn up at the start of the programme and shall be regularly revised. It shall set out the detailed objectives and types of projects to be undertaken, and the financial arrangements to be made for them. The Commission shall make calls for proposals for projects on the basis of the annual work programmes.



Commission text

Amendments

(Amendment No. 10)  
Article 7

1. In the cases envisaged in Article 8(1), the Commission representative shall submit to the Committee a draft of the measures to be taken. The Committee shall deliver its opinion on the draft within a time limit which the chairman may set according to the urgency of the matter. The opinion shall be delivered by qualified majority as provided for in Article 148(2) of the Treaty in the case of decisions which the Council is required to adopt on a proposal from the Commission. The votes of the Member States' representatives within the Committee shall be weighted in the manner set out in that Article. The chairman shall not vote.

2. The Commission shall adopt the measures envisaged where they are in accordance with the Committee's opinion.

3. If the measures envisaged are not in accordance with the Committee's opinion, or if no opinion is delivered, the Commission shall forthwith submit to the Council a proposal relating to the measures to be taken. The Council shall act by a qualified majority.

4. If the Council has not acted within one month of the submission of the proposal, the proposed measures shall be adopted by the Commission.

1. In the cases envisaged in Article 8(1), the Commission representative shall submit to the Committee a draft of the measures to be taken. The Committee shall deliver its opinion on the draft within a time limit which the chairman may lay down according to the urgency of the matter, if necessary by taking a vote.

2. The opinion shall be recorded in the minutes; in addition, each Member State shall have the right to ask to have its position recorded in the minutes.

3. The Commission shall take the utmost account of the opinion delivered by the Committee. It shall inform the Committee of the manner in which its opinion has been taken into account.

4. Deleted

Commission text

Amendments

(Amendment No. 11)  
Article 8

1. The procedure laid down in Article 7 shall apply to:
- the preparation and updating of the work programmes referred to in Article 6(3),
  - evaluation of the projects referred to in point 2 of Annex III, as well as the estimated amount of the Community's financial contribution when these projects are submitted through the ordinary procedure referred to in point 4 of Annex III and the abovementioned amount is more than ECU 5 million,
  - evaluation of all projects submitted through the exceptional procedure referred to in point 4 of Annex III, as well as the estimated amount of the Community's financial contribution,
  - measures for evaluating the programme.

2. The Commission may consult the Committee on any matter falling within the scope of the programme.

1. The procedure laid down in Article 7 shall apply to:
- the preparation and updating of the work programme referred to in Article 6(3),
  - the contents of calls for proposals referred to in Annex III,
  - the participation in any project by non-Community organizations and enterprises referred to in Article 10,
  - any adaptation of the indicative breakdown of funds set out in Annex II,
  - the measures to be undertaken to evaluate the programme and those projects submitted through the exceptional procedure,
  - accompanying measures and arrangements for the dissemination, protection and exploitation of the results of the research, for encouraging fundamental research, training of researchers and technological assessment carried out under the programme,
  - concerted actions referred to in point 2 of Annex III.

The Commission shall notify the European Parliament of draft decisions which, in the exercise of the Commission's implementing powers, are forwarded to the Committee.

2. Deleted.

Commission text

Amendments

(Amendment No. 12)  
Article 10

Where cooperation with third countries and international organizations aiming at achieving the objectives of this programme requires legal undertakings between the Community and the third parties concerned, the Commission shall be authorized to negotiate, in accordance with Article 130n of the Treaty, international agreements laying down the terms of such cooperation.

Where cooperation with third countries and international organizations aiming at achieving the objectives of this programme requires legal undertakings between the Community and the third parties concerned, the Commission shall be authorized to negotiate, in accordance with Article 130n of the Treaty, international agreements laying down the terms of such cooperation.

Priority will also be given to cooperation with regional groupings and European countries which are not members of the European Community in accordance with the guidelines agreed between the Council and the European Parliament<sup>1</sup>.

The negotiations for such international agreements may only be initiated with third countries which are already signatories of an agreement with the Community which explicitly cites research and technological development or scientific progress as one of the objectives of cooperation.

Decisions on the conclusion of such agreements shall be adopted in accordance with the procedure referred to in Article 130q(2) of the Treaty.

Decisions on the conclusion of such international agreements shall be adopted in accordance with the procedure referred to in Article 130q(2) of the Treaty.

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<sup>1</sup> Drawn up during the conciliation procedure on the Framework Programme for Community activities in research and technological development (1990-1994)

Commission text

Amendments

(Amendment No. 13)

ANNEX I, Area 1, first paragraph, last sentence

This area focuses on the following subjects:

This area builds on and extends the RACE programme and focuses on the following subjects:

(Amendment No. 14)

ANNEX I, Area 1, fifth paragraph, first sentence

This work will support standardization efforts, particularly those of the European Telecommunications Standards Institute (ETSI).

This work will give priority to supporting standardization efforts, particularly those of the European Telecommunications Standards Institute (ETSI). As a matter of principle, this prenormative standardization work should cover as many third countries as possible.

(Amendment No. 15)

ANNEX I, Area 1, seventh paragraph, final sentence

The work will enable ATM switching technology to support connectionless services and the interconnection of local area networks (LANs) and metropolitan area networks (MANs).

The work will enable ATM switching technology to support connectionless services and the interconnection of local area networks (LANs) and metropolitan area networks (MANs). This development of ATM does not exclude basic research on new switching technologies or designs.

(Amendment No. 16)

ANNEX I, Area 2 (new)

This research will be related to the development and demonstration of techniques needed for the introduction of 'programmable networks'. It will include the development of techniques for enhancing intelligence and flexibility, both in the provision of network services and in network management and operations; in the latter case, the work will cover aspects of operations support systems (OSS) and telecommunications management networks (TMN).

This research will be related to the use of new techniques for information transfer, optical communications and, possibly, artificial intelligence with a view to enhancing flexibility in respect of both provision of new network services and network management.

These technological projects will have the objective of paving the way for second-generation systems and contributing to the standardization and definition of interconnection protocols.

Commission text

Amendments

This research will be related to the development and demonstration of techniques needed for the introduction of 'programmable networks' and will cover aspects of provision of new services, operations support systems (OSS) and telecommunications management networks (TMN).

(Amendment No. 17)

ANNEX I, Area 3, third and fourth sentences

The work will focus on the development of advanced functionality for the enhanced and integrated use of IBC and radio networks (e.g. interconnection standards and mobility management) and the miniaturization of terminal technology, with particular emphasis on low power consumption. Close attention will be given to the needs of different kinds of users.

The work will focus on the development of advanced functionality for the enhanced and integrated use of IBC and radio networks (e.g. interconnection standards and mobility management) and the miniaturization of terminal technology. The terminals should be cost-effective for professional and consumer use, with particular emphasis on low power consumption and efficient use of frequencies. Close attention will be given to the needs of different kinds of users and, especially, the requirements of pan-European access, necessitating truly compatible services and protocols.

(Amendment No. 18)

ANNEX I, Area 4, third sentence

It will include coding and presentation techniques for still, moving and three-dimensional images, notably in HDTV.

It will focus on digital HDTV, including coding and presentation techniques for still, moving and three-dimensional images. In the specific case of HDTV, the objective is to secure cooperation between all the parties concerned and, with a high degree of efficiency, develop technologies and make them available in up-to-date, user-friendly form.

Commission text

Amendments

(Amendment No. 19)

ANNEX I, Area 5, introductory paragraph

The demand for different services will develop according to user preferences and requirements. The communications system must therefore be able to evolve with demand and respond dynamically to the specific service features users want. The associated techniques are addressed under this area, which focuses on the subjects indicated below.

The demand for different services will develop according to user preferences and requirements. The communications system must therefore be able to evolve with demand and respond dynamically to the specific service features users want. The associated techniques are addressed under this area, which focuses on the subjects indicated below.

The objective of this research is to contribute to the definition of common functional specifications for new communication services and multi-media systems. In particular, work will have to be done on specifications for use and, more generally, on the design of services and their links with networks.

(Amendment No. 20)

ANNEX I, Area 6, third paragraph (new)

Service quality, security and reliability engineering

Service quality, security and reliability engineering

The research will cover risk management, coherent security solutions and the creation of a favourable environment for secure information management.

The research will cover risk management, coherent security solutions and the creation of a favourable environment for secure information management.

The priority in this area is to develop technologies for information security in line with actions which are carried out in the other specific programmes.

Commission text

Amendments

(Amendment No. 21)

ANNEX I, Area 7, final paragraph, final sentence (new)

The resulting experience will form a basis for the relevant telecommunications sector organizations in planning the standardization, implementation and operation of integrated broadband communications.

The resulting experience will form a basis for the relevant telecommunications sector organizations in planning the standardization, implementation and operation of integrated broadband communications. These experiments should take into account the foreseeable conditions of the market in order to obtain results.

(Amendment No. 22)

ANNEX II

Indicative breakdown of resource allocation (%)

Area 1	20-24	Area 1	<u>22</u>
Area 2	6- 8	Area 2	<u>8</u>
Area 3	8-10	Area 3	<u>10</u>
Area 4	11-16	Area 4	<u>12</u>
Area 5	6- 8	Area 5	<u>9</u>
Area 6	6- 8	Area 6	<u>5</u>
Area 7	20-25	Area 7	<u>28</u>
Area 8	1- 3	Area 8	<u>6</u>

(Amendment No. 23)

Annex II

After the heading 'Indicative breakdown of expenditures', add the following new paragraph:

The establishment plan deemed necessary for the duration of the programme consists of 99 statutory posts (A, B and/or C). The Commission shall indicate each year in the preliminary draft budget the number of staff deemed necessary and the corresponding expenditure. The budgetary authority shall decide on the appropriations.

Commission text

Amendments

(Amendment No. 24)

ANNEX II

INDICATIVE BREAKDOWN OF EXPENDITURES

After the indicative breakdown and the note beneath it, add:

An amount equivalent to 2% of the total amount deemed necessary shall be used for technological and risk assessment, the results of which shall be communicated to Parliament with the evaluation reports.

(Amendment No. 25)

ANNEX III, point 2, fourth paragraph

The concerted actions are those defined in the Financial Regulation.

The concerted actions are those defined in Article 92 of the Financial Regulation.

Rates of Community participation will be in accordance with Annex IV of Council Decision 90/221/Euratom, EEC.

(Amendment No. 26)

ANNEX III, point 3

3. The participants in the projects must be natural or legal persons established in the Community, such as universities, research organizations and industrial firms, including small and medium-sized enterprises, or associations thereof, in particular European economic interest groupings (EEIGs).

3. The participants in the projects must be natural or legal persons established in the Community, such as universities, research organizations and industrial firms, including small and medium-sized enterprises, or associations thereof, in particular European economic interest groupings (EEIGs).

The participants in the projects must be at least 51% Community-owned.



Natural or legal persons established in countries which have concluded agreements with the Community foreseeing scientific and technical research may, based on the criterion of mutual advantage, take part in the projects undertaken in the context of this programme. The contracting parties under such arrangements shall not benefit from Community funding. They shall contribute to the general administrative costs.

Natural or legal persons established in countries which have concluded agreements with the Community foreseeing scientific and technical research may, based on the criterion of mutual advantage, take part in the projects undertaken in the context of this programme. The contracting parties under such arrangements shall not benefit from Community funding under the Framework Programme. They shall contribute to the general administrative costs.

Commission text

Amendments

(Amendment No. 27)

ANNEX III, point 4, second paragraph and new third paragraph

The participants in the projects shall be selected on the basis of the ordinary procedure of calls for proposals referred to in Article 6(3) and published in the Official Journal of the European Communities.

The participants in the projects shall be selected on the basis of the ordinary procedure of calls for proposals referred to in Article 6(4) and published in the Official Journal of the European Communities.

The Commission shall determine in each case whether the management of the programme, or parts thereof, can be undertaken by organizations or institutions outside the Commission, and it shall delegate the work accordingly.

(Amendment No. 28)

ANNEX III, point 4, fifth and sixth paragraphs

The exceptional procedure must be completed before the ordinary procedure in such a way that the available amount for the Community's financial participation in projects retained by the ordinary procedure can be determined precisely. The closing date for the exceptional procedure shall be published each year in the Official Journal of the European Communities.

The exceptional procedure shall come into effect after the first call for proposals and must be completed before the ordinary procedure in such a way that the available amount for the Community's financial participation in projects retained by the ordinary procedure can be determined precisely. The closing date for the exceptional procedure shall be published each year in the Official Journal of the European Communities.

Commission text

Amendments

The amount of the financial participation of the Community for all the projects retained by the exceptional procedure will be decided each year, in relation to the projects selected according to particularly strict criteria of excellence. In any case, this amount may not exceed 15%; it may be revised each year in the light of experience.

The amount of the financial participation of the Community for all the projects retained by the exceptional procedure will be decided each year, in relation to the projects selected according to particularly strict criteria of excellence. In any case, this amount may not exceed 10% of the annual budget appropriation.

(Amendment No. 29)

Annex III

Point 4, paragraph 7a (new)

It shall forward this vademecum to Parliament at the latest before this Decision is adopted.

(Amendment No. 30)

ANNEX III

New point 4a

4a. No Member State may attribute to a national, regional, local, departmental or other governmental budget any Community funds allocated to organizations of that Member State in implementation of projects accepted under the terms of the project selection procedure described in point 4 above.

DRAFT LEGISLATIVE RESOLUTION

(Cooperation procedure: first reading)

embodying the opinion of the European Parliament  
on the Commission proposal for a Council decision  
concerning a specific programme of research and technological development  
in the field of Communication Technologies (1990-1994)

The European Parliament,

- having regard to the Commission proposal to the Council (COM(90) 0154 final - SYN 259)<sup>1</sup>,
  - having been consulted by the Council pursuant to Article 130q(2) of the EEC Treaty (C3-0157/90),
  - having regard to the report of the Committee on Energy, Research and Technology and the opinions of the Committee on Budgets and the Committee on Economic and Monetary Affairs and Industrial Policy (A 3-0332/90),
  - having regard to the Commission position on the amendments adopted by Parliament,
1. Approves the Commission proposal subject to Parliament's amendments and in accordance with the vote thereon;
  2. Calls on the Commission to amend its proposal accordingly, pursuant to Article 149(3) of the EEC Treaty;
  3. Calls for the conciliation procedure to be opened if the Council should intend to depart from the text approved by Parliament;
  4. Asks to be consulted again should the Council intend to make substantial modifications to the Commission proposal;
  5. Calls on the Council to incorporate Parliament's amendments in the common position that it adopts in accordance with Article 149(2)(a) of the EEC Treaty;
  6. Instructs its President to forward this opinion to the Council and Commission.

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<sup>1</sup> OJ No. C 174, 16.7.1990, p.