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I

(Acts whose publication is obligatory)

COUNCIL REGULATION (EEC) No 2011/89

of 19 June 1989

concerning the application of Decision No 1/89 of the EEC-EFTA Joint Committee 'Simplification of formalities' amending Annex II to the Convention on the simplification of formalities in trade in goods and the application of Decision No 1/89 of the EEC-EFTA Joint Committee 'Common Transit' amending Appendices I, II and III to the Convention of 20 May 1987 on a common transit procedure

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 13 thereof,

Having regard to the proposal from the Commission,

Whereas Article 11 (3) of the Convention between the European Economic Community, the Republic of Austria, the Republic of Finland, the Republic of Iceland, the Kingdom of Norway, the Kingdom of Sweden and the Swiss Confederation on the simplification of formalities in trade in goods ⁽¹⁾ confers on the Joint Committee set up by that Convention the power to adopt, by decision, amendments to the Annexes to the Convention;

Whereas the Joint Committee has decided to amend certain provisions of Annex II to the Convention;

Whereas those amendments are the subject of Decision No 1/89 of the said Joint Committee; whereas it is necessary to take measures for the implementation of that Decision;

Whereas Article 15 (3) of the Convention between the European Economic Community, the Republic of Austria, the Republic of Finland, the Republic of Iceland, the Kingdom of Norway, the Kingdom of Sweden and the Swiss Confederation on a common transit procedure ⁽²⁾ confers on the Joint Committee set up by that Convention the power to adopt, by decision, amendments to the Appendices to the Convention;

Whereas the Joint Committee has decided to amend and adapt certain provisions of Appendices I, II and III to the Convention;

Whereas those amendments and adaptations are the subject of Decision No 1/89 of the said Joint Committee; whereas it is necessary to take measures for the implementation of that Decision,

HAS ADOPTED THIS REGULATION:

Article 1

Decision No 1/89 of the EEC/EFTA Joint Committee 'Simplification of formalities' of 3 May 1989 amending Annex II to the Convention on the simplification of formalities in trade in goods shall apply in the Community.

The text of the said Decision is attached to this Regulation.

Article 2

Decision No 1/89 of the EEC-EFTA Joint Committee 'Common transit' of 3 May 1989 amending Appendices I, II and III to the Convention of 20 May 1987 on a common transit procedure shall apply in the Community.

The text of the said Decision is attached to this Regulation.

Article 3

This Regulation shall enter into force on the day following its publication in the *Official Journal of the European Communities*.

⁽¹⁾ OJ No L 134, 22. 5. 1987, p. 2.

⁽²⁾ OJ No L 226, 13. 8. 1987, p. 1.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Luxembourg, 19 June 1989.

For the Council
The President
C. SOLCHAGA CATALAN

DECISION No 1/89 OF THE EEC-EFTA JOINT COMMITTEE 'SIMPLIFICATION OF FORMALITIES'

of 3 May 1989

amending Annex II to the Convention on the simplification of formalities in trade in goods

THE JOINT COMMITTEE,

Having regard to the Convention on the simplification of formalities in trade in goods, and in particular Article 11 (3) thereof,

Whereas Annex II to the Convention contains the methods of print, completion and use of the single document; whereas experience has shown the necessity of clarifying some of these provisions; whereas the manual processing of the different copies of the single document would be facilitated by a colour marking of those copies; whereas it is therefore appropriate to amend this Annex; whereas this amendment is without prejudice to Article 4 (3) fifth indent of the Convention,

HAS DECIDED AS FOLLOWS

Article 1

The following paragraph is inserted in Article 2 of Annex II to the Convention:

'1a. A colour marking of the different copies of the forms shall be effected in the following manner:

- (a) on forms conforming to the specimens shown in Appendices 1 and 3 of Annex I:
 - copies 1, 2, 3 and 5 shall have at the right-hand edge a continuous margin coloured respectively red, green, yellow and blue,
 - copies 4, 6, 7 and 8 shall have at the right-hand edge a broken margin coloured respectively blue, red, green and yellow;
- (b) on forms conforming to the specimens shown in Appendices 2 and 4 of Annex I, copies 1/6, 2/7, 3/8 and 4/5 shall have at the right-hand edge a continuous margin and, to the right of this, a broken margin coloured respectively red, green, yellow and blue.

The width of these margins shall be approximately 3 millimetres. The broken margin shall comprise a series of squares with a side measurement of 3 millimetres, each one separated by 3 millimetres.'

Article 2

Title II of Appendix 3 of Annex II to the Convention is amended as follows under the heading '1. Formalities in the country of export':

1. The second subparagraph of 'Box 8: Consignee' is replaced by the following:

'This box is optional for the Contracting Parties as far as export formalities are concerned. For transit purposes, it shall be obligatory but the Contracting Parties may allow that this box need not be completed where the consignee is established outside the territory of the Contracting Parties. The identification number need not be shown at this stage.'

2. The first subparagraph of 'Box 31: Packages and description of goods — Marks and numbers — Containers No(s) — Number and kind' is amended as follows:

'Enter the marks, numbers, number and kind of packages or, in the case of unpackaged goods, the number of such goods covered by the declaration, or the word "bulk", as appropriate; the normal trade description must be entered in all cases; for export purposes this description must comprise the particulars necessary to identify the goods. Where box 33 "Commodity Code" must be completed, this description must be expressed in sufficiently precise terms to allow classification of the goods. This box must also show the particulars required by any specific rules (excise duties, etc.). If containers are used, the identifying marks of the containers should also be entered in this box.'

Article 3

Forms which were used prior to the date of entry into force of this Decision may continue to be used until stocks are exhausted, and, at the latest until 31 December 1991.

Article 4

This Decision shall enter into force on 1 July 1989.

However, Article 2 shall apply with effect from 1 October 1989.

Done at Innsbruck, 3 May 1989.

For the Joint Committee

The Chairman

O. GRATSCHMAYER

DECISION No 1/89 OF THE EEC-EFTA JOINT COMMITTEE — COMMON TRANSIT

of 3 May 1989

amending Appendices I, II and III to the Convention of 20 May 1987 on a common transit procedure

THE JOINT COMMITTEE,

Having regard to the Convention of 20 May 1987 on a common transit procedure, and in particular Article 15 (3) (a) thereof.

Whereas Appendix I to the Convention contains, in particular, the provisions on the possibility of changing the office of destination; whereas it is necessary to adapt these provisions to take account also of the case of goods subject to restrictions or duties on exit from the EFTA countries;

Whereas the provisions in the Convention between the European Economic Community and the EFTA countries on the simplification of formalities in trade in goods allow authorizations of the use of additional lists; whereas for the purposes of simplification this possibility should be extended to common transit operations; whereas it is therefore necessary to amend Appendix II to the Convention;

Whereas the simplified common transit procedure for the carriage of goods by rail by means of large containers is effected under cover of a special transport document which is equivalent to a customs transit document and which is entitled 'TR Transfer Note';

Whereas the model of this document has been recently adapted; whereas, moreover nothing prohibits the use of this document by the transport undertaking concerned for all transports carried out even without application of the simplified procedure for common transit;

Whereas these reforms necessitate a number of adaptations of a technical nature to the provisions concerning this simplified procedure;

Whereas it is necessary to specify the elements which must comprise the authentication of T 2 L documents and, where necessary, T 2 L bis documents, where these are authenticated by the customs authorities of the country of departure;

Whereas it is desirable to exempt the authorized consignor from the handwritten signature requirement in respect of T 2 L documents where such documents are produced by an electronic or automatic data-processing system;

Whereas it has proved useful to simplify the presentation of certain forms used in the application of the common transit procedure by replacing their multilingual title by a code attributed to each form for the purposes of identifying it, together with the title in the language of the form itself;

Whereas Appendix III to the Convention contains the methods of print, completion and use of the forms on which T 1 or T 2 declarations are established; whereas experience has shown the need to clarify some of these provisions; whereas the manual processing of different copies of forms on which T 1 or T 2 declarations are established would be facilitated by a colour marking of these copies; whereas it is therefore appropriate to amend this Appendix,

HAS DECIDED AS FOLLOWS:

Article 1

Appendix I to the Convention is hereby amended as follows:

Article 26 (4), third subparagraph is replaced by the following:

'However, no such change of office of destination shall be authorized in respect of a T 1 document bearing one of the following endorsements:

- Salida de⁽¹⁾ sometida a restricciones
- Udførsel fra⁽¹⁾ undergivet restriktioner
- Ausgang aus⁽¹⁾ Beschränkungen unterworfen
- Έξοδος από⁽¹⁾ υποκείμενη σε περιορισμούς
- Export from⁽¹⁾ subject to restrictions
- Sortie de⁽¹⁾ soumise à des restrictions
- Uscita dalla (dall')⁽¹⁾ assoggettata a restrizioni
- Verlaten van⁽¹⁾ aan beperkingen onderworpen
- Saida da⁽¹⁾ sujeita a restrições
- Vienti⁽¹⁾ rajoitusten alaista
- Útflutningur frá⁽¹⁾ háour takmörkunum
- Udførsel fra⁽¹⁾ underlagt restriksjoner
- Udførsel från⁽¹⁾ underkastad restriktioner
- Salida de⁽¹⁾ sujeta a pago de derechos
- Udførsel fra⁽¹⁾ betinget af afgiftsbetaling
- Ausgang aus⁽¹⁾ Abgabenerhebungen unterworfen
- Έξοδος από⁽¹⁾ υποκείμενη σε επιβάρυνση
- Export from⁽¹⁾ subject to duty
- Sortie de⁽¹⁾ soumise à imposition

- Uscita dalla (dall')⁽¹⁾ assoggettata a tassazione
- Verlaten van⁽¹⁾ aan belastingheffing onderworpen
- Saida da⁽¹⁾ sujeita a pagamento de imposições
- Vienti⁽¹⁾ maksujen alaista
- Gjaldskyldur útflutningur frá⁽¹⁾
- Utførsel fra⁽¹⁾ belagt med avgifter
- Utførsel från⁽¹⁾ underkastad avgifter

⁽¹⁾ This endorsement shall comprise, as appropriate and in the language of the said endorsement, the words: 'the Community', or 'Austria', or 'Finland', or 'Iceland', or 'Norway', or 'Sweden', or 'Switzerland'.

Article 2

Appendix II to the Convention is hereby amended as follows:

1. Article 8 is replaced by the following:

'Article 8

1. The competent customs authorities of each country may allow the use, as loading lists within the meaning of Article 1 (2), of lists which do not comply with all the requirements of Article 2 (1), 5 (a) and (9), second and third subparagraphs, and of Article 6.

Use of such lists shall only be allowed where:

- (a) they are produced by firms whose records are based on an electronic or automatic data processing system; and
- (b) they are designed and completed in such a way that they can be used without difficulty by the competent customs and statistical authorities; and
- (c) they include for each item the number, kind and marks and numbers of packages, the description of the goods, the country of dispatch/export and the gross mass in kilograms.

2. Use, as loading lists as referred to in paragraph 1, of descriptive lists drawn up for the purposes of carrying out dispatch/export formalities may also be allowed even where these lists are produced by firms whose records are not based on an electronic or automatic data-processing system.'

2. The following Article 8a is inserted after Article 8:

'Article 8a

The competent customs authorities of each country may allow firms whose records are based on an electronic or automatic data-processing system and who, by virtue of Article 8, are already authorized to

use lists of a special type, to use such lists for T 1 or T 2 operations involving only one type of goods where this facility is made necessary by the computer programmes of the firms concerned.'

3. In the Italian and Portuguese versions Article 38 (3) is replaced by the following in the language concerned:

'3. No formalities need to be carried out at the office of destination.'

4. Article 44 is replaced by the following:

'Article 44

Formalities under the T 1 or T 2 procedure shall be simplified in accordance with Articles 45 to 61, for the carriage of goods which the railway authorities effect by means of large containers, using transport undertakings as intermediaries and making use of Transfer Notes referred to for the purposes of this Appendix as "TR Transfer Note". These operations include, where appropriate, the dispatch of consignments by transport undertakings using modes of transport other than rail, in the country of consignment to the railway station of destination in that country and any transport by sea in the course of the movement between these two stations.'

5. Article 45 (3), first subparagraph, the last sentence is replaced by the following:

'This number shall be made up of eight digits preceded by the letters "TR".'

6. Article 45 (4), second subparagraph, the first sentence is replaced by the following:

'The number of lists shall be shown in the box provided for indicating the number of lists at the top right-hand corner of the TR Transfer Note.'

7. Article 61 (1) is replaced by the following:

'1. The provisions of Articles 29 to 58 shall not preclude the use of the procedure provided for in Appendix I, in which case Articles 31 and 33 or 47 and 50 shall nevertheless apply.'

8. Article 61 (2) is replaced by the following:

'2. In the case referred to in paragraph 1, a reference to the transit document or documents used shall be clearly entered in the box reserved for particulars of accompanying documents, at the time when the International Consignment Note or the International Express Parcels Consignment Note or the TR Transfer Note is filled in. That reference shall specify the type, office of issue, date and registration number of each document used.'

In addition, sheet 2 of the International Consignment Note or of the International Express Parcels

Consignment Note or sheets 1 and 2 of the TR Transfer Note shall be authenticated by the railway authority responsible for the last railway station involved in the transit operation. That authority shall authenticate the document after ascertaining that carriage of the goods is covered by the transit document or documents referred to.

Where the transit operations referred to in paragraph 1 and in the first subparagraph of this paragraph end in an EFTA country, that country may stipulate that sheet 2 of the International Consignment Note or of the International Express Parcels Consignment Note or sheets 1 and 2 of the TR Transfer Note shall be produced at the customs office responsible for the last station involved in the transit operation. That customs office shall authenticate the sheet after ascertaining that carriage of the goods is covered by the transit document or documents referred to.'

9. Article 61 (3) is deleted.

10. Article 84 (2) is replaced by the following:

'2. The T 2 L document and, where necessary, T 2 L bis document(s) shall be authenticated by the customs authorities of the country of departure on application by the person concerned. The authentication shall comprise the following which should, as far as possible, appear in box C (office of departure) of these documents:

- (a) in the case of the T 2 L document the name and stamp of the customs office, the signature of the competent official, the date of authentication and either a registration number or the number of the dispatch or export declaration;
- (b) in the case of the T 2 L bis document the number appearing on the T 2 L document. This number must be inserted either by means of a stamp incorporating the name of the customs office of the country of departure or by hand. In the latter case it must be accompanied by the official stamp of the office.

These documents shall be returned to the person concerned as soon as the customs formalities connected with the dispatch of the goods to the country of destination have been completed.'

11. In Article 85 (2), the first subparagraph is replaced by the following:

'The upper part of the box referred to in Article 6 (b) is intended for the symbol "T 2 L"; the lower part of that box is intended for the authentication by customs as provided for in Article 84 (2)(b).'

12. The following Article 92a is inserted after Article 92:

'Article 92a

1. The customs authorities may authorize the authorized consignor not to sign T 2 L documents

bearing the special stamp referred to in Annex IX to this Appendix and drawn up by an electronic or automatic data-processing system. Such authorization shall be subject to the condition that the authorized consignor has previously given those authorities a written undertaking acknowledging his liability for the legal consequences arising from all T 2 L documents issued bearing the special stamp.'

2. T 2 L documents drawn up in accordance with paragraph 1, shall contain in the box reserved for the authorized consignor's signature one of the following forms of wording:

- Dispensa de firma
- Fritaget for underskrift
- Freistellung von der Unterschriftsleistung
- Δεν απαιτείται υπογραφή
- Signature waived
- Dispense de signature
- Dispensa dalla firma
- Van ondertekening vrijgesteld
- Dispensada a assinatura
- Vapautettu allekirjoituksesta
- Undanbegio undirskrift
- Fritatt for underskrift
- Befriad från underskrift

Article 3

Annexes II, III, IV and V of Appendix II to the Convention shall be replaced respectively by Annexes A, B, C and D to this Decision.

Article 4

Appendix III to the Convention is amended as follows:

1. In Article 2, the following paragraph is inserted:

'1 (a) A colour marking of the different copies of the forms shall be effected in the following manner:

- (a) on forms conforming to the specimens shown in Annexes I and III:
 - copies 1, 2, 3 and 5 shall have at the right-hand edge a continuous margin coloured respectively red, green, yellow and blue,
 - copies 4, 6, 7 and 8 shall have at the right-hand edge a broken margin coloured respectively blue, red, green and yellow;
- (b) on forms conforming to the specimens shown in Annexes II and IV copies 1/6, 2/7, 3/8 and 4/5 shall have at the right-hand edge a continuous margin and to the right of this a broken margin coloured respectively, red, green, yellow and blue.

The width of these margins shall be approximately 3 millimetres. The broken margin shall comprise a series of squares of a side of 3 millimetres, each one separated by 3 millimetres.'

2. Annex VII, Title II, under the heading 'Box 8: Consignee', the first subparagraph is replaced by the following:

'Enter the full name and address of the person(s) or company(ies) to whom the goods are to be delivered. The Contracting Parties may allow that this box need not be completed where the consignee is established outside the territory of the Contracting Parties.'

3. Annex VII, Title II, the text under the heading 'Box 31: Packages and description of goods — Marks and numbers — Container No(s) — Number and kind' is replaced by the following:

'Enter the marks, numbers, number and kind of packages or, in the case of unpackaged goods, enter the number of such goods covered by the declaration, or the word "bulk", as appropriate; the normal trade description must be entered in all cases; where box 33 "Commodity Code" must be completed, this description must be expressed in sufficiently precise terms to allow classification of the goods. This box must also show the particulars required by any specific rules (excise duties, etc.). If containers are used, the identifying marks of the containers must also be entered in this box.'

4. Annex VII, Title II, the following subparagraph is added under the heading 'Box 35: Gross Mass':

'Where a declaration concerns several types of goods, it is sufficient to indicate the total gross mass in the first box 35, the other boxes 35 shall not be completed.'

5. Annex VIII, the text under the heading 'Box 31: Packages and description of goods — Marks and numbers — Container No(s) — Number and kind' is replaced by the following:

'Enter the marks, numbers, number and kind of packages or, in the case of unpackaged goods, enter the

number of such goods covered by the document, or the word "bulk", as appropriate, together with the particulars necessary to identify the goods; the description of the goods means the normal trade description; where box 33 "Commodity Code" must be completed, this description must be expressed in sufficiently precise terms to allow classification of the goods. This box must also show the particulars required by any specific rules (excise duties, etc.). If containers are used, the identifying marks of the containers should also be entered in this box.'

6. Annex VIII, the following subparagraph is added under the heading 'Box 35: Gross Mass':

'Where a T 2 L document concerns several types of goods, it is sufficient to indicate the total gross mass in the first box 35, the other boxes 35 shall not be completed.'

Article 5

Forms shown in Annexes II, III, IV and V of Appendix II to the Convention (transit advice notes, receipts, guarantee certificates, flat-rate guarantee vouchers) and forms shown in Annexes I to IV of Appendix III (single document) which were used prior to the date of entry into force of this Decision may continue to be used until stocks are exhausted, and at the latest until 31 December 1991.

Article 6

This Decision shall enter into force on 1 July 1989.

However, Articles 1, 2 (1), (2), (10), (11) and (12), 3 and 4 (2) to (6) shall apply with effect from 1 October 1989.

Done at Innsbruck, 3 May 1989.

For the Joint Committee

The Chairman

O. GRATSCHMAYER

ANNEX A

ANNEX II

TC 10 TRANSIT ADVICE NOTE

Identification of means of transport:

TRANSIT DOCUMENT

OFFICE OF TRANSIT INTENDED
(AND COUNTRY):Type (T 1, T 2, T 2 ES
T 2 PT) and number

Office of departure

FOR OFFICIAL USE

Date of transit:

Signature

Official
stamp

ANNEX B

ANNEX III

TC 11 RECEIPT

The customs office at

hereby certifies that document T 1, T 2, T 2 ES, T 2 PT ⁽¹⁾
Control Copy T 5 ⁽¹⁾

registered on under No

by the office at
has been lodged and that no irregularity has been observed to date concerning the consignment to which
this document refers.



At, on 19.....
(Place) (Date)

.....
(Signature)

⁽¹⁾ Delete as necessary.

ANNEX C
ANNEX IV

TC 31 — CERTIFICATE OF GUARANTEE

(recto)

NB: This certificate must be returned without delay to the guarantee office on cancellation of the guarantee.

1. Valid until	Day	Month	Year	2. No
3. Principal (Surname and forename, or name of company, and complete address and country)				
4. Guarantor (Surname and forename, or name of company, and complete address and country)				
5. Guarantee office (Complete address and country)				
6. Guarantee cover (in national currency)	(in figures):		(in words):	
7. The guarantee office certifies that the above-named principal is authorized to carry out T 1/T 2/T 2 ES/T 2 PT operations in the following countries (except where deleted)				
BELGIUM	DENMARK	GERMANY	GREECE	SPAIN
IRELAND	ITALY	LUXEMBOURG	NETHERLANDS	PORTUGAL
AUSTRIA	FINLAND	ICELAND	NORWAY	SWEDEN
FRANCE UNITED KINGDOM SWITZERLAND				
8. Validity extended until Day Month Year inclusive			At, on (Place of signature) (Date)	
At, on (Place of signature) (Date) (Signature and stamp)			(Signature and stamp)	

9. Persons authorized to sign T 1/T 2/T 2 ES/T 2 PT declarations on behalf of the principal

(verso)

10. Surname, forename and specimen signature of authorized person	11. Signature of principal ⁽¹⁾	10. Surname, forename and specimen signature of authorized person	11. Signature of principal ⁽¹⁾

(¹) If the principal is a company, the person who signs in box 11 must give his surname, forename and status in the company.

ANNEX D

ANNEX V

(recto)

TC 32 — FLAT-RATE GUARANTEE VOUCHER

A 000 000

Issued by:

(Name and address of individual or firm)

(Undertaking of the guarantor accepted on

by the office of guarantee of)

This voucher is valid for an amount of up to ECU 7 000 for one T 1/T 2/T 2 ES/T 2 PT operation
beginning not later than

and in respect of which the principal is

(Name and address of individual or firm)

.....
(Signature of principal (1)).....
(Signature and stamp of guarantor)

(1) Signature optional.

(verso)

To be completed by office of departure

Transit operation effected under document T 1/T 2/T 2 ES/T 2 PT registered on
..... under No by the
office at
(Official stamp).....
(Signature)

II

(Acts whose publication is not obligatory)

COUNCIL

COUNCIL DECISION

of 20 June 1989

on a specific programme for the completion of a machine translation system of advanced design
(Eurotra)

(89/410/EEC)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 130q (2) thereof,

Having regard to the proposal from the Commission,

In cooperation with the European Parliament ⁽¹⁾,

Having regard to the opinion of the Economic and Social Committee ⁽²⁾,

Whereas Article 130k of the Treaty states that the framework programme is to be implemented through specific programmes developed within each activity;

Whereas the Council by Decision 87/516/Euratom, EEC ⁽³⁾, as amended by Decision 88/193/EEC, Euratom ⁽⁴⁾, adopted a framework programme for Community activities in the field of research and technological development (1987 to 1991) and acknowledged the interest of an action on linguistic problems within activity 8.4 entitled Dissemination and utilization of S/T research results;

Whereas, by Decision 82/752/EEC ⁽⁵⁾, as amended by Decision 86/591/EEC ⁽⁶⁾, the Council has adopted a European Economic Community research and development

programme for a machine translation system of advanced design (Eurotra);

Whereas the Eurotra programme has been assessed by a panel of independent experts, whose recommendations have been incorporated by the Commission in the definition of the orientations for the third phase;

Whereas by its Decision 88/445/EEC ⁽⁷⁾, the Council decided that the Eurotra programme should enter its third phase on 1 July 1988;

Whereas the Management and Coordination Advisory Committee 'Linguistic Problems' (CGC-12) has delivered its opinion;

Whereas the Scientific and Technical Research Committee (CREST) has been consulted,

HAS ADOPTED THIS DECISION:

Article 1

A specific programme for the completion of a machine translation system of advanced design (Eurotra) is hereby adopted for the period up to 30 June 1990.

Article 2

The general contents and objectives of the programme are those set out in Decision 82/752/EEC.

⁽¹⁾ OJ No C 12, 16. 1. 1989, p. 83, and OJ No C 158, 26. 6. 1989.

⁽²⁾ OJ No C 23, 30. 1. 1989, p. 16.

⁽³⁾ OJ No L 302, 24. 10. 1987, p. 1.

⁽⁴⁾ OJ No L 89, 6. 4. 1988, p. 35.

⁽⁵⁾ OJ No L 317, 13. 11. 1982, p. 19.

⁽⁶⁾ OJ No L 341, 4. 12. 1986, p. 39.

⁽⁷⁾ OJ No L 222, 12. 8. 1988, p. 1.

Article 3

The funds estimated as necessary for the completion of the programme as contained in Decision 82/752/EEC are hereby increased by ECU 7 million to reach a total of ECU 12,5 million.

Article 4

The Commission shall be responsible for the execution of the programme.

The detailed rules for the implementation of the programme are set out in the Annex to this Decision.

Article 5

An evaluation of the results achieved shall be conducted by independent experts and published in the form of a report to the European Parliament and to the Council.

The abovementioned report shall be established having regard to the objectives set out in Decision 82/752/EEC, and in accordance with Article 2 (2) of Decision 87/516/Euratom, EEC.

Article 6

This Decision is addressed to the Member States.

Done at Luxembourg, 20 June 1989.

For the Council

The President

J. SOLANA MADARIAGA

ANNEX

PROGRAMME IMPLEMENTATION AND OBJECTIVES

The objective of this specific programme is the completion of a machine translation system of advanced design capable of dealing with all official languages of the Community, as set out in Annex I to Decision 82/752/EEC.

Following the recommendations of the Independent Assessment Panel, a reorientation of the specific objectives and priorities shall be undertaken. This reorientation concerns in particular:

(a) **The implementation of an operational system prototype**

The basic parameters shall be maintained, i.e. the creation of an operational system prototype for a limited subject field and for a limited number of text types with a vocabulary of approximately 20 000 entries.

Specific attention shall be given to the following aspects:

- Terminology: methods for terminological control in machine translation, and the utilization of existing terminology resources (e.g. Eurodicautom) shall be tested;
- Lexicography: methods for the creation of large-scale machine dictionaries shall be explored, where possible in cooperation with producers of monolingual and bilingual dictionaries.

(b) **Basic software**

Advanced software architectures shall be investigated with a view to providing efficient implementation of the basic software for Eurotra and especially for the rule interpreter.

(c) **Linguistic specifications**

Special attention shall be given to the aspects of extensibility in order to ensure progressive improvement of the system beyond the end of the present programme.

(d) **Training**

In order to achieve a better balance of specialist expertise in the field of machine translation and natural language processing, the training aspects of the programme shall be reinforced.

(e) **Preparation for the industrial development of Eurotra**

In order to ensure a smooth transition to the industrial development phase of the system, the following preparatory actions shall be undertaken:

- specification of a practical Eurotra system and of possible sub- and by-products;
- definition of a development strategy;
- preparation for the participation of industrial partners (technical and financial);
- clarification of organizational and legal aspects, especially property rights.

(f) **Evaluation objectives and criteria for Eurotra**

The objective of Eurotra, as stated in Decision 82/752/EEC, is the creation of a system prototype which should provide a basis for development on an industrial scale in the period following the programme.

Hence, the main aim of the evaluation is to assess the suitability of the results of the programme as a milestone in the development strategy to be defined under point (e). In this light the evaluation shall concentrate on the following points:

- the overall system architecture and performance, and especially its modularity, extensibility and adaptability for different applications;
- the translation quality;
- the intellectual, educational and political impact of the programme;
- the suitability of the organizational structures for follow-up programmes.

(g) **The indicative breakdown of the amount of ECU 7 million deemed necessary for the completion of the Eurotra programme is as follows:**

	<i>in millions of ecus</i>
(a) Community contribution to the national groups	4,3
(b) Basic software	1,1
(c) Linguistic specifications	0,2
(d) Training, workshops, supplies, etc.	0,3
(e) Preparation for industrial development	1,0
(f) Evaluation	0,1
	<u>Total 7,0</u>

COUNCIL DECISION

of 20 June 1989

adopting a specific research and technological development programme in the field of food science and technology (1989 to 1993) (Flair)

(89/411/EEC)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular to Article 130q (2) thereof,

Having regard to the proposal from the Commission ⁽¹⁾,

In cooperation with the European Parliament ⁽²⁾,

Having regard to the opinion of the Economic and Social Committee ⁽³⁾,

Whereas Article 130k of the Treaty states that the framework programme is to be implemented through specific programmes developed within each activity;

Whereas, by Decision 87/516/Euratom, EEC ⁽⁴⁾, as amended by Decision 88/193/EEC, Euratom ⁽⁵⁾, the Council adopted a framework programme for Community research and technological development (1987 to 1991), providing for activities to be implemented to ensure the exploitation and optimum use of biological resources;

Whereas that Decision stipulates that a particular aim of Community research must be to strengthen the scientific and technological basis of European industry, particularly in strategic sectors of advanced technology, and to encourage industry by making it more competitive at the international level, and whereas the same Decision also lays down that Community action is justified if it contributes, *inter alia*, to strengthening the Community's economic and social cohesion and to promoting its overall harmonious development, while at the same time being consistent with the pursuit of scientific and technical excellence; whereas the food-linked agroindustrial research (Flair) programme is planned to contribute to the pursuit of these objectives;

Whereas a multiannual programme of research and development in the field of food science and technology will assist in the combined progress in public health and

consumer protection with industrial and economic development within the Community;

Whereas having regard to the fact that the specialized skills and capabilities relevant to food technology are numerous, and Europe's most internationally competitive capabilities are located in diverse Member States, general benefit shall be derived from collaboration in a Community programme;

Whereas four Community-COST Concertation Agreements on four concerted action projects in the field of food science and technology ⁽⁶⁾ have produced encouraging results, and further initiatives in the COST framework in this field are underway;

Whereas the participation of European third countries wholly or partially in projects under this programme is desirable;

Whereas it is desirable to involve small and medium-sized enterprises (SMEs) to the maximum extent possible in this food science and technology research and development programme and to provide SMEs and agricultural cooperatives throughout all regions of the Community, including the less favoured ones, with a maximum amount of information on the results of the programme;

Whereas the Scientific and Technical Research Committee (CREST) has expressed its opinion on the Commission's proposal,

HAS ADOPTED THIS DECISION:

Article 1

A specific research and technological development programme for the European Economic Community in the field of food science and technology (Flair), as defined in the Annex, is hereby adopted for a period of four years, from 1 July 1989.

⁽¹⁾ OJ No C 306, 1. 12. 1988, p. 13.

⁽²⁾ OJ No C 47, 27. 2. 1989, p. 87, and OJ No C 158, 26. 6. 1989.

⁽³⁾ OJ No C 23, 30. 1. 1989, p. 23.

⁽⁴⁾ OJ No L 302, 24. 10. 1987, p. 1.

⁽⁵⁾ OJ No L 89, 6. 4. 1988, p. 35.

⁽⁶⁾ OJ No L 54, 25. 2. 1978, p. 25, OJ No L 270, 27. 10. 1979, p. 53, OJ No L 39, 15. 2. 1980, p. 30, OJ No L 350, 23. 12. 1980, p. 54, OJ No L 353, 15. 12. 1982, p. 25, and OJ No L 151, 7. 6. 1984, p. 46.

Article 2

The funds estimated as necessary for the Community contribution to the execution of the programme amount to ECU 25 million, including expenditure on a staff of five.

Article 3

The programme shall consist of work carried out as concerted and shared-cost actions, and by training/mobility grants.

Detailed rules for implementing the programme are set out in the Annex.

Article 4

During the third year of the implementation and in the light of the interim results achieved, the Commission shall review the programme and send a report on the results of its review to the European Parliament and the Council. This report shall be accompanied, where necessary, by proposals for the amendment or extension of the programme.

An evaluation of the results achieved shall be conducted by independent experts and published in the form of a communication to the European Parliament and the Council.

The abovementioned reports shall be established having regard to the objectives set out in the Annex to this Decision, in particular for the improvement of food safety and quality for the consumer, and in accordance with Article 2 (2) of Decision 87/516/Euratom, EEC.

Article 5

The Commission shall be responsible for the execution of the programme.

The Commission shall be assisted by a Committee of an advisory nature, hereinafter referred to as 'the Committee', composed of the representatives of the Member States and chaired by the representative of the Commission.

Article 6

1. The representative of the Commission shall submit to the Committee a draft of the measures to be taken. The Committee shall deliver its opinion 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 of the Committee; in addition, each Member State shall have the right 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.

Article 7

1. The Commission is hereby authorized to negotiate, in accordance with Article 130n of the Treaty, agreements with international organizations, with those third countries participating in European Cooperation in the field of Scientific and Technical Research (COST) and with those European countries having concluded framework agreements in scientific and technical cooperation with the Community, with a view to their participating fully or partially in concerted actions within this programme.

2. Before entering into the negotiations referred to in paragraph 1, the Commission shall consult the Council on the advisability and on the terms of reference of these negotiations and shall take full account of the Council's views.

3. Where Framework Agreements for scientific and technical cooperation between European third countries and the Community have been concluded, organizations and enterprises established in those countries may, in accordance with the procedure laid down in Article 6 and on the basis of the criterion of mutual advantage, become partners in a shared-cost project within this programme.

4. No participant in shared-cost projects, who is established outside the Community, shall be entitled to Community financing.

Article 8

This Decision is addressed to the Member States.

Done at Luxembourg, 20 June 1989.

For the Council

The President

J. SOLANA MADARIAGA

ANNEX

RESEARCH AND TECHNOLOGICAL DEVELOPMENT PROGRAMME IN THE FIELD OF FOOD
SCIENCE AND TECHNOLOGY

(1989 to mid-1993)

OBJECTIVES

The objectives of the programme are to contribute to Europe's competitiveness in the food industry, to the improvement of food safety and quality for the consumer and to the strengthening of food science and technology in Europe. The programme will contribute in the medium and longer terms to enhancing Europe's competitiveness in the economic activities which will be based on these developments and to strengthening economic and social cohesion in the Community.

The programme is targeted at complementing existing initiatives in Member States through the development of further collaborative linkages between different research groups and industries, and shall concentrate on the interface between food processing, food distribution and the consumer. Consumer demands for more natural and healthy foods, with greater diversity, shall be met by the combined efforts of researchers and the food industry.

This should contribute also to a better control of processes (including chemical treatment and additives) and a reduction of harmful residues while safeguarding food safety and quality.

The programme shall avoid adverse effects on public health and the environment, and the creation of problems with respect to the protection and enhancement of nature.

CONTENT

The research activities in this programme have been divided into three sectors. New or improved technologies and processing innovations, which enhance food quality, safety and nutritive values, shall also be supported in each sector.

1. Assessment and enhancement of food quality and diversity

shall consist of research and development on:

- quantitative measures of 'quality';
- objective organoleptic and sensory criteria and their relationship to quality;
- quantitative measurement of 'freshness' of processed foods;
- the quality aspects of raw materials as they affect processing and end-products;
- new or improved technologies and processing innovations, including those of a biotechnological nature which enhance food quality while also facilitating processing and building consumer confidence, or which make possible greater diversity in the supply of foodstuffs.

2. Food hygiene, safety and toxicological aspects

shall concern research and development on:

- improved rapid screening tests to predict potential toxicity factors, for example residues from agricultural production, processing and environmental pollution;
- the occurrence of natural plant toxins and their effects on food;
- predicting micro-organism growth rates, accelerated methods for specific organisms and total counts;
- improved understanding of the relationship between food constituents and food intolerances;
- the application of these tests in food processing and new food-product development to ensure the safety of both processes and products.

3. Nutrition and wholesomeness aspects

shall consist of research and development on:

- the evaluation of the effects of new or improved processing technologies and/or ingredient substitution on dietary, nutritional values and wholesomeness aspects of food;

- methodologies for the nutritional evaluation of foods;
- the bioavailability of the nutritional constituents (e.g. vitamins and minerals) and the effects of processing, distribution, catering, storage and domestic use;
- the nutritional and wholesomeness value of foods designed for particular uses (e.g. slimming or athletics) or important to sub-groups in the population (e.g. infants and the elderly);
- those new or improved processes and technologies which enhance the nutritional value and wholesomeness of foods.

IMPLEMENTATION PROCEDURES

The programme shall consist of work carried out as concerted and shared-cost actions, and by training/mobility grants. All projects shall be carried out by participants from more than one Member State (irrespective of participants from third countries) and shall contribute to the development of European networks of centres investigating the properties of foodstuffs.

Participation in concerted actions is open to all Member States, to European third countries which have concluded framework agreements in scientific and technical cooperation with the Community and COST participating States.

Participants in a project conducted as a shared-cost action may be industrial enterprises, including SMEs, research institutions, universities or combinations of them, established in the Community or in those European third countries which have concluded framework agreements in scientific and technical cooperation with the Community.

As a general rule, research institutes and universities shall participate in a group together with one or more industrial organizations. Research institutes which are funded principally or exclusively by industrial organizations shall be considered as industrial participants.

For those actions which are conducted on a shared-cost basis, the Community contribution shall not normally exceed 50 % of the total expenditure, the remainder to be provided mainly from industrial sources. Alternatively, in respect of universities and research institutes carrying out projects, the Community may bear up to 100 % of the additional expenditure involved.

Shared-cost research contracts shall be awarded following a selection procedure based on calls for proposals published in the *Official Journal of the European Communities*.

Training/mobility grants shall be included to facilitate the assembly of relevant skills at appropriate locations for the work of the projects, and to promote effective diffusion of the knowledge resulting from them. The programme shall also include coordination activities such as the organization of meetings, consultation with national experts and studies on related topics, such as structural and social effects of applications of the programme results.

Special attention will be paid to the dissemination of the programme results, in order to maximize the effects of this work and to allow all enterprises, particularly SMEs, in all regions of the Community, including the less-favoured ones to benefit directly.

The contracts entered into by the Commission shall regulate the rights and obligations of each party, in particular the methods of disseminating, protecting and exploiting the research results.

Cooperation between the participants in the programme and consumer protection groups shall be encouraged, in particular through appropriate workshops and seminars.

In view of the close relationship between this programme and the Eclair programme, the Committee called upon to assist the Commission in the implementation of the programme shall be the same as that set up by Decision 89/160/EEC ⁽¹⁾ for the Eclair programme.

EVALUATION OBJECTIVES AND CRITERIA

The Commission's communication to the Council concerning a Community Plan of Action relating to the evaluation of Community research and development activities for the years 1987 to 1991 states that the objectives and milestones of each research programme have to be set out in a testable form. These which are set out overleaf.

⁽¹⁾ OJ No L 60, 3. 3. 1989, p. 48.

1. The long-term objective of this programme is to contribute to the competitiveness of Europe's food industries, and to improved consumer protection and confidence, by strengthening the links between them through research and development. The Commission proposes to achieve this objective by launching a programme of concerted actions and cost-shared actions. The projects seek to promote the close collaboration between research and technological development on food quality, hygiene, safety, toxicology, nutritional and wholesomeness values.
2. The primary short-term objective is that the programme should succeed in eliciting proposals, for concerted actions (with national agreement) and for RTD cost-shared projects (with commitments to cofinance from industry), on a scale commensurate with the Community resources proposed. This objective shall be testable from 1991 to 1992.

At this time, the programme should also demonstrate its promotion and encouragement of inter-sectoral collaboration across the Member States and in Europe, in particular between enterprises including SMEs.

3. Particular objectives to be attained within three years of the programme implementation are as follows:
 - 3.1. that improved food evaluation and assessment techniques have been developed, in particular sensory analysis, and that the results have given grounds to expect that they will find applications which will benefit industry, including SMEs, and/or the consumer;
 - 3.2. that new or improved, rapid tests for food hygiene, safety and toxicological aspects have been developed; that advantages in terms of precision, effectiveness or the avoidance of possible adverse side-effects have been indicated; and that, as a result of the tests, the products, techniques or services have practical applications for industry and/or the consumer;
 - 3.3. that research and development has been conducted on the nutritional value of foods; that useful tests have been developed to measure the nutritional value of food constituents, including the effects of processing; and that as a result the nutritional and wholesomeness values of those foods are enhanced;
 - 3.4. that studies and tests have been conducted for the development of new or improved, novel processing technologies or innovations which enhance food quality, safety, and nutritional value and that, as a result of such studies and projects, new applications have been found.
4. In addition, the programme should ensure that the following general criteria are met:
 - 4.1. that the potential increase in market opportunities, in the medium or longterm, as a result of the improvements or benefits demonstrated, is of a size to justify the Community expenditures committed;
 - 4.2. that the consumer confidence in food research and industry is encouraged and high standards for consumer protection are maintained;
 - 4.3. that studies have been carried out on the potential structural and social effects of the application of the results;
 - 4.4. that the execution of the programme has avoided harmful effects on public health and the environment, and has not created problems with respect to the protection and enhancement of nature;
 - 4.5. taking account of the results of Community, national or private sector research activities in food science and technology, the Evaluation Panel shall consider whether the Flair programme has:
 - contributed to the application of the results of the said research activities in the regions of the Community other than those in which the research was conducted;
 - given adequate consideration to all the selection criteria set out in Annex III to Decision 87/516/Euratom, EEC which includes that of contributing to the strengthening of the economic and social cohesion of the Community, while being consistent with the pursuit of scientific and technical excellence.

The Panel will also consider whether the programme has produced added value attributable to the Community character of the programme (i.e. not readily obtainable via Member State actions alone).

COUNCIL DECISION

of 20 June 1989

adopting a specific programme for the dissemination and utilization of scientific and technological research results (Value) 1989 to 1992

(89/412/EEC)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community and in particular Article 130q (2) thereof,

Having regard to the proposal from the Commission ⁽¹⁾,

In cooperation with the European Parliament ⁽²⁾,

Having regard to the opinion of the Economic and Social Committee ⁽³⁾,

Whereas Article 130g (c) of the Treaty assigns to the Community the task of, *inter alia*, disseminating and optimizing the results of activities in Community research, technological development and demonstration;

Whereas Article 130k of the Treaty states that the framework programme shall be implemented through specific programmes developed within each activity;

Whereas, by Decision 87/516/Euratom, EEC ⁽⁴⁾, as amended by Decision 88/193/EEC, Euratom ⁽⁵⁾, the Council adopted a framework programme for Community activities in the field of research and technological development (1987 to 1991), providing for activities in the field of dissemination and utilization of scientific and technological research results in order to increase the efficiency of the research and technological development work itself and to stimulate the process of innovation and industrial exploitation in Europe;

Whereas the Council decided on the same occasion to give more attention to these horizontal activities, which constitute an essential part of the Community's scientific and technological strategy;

Whereas Decision 87/516/Euratom, EEC stipulates that a specific objective of Community research must be to strengthen the scientific and technological basis of European

industry, particularly in strategic sectors of advanced technology, and to encourage industry by making it more competitive at the international level, and whereas the same Decision also lays down that Community action is justified if it contributes, among other things, to enhancing the Community's economic and social cohesion and to encouraging its overall harmonious development, while at the same time being consistent with the pursuit of scientific and technical excellence; whereas Value programme is planned to contribute to the pursuit of these objectives;

Whereas a specific programme for the dissemination and utilization of the results of scientific and technological research should complement the activities carried out in this area in the context of other specific Community research and development programmes and should also be closely coordinated with Community programmes in related fields, such as the SPRINT programme and the action plan for small and medium-sized enterprises;

Whereas it is desirable to promote cooperation between European Community research and development programmes and Eureka projects; whereas, in the context of the present programme decision, it is desirable for appropriate links with the Eureka Cosine project to be established;

Whereas this programme must make use of the latest telecommunications and information technology to achieve its objectives, for example by the creation of computer networks;

Whereas the dissemination of results should be carried out taking into consideration the technologically strategic interests of participants in the Member States and of the Community and in conformity with any requirements of confidentiality;

Whereas it is appropriate for the special needs of small and medium-sized enterprises to be taken into account as regards technological information and assistance for exploitation;

Whereas the Commission, in implementation of the Treaty establishing the European Coal and Steel Community, carries out activities in the coal and steel sectors which do not come under the RTD framework programme and the results of which must be disseminated and used through appropriate autonomous activities;

⁽¹⁾ OJ No C 184, 14. 7. 1988, p. 12, and OJ No C 27, 2. 2. 1989, p. 10.

⁽²⁾ OJ No C 326, 19. 12. 1988, p. 144, and OJ No L 158, 26. 6. 1989.

⁽³⁾ OJ No C 337, 31. 12. 1988, p. 12.

⁽⁴⁾ OJ No L 302, 24. 10. 1987, p. 1.

⁽⁵⁾ OJ No L 89, 6. 4. 1988, p. 35.

Whereas the actions for the dissemination and utilization of results of specific Community technological research and development programmes laid down in the framework programme (1987 to 1991) are downstream from these specific programmes;

Whereas the Scientific and Technical Research Committee (Crest) has given its opinion,

HAS ADOPTED THIS DECISION:

Article 1

A specific programme for the dissemination and utilization of scientific and technological research results, known as the Value programme and hereinafter referred to as 'the programme', is hereby adopted for an initial period of four years from 27 June 1989.

Article 2

The programme shall comprise two sub-programmes.

The objectives and scientific and technical content of these sub-programmes are set out in detail in Annex I.

Article 3

1. The funds estimated as necessary for the Community's financial contribution to the execution of the programme amount to ECU 38 million, including expenditure arising from a temporary staff of 20.

2. An indicative breakdown of appropriations, for the estimated total amount, between the various activities listed in Annex I is given in Annex II.

Article 4

Detailed rules for the implementation of the programme and the rate of the Community's financial participation are set out in Annex III.

Article 5

1. The Commission shall be responsible for the implementation of the programme.

2. The Commission shall be assisted by a committee of an advisory nature composed of the representatives of the Member States and chaired by the representative of the Commission.

Article 6

1. The representative of the Commission 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.

Article 7

The procedure laid down in Article 6 shall apply in particular to:

- the content of calls for tenders,
- the assessment of the proposed projects and the estimated amount of the Community's contribution to them,
- confidentiality criteria for the dissemination of results,
- departures from the general rules governing Community financial participation set out in Annex III,
- any adaptation of the indicative breakdown of appropriations set out in Annex II,
- the precise implementing procedures resulting from agreements with third countries,
- the measures to be undertaken to evaluate the programme.

Article 8

1. In the first half of the third year of the programme implementation, the Commission shall undertake a review of the programme and the extent to which the objectives set out in Annex I have been achieved. The Commission shall address a report to the European Parliament and the Council on the results of this review, together, if necessary, with any proposals for modification or prolongation in the light of the interim results achieved.

2. At the end of the programme, the Commission shall report to the European Parliament and the Council on the evaluation of the results achieved.

3. The reports provided for in paragraphs 1 and 2 shall be drawn up having regard to the objectives set out in Annex I to

this Decision and in conformity with Article 2 (2) of Decision 87/516/Euratom, EEC.

Article 9

1. The Commission is hereby authorized to negotiate, in accordance with Article 130n of the Treaty, agreements with third countries taking part in European Cooperation in the field of Scientific and Technical Research (Cost) with a view to associating them wholly or partially with the programme. These agreements shall be founded on the criteria of mutual advantage.

2. Before entering into the negotiations referred to in paragraph 1, the Commission shall consult the Council on

the advisability and on the terms of reference of these negotiations and shall take full account of the Council's views.

Article 10

This Decision is addressed to the Member States.

Done at Luxembourg, 20 June 1989.

For the Council

The President

J. SOLANA MADARIAGA

ANNEX I

OBJECTIVES AND SCIENTIFIC AND TECHNICAL CONTENT

The general objective of the Value programme is to promote the effective utilization of the results of Community RTD activities with a view to attaining the declared goal of the framework programme to strengthen the scientific and technological basis of European industry and with a view both to encouraging industry by making it more competitive at the international level and to contributing to the completion of the single internal market and the strengthening of economic and social cohesion.

SUBPROGRAMME I

Dissemination and utilization of the results of Community RTD activities

1. *Objectives*

Whilst respecting the contractual arrangements governing Community RTD activities, to disseminate, by appropriate channels, the results of those activities so as to ensure an improvement in the level of exploitation and the resulting creation of economic activities. In order to improve the competitiveness of European industry, the interests of SMEs will be taken into account and special consideration will be given to their needs as regards technological information and assistance for exploitation.

Lines of action:

1.1. Collection and dissemination of information concerning existing or planned Community RTD programmes, using appropriate methods and means, such as:

- computerized databases,
- electronic information services,
- information and dissemination centres in the Member States,
- the editing and distribution of printed matter (newsletters, brochures, reviews, articles).

This activity should facilitate participation in general in RTD activities and the search for partners. As far as possible, use will be made of existing databases and associated information services including, where appropriate, services offered by private organizations.

1.2. Identification, characterization and screening to establish their suitability for dissemination or exploitation of relevant results of Community RTD activities by:

- examining contracts and reports,
- assessing their scientific/technical and utilization potential,
- examining the need for protection by means of patent applications, etc.

1.3. Action on legal protection of the results by:

- having recourse to selected patent agents advisers,
- examining reports to ensure confidentiality and protection before publication,
- assisting contractors and inventors,
- information and awareness activities.

1.4. Dissemination of results which need not be protected by:

- publications (books, reports, summaries, newsletters, etc.),
- organization of, and participation in, seminars, conferences, exhibitions, etc.,
- organization of targeted dissemination activities,
- transfer of knowledge by (short-term) secondment of research workers participating in Community RTD projects,
- collaboration with, and assistance to, organizations in the Member States in the setting-up of mechanisms for dissemination,
- electronic means such as databases and associated services.

1.5. Promotion of the exploitation of relevant results by:

- assessing, with the help of experts, the potential for exploitation of the results,
- providing expert advice in the setting-up and planning of exploitation projects,
- assisting in matters of legal and technical protection,
- exhibitions, assisting in finding partners for joint ventures or work under licence,
- providing financial and technical support for developing laboratory prototypes for collaborative precompetitive use,
- advising participants in finding financial support from third parties.

SUBPROGRAMME II

Computer communications networks

2. *Objectives*

To promote, with a view to improving the efficiency of distributed research and development activities throughout Europe, while paying due regard to the requirements for confidentiality and integrity of Community RTD information (see 2.2), a common integrated computer communications infrastructure and associated services, accessible to the various public and private research centres in Europe.

Lines of action:

2.1. General support to the development of computer communications networks in the field of RTD.

- Technical assistance and support to the RARE (Réseaux associés pour la recherche européenne) Association, particularly its pan-European projects (e.g. in the message-handling and files-transfer areas), to the implementation phase of the Eureka Cosine project, and to Member States wishing to develop or adapt networks for the purposes of this programme.

2.2. Work on requirements for confidentiality and integrity of Community RTD information.

ANNEX II

INDICATIVE BREAKDOWN OF APPROPRIATIONS

million ecus

SUBPROGRAMME I

Dissemination and utilization of the results of Community RTD activities

1.1.	Collection and dissemination of information concerning existing or planned Community RTD programmes	6,0
1.2.	Identification, characterization and screening of results of Community RTD activities	2,0
1.3.	Actions on legal protection of results (patents, etc.)	2,0
1.4.	Dissemination of results	8,0
1.5.	Promotion of the exploitation of results	10,0
	Sub-total	28,0

SUBPROGRAMME II

Computer communications networks

2.1.	General support to the development of computer communications networks in the field of RTD	
	— Technical assistance and support to the RARE Association (Réseaux associés pour la recherche européenne) particularly its pan-European projects (e.g. in the message-handling and files-transfer areas), to the implementation phase of the Eureka Cosine project, and to Member States wishing to develop or adapt networks for the purpose of this programme	6,0
2.2.	Work on requirements for confidentiality and integrity of Community RTD information	2,0
	Sub-total	8,0
	To be allocated after mid-term programme review	2,0
	TOTAL	38,0

ANNEX III

PROGRAMME IMPLEMENTATION

I. GENERAL

In the implementation of the programme, the Commission shall study, select and apply methods for the efficient dissemination and take-up of technological innovations. It will apply the accumulated experience and best practice of both European and international experts in this field. In its exploitation work, the Commission will take into consideration the legitimate interests of the contractors.

II. SPECIFIC IMPLEMENTATION MODALITIES

1. The activities set out in Annex I are to be implemented by means, *inter alia*, of contracts for studies and services to be carried out on behalf of the Commission.
 2. With regard to the actions to be implemented on the basis of shared-cost contracts, the Community's participation will in principle be up to 50 % of the total expenditure.
Alternatively, in respect of universities and research institutes carrying out projects, the Community may bear up to 100 % of additional expenditure involved.
 3. Call for proposals or for tenders (restricted or public) are to be published where appropriate in the *Official Journal of the European Communities*.
 4. Support for European cooperation networks is a further means of achieving the objectives of the programme. The Commission may also nominate bodies to be its correspondents for the local promotion of the objectives of the programme in Member States or regions where the infrastructure for these activities needs to be developed.
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COUNCIL DECISION

of 20 June 1989

on a specific research and technological development programme in the field of marine science and technology (MAST)

(89/413/EEC)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 130q (2) thereof,

Having regard to the proposal from the Commission ⁽¹⁾,

In cooperation with the European Parliament ⁽²⁾,

Having regard to the opinion of the Economic and Social Committee ⁽³⁾,

Whereas Article 130k of the Treaty states that the framework programme is to be implemented through specific programmes developed within each activity;

Whereas, by its Decision 87/516/Euratom, EEC ⁽⁴⁾, as amended by Decision 88/193/EEC, Euratom ⁽⁵⁾, the Council has adopted a framework programme for Community research and technological development (1987 to 1991), providing, *inter alia*, for activities in the exploitation of the sea bed and the use of marine resources;

Whereas Decision 87/516/Euratom, EEC stipulates that a particular aim of Community research must be to strengthen the scientific and technological basis of European industry, particularly in strategic sectors of advanced technology, and to encourage industry by making it more competitive at the international level, and whereas the same Decision also lays down that Community action is justified if it contributes, among other things, to strengthening the Community's economic and social cohesion and to promoting its overall harmonious development, while at the same time being consistent with the pursuit of scientific and technical excellence; whereas the MAST programme is planned to contribute to the pursuit of these objectives;

Whereas the European Parliament has stressed the need for cooperation, coordination and complementarity of national

policies in the field of oceanography and marine technology and has recommended that the Commission should undertake a number of actions to that effect under the framework programme, including a specific programme for marine science and technology;

Whereas other Community programmes (e.g. environmental protection, climatology and natural hazards, fisheries, technological development in the hydrocarbons sector, non-nuclear energy and some activities of the Joint Research Centre (JRC) have a bearing on topics in marine science and technology, but none are directed specifically at marine research;

Whereas in the present context of expanding industrialization, increasing pressure is being placed on the marine and especially the coastal environment;

Whereas it is widely recognized that a good knowledge base and reliable predictive techniques are essential for long-term management and protection strategies for the marine environment; whereas to achieve these objectives much can be gained from effective coordination of the research programmes of the Member States and joint execution of European projects in marine science and technology would be beneficial;

Whereas participation by certain European third countries in a Community research and development programme in marine science and technology would be beneficial;

Whereas the Scientific and Technical Research Committee (CREST) has given its opinion,

HAS ADOPTED THIS DECISION:

Article 1

A specific research and technological development programme for the European Economic Community in the field of marine science and technology (MAST), as defined in Annex I, is hereby adopted for a period of three years, starting on 28 June 1989.

⁽¹⁾ OJ No C 298, 23. 11. 1988, p. 17.

⁽²⁾ OJ No C 69, 20. 3. 1989, p. 85, and OJ No C 158, 26. 6. 1989.

⁽³⁾ OJ No C 75, 23. 3. 1989, p. 11.

⁽⁴⁾ OJ No L 302, 24. 10. 1987, p. 1.

⁽⁵⁾ OJ No L 89, 6. 6. 1988, p. 35.

Article 2

The funds estimated as necessary for the Community contribution to the execution of the programme amount to ECU 50 million, including expenditure on a staff of 13.

An indicative breakdown of these funds is set out in Annex II.

Article 3

Detailed rules for the implementation of the programme are set out in Annex III.

Article 4

During the second year of implementation, the Commission shall review the programme and send a report on the results of its review to the European Parliament and the Council. This report shall be accompanied where necessary by proposals for the amendment or extension of the programme.

At the end of the programme, an evaluation of the results achieved shall be conducted by the Commission which shall report thereon to the European Parliament and the Council.

The abovementioned reports shall be established having regard to the objectives set out in Annex I to this Decision and in accordance with Article 2 (2) of Decision 87/516/Euratom, EEC.

Article 5

The Commission shall be responsible for the execution of the programme.

The Commission shall be assisted by a committee of an advisory nature, hereinafter referred to as 'the Committee' composed of the representatives of the Member States and chaired by the representative of the Commission.

Contracts concluded by the Commission shall govern the rights and obligations of each party, in particular arrangements for the dissemination, protection and exploitation or research results.

Article 6

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

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

Article 7

The procedures laid down in Article 6 shall apply in particular to:

- the contents for the call for proposals,
- the assessment of the proposed projects and the estimated amount of the Community's contribution to them,
- departures from the general rules governing Community participation set out in Annex III,
- the participation in any project by non-Community organizations and enterprises referred to in Article 8 (3),
- any adaptation of the indicative breakdown of funds set out in Annex II,
- the measures to be undertaken to evaluate the programme,
- arrangements for the dissemination, protection and exploitation of the results of research carried out under the programme.

Article 8

1. The Commission is hereby authorized to negotiate, in accordance with Article 130n of the Treaty, agreements with international organizations, those third States participating in European Cooperation in the field of Scientific and Technical Research (COST), and those European countries having concluded framework agreements in scientific and technical cooperation with the Community, with a view to associating them wholly or partly with the programme.

2. Before entering into the negotiations referred to in paragraph 1, the Commission shall consult the Council on the advisability and on the terms of reference of these negotiations and shall take full account of the Council's views.

3. Where framework agreements for scientific and technical cooperation between European third countries and

the European Communities have been concluded, organizations and enterprises established in those countries may, on the basis of the criterion of mutual advantage, become partners in a project undertaken within the programme.

No contractor established outside the Community who participates as a partner in a project undertaken within the programme shall be entitled to Community financing intended for the programme. The contractor will contribute to general administrative expenses.

Article 9

This Decision is addressed to the Member States.

Done at Luxembourg, 20 June 1989.

For the Council

The President

J. SOLANA MADARIAGA

ANNEX I

PROGRAMME OBJECTIVES

The objectives of the MAST programme are:

- to contribute to better knowledge of the marine environment in order to improve its management and protection and to predict change;
 - to encourage the development of new technologies for the exploration, protection and exploitation of marine resources;
 - to improve coordination and cooperation and the exchange of information amongst national marine R&D programmes in the Member States, and to help increase the effectiveness of these programmes through better use of research facilities;
 - to strengthen industrial competitiveness in the relevant sectors;
 - to contribute to the economic and social cohesion of the Community by encouraging the involvement of scientists from all Member States thereby stimulating technology transfer and the joint and more efficient use of facilities and simultaneously strengthening the scientific and technological base of the Community, whilst being consistent with the pursuit of scientific and technical excellence;
 - to provide the technical basis for, and encourage the development of, common norms, standards and design guide lines, in view of the completion of the internal market in 1992;
 - to facilitate training and exchange of personnel;
 - to assist as far as possible Community participation in international ocean programmes.
-

ANNEX II

PROGRAMME CONTENTS AND INDICATIVE BREAKDOWN OF FUNDS

	<i>Indicative breakdown</i>
PART I	
Basic and applied marine science	30—35 %
Directed at the study of the structure, stability and dynamics of the marine environment with reference, <i>inter alia</i> , to the quality of sea water and fauna and flora. Emphasis will be on coastal waters and seas surrounding the Member States of the Community (Baltic, East Atlantic north of the Tropic of Cancer, Irish, Mediterranean and North).	
1. Modelling	
The main aim is to establish decision support systems for better management.	
1.1. Continental shelf and regional seas	
To develop three-dimensional physical models and fourth-generation management systems for shelf and regional seas.	
1.2. Coastal waters	
To compare and improve models of coastal waters and currents and integrate these with models of regional seas.	
1.3. Ecosystem models	
To upgrade models of marine ecosystems in order to understand biological processes and thereby achieve more realistic management schemes.	
1.4. Modelling coordination within the Community	
2. Oceanography	
With emphasis on multidisciplinary studies of processes which contribute to a better understanding of marine systems.	
2.1. Circulation and exchange of water masses	
To determine the prevailing physical forces, the fate of inputs, and to evaluate exchange at the shelf/ocean interface.	
2.2. Biogeochemical cycles and fluxes	
To establish the major pathways and reservoirs in biogeochemical processes.	
2.3. Interface and boundary processes	
To understand the mechanisms governing exchange of matter and energy at the boundaries of the marine system.	
2.4. Biological processes	
To improve understanding of biological processes in the marine environment, particularly in relation to physical and chemical determinants.	
2.5. Sedimentary processes	
To obtain better information on sedimentary processes, for the balanced development of resources and uses of the sea-floor and the coast.	

	<i>Indicative breakdown</i>
PART II	
Coastal zone science and engineering	15—20 %
Concerned with coastal problems and processes (including coastal protection), and with the development of better design criteria for coastal engineering.	
1. Coastal morphodynamics	
To understand and predict changes in coastal morphology.	
2. Coastal ecosystems	
To improve knowledge of the predominant physical, chemical and biological processes in coastal waters.	
3. Meteo-marine predictions	
To provide the basis for improved modelling and forecasting of waves, particularly for coastal engineering design requirements.	
4. Coastal engineering	
To study coastal protection problems (breakwaters and beach nourishment, etc.) and to prepare for the impact of the anticipated rise in sea level.	

	<i>Indicative breakdown</i>
PART III	
Marine technology	30—35 %
Focused mainly on encouraging the development of new instrumentation and generic enabling technology necessary for the advancement of marine science.	
1. Instrumentation for science	
To promote the development of new sensors, instrument packages and systems, especially for long-term <i>in situ</i> and remote measurements.	
2. Generic enabling technologies	
To assist R&D in critical areas of underwater communication, imaging and robotics.	
3. Design aspects of large facilities	
To carry out studies on the design of specialized facilities, e.g. research vessels and manned or unmanned long-range submersibles.	
4. Studies on the outlook for the 1990s (technology and resources)	
To carry out technical-economic feasibility studies assessing the benefits of future strategic initiatives.	

	<i>Indicative breakdown</i>
PART IV	
Supporting initiatives	10—15 %
Aimed at improving coordination, avoiding duplication of work, achieving more cost effective-use of facilities, improving specialized training, assisting technology transfer, and contributing to pre-standardization.	
1. European ocean data and information network	
To establish a common system linking existing ocean data centres in Europe.	
2. Research vessel coordination	
To set up a communication system for the coordination of research cruises and the shared use of equipment.	
3. Advanced training	
To establish advanced courses and encourage training and exchange of personnel.	
4. Surveying for resource evaluation	
To encourage cooperative new approaches to mapping, bathymetric and hydrographic surveying.	
5. Preparation of norms and standards	
To promote comparative testing and calibration of oceanographic instruments and systems, taking into account the requirements for environmental protection.	
6. Marine polar and marine lithospheric research	
To support planning and possible coordination of European efforts.	

Staff and administration costs included in the implementation of the programme amount to 8,25%.

ANNEX III

IMPLEMENTATION OF THE PROGRAMME

The programme consists of activities carried out by means of shared-cost research contracts to be awarded following a selection procedure based on a call for proposals published in the *Official Journal of the European Communities*. The programme may also be carried out by means of study contracts, coordination projects, awards for training and mobility grants and dissemination activities, taking into account the necessary rules of protection.

The participants may be industrial companies — including small and medium-sized enterprises — research institutions, universities, individuals or any combination thereof established in the Community.

Shared-cost research projects involving research centres (and/or universities) and industry are particularly welcome and mandatory for Part III, Marine Technology. These projects should, in general, be carried out by participants from more than one Member State.

For shared-cost contracts, the Community participation will be up to 50 % of the total expenditure. Alternatively, in respect of universities and research institutes carrying out projects, the Community may bear up to 100 % of the additional expenditure involved.

COUNCIL DECISION

of 20 June 1989

adopting a Community programme in the field of strategic analysis, forecasting and evaluation
in matters of research and technology (Monitor)

(89/414/EEC)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 130q (2) thereof,

Having regard to the proposal from the Commission ⁽¹⁾,

In cooperation with the European Parliament ⁽²⁾,

Having regard to the opinion of the Economic and Social Committee ⁽³⁾,

Whereas Article 130k of the Treaty states that the framework programme shall be implemented through specific programmes developed within each activity;

Whereas, by its Decision 87/516/Euratom, EEC ⁽⁴⁾, as amended by Decision 88/193/EEC, Euratom ⁽⁵⁾, the Council adopted a framework programme for Community activities in the field of research and technological development (1987 to 1991), providing for activities in the fields of forecasting and assessment in science and technology and in evaluation of programmes;

Whereas the quality and independence of the evaluation of each research action programme should be maintained within the context of an evaluation procedure applicable to all research activities at European level;

Whereas Decision 87/516/Euratom, EEC provides that a particular aim of Community research shall be to strengthen the scientific and technological basis of European industry and to encourage it to become more competitive at the international level and that Community action is justified where research contributes, *inter alia*, to the strengthening of the economic and social cohesion of the Community and the promotion of its overall harmonious development, while being consistent with the pursuit of scientific and technical quality; whereas it is intended that the Monitor programme should contribute to the achievement of these objectives;

Whereas the growing impact of science and technology on social and economic life reinforces the role and utility of analysis of the social and economic consequences of developments in science and technology;

Whereas several important initiatives have been taken in the Member States in matters of programme evaluation, forecasting and technology assessment;

Whereas the Commission, in carrying out its duties regarding evaluation of R&D activities, must have the support of reliable methods, appropriate indicators and a network of experienced European specialists in order that the effectiveness of its evaluations and its capability to measure the impact of R&D activities are improved;

Whereas the evaluation report of the FAST II programme has been taken into account;

Whereas the Scientific and Technical Research Committee (CREST) has given its opinion.

HAS ADOPTED THIS DECISION:

Article 1

A Community programme in the field of strategic analysis, forecasting and evaluation in matters of research and technology (Monitor), as defined in Annex I and hereinafter referred to as 'the programme', is hereby adopted for a period of four years from 27 June 1989.

Article 2

The funds estimated as necessary for the Community's contribution to the execution of the programme amount to ECU 22 million, including expenditure on a staff of 25.

An indicative breakdown of the estimated total amount between the various programme activities is given in Annex I.

Article 3

Detailed rules for the implementation of the programme and the rate of the Community's financial participation are set out in Annex II.

⁽¹⁾ OJ No C 29, 4. 2. 1989, p. 4.

⁽²⁾ OJ No C 69, 20. 3. 1989, p. 80, and OJ No C 158, 26. 6. 1989.

⁽³⁾ OJ No C 56, 6. 3. 1989, p. 10.

⁽⁴⁾ OJ No L 302, 24. 10. 1987, p. 1.

⁽⁵⁾ OJ No L 89, 6. 4. 1988, p. 35.

Article 4

1. In the third year of the programme implementation, the Commission shall undertake a review of the programme and shall report to the European Parliament and the Council on the results thereof, together, if necessary, with any proposals for modification or prolongation.

2. At the end of the programme, the Commission shall report to the European Parliament and the Council on the results achieved.

3. The reports provided for in paragraphs 1 and 2 shall be established having regard to the objectives set out in Annex III to this Decision and in conformity with Article 2 (2) of Decision 87/516/Euratom, EEC.

Article 5

1. The Commission shall be responsible for the implementation of the programme.

2. The Commission shall be assisted by a committee of an advisory nature composed of the representatives of the Member States and chaired by the representative of the Commission.

Article 6

1. The representative of the Commission 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.

Article 7

The procedure laid down in Article 6 shall apply in particular to:

- the work programmes drawn up in respect of each of the component parts of the programme,
- the content of calls for proposals or tenders,

- the assessment of the proposed activities and the estimated amount of the Community's contribution to them,
- the measures to be undertaken to evaluate the programme,
- any adaptation of the internal indicative allocation of funds set out in Annex I, section I (2),
- departures from the general rules governing Community participation in financing set out in Annex II,
- the participation in any activity by third country organizations or enterprises as provided for in Article 8,
- arrangements for the dissemination, protection and exploitation of the results of research carried out under the programme.

Article 8

1. The Commission is authorized to negotiate, in accordance with Article 130n of the Treaty, agreements with international organizations, those non-Member States participating in European Cooperation in the field of Scientific and Technical Research (COST) and those European countries having concluded framework agreements in scientific and technical cooperation with the Community, with a view to associating them wholly or partly with the programme.

2. Before entering into the negotiations referred to in paragraph 1, the Commission shall consult the Council on the advisability and on the terms of reference of these negotiations and shall take full account of the Council's views.

3. Where framework agreements for scientific and technical cooperation between non-Member States and the European Communities have been concluded, organizations and enterprises established in those countries may participate in a project undertaken within the programme.

Article 9

This Decision is addressed to the Member States.

Done at Luxembourg, 20 June 1989.

For the Council

The President

J. SOLANA MADARIAGA

ANNEX I

COMMUNITY PROGRAMME IN THE FIELD OF STRATEGIC ANALYSIS, FORECASTING AND EVALUATION IN MATTERS OF RESEARCH AND TECHNOLOGY (MONITOR)

1. GENERAL AIMS AND ACTIVITIES

1. (a) The purpose of the programme is to be instrumental in identifying new directions and priorities for Community research and technological development policy and to help show more clearly the relationships between R&D and the other common policies.
- (b) The programme involves factual and strategic analysis and forecasting relating to the scientific and technological environment and its interaction with economic and social developments.
2. The programme comprises three activities. The internal indicative allocation of the funds estimated as necessary for each of these activities is as follows:

	<i>(millions of ecus)</i>
— strategic and impact analysis (SAST)	3,1
— FAST forecasting	4,5
— research and studies to improve methodologies and effectiveness of evaluation of R&D activities (Spear)	1,8
— still to be allocated	0,7
— staff costs	9,6
— administrative costs	2,3
TOTAL	22,0

II. CONTENT AND WORKING METHODS

Strategic and impact analysis (SAST)

3. The SAST activities consist of carrying out 'targeted' analyses in a scientific field, technology sector, or a challenging theme. The aim is to show the options available to the Commission's science and technology policy and interactions with other policies as well as the way in which the different actors concerned (industrialists, certain local public authorities, Member and non-Member States, social groups, etc.) situate themselves with regard to the options.
4. The activities consist of:
 - (a) the preparation of reports on the prospects for development and the strengths and weaknesses of the European Community, a group of countries in the Community, particularly with respect to R&D structures, a high technology sector, a scientific field or in relation to important changes in other countries' science and technology policies, particularly those outside the Community;
 - (b) the carrying out of technology assessments into the state of development of a technology and its future evolution, constraints to innovation, industrial and socio-economic impact within the Community (by sector, region, etc.), requirements in terms of R&D and investment financing, etc.;
 - (c) the preparation of reports of strategic analyses (strategic dossiers) shedding light, for a given problem, on alternatives open to the European Community and proposing precise orientations for action.
5. The Commission will establish an annual calendar of priority activities which will be adopted after consultation with the committee referred to in Article 5 of the Decision.

FAST forecasting

6. The FAST forecasting activities are a reoriented follow-up to previous FAST programmes: they include study of scientific and technological changes and their many interactions with economic and social changes. Their

aim is to provide the Commission with global analyses and long-term projections. The projections are to be useful in relation to the Community's major objectives for the 1990s, namely the creation of a single internal market and strengthening economic and social cohesion within the Community, and in the light of worldwide economic and social developments.

7. *Forecasting includes:*

- (a) the preparation of reports ('forecasting dossiers') on major topics or phenomena of a global character. The choice of these topics will depend on their relevance and significance in relation to the objectives of the common RTD policy. They may extend beyond the strictly European framework;
 - (b) the undertaking of studies of the implications and consequences of selected scientific and technical developments which present important challenges for society in the future;
 - (c) the synthesis and critical analysis of the main forecasting studies published worldwide;
 - (d) the preparation, every two years, of a report on the economic and social implications of technological change, particularly in Europe.
8. These activities will be defined according to a biennial work programme established by the Commission in consultation with the committee referred to in Article 5 of the Decision.
9. These activities will involve the participation of experts and working groups from outside the Commission under the responsibility and guidance of the FAST team in consultation with other Commission services concerned (including, where necessary, officials from other Directorates-General seconded to the FAST team for limited periods) and visiting scientists on secondment from the Member States or from non-member countries.

In addition, the activities under 7 (a) and (b) will be organized in such a way as to ensure the broadest and most efficient possible interaction between the actors involved. To that end, the European Parliament, the Council and the Economic and Social Committee will be regularly informed of the results of these activities.

10. FAST forecasting activities are also intended to continue to stimulate the development of *European* forecasting efforts and expertise. To this end, it will be necessary to reinforce the FAST '12 + 1' network (comprising the 12 national FAST units nominated by the Member States to ensure interaction between Community activities and similar work undertaken in their own countries) and to encourage the setting-up of an informal network of European experts in the field of prospectation.

Activities in support of the evaluation of R&D programmes (Spear)

11. Research and studies in support of evaluation of R&D activities at Community level are intended to improve the theoretical and methodological bases, as well as the methods of organization and management of Community R&D programmes within the context of, and drawing as appropriate on, the experience of national and international R&D programmes. Such research and studies will also analyse and improve the effectiveness and impact of R&D activities and define an evaluation procedure applicable to the broad range of research activities at Community level carried out under the responsibility of the Commission while preserving the quality and independence of such evaluation.
12. To this end, the Spear activities comprise:
- the preparation, in conformity with the Community plan of action relating to the evaluation of Community research and development activities for the years 1987 to 1991 ⁽¹⁾, of four to five horizontal evaluations, within the context of, and drawing as appropriate on, the experience of national or international research programmes, in order to analyse their impact and identify means to improve their effectiveness at Community level. This covers analyses of methods of support and of management of national and Community research,
 - research actions into methodologies of evaluation of R&D programmes in order to increase their utility and make them more credible to their users. This will be in conformity with points 5, 6 and 7 of the aforementioned plan of action.

⁽¹⁾ OJ No C 14, 20. 1. 1987, p. 5.

In particular the programme must:

- improve methods for evaluations of Community R&D programmes within the context of, and drawing as appropriate on, the experience of related national R&D programmes,
 - stimulate research into the methodology of evaluation and its use in Member States,
 - develop quantitative indicators that can describe the quality and utility of research and its contribution to the Community's economic and social development,
 - prepare guidelines for the carrying out of Community R&D programme evaluations in the light of the European experience,
 - prepare guidelines for evaluating the quality of management using a set of related criteria (utilization of appropriations, allocation of contracts, meeting of deadlines, etc.).
13. The Commission will establish an annual calendar of priority activities which will be adopted after consultation with the committee referred to in Article 5 of the Decision.
-

ANNEX II

PROGRAMME IMPLEMENTATION

The implementation of the programme will vary according to the specific nature of the activity involved, but will include in particular:

- the involvement of research centres or research teams from the Community countries specializing in strategic and impact analyses, forecasting and evaluation of R&D programmes, especially by setting up networks, organizing workshops, seminars, etc.,
- the setting-up of two '12 + 1' networks, one linked to FAST forecasting, the other to Spear. Their objectives will be the exchange and diffusion of information, promotion within the Community of more effective means of forecasting and of evaluation of R&D, and also the exploitation of results,
- the secondment of visiting scientists from national institutions and governments to take part in the various activities,
- the dissemination of the knowledge and results acquired in the context of the SAST, FAST and Spear activities in the form of publications in the field of research, 'policy notes', the organization of national 'Monitor' days and other publicizing activities.

The above activities will be implemented chiefly by means of contracts for studies and services to be carried out on behalf of the Commission.

The Communities' financial contribution towards the activities in question may be up to 100 % of the expenditure involved.

The contracts entered into by the Commission shall regulate the rights and obligations of each party, including the methods of disseminating, protecting and exploiting the research results.

As a general rule, contracts will, where appropriate, be awarded on the basis of calls for proposals or for tenders (restricted or public) published in the *Official Journal of the European Communities*.

ANNEX III

PROGRAMME OBJECTIVES AND EVALUATION CRITERIA

The general objective of the programme is that its three component parts — SAST, FAST and Spear — should form as far as possible an integrated whole to achieve the purpose set out in section 1.1 of Annex I, namely that it should be instrumental in identifying new directions and priorities for Community research and technological development policy and should help show more clearly the relationships between R&D and the other common policies. The particular objectives of the three component parts are:

1. SAST

- 1.1. The unit should satisfy the demands for strategic analysis expressed by the various services and committees associated to Community science and technology. A calendar of projects to be implemented should be established annually, following consultation of the committee referred to in Article 5 of the Decision.
- 1.2. Each SAST project, once selected, should be conducted in such a way as to ensure access and commitment to the exercise, from the definition of the project to the diffusion of its results through the various implementation phases, by all those directly concerned.
- 1.3. Each project intended to produce a strategic dossier should be supervised by a steering group with the requisite authority, legitimacy and expertise, involving customer(s)' representative(s), SAST personnel and external expert(s).
- 1.4. The strategic dossiers should demonstrate the need, and give precise recommendations, for action and, where appropriate, the conditions under which it could best be pursued. The dossiers should represent a broad consensus among their steering groups.

2. FAST

- 2.1. The FAST activity should elaborate and implement the two-yearly working programmes to the satisfaction of the FAST interservice group of Directors-General of the Commission, and the national units of the FAST 12 + 1 network.
- 2.2. The FAST activity should have produced two two-yearly reports on the economic and social consequences of scientific and technological change mainly in Europe to the satisfaction of the Commission, the European Parliament, the Council of Ministers and the Economic and Social Committee.
- 2.3. The global prospective studies, the FAST technological assessment exercises and the analytical synthesis should be of such a relevance and quality that they have been significantly useful for the Commission orientation not only of Community RTD choices and options but also of other relevant Community policies.
- 2.4. The prospective activities of FAST should have stimulated the development of European prospective efforts and expertise. Furthermore, the 12 + 1 network should have been reinforced to the satisfaction of both Member States and the Commission.
- 2.5. An informal network of prospectivists should have been set up. The activities of other FAST networks (such as Eureka or the ROME network which has to be established) should have been supported.

3. SPEAR

- 3.1. The Spear activity should lead to the production by the Commission of evaluation guidelines that include criteria to guarantee the relevance, rigour and independence of the evaluations of Community RTD programmes. These guidelines should be prepared no later than June 1993.
- 3.2. Approximately one horizontal evaluation per year should be performed, and these evaluations should identify potentially significant improvements in the Commission's support mechanisms for R&D.
- 3.3. As a result of the activities of Spear, the Commission's evaluators should be provided with improved tools for the analysis of the management and impact of R&D programmes.

- 3.4. Suitable quantitative indicators should be developed in order to provide a valuable contribution to evaluations.
- 3.5. The activities related to the Spear network should provide a useful support to the evaluation activities of its members and in particular improve the means of evaluating Community programmes.

The programme shall also be evaluated in the light of all the selection criteria set out in Annex III to Decision 87/516/Euratom, EEC which includes that of contributing to the strengthening of the economic and social cohesion of the Community, while being consistent with the pursuit of scientific and technical quality.

COUNCIL DECISION

of 20 June 1989

instituting a specific programme for the research and development of statistical expert systems
(Doses)

(89/415/EEC)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Economic Community, and in particular Article 130 q (2) thereof,

Having regard to the proposal from the Commission ⁽¹⁾,

In cooperation with the European Parliament ⁽²⁾,

Having regard to the opinion of the Economic and Social Committee ⁽³⁾,

Whereas Article 130 k of the Treaty states that the framework programme is to be implemented through specific programmes developed within each activity;

Whereas statistical information can be of use in defining and monitoring economic activity and expansion, one of the tasks assigned to the Community in Article 2 of the Treaty;

Whereas, in its Decision 87/516/Euratom, EEC concerning the framework programme for Community activities in the field of research and technological development (1987 to 1991) ⁽⁴⁾ as amended by Decision 88/193/EEC, Euratom ⁽⁵⁾, the Council approved the development of statistical tools as the objective of the work on 'forecasting and assessment and other back-up measures (including statistics)';

Whereas it is necessary to encourage enterprises to which such an initiative is of relevance, research centres and universities in their research and technological development activities and to support their efforts to cooperate with one another;

Whereas it is desirable to promote basic or applied research whose value for the development of statistics is unquestionable but whose short-term viability is uncertain;

Whereas coordination between Member States makes it possible to limit incompatibilities, overlapping and redundancy;

Whereas it is desirable to further exchanges and transfers of knowledge on statistical expert systems between the Member States;

Whereas, in the present state of development of information systems and in particular statistical systems, the development of statistical tools appears a useful and indeed essential aid to the optimum use of information;

Whereas the enhancement of statistical tools will enable work productivity to be increased;

Whereas it is desirable for statistical information to become more widely used by making access to it easier;

Whereas Decision 87/516/Euratom, EEC stipulates that a particular aim of Community research must be to strengthen the scientific and technological basis of European industry, particularly in strategic sectors of advanced technology, and to encourage industry by making it more competitive at the international level, and whereas the same Decision also lays down that Community action is justified if it contributes, among other things, to the strengthening of the Community's economic and social cohesion and the promotion of its overall harmonious development, while at the same time being consistent with the pursuit of scientific and technical excellence; whereas the Doses programme is planned to contribute to the pursuit of these objectives;

Whereas the Scientific and Technical Research Committee (CREST) has been consulted,

HAS ADOPTED THIS DECISION:

Article 1

A specific programme on research into and the development of statistical expert systems (Doses) for the European Economic Community as defined in Annex I is hereby adopted for a period of four years starting on 27 June 1989.

⁽¹⁾ OJ No C 203, 4. 8. 1988, p. 5.

⁽²⁾ OJ No C 47, 27. 2. 1989, p. 80 and OJ No C 158, 26. 6. 1989.

⁽³⁾ OJ No C 56, 6. 3. 1989, p. 8.

⁽⁴⁾ OJ No L 302, 24. 10. 1987, p. 1.

⁽⁵⁾ OJ No L 89, 6. 4. 1988, p. 35.

Article 2

The funds estimated as necessary for the Community contribution to the execution of the programme amount to ECU 4 million, including expenditure on a staff of one.

An indicative allocation of these funds is set out in Annex II.

Article 3

Detailed rules for the implementation of the programme are set out in Annex I.

Article 4

During the second year of implementation, the Commission shall review the programme and send a report on the results of its review to the European Parliament and the Council. This report shall be accompanied where necessary by proposals for the amendment or extension of the programme.

At the end of the programme, an evaluation of the results achieved shall be conducted by the Commission which shall report thereon to the European Parliament and the Council.

The abovementioned reports shall be established having regard to the objectives set out in Annex I to this Decision and in accordance with Article 2 (2) of Decision 87/516/Euratom, EEC.

Article 5

The Commission shall be responsible for the execution of the programme.

The Commission shall be assisted by a committee of an advisory nature, hereinafter referred to as 'the committee' composed of the representatives of the Member States and chaired by the Representative of the Commission.

Contracts concluded by the Commission shall govern the rights and obligations of each party, in particular arrangements for the dissemination, protection and exploitation of research results.

Article 6

1. The representative of the Commission shall submit to the committee a draft of the measures to be taken. The

committee shall deliver its opinion within a time limit which the chairman may lay down according to urgency of the matter, if necessary by taking a vote.

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

Article 7

1. The Commission is hereby authorized to negotiate, in accordance with Article 130 n of the Treaty, agreements with European third countries and international organizations, in particular the OECD and its member countries and countries participating in European cooperation in the field of scientific and technical research (COST), as well as those having concluded framework agreements in scientific and technical cooperation with the Community with a view to associating them wholly or partly with the programme.

2. Before entering into the negotiations referred to in paragraph 1, the Commission shall consult the Council on the advisability and on the terms of reference of these negotiations and shall take full account of the Council's views.

3. Where framework agreements for scientific and technical cooperation between European third countries and the European Communities have been concluded, organizations and enterprises established in those countries may, under conditions to be laid down in accordance with the procedures set out in Article 6 and on the basis of the criterion of mutual advantage, become partners in a project undertaken within the programme.

Article 8

This Decision is addressed to the Member States.

Done at Luxembourg, 20 June 1989.

For the Council

The President

J. SOLANA MADARIAGA

ANNEX I

PROGRAMME OBJECTIVES AND SUMMARY OF THE WORK PROGRAMME

The actions concern the exploitation of advanced information technologies in the field of statistics: in particular, the application of expert systems technology to the whole chain of statistical data processing.

The actions are oriented to meet Member States' needs for the development of knowledge and expert systems rules, which can constitute the base for the development of expert systems with a Community dimension in the various domains of the statistics field.

The programme shall consist of two parts: Part I comprises the organization of coordinated projects; Part II comprises research and development projects regarded as meriting priority in the field of official statistics and is subdivided into four themes.

PART I

Coordinated projects

This part of the programme deals with the coordination at Community level of activities which are of general interest to the Member States and satisfy the criteria set out below. The Commission shall provide a framework within which projects can be selected on the basis of proposals submitted by the interested parties and financial assistance can be provided for the organization of these projects.

The following are suitable for coordinated projects:

- subjects which are intrinsically international in character,
- problems arising in a similar manner in the various Member States (and possibly within the Commission) which may therefore benefit from a coordinated approach,
- problems which have to be solved for purposes of harmonization,
- problems arising in connection with the processing of confidential data.

The main feature of these projects is that a minimum number of participants coordinate their work in fields of common interest and exchange their findings.

The emphasis will be on projects able to produce results in a relatively short time (two to three years).

PART II

Shared-cost projects

The research will be carried out by means of shared-cost research contracts to be awarded to research bodies, companies and other organizations in the Community. Community financial participation will in principle not exceed 50 % of total expenditure; the rest normally being borne by the contractors. Alternatively, in the case of universities and research institutes carrying out projects, the Community may bear up to 100 % of the additional expenditure involved. Work will be carried out in the following areas:

Theme 1:

Vertical study: preparation of a complete system for automated information processing, from collection to dissemination, in a specific field (as a prototype for other fields and a reference framework for the other themes);

Theme 2:

Documentation of data and statistical methods;

Theme 3:

Access to statistical information;

Theme 4:

Forecasting.

Implementation procedures

Contracts under Part I shall be awarded by means of restricted invitations to tender. Participants will fund their own share of the work to be done and will be informed of all the results.

Contracts under Part II shall be awarded by means of public invitations to tender. They shall involve the participation of at least two partners, who are independent of each other and who may not be established in the same Member State. Public invitation to tender shall be published in the *Official Journal of the European Communities*, and summaries shall be published in the scientific journals specializing in the subject.

ANNEX II**INDICATIVE ALLOCATION OF FUNDS**

	<i>millions of ecus</i>
Part I: Coordinated projects	0,5
Part II: Shared-cost projects	3,0
Staff and administrative costs	<u>0,5</u>
TOTAL	<u>4,0</u>

COUNCIL DECISION

of 20 June 1989

adopting a specific research and training programme for the European Atomic Energy Community in the field of radiation protection (1990 to 1991)

(89/416/Euratom)

THE COUNCIL OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Atomic Energy Community, and in particular Article 7 thereof,

Having regard to the opinion of the European Parliament ⁽¹⁾,

Having regard to the opinion of the Economic and Social Committee ⁽²⁾,

Whereas, by its Decision 87/516/Euratom, EEC ⁽³⁾, as amended by Decision 88/193/EEC, Euratom ⁽⁴⁾, the Council adopted a framework programme for Community activities in the field of research and technological development (1987 to 1991), providing, *inter alia*, for activities dealing with radiation protection;

Whereas the Scientific and Technical Committee has delivered a positive opinion on the programme proposal (1990 to 1991) from the Commission;

Whereas it is in the interest of the Community to supplement and broaden the knowledge and the scientific information needed for an objective study of human exposure to radiation and radioactivity, of the consequences of radiation exposure to man and of the assessment and management of its risks as identified in the document dealing with 'Community research needs in the field of radiation protection for the period 1990 to 1994';

Whereas advanced training, scientific cooperation and exchange of scientists and of scientific information are essential to radiation protection;

Whereas the research covered by this Decision is an appropriate way of pursuing such action,

HAS ADOPTED THIS DECISION:

Article 1

A specific research and training programme for the European Atomic Energy Community in the field of radiation protection, as defined in Annex I, is hereby adopted for a period of two years from 1 January 1990.

Article 2

The funds estimated as necessary for the execution of the programme amount to ECU 21,2 million, including expenditure on a staff of 28.

An indicative allocation of these funds is set out in Annex I.

Article 3

Detailed rules for the implementation of the programme and the Community's rate of financial participation are set out in Annex II.

Article 4

1. After the end of the programme, an evaluation of the results achieved shall be conducted by the Commission, which shall report thereon to the European Parliament and the Council.

2. The report referred to in paragraph 1 shall be established having regard to the objectives and criteria set out in Annex III to this Decision and in accordance with Article 2 (2) of Decision 87/516/Euratom, EEC.

Article 5

1. The Commission shall be responsible for the execution of the programme and shall be assisted in the implementation by the Management and Coordination Advisory Committee (CGC) on Radiation Protection, set up by Decision 84/338/Euratom, ECSC, EEC of 29 June 1984 dealing with structures and procedures for the management and coordination of Community research, development and demonstration activities ⁽⁵⁾.

2. Contracts concluded by the Commission shall govern the rights and obligations of each party, in particular arrangements for the dissemination, protection and exploitation of research results.

Article 6

This Decision is addressed to the Member States.

Done at Luxembourg, 20 June 1989.

For the Council

The President

J. SOLANA MADARIAGA

⁽¹⁾ OJ No C 158, 26. 6. 1989.

⁽²⁾ OJ No C 159, 26. 6. 1989.

⁽³⁾ OJ No L 302, 24. 10. 1987, p. 1.

⁽⁴⁾ OJ No L 89, 6. 4. 1988, p. 35.

⁽⁵⁾ OJ No L 177, 4. 7. 1984, p. 25.

ANNEX I

PROGRAMME CONTENTS AND INDICATIVE INTERNAL ALLOCATION OF FUNDS

	<i>Indicative allocation of funds, including staff and administrative expenses (millions of ecus)</i>
A. HUMAN EXPOSURE TO RADIATION AND RADIOACTIVITY	7,4
1. Measurement of radiation dose and its interpretation	
1.1. Development and implementation of standards and procedures linked to the concepts of dose-equivalent quantities for both external and internal exposure	
1.2. Radiation and instrumentation for individual and area dosimetry	
1.3. Derivation of organ doses and effective dose equivalent	
1.4. Assessment of internal exposure	
2. Transfer and behaviour of radionuclides in the environment	
2.1. Environmental behaviour of radionuclides in situations meriting particular attention for long-term behaviour or post-accident conditions	
2.2. Natural radioactivity in the environment and its pathways to man	
2.3. Influence of speciation, chemical modification, changes in physico-chemico properties and biological conversion, particularly with respect to:	
— long-lived fission and corrosion products,	
— actinides, tritium, e.g. reduction of hydrogen gas and transformation of inorganic into organically bound tritium, and	
— effluent from radiopharmaceutics or nuclear medicine.	
2.4. The behaviour of accidentally released radionuclides evaluation of the reliability of transfer parameters and experimental studies.	
2.5. The role of retention and release of radionuclides in natural ecosystems, such as forests, moorland, swamps, marshlands, water bodies and in marginal agricultural areas.	
2.6. Development of countermeasures to reduce the contamination in the environment and to impede its transfer to man.	

*Indicative allocation
of funds, including
staff and administrative
expenses
(millions of ecus)*

B. CONSEQUENCES OF RADIATION EXPOSURE TO MAN; THEIR
ASSESSMENT, PREVENTION AND TREATMENT

7,4

1. Stochastic effects of radiation

1.1. Interpretation of low dose and low dose rate effects with the help of microdosimetry

1.2. Repair and modification of genetic damage and individual radiosensitivity

1.3. Cellular, molecular and animal studies to determine the risk of stochastic somatic effects of radiation with respect to low dose, low dose rate and radiation quality

1.4. Assessment of genetic risks in man

1.5. Action of radionuclides on target cells in relation to radionuclide metabolism and studies on biological models for radionuclide-induced cancer, particularly of lung, bone, liver

2. Non-stochastic effects of radiation

2.1. Radiation syndromes and their treatment after exposure of large parts of the body

2.2. Irradiation and committed exposure from incorporated radionuclides

2.3. Radiation syndromes and their treatment after local exposure to skin and subcutaneous tissues

2.4. Radiation damage to lens, thyroid and other tissues of relevance in radiation protection

3. Radiation effects on the developing organism

	<i>Indicative allocation of funds, including staff and administrative expenses (millions of ecus)</i>
C. RISKS AND MANAGEMENT OF RADIATION EXPOSURE	6,4
1. Assessment of human exposure and risks	
1.1. Evaluation and statistics of the different types of human exposure	
1.2. Exposure to natural radioactivity and evaluation of parameters influencing these risks	
1.3. Comparative assessment of exposure and risks	
1.4. Epidemiological studies in human populations	
2. Optimization and management of radiation protection	
2.1. Optimization and radiological protection	
2.2. Reduction of patient exposure in medical diagnostic radiology	
2.3. Management of radiological protection in normal and accident situations	
2.4. Probabilistic risk assessment and real-time models for assessing the consequences of accidental releases of radioactivity and for evaluating effectiveness and feasibility of countermeasures	
TOTAL	<u>21,2</u> ⁽¹⁾

(¹) Of which approximately ECU 5,87 million are attributed to staff and administrative expenses.

ANNEX II

IMPLEMENTATION OF THE PROGRAMME AND THE COMMUNITY'S RATE OF FINANCIAL PARTICIPATION

The programme consists of activities carried out by means of shared-cost research contracts with competent public or private research organizations established in the Member States.

In addition to shared-cost research contracts, the programme may also be carried out by means of study contracts and coordinating actions. Particular emphasis will be placed on awards for training and mobility grants. Such contracts and grants will, where appropriate, be awarded following a selection procedure based on calls for proposals published in the *Official Journal of the European Communities*.

Participants in shared-cost contracts may be from public or private research organizations, including universities, established in the Community. Each contractor will be expected to make a significant contribution to projects. The contractor will be expected to bear a substantial proportion of the costs, 50 % of which will normally be borne by the Community. Alternatively, in respect of universities and similar organizations carrying out projects under this programme, the Community may bear up to 100 % of the additional expenditure involved.

Shared-cost research projects should normally be carried out by participants from more than one Member State.

The Commission shall distribute, in all Community languages, information packs to accompany the invitation to participate in order to guarantee equal opportunities for the enterprises, universities and research centres in the Member States.

The information resulting from the implementation of the shared-cost activities shall be made accessible on an equal basis to all Member States. Licences and/or other rights developed in the framework of the programme will be subject to Community rules, and taking into account contractual arrangements.

ANNEX III

PROGRAMME OBJECTIVES AND EVALUATION CRITERIA

The radiation protection programme (1990 to 1991) represents a part of the Community research needs in the field of radiation protection for the period 1990 to 1994, outlined in the Commission's communication (COM(88) 789 final) and aims, by means of a cooperative European research effort, to provide:

- the scientific basis for the continued updating of the Basic Safety Standards for the health protection of the general public and workers against dangers of ionizing radiation and the stimulus for the continued development of radiation protection philosophy and concepts in all Member States, taking into account relative experience in Member States,
- the scientific knowledge needed to assess the carcinogenic and genetic risks to workers and the general public from exposure to low doses and low dose rates of radiation of different quality arising from natural radiation, medical diagnostic radiology and nuclear industry,
- the methods to assess risks from radiation accidents as well as the rationales and techniques for the implementation of countermeasures,
- the information necessary to expand radiation protection concepts and practices in response to demands created, for example by innovative applications of radiation in medicine and industry,
- the objective scientific background to help the relevant national authorities reach rational decisions on the operation of the nuclear industry, on the development of environmental criteria for radioactivity on the management of rare emergency situations, and on the objective information to be given to the public about risks and benefits,
- the incentive and the support for cooperation between scientists and research institutions from the different Member States, and the advanced training necessary to maintain competence in the Community, including improved and comprehensive training of young scientists in the field of radiation protection,
- efficient use and documentation of the knowledge acquired under this and previous Community radiation protection programmes which could contribute to a better common understanding of the scientific issues and lead to improved information to the general public on these matters.

The extent to which the programme attains the above objectives will be evaluated by independent experts in accordance with the Community plan of action relating to the evaluation of Community research and development activities.

The major evaluation criteria for the programme are:

- its scientific and technological contribution to the radiation protection policy of the Community,
- the relevance of the results of the research carried out in the programme for the continued updating of the Basic Safety Standards for the health protection of the general public and workers against dangers of ionizing radiation and for the theoretical foundation of radiation protection and its practical applications,
- the scientific originality of the work, its relevance for the assessment of risks, in particular from low dose and dose rate exposure to natural, medical and man-made sources, and its contribution to the assessment and management of risks of radiation accidents,
- the ways by which information from the programme has provided protection concepts and practices in response to demands created by new applications of radiation and has helped relevant national authorities to reach rational decisions on radiation protection in normal and emergency situations,
- its role in the dissemination of knowledge,
- the extent to which the programme has contributed to cooperation among Member States' laboratories, has helped the advanced training of scientists and has promoted dissemination of scientific knowledge in radiation protection,
- the efficiency of the management.

In addition, the criteria set up for the 1988 to 1989 revision ⁽¹⁾ should also be considered:

- whether a significant contribution has been made to the development of more cost-effective techniques to prevent and counter harmful effects of radiation, especially those occurring as a result of hypothetical accidents taking into account the Chernobyl situation. In particular whether:
 - the reliability of long distance atmospheric transfer models has been improved,
 - improved data and models on the transfer of radionuclides in the food chain have been obtained,
 - the feasibility of epidemiological studies on health effects in the population has been demonstrated or rejected,
 - the radiological consequences of nuclear accident scenarios have become better understood,
 - the scientific basis of the underlying data for derived emergency reference levels has been developed,
 - practical countermeasures with respect to the agricultural and aquatic environment, the urban environment and preventive medication have been improved,
 - better methods for monitoring and surveillance in accidental situations have been found,
 - the treatment methodologies and diagnosis of exposed persons have advanced.

⁽¹⁾ OJ No L 16, 21. 1. 1988, p. 44.