

調査資料

欧州の主要情報技術プロジェクト

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先端情報技術研究所



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入手した基礎資料やデータを取りまとめたものである。

KEIRIN



この事業は、競輪の補助金を受けて実施したものです。

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第1章 欧州における情報技術振興プログラムのまとめ

Summary of IT Promotion in Europe

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Summary of IT Promotion in Europe

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Major Sources of European IT Promotion

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Overview of Programs

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Appendix: Program Profiles

欧州における、情報技術産業の競争力強化を目的とした技術振興プログラムについて調査を実施した。

Scope of Study

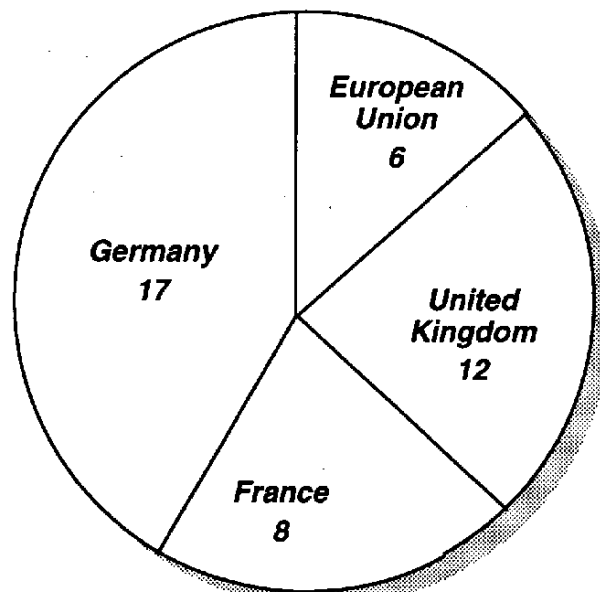
- Programs on European Union level
- Programs on national level in
 - United Kingdom
 - Germany
 - France
- Purpose of programs
- Supported industries
- Type of support
- Duration of programs
- Budgets of programs

Methodology

- This study is based on research and analysis of the Arthur D. Little offices in
 - Palo Alto, USA
 - London, U.K.
 - Paris, France
 - Berlin, Germany
- The information were compiled through
 - Analysis of program descriptions
 - Interviews with government officials
 - Assessment of databases
 - Review of public statements

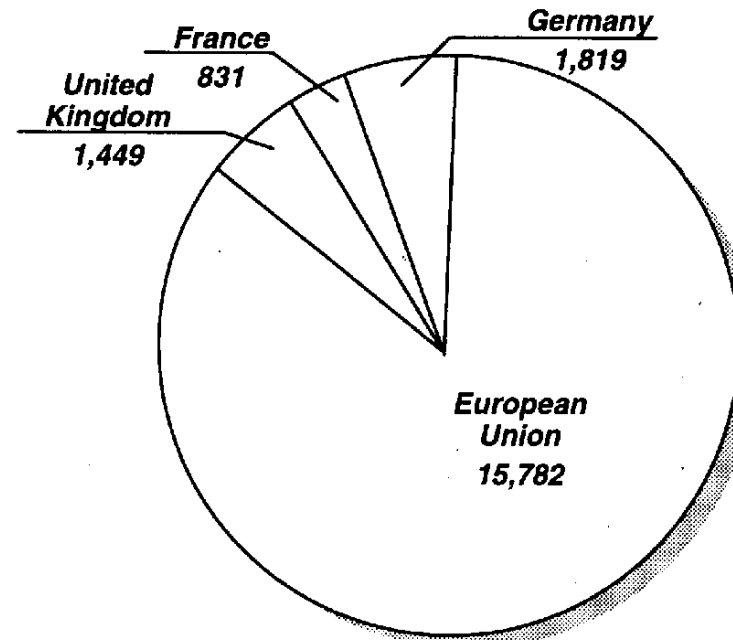
本調査より43個の情報技術産業の振興プログラムをドイツ、フランス、英国、EUにおいて確認した。

Number of Programs



Total number of programs examined:
43

Budget Sums in US\$ Million



Total budget examined:
US\$ 19,880 million

情報技術産業振興に貢献しているプログラムとしては、情報技術産業だけを対象としたものと、産業全般を対象としたものの2種類がある。

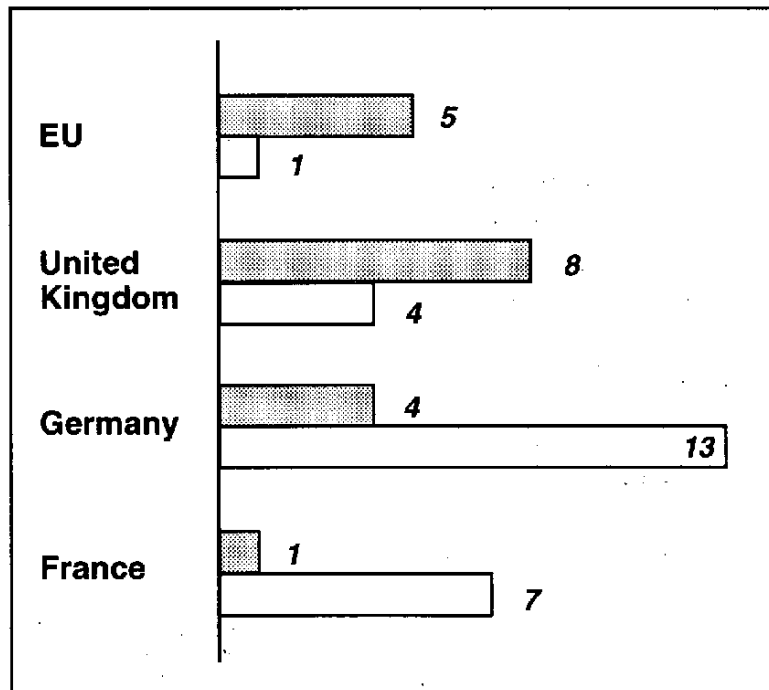
IT Dedicated or General-Purpose?

| | Programs dedicated to IT industries | General-purposed programs |
|----------------------------------|--|--|
| Description | Initiatives by the government to support and promote IT or related industries / purposes only . The target group is a clearly restricted community . | Government promotions for companies from all industries, intentionally committed to a very broad spectrum of purposes (e.g. pan European collaboration). The addressable target group is a very broad community (e.g. SMEs) ¹⁾ |
| Examples for each country | EU: ACTS Advanced Communications Technology and Services F: RENATER G: Microsystems Technologies U.K.: Foresight Initiative | EU: EUREKA ! F: API - Innovative Projects AID G: BTO Program U.K.: Information Society Initiative |

1) Small/medium enterprises

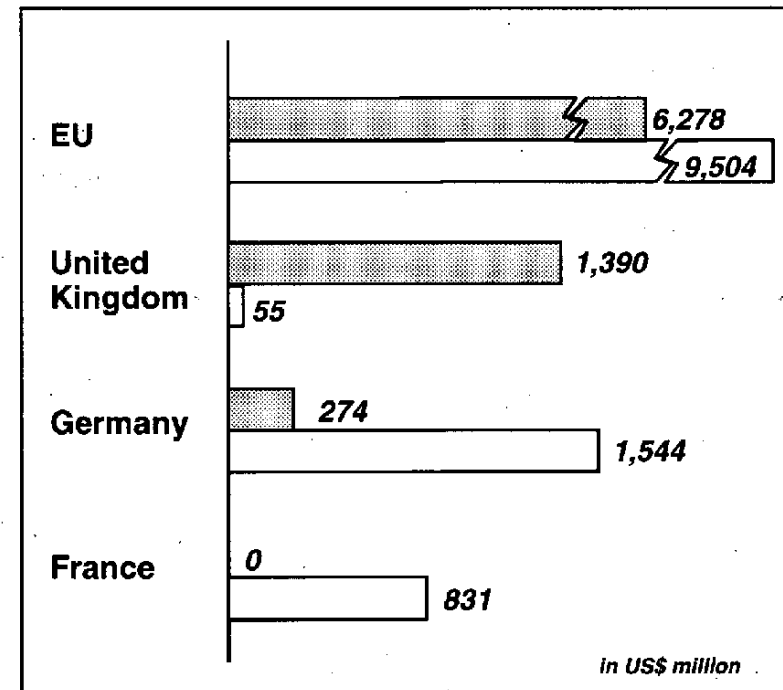
英国を除いた欧州では情報技術産業の振興には産業全般を対象とした振興プログラムが主となっている。

Number of Programs



Total number of programs examined:
43

Budget of Programs



Total budget examined:
US\$ 19,880 million

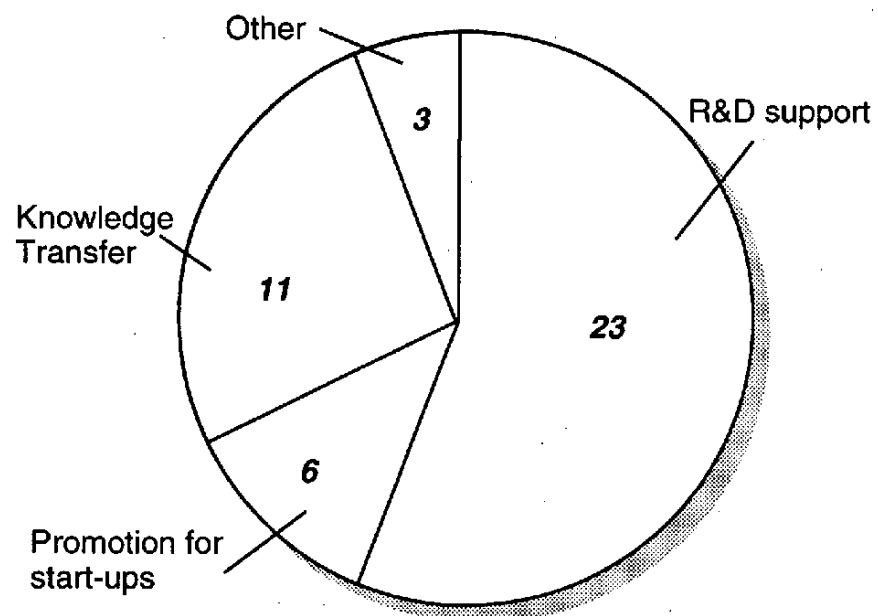
IT dedicated General purpose

欧州での情報技術産業の振興プログラムには3つの主要な目的がある。R&Dプロジェクトの支援、知識/技術のトランスファー、起業の促進である。

| Purpose of Government Promotions for IT Industry | | |
|--|--|---|
| Purpose | Description | Examples |
| Support for R&D projects | Enhancement of technological basis for: <ul style="list-style-type: none"> • IT product innovations • use of IT in companies | EU: ESPRIT 4 F: APTE Technological Partnership Aid G: ERP Innovation Programme U.K.: Smart |
| Knowledge/technology transfer | Commercialization of research findings: Know-how exchange from universities to business as well as networking and joint development among SMEs | EU: EUREKA! F: SRC, Research Companies under contract G: BTU Participation program U.K.: Foresight |
| Promotion for start-ups | Used to promote structural changes in national industries and regions as well as to strengthen competitiveness in certain industrial areas and stimulate innovation. | G: FUTOUR U.K.: Information society initiative |
| Other | Contains further targets such as hiring, modernisation or market / industry expansion | F: RENATER G: Industrial cooperation and development |

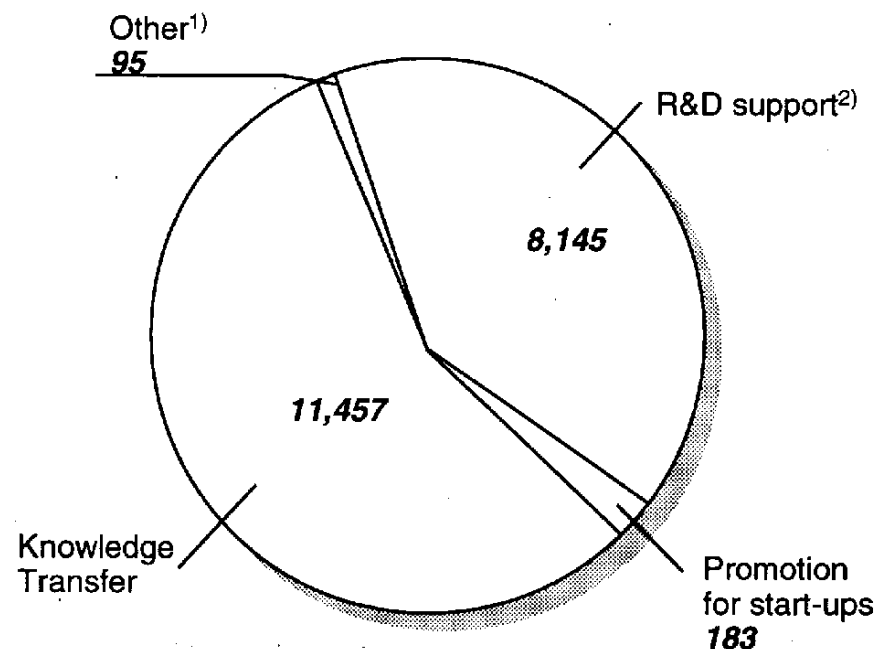
プログラムの数ではR&Dプログラム支援が最も多いが、予算上では知識/技術のトランスファーに最も大きく割り当てられている。

Number of Programs



Total number of programs examined:
43

Budget of Programs



Total budget examined:
US\$ 19,880 million

1) includes: hiring/modernisation (US\$ 95 million) and expansion

2) note: Total KfW's budget (Germany) split 50:50 among R&D (US\$ 418.5 million) and knowledge transfer (US\$ 418.5 million)

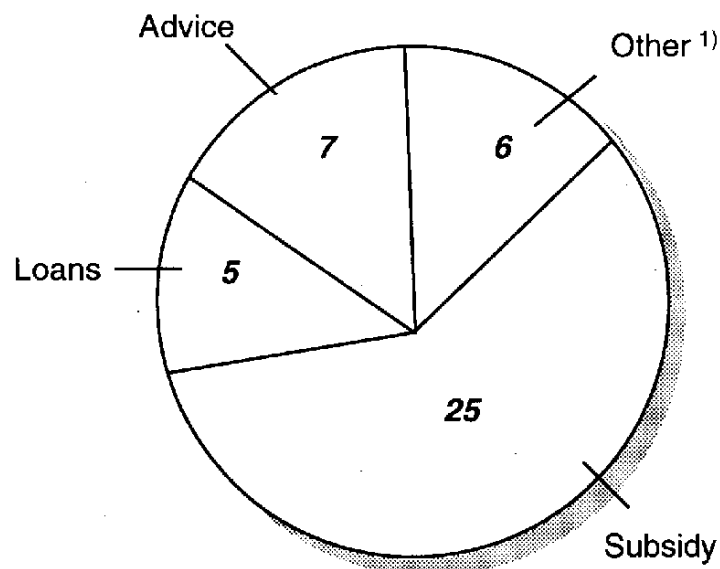
欧州政府の情報技術産業の振興プログラムを形式で分類すると4種類に分けられる。補助金、貸付金、コンサルティング、その他に分類される。

Types of Government Promotions for IT Industries

| Type | Description | Example |
|---------|--|---|
| Subsidy | Non-repayable cash infusion (typically through high budgeted framework programs) for specified purpose. Usually reports on progress required | Framework Program "Production 2000" (Germany) |
| Loan | Cash infusion that needs to be repaid within a specified time frame (up to ten years, with or without interest) | API Innovative Projects Aid (France) |
| Advice | Professional consulting service available for specified purposes or companies (free of charge) and paid for by the granting institution. | Time to Market (U.K.) |
| Other | Contains incentives like infrastructure provision, participation models, venture capital funds, tax incentives, etc. | RENATER (infrastructure provision, France) |

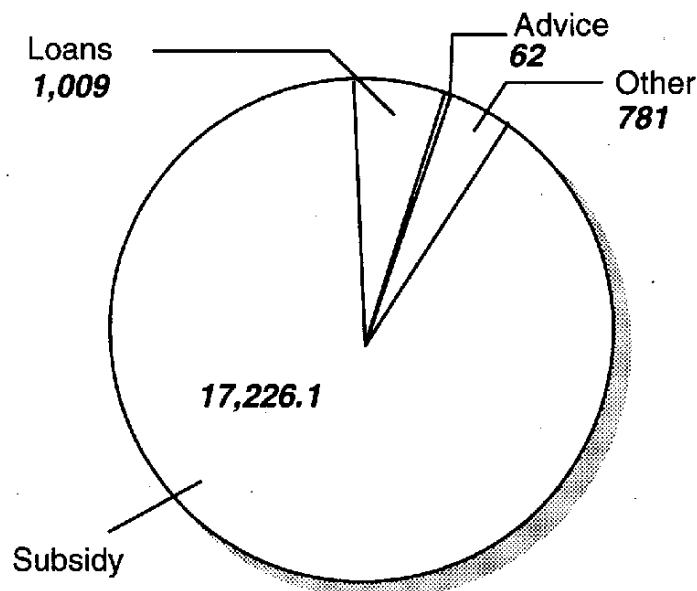
プログラムの数、予算上ともに補助金の形をとっている振興プログラムが最も多い。

Number of Programs



Total no. of programs evaluated:
43

**Budget of Programs
in US \$ million**



Total budget examined:
US \$ 19,880 million

Note: rounded figures

1) Other: tax incentives, infrastructure provision, participation, venture capital, capital funding

情報技術産業振興の主要な政府機関は下記となる。

European Union

- European Commission

Germany

- Kreditanstalt für Wiederaufbau
(Government Loan Institution)
- BMBF
(Department for Education and Research)
- BMWI
(Department for Commerce)

France

- MNERT
(Department for Education,
Research and Technology)
- MEFI
(Department for Economy,
Finance and Industry)

United Kingdom

- Department of Trade and Industry

第2章 主な欧州情報技術振興プログラム

Major Sources of European IT Promotion

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Summary of IT Promotion Europe

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Major Sources of European IT Promotion

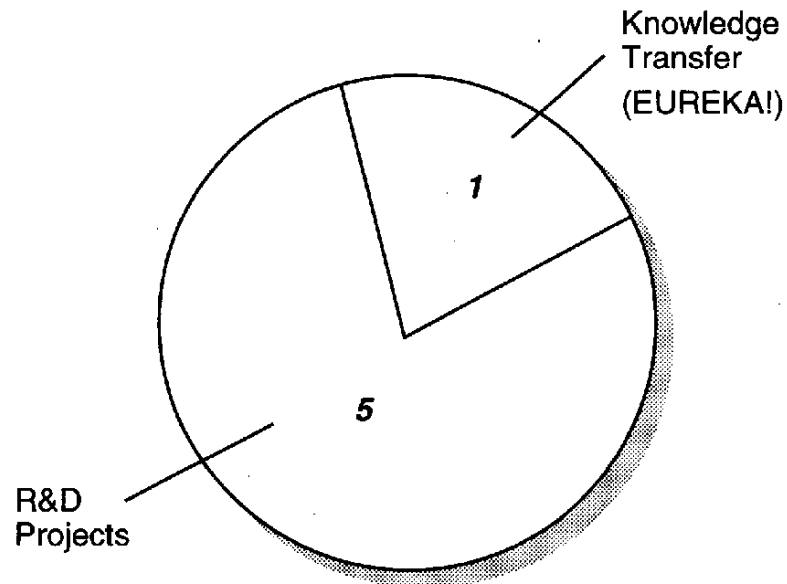
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Overview of Programs

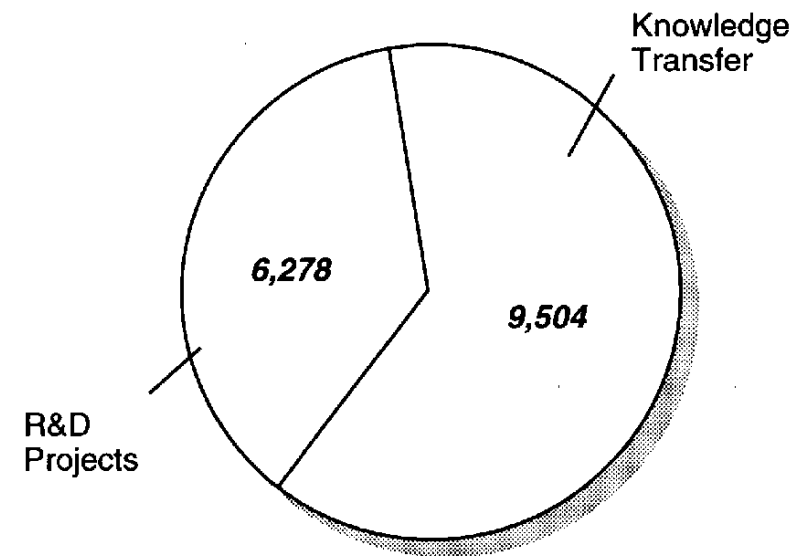
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Appendix: Program Profiles

知識/技術トランスファー型の1プログラム(EUREKA!)だけで調査したEUレベルの振興プログラムの60%の支出を占めている。プログラムはすべて補助金の形をとっている。

Number of Programs

Total no. of EU programs examined:
6

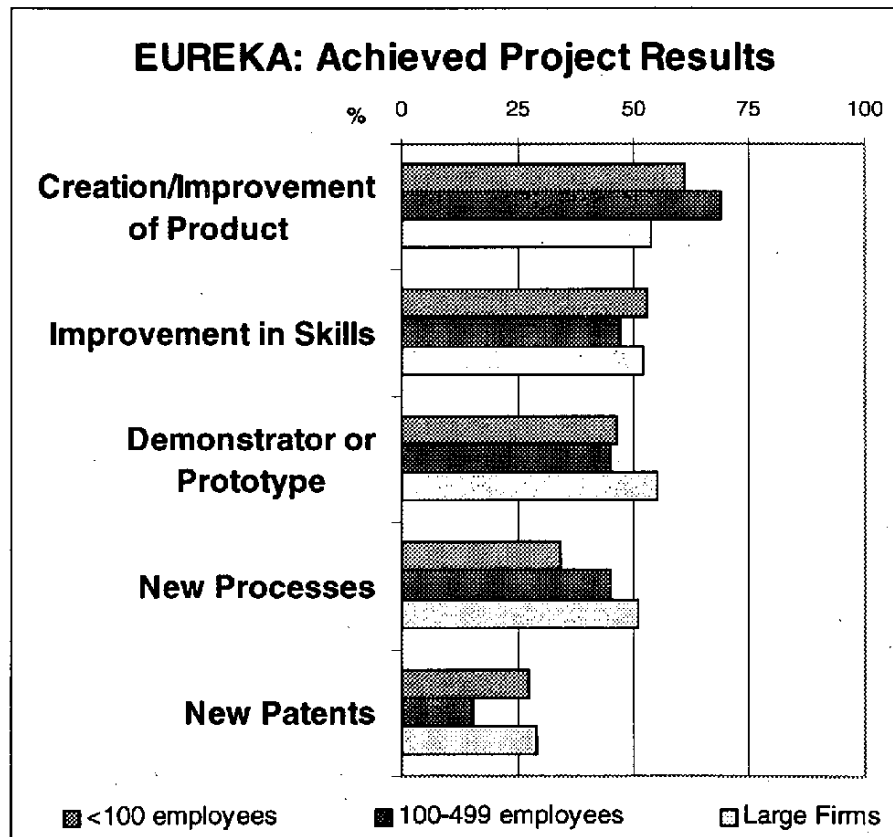
**Value of Program
in US \$ million**

Total Value of EU programs examined:
US \$: 15,782 million

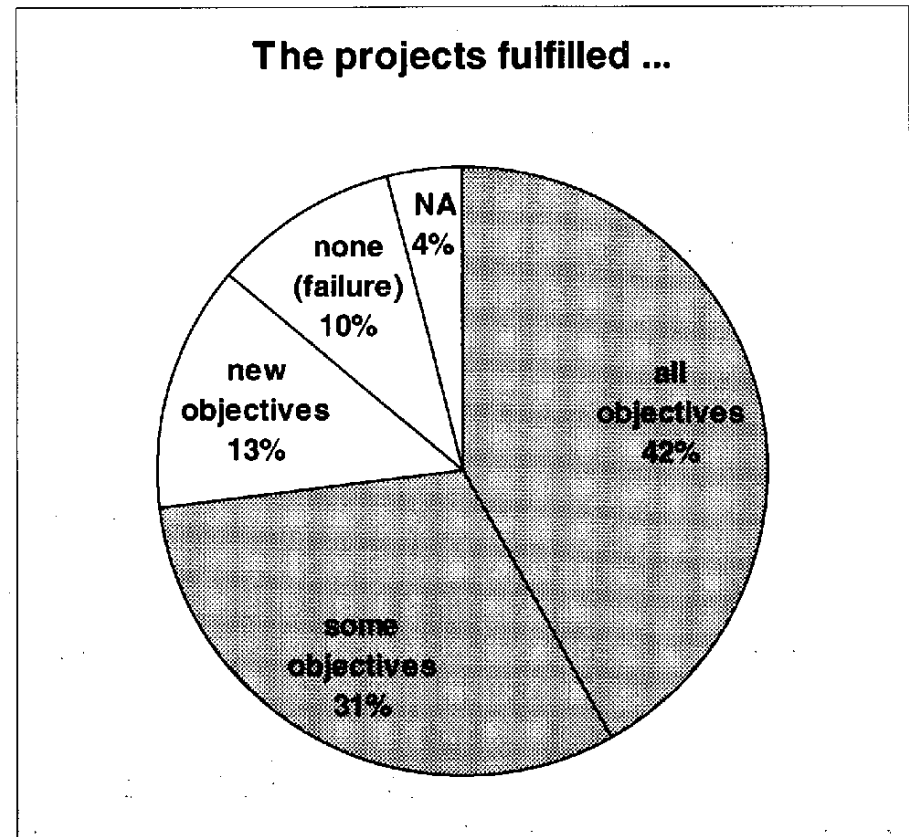
EUレベルの振興プログラムではEU commissionが唯一の担当機関である。

- All EU promotion programs are handled through the referring directorates (for an overview see next page). Each industry directorate coordinates the EU's activities in that area and is also responsible for the referring industry promotion programs.
- Compared to the number of directorates, there are only few, but relatively high budgeted promotion programs compared to national programs. The promotion through the EU directorates therefore usually targets at a clearly defined community of small and medium sized, innovative industry enterprises.
- An example for a more general promotion, however, is given by the program EUREKA!, which - at a European scale - is intended to stimulate the European industrial productivity and economic growth by encouraging cooperation between high tech industry and research institutes.
- The funds for promotions are fed through the EU member countries according to their economic size. Germany is the biggest net creditor within the member countries

73% のEurekaプロジェクトは成果を残している。その多くが製品イノベーションでの成果である。



Source: Eureka assessment survey of finished and withdrawn projects (1995)



26個の委員会の内の2つが情報技術振興の評価に関係している。

Directorate-General I - External Relations: Commercial policy and relations with North America, the Far East, Australia and New Zealand

Directorate-General IA - External Relations: Europe and the new independent States, common foreign and security policy and external missions

Directorate-General IB - External Relations: Southern Mediterranean, Middle East, Latin America, South and South-East Asia and North-South cooperation

Directorate-General II - Economic and Financial Affairs

Directorate-General III - Industry

Directorate-General IV - Competition

Directorate-General V - Employment, Industrial Relations and Social Affairs

Directorate-General VI - Agriculture

Directorate-General VII - Transport

Directorate-General VIII - Development (external relations and development cooperation with Africa, the Caribbean and the Pacific - Lomé Convention)

Directorate-General IX - Personnel and Administration

Directorate-General X - Information, Communication, Culture and Audiovisual Media

Directorate-General XI - Environment, Nuclear Safety and Civil Protection

Directorate-General XII - Science, Research and Development Joint Research Centre

Directorate-General XIII - Telecommunications, Information Market and Exploitation of Research

Directorate-General XIV - Fisheries

Directorate-General XV - Internal Market and Financial Services

Directorate-General XVI - Regional Policy and Cohesion

Directorate-General XVII - Energy

Directorate-General XIX - Budgets

Directorate-General XX - Financial Control

Directorate-General XXI - Customs and Indirect Taxation

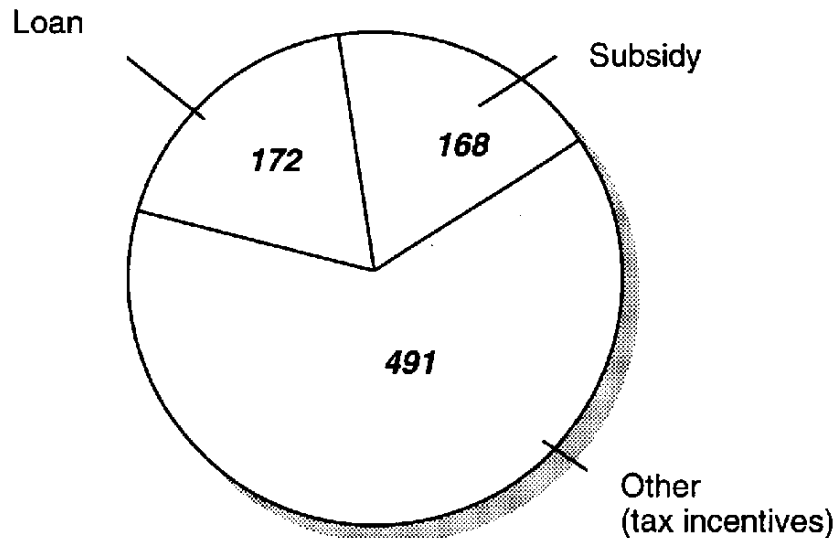
Directorate-General XXII - Education, Training and Youth

Directorate-General XXIII - Enterprise Policy, Distributive Trades, Tourism and Cooperatives

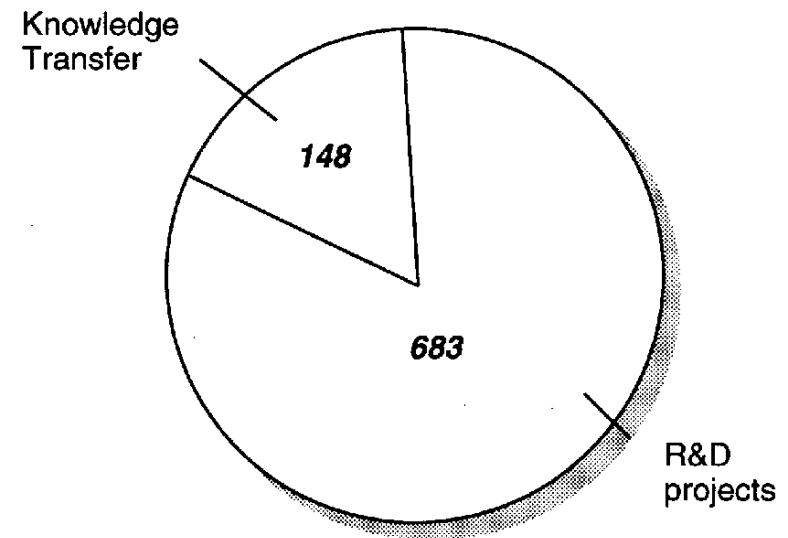
Directorate-General XXIV - Consumer Policy and Consumer Health Protection

フランスではタックスインセンティブ(US \$ 491 million相当)が最も重要な振興プログラムとなっている。

**Type of Program
by Value in US \$ million**



**Purpose of Program
by Value in US \$ million**



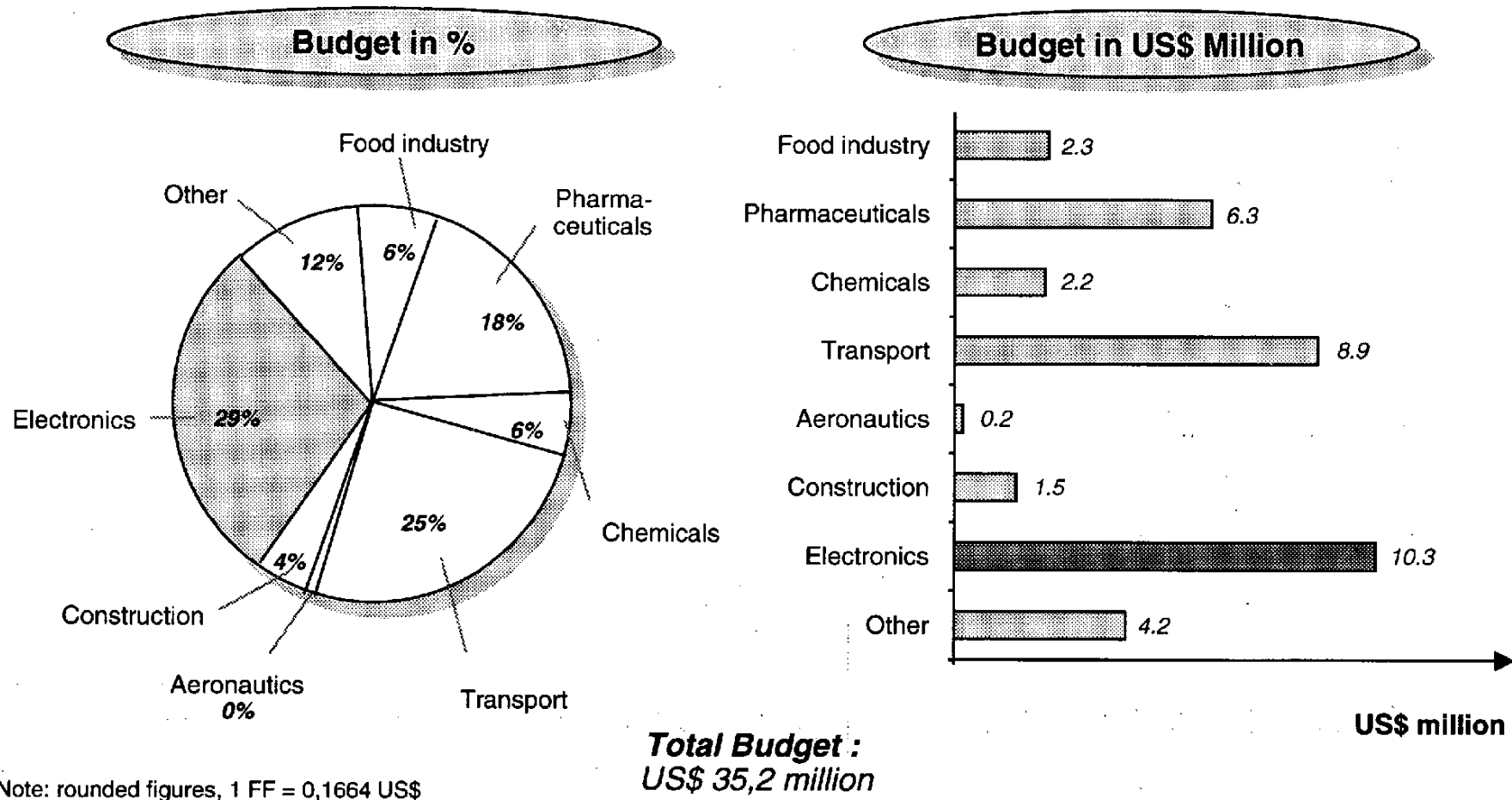
Total Value of French programs examined:
US \$: 831 million

フランスでは3つの主要な政府担当機関が情報技術産業の振興に関与している。

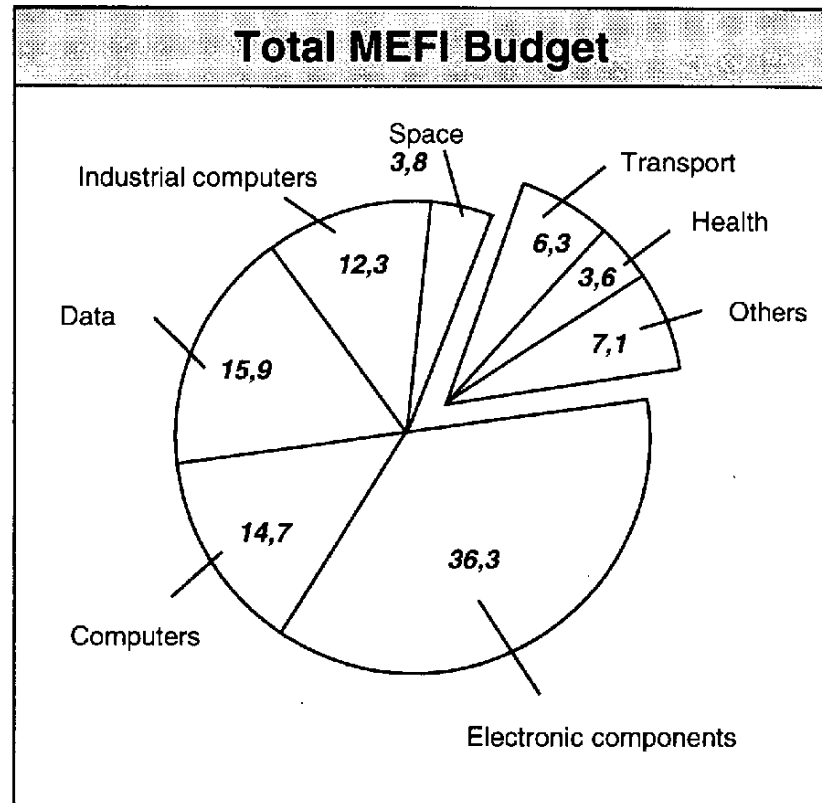
- ***The Ministry of National Education, Research and Technology - MNERT*** with an overall budget of US\$ 35.5 millions in 1996 in which electronics and computers sector accounts for 29% of the amounts granted
- ***The Ministry of Economy, Finance and Industry - MEFI*** with an overall budget of US\$ 359.8 millions in 1996 in which electronics and computers sector accounts for 83% of the amounts granted
- ***The National Agency for the Valuing of Research - ANVAR*** with an overall budget of US\$ 217.8 millions in 1996 in which electronics and computers sector accounts for 24% of the amounts granted

Source : Ministry of Economy, Finance and Industry

MNERTは1996年度においてUS\$35.6millionsの予算のうち、エレクトロニクスとコンピューター産業にたいしてその29%を割り当てた。

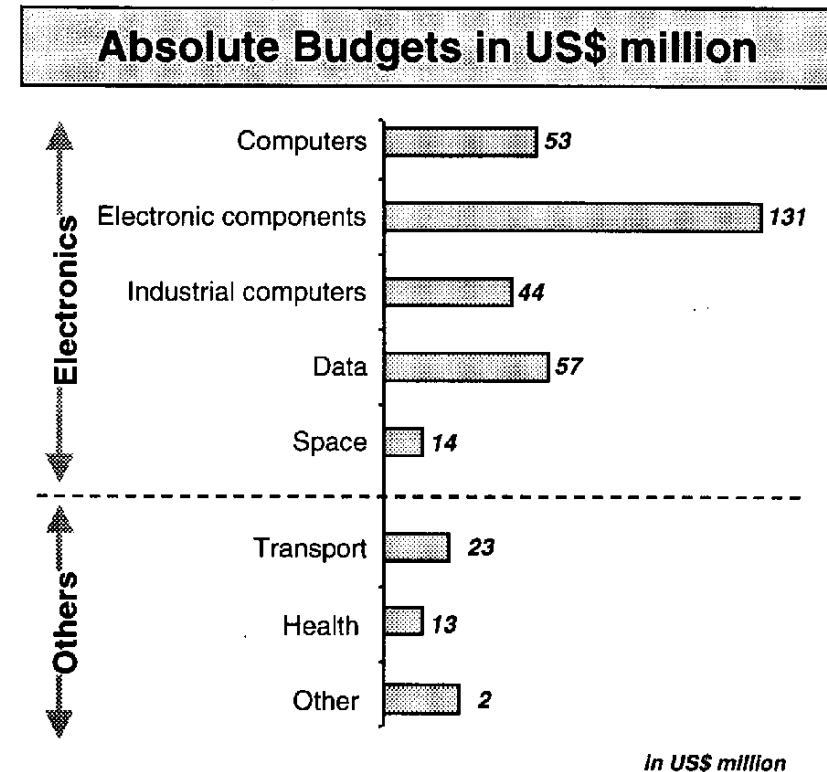


MEFI は1996年度にUS\$ 359.8 millionsの予算の内83%をエレクトロニクスとコンピューター産業に割り当てた。



Total Industry Budget = US\$ 359.8 million

Note: rounded figures, 1 FF = 0,1664 US\$



Electronics Budget = US\$ 298.7 million

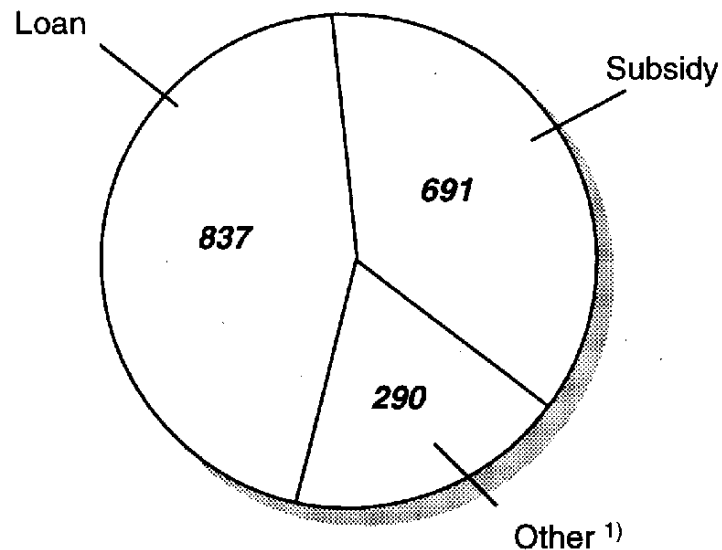
Others Budget = US\$ 61.1 million

Notes

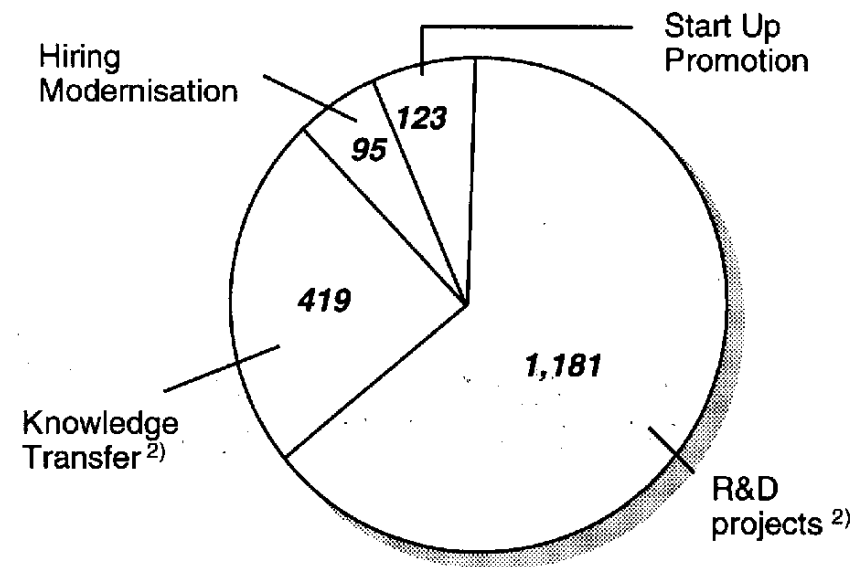
- フランスでは政府の振興プログラムは特定の産業に特化したものではない。政府または公的機関は産業全般を対象としたR&Dの支援や職の創造を通じて産業振興支援をしている。

ドイツにおける振興プログラムの大半はR&Dプログラムへの貸付金である。

**Number of Programs
by Value in US \$ million**



**Purpose of Program
by Value in US \$ million**



Total Value of German programs examined:
US \$: 1,818 million

1) Equity Participation programs: US \$ 289.9 million

2) Promotions from KfW flow both into R&D and knowledge transfer projects.

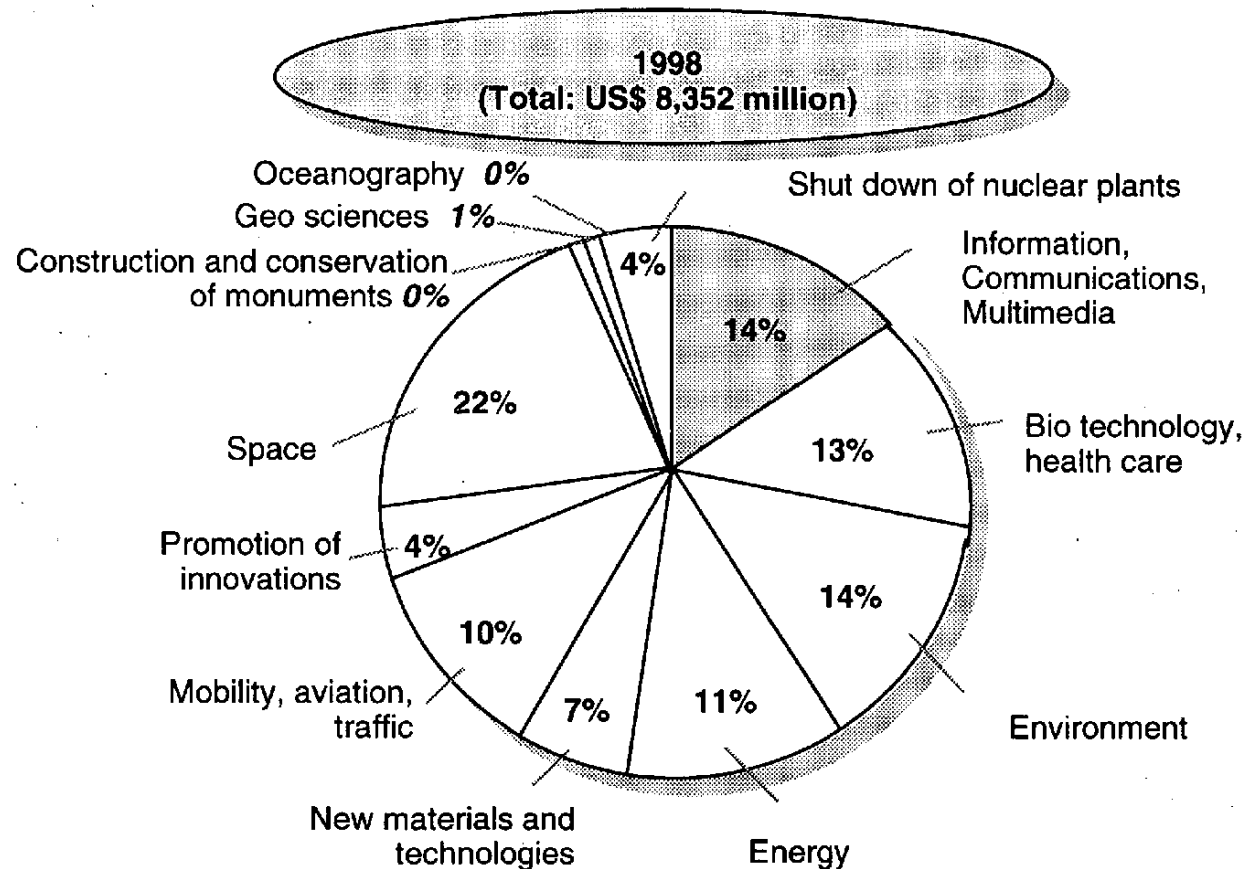
KfW's budget (US \$ 837 million) split 50:50 among R&D (US\$ 418.5 million) and knowledge transfer (US\$ 418.5 million)

ドイツにおける振興プログラムの資金源は3種類ある。

- ***The Capital Market*** - Promotions from this source are granted in form of repayable participations either by the Kreditanstalt für Wiederaufbau (government owned bank) or Technologie-Beteiligungsgesellschaft (a subsidy of deutsche Ausgleichsbank, another government owned bank).
- ***The Ministry of Education and Research*** - BMBF's promotion budget of 1997 totalled US\$ 8,278.2 million (US\$ 8,352 million planned for 1998 - for promotion details see BMBF promotion program chart) and is distributed through promotion programs by several research agencies, associations and foundations or the Ministry itself. The promotions are usually given in form of repayable subsidies or loans.
- ***The Ministry of economics*** - BMWi's budget totalled US\$ 9,278 million in 1997 (US\$ 8,979 million planned for 1998), of which ca. US\$ 837 million was promotion budget. Only US\$ 9.8 million was clearly dedicated to IT promotion.

Source : BMBF, BMWi

BMBFの1997年度の振興プログラム予算はUS\$ 8,278 millionにのぼる。(1998年度の計画はUS\$ 8,352 million)



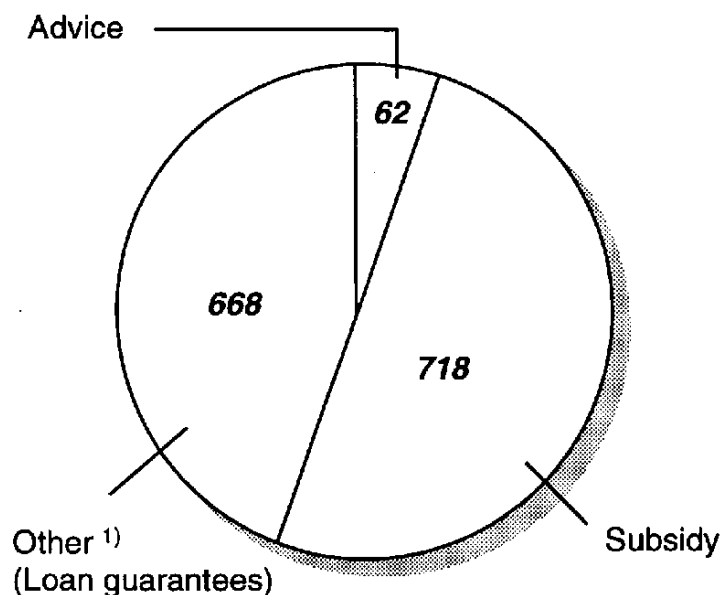
なるべく多くの企業を支援するために振興プログラムの対象はかなり広い範囲を含む。
しかしながら2つの主要な対象となるグループがある:

- **Small/medium enterprises** - SMEs are object to promotion through all industries, because there is a political initiative to fortify the economic basis for medium sized companies ("Mittelstandsinitiative"). If budgets for one specific promotion program are exhausted, promotion is granted through other promotion programs which still hold money. Criteria for promotion are checked very thoroughly by the granting institution.
- **Innovative companies** - Innovative companies are the second core of promotion, both as start ups or as settled companies in a specific segment (not older than 10 years). The segments of promotion are those listed in the BMBF chart (information, communications, multimedia, bio technology, new materials, to mention just a few). Promotion programs for innovators usually support their R&D expenditure and market entry costs

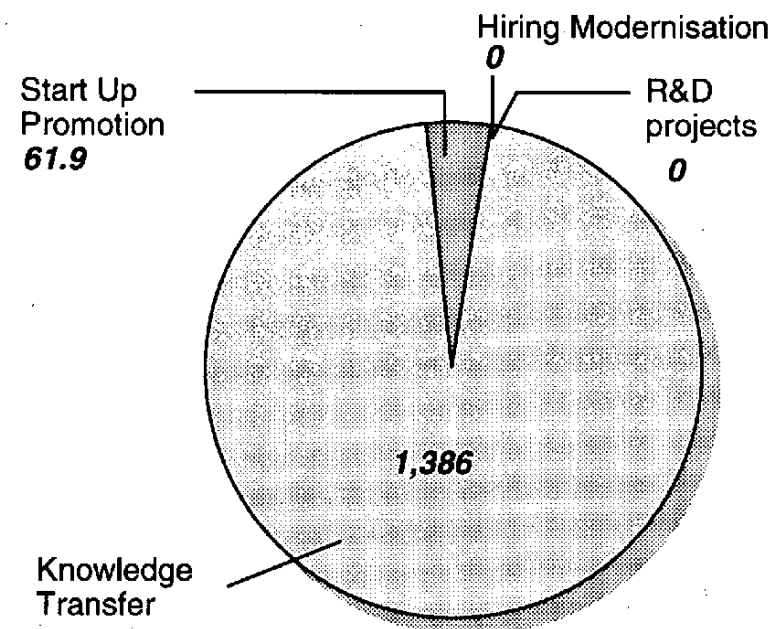
Source : BMBF, BMWi

英国では知識/技術のトランスファーが最も重要な振興プログラムの目的となっている。
金額的には補助金と貸付金の形式をとっているものが主である。

**Type of Program
by Value in US \$ million**



**Purpose of Programs
by Value in US \$ million**



Total Value of U.K. programs examined:
US \$: 1,448.5 million

1) Infrastructure support US \$ 207,047; financial grants US \$ 667.9 million; capital funding N/A

英国ではDepartment of Trade and Industry (DTI)が情報技術振興を支援している
主要な政府担当機関である。

- The DTI has responsibility for developing and coordinating government policy on science, engineering and technology, and for encouraging innovation and the increased use of science and technology by business
- The U.K. government believes combining both functions, coordinating policy and encouraging technology, they “can ensure that they have the maximum impact on U.K. competitiveness and quality of life”

Source : BMBF, BMWi

DTIは Office of Science and Technology を通じてBusiness and innovation イニシアティブにより情報技術振興を支援している。

- The office of science and technology the DTI works to maintain excellence in all aspects of science, engineering and technology and improve public understanding of its contribution
- Through business and innovation initiatives the DTI aims to stimulate innovation and encourage best practice to help companies access and exploit new technology.
- There are a very large numbers of research councils, regional development bodies and initiatives to support IT development but all come under the DTI umbrella which is in overall control of policy

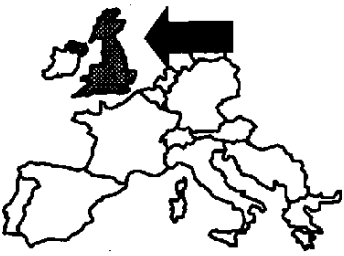
Source : BMBF, BMWi

英国政府が支援する情報技術振興プログラムは3つの領域に入る企業を対象としている。

- Any company which wants to develop its use of technology and its collaboration with the U.K. research base of academic institutions, research bodies and private R&D facilities
- New business and small enterprises who need help to get started and grow
- Companies in the less highly developed regional areas of the U.K. such as Scotland, Wales and Northern Ireland.

Source : BMBF, BMWi

LINKは英国において大学と企業間での知識/技術のトランスファーを促進する為のプログラムである。

| | | | |
|--|---|---|--|
|  | <i>Geographic Entity</i> U.K. | <i>Source of funds:</i> U.K. Government <i>Granting institution:</i> DTI various government departments and Research Councils and industry | |
| <i>Program name:</i> LINK (Part of Foresight Initiative) | | <input checked="" type="checkbox"/> IT-dedicated <input type="checkbox"/> General purpose | |
| <i>Industry sector supported:</i> Information technology, electronics and communications technology (56 LINK programmes covering wide range of technology, including IT, electronics and communications) | | <i>Eligible recipients:</i> All U.K. companies (particularly small and medium firms) in collaboration with U.K. research base partners | |
| <i>Kind of program:</i> Subsidy | | <i>Purpose of program:</i> Knowledge transfer (between business, academia and government) | |
| <i>Duration of overall program:</i> 1995 - 2000 | | <i>Budget of program:</i> Government contribution: US\$ 55.1 million/year, equal industry contribution. Spending to date: US\$ 718 million | |
| <i>Description:</i> Supporting collaborative research partnership between U.K. industry and science & engineering base | | | |

DTI: Department of Trade and Industry

Foresight は16の産業をカバーする産業全般を対象とするプログラムであり“panel”により管理されている。

Foresight Industry Panels

- Agriculture, Horticulture & Forestry
- Chemicals
- Construction
- Defence and Aerospace
- Energy
- Financial Services
- Food and Drink
- Health and Life Sciences
- **IT, electronics and communications**
- Leisure and Learning
- Manufacturing, production and business process
- Marine
- Materials
- Natural resources and environment
- Retail and distribution
- Transport

1997年に ForesightプログラムはParliamentary Office of Science and Technologyによりレビューされたが、ほぼ満足のいく内容であった。

Program Assessment Criteria

Achievement of objectives?

- Promotion of commercial exploitation of academic advances
- Access to research knowledge and skills for industrial companies
- Provides industrial viewpoint for relevance of research
- Stimulation of applied research by graduate students
- Advancement of national profile

Value for Money?

- Streamlined program operation
- Easy access to information
- Efficient brokerage between industry and research
- Allows government to participate

Major Assessment Findings

- ⊕ Improved networks between universities and business
- ⊕ Deployment of concepts formerly considered unfeasible
- ⊕ Useful sharing within industry sectors
- ⊕ Useful sharing between industry sectors
- ⊖ Government did not benefit enough from program, except sponsoring Department of Trade and Industry
- ⊖ No progress with regulation obstructing innovation

Foresightプログラムは次世代の振興プログラムに移行する準備として徹底的にレビューされている。

Desired Changes for Foresight Program

- Increase the breadth of participating companies
 - include companies from “non-headline” industries
 - less focus on the U.K.
- Improved knowledge sharing
 - Increase interaction between participants
 - More fully exchange of program results between cameras
 - Widespread, public communication of results

第3章 欧州情報技術振興プログラム一覧

Overview of Programs

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Overview of Programs

3.1

Programs by Country

- European Union
- France
- Germany
- United Kingdom

3.2

Programs by Purpose

Programs by Country - EU

3.1

EU

| Programme Name | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Source of Funds | Budget | Duration |
|--|----------------------|-------------------|---|------------------------------------|-----------------|---|--------------------------------------|
| "ACTS" Advanced Communications Technology and Services | R&D projects | Subsidy | Communications Technologies | EU Commission Directorate XIII B | EU | US\$ 738 million | 1994 - 1998 |
| "ESPRIT 4" European Strategic Programme for Research and Development in Information Technologies | R&D projects | Subsidy | Information Technologies | EU Commission Directorate III-F | EU | US\$ 2,292.4 million | 1994 - 1998 |
| "Telematics" 2C | R&D projects | Subsidy | Communications Technologies (telematics) | EU Commission Directorate XIII-C | EU | US\$ 1,004.3 million | 1994 - 1998 |
| MLIS Multilingual Information Society | R&D projects | Subsidy | Information Technologies | EU Commission Directorate XIII/E/6 | EU | US\$ 16.5 million | 1996 - 1998 |
| Esprit (part of 4th Framework programme) | R&D projects | Subsidy | Information Technologies | European Commission | EU | 4th framework - US\$ 11.66 bn. IT programme US\$ 2.227 bn (U.K. 15% of funds) | 1994 - 1998 (5th framework imminent) |
| Eureka! | Knowledge Transfer | Subsidy | Manufacturing Industries, Research Institutes | European Commission | EU | Current spend (committed or already spent) US\$ 18,871.6 million (US\$ 9,504 million in IT) | 1985 - not known |

R&D: Research and Development

France

| Programme Name | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Source of Funds | Budget | Duration |
|---|----------------------|--------------------------|---|--|-----------------|--|--------------|
| APTE - European Technological Partnership Aid | R&D projects | Subsidy | All industry sectors | National Agency for the Valuing of Research | MNERT, MEFI | US\$ 1.33 million in 1996 | start: 1979 |
| ASI - Innovation Services Aid | R&D projects | Subsidy | All industry sectors | National Agency for the Valuing of Research | MNERT, MEFI | US\$ 13.98 million in 1996 | start: 1979 |
| Sauts Technologiques - Technological Jumps | R&D projects | Subsidy | All industry sectors | Ministry of National Education, Research and Technology; Ministry of Economy, Finance and Industry; National Agency for the Valuing of Research; | MNERT, MEFI | US\$ 19.47 million in 1996 | start: 1989 |
| API - Innovative Projects Aid | R&D projects | Loan | All industry sectors | National Agency for the Valuing of Research | MNERT, MEFI | US\$ 157.26 million in 1996 | start: 1979 |
| CIR (Crédit d'Impôt Recherche) Taxation credit for Research and Development | R&D projects | Tax Incentives (Other) | All industry sectors (electronics: 9,5%, computers: 4,7%) | Ministry of National Education, Research and Technology; Ministry of Economy, Finance and Industry | MNERT, MEFI | US\$ 490.75 million in 1995 | 1985 - 1998+ |
| SRC - Research Companies under Contract | Knowledge Transfer | Subsidy | Optics, Electronics, Mechanics, Biomedical | National Agency for the Valuing of Research | MNERT, MEFI | US\$ 133.13 million in 1996, public financing: US\$ 9.65 million | start: 1984 |
| RENATER | Modernisation | Infrastructure Provision | Information Technologies (Internet) | France Télécom | France Télécom | N/A (infrastructure provision) | start 1993 |
| AT - Technology Transfer Aid | Knowledge Transfer | Loan | All industry sectors | National Agency for the Valuing of Research | MNERT, MEFI | US\$ 14.81 million in 1996 | start: 1979 |

MNERT: Ministry of National Education, Research and Technology

MEFI: Ministry of Economy, Finance and Industry

Programs by Country - Germany (1)

3.1

Germany (1)

| Programme Name | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Source of Funds | Budget | Duration |
|--|--|--------------------------------|--|--|-----------------|---|---------------|
| DtA - technology participation program | R&D projects (investment until production start) | Dormant and open participation | All industry sectors | Technologie Beteiligungsgesellschaft (technology participation company - subsidy of DtA) | Capital Market | US\$ 167 million | until 12/2000 |
| FUTOUR | Start Ups (promotion of technology oriented Start Ups) | Dormant participation | All industry sectors | Technologie Beteiligungsgesellschaft (technology participation company - subsidy of DtA), Verband deutscher Ingenieure (German engineering association), FzJ | Capital Market | US\$ 122.9 million | until 1999 |
| ERP - innovation program | R&D projects (until market introduction phase) | Loan | All industry sectors; (priority to micro electronics, material technics, biotechnics, environmental technology and energy) | Kreditanstalt für Wiederaufbau (government owned loan corporation) | Capital Market | US\$ 837 million ¹⁾ for all KfW promotion programs | unlimited |
| Kreditanstalt für Wiederaufbau (government owned loan corporation) / BMBF technology participation program (BTU) | R&D projects (general promotion for SMEs) | Loan | All industry sectors | Kreditanstalt für Wiederaufbau (government owned loan corporation) | Capital Market | US\$ 837 million ¹⁾ for all KfW promotion programs | unlimited |
| Microsystems Technologies | R&D projects (joint R&D projects, networking between SMEs) | Subsidy | Microsystems technologies | Verband deutscher Ingenieure (German engineering association)/VDE-IT | BMBF | US\$ 200.9 million (total) | 1994 - 1999 |
| "MA TECH" New Materials for Key Technologies of the 21st Century | R&D projects (for new technologies) | Subsidy | Information technology, energy technology, telematics, medical technology, manufacturing engineering | Forschungszentrum (research center) Jülich | BMBF | US\$ 67 - 72.6 million | 1995-2004 |

BMBF: Ministry of education and research

DtA: Deutsche Ausgleichsbank (government owned bank)

FzJ: Nuclear research center Jülich

VDE-IT: Association of German electrical engineers (IT-section)

SMEs: Small & medium sized enterprises

1) only counted once for total country budget

Germany (2)

| Programme Name | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Source of Funds | Budget | Duration |
|--|--|--|---|--|--|----------------------------|-------------------------|
| Software technology | R&D projects (software sector) | Subsidy | Information Technology (Software) | Deutsche Luft- und Raumfahrtgesellschaft (German research institute for aviation and space) | BMBF | N/A | N/A |
| Foundation for Industrial research | R&D projects (application research in SMEs) | Subsidy | All industries | Stiftung Industrieforschung (foundation for industrie research) | 13% of shares of deutsche Industriebank (bank) ¹⁾ | US\$ 5.6 million | launched 1990 |
| Competition of ideas for pilot projects | R&D projects (promotion of market relevant innovative technologies) | Subsidy | Electronics, energy industry, food industry | Kernforschungszentrum (nuclear research center) Jülich | BMBF | N/A | launched 03/1998 |
| Framework Program "Production 2000" | R&D projects (production process oriented) | Subsidy | Manufacturing industries | Forschungszentrum (research center) Karlsruhe | BMBF | US\$ 251.1 million (total) | 1995 - 1999 |
| Research cooperation of SMEs | R&D projects (Pan-European cooperation between SMEs throughout Europe) | Subsidy | All industry sectors | Arbeitsgemeinschaft industrieller Forschungsvereinigungen "Otto von Guericke" (Assoc. of industrial research institutions) | BMWi | US\$ 49.1 million | until 1999 |
| Research, Development and Innovation in SMEs | R&D projects (with non-profit research institutes) | Subsidy (repayable in case of success) | All industry sectors | Arbeitsgemeinschaft industrieller Forschungsvereinigungen "Otto von Guericke" (Assoc. of industrial research institutions) Gesellschaft für Wirtschafts- und Entwicklungsplanung (society for economic and development planning) | BMWi | N/A | current form since 1991 |

BMBF: Ministry of education and research

BMWi: Ministry of economics

SME: Small & medium sized enterprises

1) This 13% stake is the pool for funds

Programs by Country - Germany (3)

3.1

Germany (3)

| Programme Name | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Source of Funds | Budget | Duration |
|---|---|-------------------|--------------------------|--|-----------------|--|-------------------------|
| INSTI - SME-patent campaign | R&D projects (which can be patented) | Subsidy | All industry sectors | IW Köln (coordinator) | BMBF | US\$ 16.8 million for all 6 years | 1997 - 1998 |
| Industrial cooperation and development | Hiring, modernisation | Subsidy | All industry sectors | Arbeitsgemeinschaft industrieller Forschungsvereinigungen "Otto von Guericke" (Assoc. of industrial research institutions) on behalf of the BMWI | BMWi | ca US\$ 95 million | launched 1995 |
| Kreditanstalt für Wiederaufbau technology transfer and the establishment of business location | Knowledge Transfer (from SMEs into the market) | Loan | All industry sectors | Kreditanstalt für Wiederaufbau (government owned loan corporation) | Capital Market | ca US\$ 837 million ¹⁾ for all KfW promotion programs | current form since 1991 |
| Physical and chemical technologies | Knowledge Transfer (between manufacturing industries and research institutes) | Subsidy | Manufacturing industries | Verband deutscher Ingenieure (German engineering association) Deutsche Luft- und Raumfahrtgesellschaft (German research institute for aviation and space) | BMBF | N/A | N/A |
| Participation program for small technology companies (BTU) | Knowledge Transfer (between small technology oriented companies) | Venture capital | All industry sectors | Technologie Beteiligungsgesellschaft (technology participation company - subsidy of DtA) | Capital Market | N/A | unlimited |

BMBF: Ministry of education and research
SME: Small & medium sized enterprises

BMWi: Ministry of economics

1) only counted once for total country budget

Programs by Country - U.K. (1)

3.1

U.K. (1)

| Programme Name | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Source of Funds | Budget | Duration |
|---------------------------------------|---|--|--|--|---|--|--|
| Software Business Network | Start Up (assistance for small enterprises) | Advice (with financial and marketing expertise) | Software business | Department of Trade and Industry & Computing services & software association | Department of Trade and Industry | US\$ 3.3 million over 3 years. Cost of subscription: US\$ 250.5 / year | Feb 1998 - not known |
| Information Society Initiative | Start Up (Provide business access to guidance and advice) | Advice (with some limited financial grants) | All industries | Department of Trade and Industry | Department of Trade and Industry | US\$ 58.44 million | Feb 1996 - 2000 |
| Growing Software Sector | Start Up (Promote competitiveness amongst new businesses) | Infrastructure support and Subsidy | Innovative technology (software businesses) | Department of Trade and Industry | Department of Trade and Industry with industry contribution | US\$ 414,093 | 3 years started 1 June 1997 |
| Scottish Technology Fund * | Start Up (Help new high tech companies with start up) | Capital funding for start up | Innovative technology, electronics (high technology businesses like semiconductor, electronics, IT etc.) | Scottish Enterprise and 3i | Scottish Enterprise and 3i | — | — |
| Regional Technology Plan * | Start Up (Promote growth in Wales with high technology start-ups) | Advice (on successful start-up process) | Technology enterprises | Welsh Development Agency | Department of Trade and Industry | Small (More advice oriented) | April 1997 - April 1999 Give help to 60 project/companies |
| Smart | R&D Projects (Identify markets and technologies to increase national prosperity) | Subsidy | Innovative technology | Department of Trade and Industry | Department of Trade and Industry | Depends on Eligible projects | April 1997 - ? |
| U.K. Telecoms Software Club | Expansion (of use and awareness of communications technology) | Advice (on potential use and application of Communications) | Communication Technology (telecoms software) | Department of Trade and Industry / Computing services & software association / FEI | Department of Trade and Industry | Part of ISI initiative. Subscription US\$ 141.9/year + workshop fees | — |

* these programs may serve as an example for regional promotion

Programs by Country - U.K. (2)

3.1

U.K. (2)

| Programme Name | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Source of Funds | Budget | Duration |
|-------------------------------------|--|---|---|---|--|---|---|
| Time to Market | Knowledge Transfer | Advice (on industry best practice) | Electronics industries | Department of Trade and Industry | Department of Trade and Industry subsidises cost of membership | US\$ 701,285.7 over 3 years. | 1991 - 2002 |
| Foresight | Knowledge Transfer (between business, academia and government) | Financial grants and strategic planning | Information technology, electronics and communication technology (16 panels including one of the 16 devoted to IT, electronics and communications) | Office of Science & Technology, Department of Trade and Industry, and involves all Government departments | U.K. Government | US\$ 667.9 million public, US\$ 1,001.9 million private sectors funds committed thus far | 1995 - 2000 (with review in 1999 for next program) |
| LINK (Part of Foresight initiative) | Knowledge Transfer (between business, academia and government) | Subsidy | Information technology, electronics and communication technology (56 LINK programmes covering wide range of technology including IT, electronics & communication) | Department of Trade and Industry, various government departments and Research Councils and industry | U.K. Government | Government contribution: US\$ 55.1 million/year, equal industry contribution. Spending to date: US\$ 718 million Subscription: US\$ 8,349 / year | 1995 - 2000 |
| Connect | Knowledge Transfer (Help business develop skills, resources and source finance. Help academics commercialise research) | Advice (on how to get in touch with financiers, lawyers and advisers) | Innovative technology, electronics (high technology businesses like semiconductor, electronics, IT etc.) | Private sector | - | Will not disclose | Sept 1996 - not known |
| Centres of Expertise | Knowledge Transfer (between industry and researchers) | Advice (on where to look for cooperation) | Manufacturing companies | Welsh Development Agency | Department of Trade and Industry | Small (More advice oriented) | April 1997 - April 1999 Give help to 100 project/companies |

3

Overview of Programs

3.1

Programs by Country

3.2

Programs by Purpose

3.2.1

Programs with Dedication to IT

3.2.2

Programs for General Industry Promotion

EUレベルの情報技術産業に特化した振興プログラムはR&Dプロジェクト支援が主要な目的となっている。

| Programme Name | Country | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Budget | Duration | See Page |
|--|---------|--|--------------------------|--|--|---|--------------------------------------|----------|
| "ACTS" Advanced Communications Technology and Services | EU | R&D projects | Subsidy | Communications Technologies | EU Commission Directorate XIII B | US\$ 738 million | 1994 - 1998 | A 1 |
| "ESPRIT 4" European Strategic Programme for Research and Development in Information Technologies | EU | R&D projects | Subsidy | Information Technologies | EU Commission Directorate III-F | US\$ 2,292.4 million | 1994 - 1998 | A 2 |
| "Telematics" 2C | EU | R&D projects | Subsidy | Communications Technologies (telematics) | EU Commission Directorate XIII-C | US\$ 1,004.3 million | 1994 - 1998 | A 3 |
| MLIS Multilingual Information Society | EU | R&D projects | Subsidy | Information Technologies | EU Commission Directorate XIII/E/6 | US\$ 16.5 million | 1996 - 1998 | A 4 |
| Esprit (part of 4th Framework programme) | EU | R&D projects | Subsidy | Information Technologies | European Commission | 4th framework - US\$ 11.66 bn. IT programme US\$ 2.227 bn (U.K. 15% of funds) | 1994 - 1998 (5th framework imminent) | A 6 |
| RENATER | France | Modernisation (to increase internet usage in France) | Infrastructure Provision | Information Technologies (Internet) | France Télécom | N/A (infrastructure provision) | start 1993 | A 7 |
| Microsystems Technologies | Germany | R&D projects (joint R&D projects to improve networking between SMEs) | Subsidy | Microsystems technologies | Verband deutscher Ingenieure (German engineering association)/VDE-IT | US\$ 200.9 million (total) | 1994 - 1999 | A 20 |

SME: Small & medium sized enterprises

VDE-IT: Association of German electrical engineers (IT-department)

情報技術産業に特化した振興プログラムではドイツとフランスはR&Dプロジェクト支援にフォーカスしている。

| Programme Name | Country | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Budget | Duration | See Page |
|---|---------|-------------------------------------|------------------------------------|--|---|--|-------------------------|----------|
| "MA TECH" New Materials for Key Technologies of the 21st Century | Germany | R&D projects (for new technologies) | Subsidy | Information technology, energy technology, telematics, medical technology, manufacturing engineering | Forschungszentrum (research center) Jülich | US\$ 67 - 72.6 million | 1995-2004 | A 21 |
| Software technology | Germany | R&D projects (software sector) | Subsidy | Information Technology (Software) | Deutsche Luft- und Raumfahrtgesellschaft (German research institute for aviation and space) | N/A | N/A | A 22 |
| Competition of Ideas for pilot projects | Germany | R&D projects | | Electronics, energy industry, food industry | Kernforschungszentrum (nuclear research center) Jülich | N/A | launched 03/1998 | A 24 |
| Software Business Network | U.K. | Start Up Promotion | Advice | Software business | Department of Trade and Industry & Computing services & software association | US\$ 3.3 million over 3 years. Cost of subscription: US\$ 250.5 / year | | A 32 |
| Growing Software Sector | U.K. | Start Up Promotion | Infrastructure support and Subsidy | Innovative technology (software businesses) | Department of Trade and industry | US\$ 414,093 | 3 years started 06/1997 | A 39 |
| Scottish Technology Fund | U.K. | Start Up Promotion | Capital funding for start up | Innovative technology, electronics (high technology businesses like semiconductor, electronics, IT etc.) | Scottish Enterprise and 3i | - | - | A 41 |
| U.K. Telecoms Software Club | U.K. | Expansion | Advice | Communication Technology (telecoms software) | Department of Trade and Industry / Computing services & software association / FEI | Part of ISI initiative. Subscription US\$ 141.9/year + workshop fees | - | A 34 |

英国での情報技術産業に特化した振興プログラムは知識/技術のトランスファーにフォーカスしている。

| Programme Name | Country | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Budget | Duration | See Page |
|-------------------------------------|---------|--|---|---|---|--|--|----------|
| Time to Market | U.K. | Knowledge Transfer | Advice | Electronics industries | Department of Trade and Industry | US\$ 701,285.7 over 3 years. Subscription: US\$ 8,349 / year | 1991 - 2002 | A 33 |
| Foresight | U.K. | Knowledge Transfer (between business, academia and government) | Financial grants and strategic planning | Information technology, electronics and communication technology (16 panels including one of the 16 devoted to IT, electronics and communications) | Office of Science & Technology, Department of Trade and Industry, and involves all Government departments | US\$ 667.9 million public, US\$ 1,001.9 million private sectors funds committed thus far | 1995 - 2000 (with review in 1999 for next program) | A 36 |
| LINK (Part of Foresight initiative) | U.K. | Knowledge Transfer (between business, academia and government) | Subsidy | Information technology, electronics and communication technology (56 LINK programmes covering wide range of technology including IT, electronics & communication) | Department of Trade and Industry, various government departments and Research Councils and industry | Government contribution: US\$ 55.1 million/year, equal industry contribution. Spending to date: US\$ 718 million | 1995 - 2000 | A 37 |
| Connect | U.K. | Knowledge Transfer (between business and academia) | Advice | Innovative technology, electronics (high technology businesses like semiconductor, electronics, IT etc.) | Private sector | Will not disclose | Sept 1996 - not known | A 40 |

3

Overview of Programs

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Programs by Country

3.2

Programs by Purpose

3.2.1

Programs with Dedication to IT

3.2.2

Programs for General Industry Promotion

フランスの振興プログラムの過半数は特定の産業だけを対象としていない。可能な限り広範囲の産業を支援することを目的としているからである。

| Programme Name | Country | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Budget | Duration | See Page |
|---|---------|----------------------|---------------------|---|---|---|------------------|----------|
| Eureka! | EU | Knowledge Transfer | Subsidy | Manufacturing Industries, Research Institutes | European Commission | Current spend (committed or already spent) US\$ 18,871.6 million (US\$ 9,504 million in IT) | 1985 - not known | A 5 |
| APTE - European Technological Partnership Aid | France | R&D projects | Subsidy | All industry sectors | National Agency for the Valuing of Research | US\$ 1.33 million in 1996 | start: 1979 | A 8 |
| ASI - Innovation Services Aid | France | R&D projects | Subsidy | All industry sectors | National Agency for the Valuing of Research | US\$ 13.98 million in 1996 | start: 1979 | A 9 |
| Sauts Technologiques - Technological Jumps | France | R&D projects | Subsidy | All industry sectors | Ministry of National Education, Research and Technology, Ministry of Economy, Finance and Industry, National Agency for the Valuing of Research | US\$ 19.47 million in 1996 | start: 1989 | A 10 |
| API - Innovative Projects Aid | France | R&D projects | Repayable Advance | All industry sectors | National Agency for the Valuing of Research | US\$ 157.26 million in 1996 | start: 1979 | A 11 |
| CIR (Crédit d'Impôt Recherche) Taxation credit for Research and Development | France | R&D projects | Tax Incentives | All industry sectors (electronics: 9.5%, computers: 4.7%) | Ministry of National Education, Research and Technology, Ministry of Economy, Finance and Industry | US\$ 490.75 million in 1995 | 1985 - 1998+ | A 13 |
| SRC - Research Companies under Contract | France | Knowledge Transfer | Technology Transfer | Optics, Electronics, Mechanics, Biomedical | National Agency for the Valuing of Research | US\$ 133.13 million in 1996, public financing: US\$ 9.65 million | start: 1984 | A 14 |
| AT - Technology Transfer Aid | France | Knowledge Transfer | Repayable Advance | All industry sectors | National Agency for the Valuing of Research | US\$ 14.81 million in 1996 | start: 1979 | A 12 |

ドイツでの産業全般を対象とした振興プログラムは中小企業、スタートアップ企業、イノベーターの支援にフォーカスしている。

| Programme Name | Country | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Budget | Duration | See Page |
|--|---------|--|--------------------------------|--|--|---|---------------|----------|
| DtA - technology participation program | Germany | R&D projects (promotion until market entry) | Dormant and open participation | All industry sectors | Technologie Beteiligungsgesellschaft (technology participation company - subsidy of DtA) | US\$ 167 million | until 12/2000 | A 15 |
| FUTOUR | Germany | Start Up Promotion (technology oriented Start Ups) | Dormant participation | All industry sectors | Technologie Beteiligungsgesellschaft (technology participation company - subsidy of DtA), Verband deutscher Ingenieure (German engineering association), FzJ | US\$ 122.9 million | until 1999 | A 16 |
| ERP - Innovation program | Germany | R&D projects (promotion until market introduction phase) | Loan | All industry sectors; (priority to micro electronics, material technics, biotechnics, environmental technology and energy) | Kreditanstalt für Wiederaufbau (government owned loan corporation) | US\$ 837 million ¹⁾ for all KfW promotion programs | unlimited | A 17 |
| Kreditanstalt für Wiederaufbau (government owned loan corporation) / BMBF technology participation program (BTU) | Germany | R&D projects (general SME promotion) | Loan | All industry sectors | Kreditanstalt für Wiederaufbau (government owned loan corporation) | US\$ 837 million ¹⁾ for all KfW promotion programs | unlimited | A 18 |
| Foundation for industrial research | Germany | R&D projects (application oriented research) | Subsidy | All industries | Stiftung Industrieforschung (foundation for industrial research) | US\$ 5.6 million | launched 1990 | A 23 |
| Framework Program "Production 2000" | Germany | R&D projects (production process oriented) | Subsidy | Manufacturing industries | Forschungszentrum (research center) Karlsruhe | US\$ 251.1 million (total) | 1995 - 1999 | A 25 |

FzJ: Nuclear research center Jülich

1) only counted once for total budget

ドイツにおける産業全般を対象とした振興プログラムではR&Dプロジェクトの支援と知識/技術のトランスファーがもっとも重要な支援の目的である。

| Programme Name | Country | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Budget | Duration | See Page |
|---|---------|---|--|----------------------|--|--|-------------------------|----------|
| Research cooperation of SMEs | Germany | R&D projects (pan European networking between SMEs) | Subsidy | All industry sectors | Arbeitsgemeinschaft industrieller Forschungsvereinigungen "Otto von Guericke" (Assoc. of industrial research institutions) | US\$ 49.1 million | until 1999 | A 28 |
| Research, Development and Innovation in SMEs | Germany | R&D projects (with non-profit research institutes) | Subsidy (repayable in case of success) | All industry sectors | Arbeitsgemeinschaft industrieller Forschungsvereinigungen "Otto von Guericke" (Assoc. of industrial research institutions) Gesellschaft für Wirtschafts- und Entwicklungsplanung (society for economic and development planning) | N/A | current form since 1991 | A 31 |
| INSTI - SME-patent campaign | Germany | R&D projects (which can be patented) | Subsidy | All industry sectors | IW Köln (coordinator) | US\$ 16.8 million for all 6 years | 1997 - 1998 | A 29 |
| Industrial cooperative research and development | Germany | Hiring, modernisation | Subsidy | All industry sectors | Arbeitsgemeinschaft industrieller Forschungsvereinigungen "Otto von Guericke" (Assoc. of industrial research institutions) on behalf of the BMWI | ca US\$ 95 million | launched 1995 | A 27 |
| Kreditanstalt für Wiederaufbau technology transfer and the establishment of business location | Germany | Knowledge Transfer (from SMEs into the market) | Loan | All industry sectors | Kreditanstalt für Wiederaufbau (government owned loan corporation) | ca US\$ 837 million ¹⁾ for all KfW promotion programs | current form since 1991 | A 19 |

BMWi: Ministry of economics

1) only counted once for total budget

英国における産業全般を対象とした振興プログラムはWales, Scotlandなどの地方での産業振興支援を目的としている。

| Programme Name | Country | Purpose of Programme | Type of Programme | Industry Sector | Granting Institution | Budget | Duration | See Page |
|--|---------|--|---|--------------------------|--|------------------------------|---|----------|
| Physical and chemical technologies | Germany | Knowledge Transfer (between technology oriented SMEs and market) | Subsidy | Manufacturing industries | Verband deutscher Ingenieure (German engineering association) Deutsche Luft- und Raumfahrtgesellschaft (German research institute for aviation and space) | N/A | N/A | A 26 |
| Participation program for small technology companies (BTU) | Germany | Knowledge Transfer (for market entry) | Venture capital | All industry sectors | Technologie Beteiligungsgesellschaft (technology participation company - subsidy of DtA) | N/A | unlimited | A 30 |
| Information Society Initiative | U.K. | Start Up Promotion | Advice with some limited financial grants | All industries | Department of Trade and Industry | US\$ 58.44 million | Feb 1996 - 2000 | A 35 |
| Regional Technology Plan | U.K. | Start Up Promotion | Advice | Technology enterprises | Welsh Development Agency | Small (More advice oriented) | April 1997 - April 1999 Give help to 60 project/companies | A 43 |
| Smart | U.K. | R&D projects (for new markets and technologies) | Subsidy | Innovative technology | Department of Trade and Industry | Depends on Eligible projects | April 1997 - ? | A 38 |
| Centres of Expertise | U.K. | Knowledge Transfer (between industry and researchers) | Advice | Manufacturing companies | Welsh Development Agency | Small (More advice oriented) | April 1997 - April 1999 Give help to 100 project/companies | A 42 |

SME: Small & medium sized enterprises

付属資料 欧州情報技術振興プログラムのプロフィール

Appendix: Program Profiles

Contents

1

Summary of IT Promotion in Europe

2

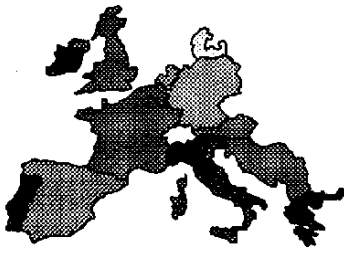
Major Sources of European IT Promotion

3

Overview of Programs

A

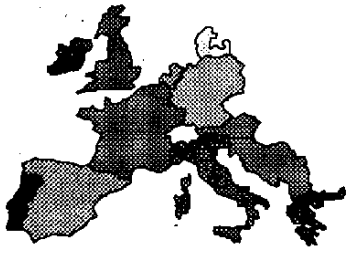
Appendix: Program Profiles

| | | | |
|--|---|--|--|
|  | <p><i>Geographic Entity</i> European Union</p> | <p><i>Source of funds:</i> EU</p> <p><i>Granting institution:</i> European Commission Directorate XIII B¹⁾</p> | |
| <p><i>Program name:</i> ACTS Advanced Communications Technology and Services</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Communications Technologies</p> | | <p><i>Eligible recipients:</i> Enterprises, in particular small & medium sized enterprises, universities and research institutions; special funding for organisations from Eastern Europe and former Soviet Union</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects</p> | |
| <p><i>Duration of overall program:</i> 1994 - 1998</p> | | <p><i>Budget of program:</i> US\$ 738 million</p> | |
| <p><i>Description:</i> Subsidy covering:</p> <ul style="list-style-type: none"> - projects on a cost-sharing basis: RTD cooperations between enterprises, research institutions and universities up to 50 % of project cost - additional costs to support a project (e. g. studies, conferences, publication of results, analysis of socio-economic consequences and technological risks, training ...) up to 100 % - exploratory awards to promote the use of technology to facilitate the participation of SMEs up to 75 % of cost - networking of necessary infrastructure up to 100 % | | | |

1) Telecommunications, Information Market and Exploitation of Research - dept. for advanced communications

| | | | |
|--|---|---|--|
|  | <p><i>Geographic Entity</i> European Union</p> | <p><i>Source of funds:</i> EU</p> <p><i>Granting institution:</i> European Commission Directorate III F¹⁾</p> | |
| <p><i>Program name:</i> ESPRIT 4 - European Strategic Programme for Research and Development in Information Technologies</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Information Technologies</p> | | <p><i>Eligible recipients:</i> Enterprises, in particular small & medium sized enterprises, universities and research institutions</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects</p> | |
| <p><i>Duration of overall program:</i> 1994 - 1998</p> | | <p><i>Budget of program:</i> US\$ 2,292.4 million</p> | |
| <p><i>Description:</i> Subsidy covering:</p> <ul style="list-style-type: none"> - projects on a cost-sharing basis: RTD cooperations between enterprises, research institutions and universities up to 50 % of project cost - additional costs to support a project (e. g. studies, conferences, publication of results, analysis of socio-economic consequences and technological risks, training ...) up to 100 % - exploratory awards to promote the use of technology to facilitate the participation of SMEs up to 75 % of cost - networking of necessary infrastructure up to 100 % | | | |

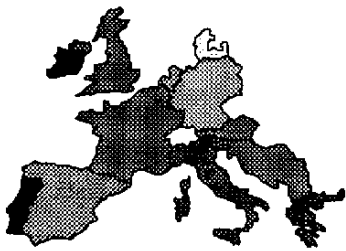
1) Industry - dept for R&D: information technologies

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|  | <p><i>Geographic Entity</i> European Union</p> | <p><i>Source of funds:</i> EU</p> <p><i>Granting institution:</i> European Commission Directorate XIII C¹⁾</p> | |
| <p><i>Program name:</i> Telematics 2C</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Communications Technologies (telematics)</p> | | <p><i>Eligible recipients:</i> Enterprises, in particular small & medium sized enterprises, universities and research institutions that wish to develop telematic systems and services that are interoperable throughout the EU</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects</p> | |
| <p><i>Duration of overall program:</i> 1994 - 1998</p> | | <p><i>Budget of program:</i> US\$ 1,004.3 million</p> | |
| <p><i>Description:</i> Subsidy covering:</p> <ul style="list-style-type: none"> - projects on a cost-sharing basis: RTD cooperations between enterprises, research institutions and universities up to 50 % of project cost - additional costs to support a project (e. g. studies, conferences, publication of results, analysis of socio-economic consequences and technological risks, training ...) up to 100 % - exploratory awards to promote the use of technology to facilitate the participation of SMEs up to 75 % of cost - networking of necessary infrastructure up to 100 % | | | |

1) Telecommunications, Information Market and Exploitation of Research - dept. for telematics applications

Program Profiles - European Union

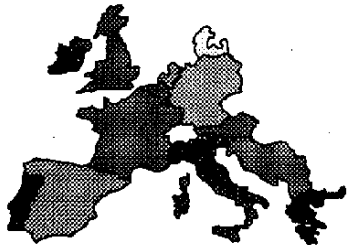
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|  | <p><i>Geographic Entity</i> European Union</p> | <p><i>Source of funds:</i> EU</p> <p><i>Granting institution:</i> European Commission Directorate XIII E6¹⁾</p> | |
| <p><i>Program name:</i> MLIS (Multilingual Information Society)</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Information Technologies</p> | | <p><i>Eligible recipients:</i> Enterprises, private individuals, public institutions that are involved in the language industry</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects</p> | |
| <p><i>Duration of overall program:</i> 1996 - 1998</p> | | <p><i>Budget of program:</i> US\$ 16.5 million</p> | |
| <p><i>Description:</i> Subsidy covers up to 50 % of cost of projects on a cost-sharing basis</p> | | | |

1) Telecommunications, Information Market and Exploitation of Research - dept. for language processing, information industry

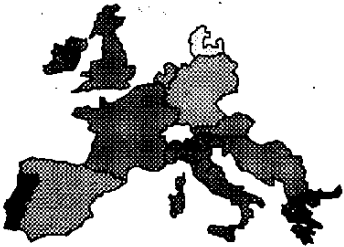
Program Profiles - European Union

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|  | <p><i>Geographic Entity</i> European Union</p> | <p><i>Source of funds:</i> EU</p> <p><i>Granting institution:</i> European Commission</p> | |
| <p><i>Program name:</i> Eureka!</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Manufacturing Industries, Research Institutes</p> | | <p><i>Eligible recipients:</i> There must be partners from at least two member-states</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> Knowledge transfer</p> | |
| <p><i>Duration of overall program:</i> 1985 - not known</p> | | <p><i>Budget of program:</i> Current spend (committed or already spent) US\$ 18,871.6 million (US\$ 9,504 million in IT)</p> | |
| <p><i>Description:</i> Increasing European industrial productivity and economic growth in the world market promoting prosperity and job-creation through strengthened co-operation between high-tech business and research institutes</p> <p>117 ongoing projects in IT, 101 finished. Current focus on launching multimedia projects</p> | | | |

Program Profiles - European Union

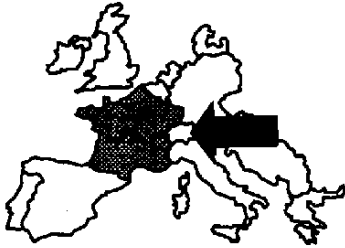
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|  | <p><i>Geographic Entity</i> European Union</p> | <p><i>Source of funds:</i> EU</p> <p><i>Granting institution:</i> European Commission</p> | |
| <p><i>Program name:</i> Esprit (part of 4th Framework programme)</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Information Technologies</p> | | <p><i>Eligible recipients:</i> There must be partners from at least two member states</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects</p> | |
| <p><i>Duration of overall program:</i> 1994 - 1998 (5th framework imminent)</p> | | <p><i>Budget of program:</i> 4th framework - US\$ 11.66 bn IT programme US\$ 2.277 bn (UK 15 % of funds)</p> | |
| <p><i>Description:</i> Setting overall aims and priorities for the EU's R & D activities. Facilitating the user-supplier collaborations in the IT industry to stimulate innovation</p> | | | |

(United Kingdom)

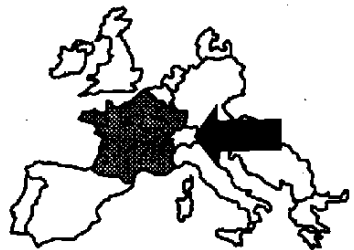
Program Profiles - France

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|  | <p><i>Geographic Entity</i> France</p> | <p><i>Source of funds:</i> France Télécom</p> <p><i>Granting institution:</i> France Télécom</p> | |
| <p><i>Program name:</i> RENATER</p> | | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> |
| <p><i>Industry sector supported:</i> Information Technologies (Internet)</p> | | <p><i>Eligible recipients:</i> Public or private companies that have for main activity education, research or technological development</p> | |
| <p><i>Kind of program:</i> Infrastructure Provision</p> | | <p><i>Purpose of program:</i> Modernisation</p> | |
| <p><i>Duration of overall program:</i> Start: 1993 - not known</p> | | <p><i>Budget of program:</i> N/A (infrastructure provision only)</p> | |
| <p><i>Description:</i> RENATER is a public interest institution that consists of a test platform for technological developments in terms of advanced communications and especially Internet. It provides the usage of the network for a consideration</p> | | | |

Program Profiles - France

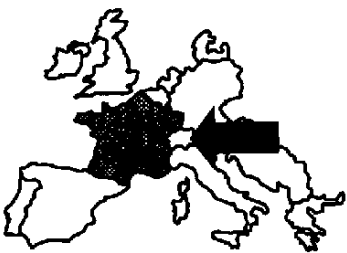
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|  | <p><i>Geographic Entity</i> France</p> | <p><i>Source of funds:</i> MNERT, MEFI</p> <p><i>Granting institution:</i> National Agency for the Valuing of Research</p> | |
| <p><i>Program name:</i> APTE - European Technological Partnership Aid</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> SMEs that wish to set up a technological partnership within Europe</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects</p> | |
| <p><i>Duration of overall program:</i> Start: 1979</p> | | <p><i>Budget of program:</i> US\$ 1.33 million in 1996</p> | |
| <p><i>Description:</i> Subsidy that covers 50 % maximum of the predefined expenditures</p> | | | |

MNERT: Ministry of National Education, Research and Technology
MEFI: Ministry of Economy, Finance and Industry

Program Profiles - France

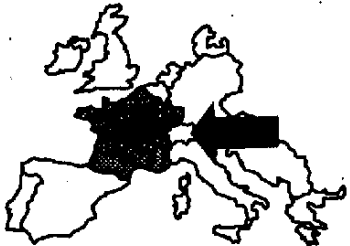
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|  | <p><i>Geographic Entity</i> France</p> | <p><i>Source of funds:</i> MNERT, MEFI</p> <p><i>Granting institution:</i> National Agency for the Valuing of Research</p> | |
| <p><i>Program name:</i> ASI - Innovation Services Aid</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> SMEs that wish to invite technology consulting firms to prepare or validate an innovative project</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects</p> | |
| <p><i>Duration of overall program:</i> Start: 1979</p> | | <p><i>Budget of program:</i> US\$ 13.98 million in 1996</p> | |
| <p><i>Description:</i> Subsidy that covers 50 % maximum of the research expenditure with a limit of US\$ 33,283 per company</p> | | | |

MNERT: Ministry of National Education, Research and Technology
MEFI: Ministry of Economy, Finance and Industry

Program Profiles - France

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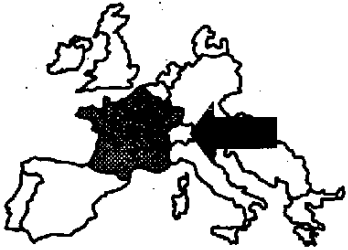
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|  | <p><i>Geographic Entity</i></p> <p>France</p> | <p><i>Source of funds:</i></p> <p>MNERT</p> <p><i>Granting institution:</i></p> <p>MNERT, MEFI, NAVR</p> | |
| <p><i>Program name:</i></p> <p>Sauts Technologiques - Technological Jumps</p> | | <p><input type="radio"/> IT-dedicated</p> <p><input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i></p> <p>All industry sectors</p> | | <p><i>Eligible recipients:</i></p> <p>All industrial companies; one or more research institutions have to be associated to the project</p> | |
| <p><i>Kind of program:</i></p> <p>Subsidy</p> | | <p><i>Purpose of program:</i></p> <p>R & D Projects</p> | |
| <p><i>Duration of overall program:</i></p> <p>Start: 1989</p> | | <p><i>Budget of program:</i></p> <p>US\$ 19.47 million in 1996</p> | |
| <p><i>Description:</i></p> <p>Subsidy granted to innovative projects in terms of technology that covers in average 30 % of the budget</p> | | | |

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MEFI: Ministry of Economy, Finance and Industry

NAVR: National Agency for the Valuing of Research

Program Profiles - France

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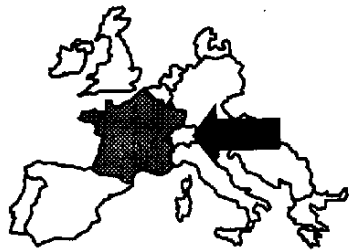
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|  | <p><i>Geographic Entity</i> France</p> | <p><i>Source of funds:</i> MNERT, MEFI</p> <p><i>Granting institution:</i> NAVR</p> | |
| <p><i>Program name:</i> API - Innovative Projects Aid</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> SMEs that wish to develop a new product or a new process</p> | |
| <p><i>Kind of program:</i> Loan</p> | | <p><i>Purpose of program:</i> R & D Projects</p> | |
| <p><i>Duration of overall program:</i> Start: 1979</p> | | <p><i>Budget of program:</i> US\$ 157.26 million in 1996</p> | |
| <p><i>Description:</i> Advance at 0 % interest rate repayable in case of success. It covers 50 % maximum of the research expenditure and is granted to the most innovative projects</p> | | | |

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MEFI: Ministry of Economy, Finance and Industry

NAVR: National Agency for the Valuing of Research

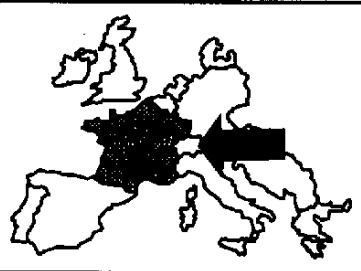
Program Profiles - France

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|  | <p><i>Geographic Entity</i> France</p> | <p><i>Source of funds:</i> MNERT, MEFI</p> <p><i>Granting institution:</i> NAVR</p> | |
| <p><i>Program name:</i> AT - Technology Transfer Aid</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> SMEs that wish to acquire or sell technology</p> | |
| <p><i>Kind of program:</i> Loan</p> | | <p><i>Purpose of program:</i> R & D Projects</p> | |
| <p><i>Duration of overall program:</i> Start: 1979</p> | | <p><i>Budget of program:</i> US\$ 14.81 million in 1996</p> | |
| <p><i>Description:</i> Advance at 0 % interest rate repayable in case of success. It covers 50 % maximum of the research expenditure with a limit of US\$ 33,283 per company, and which is granted to the most innovative projects</p> | | | |

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MEFI: Ministry of Economy, Finance and Industry

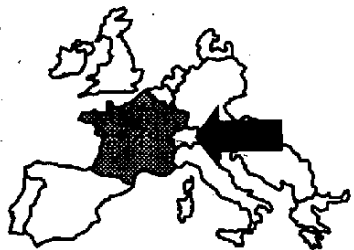
NAVR: National Agency for the Valuing of Research

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|  | <p><i>Geographic Entity</i></p> <p>France</p> | <p><i>Source of funds:</i></p> <p>MNERT, MEFI</p> <p><i>Granting institution:</i></p> <p>MNERT, MEFI</p> | |
| <p>Program name: CIR - (Crédit d'Impot Recherche) Taxation credit for Research and Development</p> | | | <p><input type="radio"/> IT-dedicated</p> <p><input checked="" type="radio"/> General purpose</p> |
| <p><i>Industry sector supported:</i></p> <p>All industry sectors (electronics: 9,5 %, computers: 4,7 %)</p> | | <p><i>Eligible recipients:</i></p> <p>All industry companies that have a Research and Development Program</p> | |
| <p><i>Kind of program:</i></p> <p>Tax Incentives</p> | | <p><i>Purpose of program:</i></p> <p>R & D Projects</p> | |
| <p><i>Duration of overall program:</i></p> <p>1985 - 1998+</p> | | <p><i>Budget of program:</i></p> <p>US\$ 490.75 bn in 1995</p> | |
| <p><i>Description:</i></p> <p>Taxation credit based on R & D expenditure. The percentage of R & D expenditure that can be deducted depends on the location of the research center: Rural areas: 100 %; Paris and its suburb: 65 %, Others: 75 %</p> | | | |

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 MEFI: Ministry of Economy, Finance and Industry

Program Profiles - France

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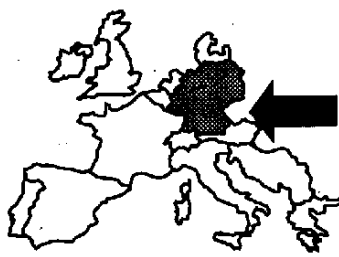
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|  | <p><i>Geographic Entity</i> France</p> | <p><i>Source of funds:</i> MNERT, MEFI</p> <p><i>Granting institution:</i> NAVR</p> | |
| <p><i>Program name:</i> SRC - Research Companies under Contract</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Optics, Electronics, Mechanics, Biomedical</p> | | <p><i>Eligible recipients:</i> An SRC has to be owned by at 50 % maximum by a large company (more than 2,000 employees)</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> Knowledge Transfer</p> | |
| <p><i>Duration of overall program:</i> Start: 1984</p> | | <p><i>Budget of program:</i> US\$ 133.13 million in 1996, public financing: US\$ 9.65 million</p> | |
| <p><i>Description:</i> The SRC are small/medium companies. Their main activities are the industrial research and development. They facilitate technology transfer and acquisition within the industry</p> | | | |

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NAVR: National Agency for the Valuing of Research

Program Profiles - Germany

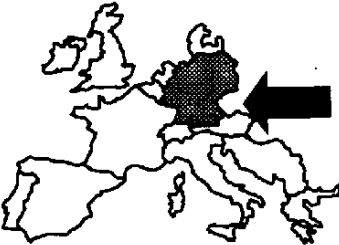
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|  | <p>Geographic Entity</p> <p>Germany</p> | <p>Source of funds:</p> <p>Capital market</p> <p>Granting institution:</p> <p>Tbg</p> | |
| <p>Program name:</p> <p>DtA - Techology Participation Program</p> | | <p><input type="radio"/> IT-dedicated</p> <p><input checked="" type="radio"/> General purpose</p> | |
| <p>Industry sector supported:</p> <p>All industry sectors</p> | | <p>Eligible recipients:</p> <p>Companies with sales of maximum 250 million DM that wish to develop new products/solutions/services</p> | |
| <p>Kind of program:</p> <p>Dormant and open participation</p> | | <p>Purpose of program:</p> <p>R & D Projects (promotion until market entry)</p> | |
| <p>Duration of overall program:</p> <p>until 12/2000</p> | | <p>Budget of program:</p> <p>US\$ 167.7 million</p> | |
| <p>Description:</p> <p>Financial support to projects from conception stage to stock exchange. <i>Early phase:</i> open/dormant part., max. US\$ 139,510; <i>innovation phase:</i> dormant part., max. US\$ 2.8 million (incl. investments from BTU programs); <i>exit phase:</i> dormant/open part., max. US\$ 5.6 million</p> | | | |

Tbg: Technologie-Beteiligungsgesellschaft (technology participation company - subsidy of DtA)

Program Profiles - Germany


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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> Capital market</p> <p><i>Granting institution:</i> Tbg, FzJ</p> | |
| <p><i>Program name:</i> FUTOUR</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> Technology-oriented companies and company founders in the new German 'Länder'</p> | |
| <p><i>Kind of program:</i> Dormant participation</p> | | <p><i>Purpose of program:</i> Start Up (promotion of technology oriented Start-Ups)</p> | |
| <p><i>Duration of overall program:</i> until 1999</p> | | <p><i>Budget of program:</i> US\$ 122.9 million</p> | |
| <p><i>Description:</i> Promotion of the new German 'Länder' as technology location by means of funding provided by the BMBF and dormant participations (up to 10 years) by the Technologie-Beteiligungsgesellschaft</p> | | | |

Tbg: Technologie-Beteiligungsgesellschaft (technology participation company - subsidy of DtA)
FzJ: Nuclear Research Center Jülich

Program Profiles - Germany

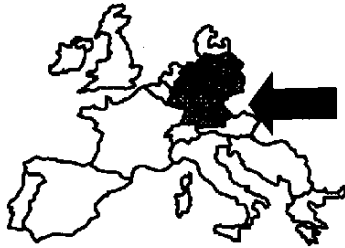
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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> Capital market</p> <p><i>Granting institution:</i> KfW</p> | |
| <p><i>Program name:</i> ERP - innovation program</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors (priority to micro-electronics, material technics, biotechnics, environmental technology and energy)</p> | | <p><i>Eligible recipients:</i> SMEs that wish to carry out an innovative project or introduce innovative products/solutions/services into the market or larger companies, if their innovation is new in Germany</p> | |
| <p><i>Kind of program:</i> Loan</p> | | <p><i>Purpose of program:</i> R & D Projects (promotion until market introduction phase)</p> | |
| <p><i>Duration of overall program:</i> unlimited</p> | | <p><i>Budget of program:</i> ca. US\$ 837 million for all KfW promotion programs</p> | |
| <p><i>Description:</i> Loan at a low rate that covers program : 100 % of R & D expenditure up to 10 million DM per project program 2: market introduction: old 'Länder' - 50 % of expenditure up to 2 million DM, new 'Länder' - 80 % of expenditure up to 5 million DM</p> | | | |

KfW: Kreditanstalt für Wiederaufbau (government-owned loan corporation)

Program Profiles - Germany

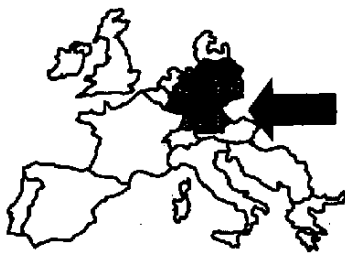
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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> Capital market</p> <p><i>Granting institution:</i> KfW</p> | |
| <p><i>Program name:</i> Kreditanstalt für Wiederaufbau (government-owned loan corporation), BMBF technology participation program (BTU)</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> SMEs with annual sales of 14 million DM (50 employees maximum), not older than 10 years</p> | |
| <p><i>Kind of program:</i> Loan</p> | | <p><i>Purpose of program:</i> R & D Projects (general promotion for SMEs)</p> | |
| <p><i>Duration of overall program:</i> unlimited</p> | | <p><i>Budget of program:</i> ca. US\$ 837 million for all KfW promotion programs</p> | |
| <p><i>Description:</i> Investing companies, financial institutions will receive a loan at favourable rates from Kreditanstalt für Wiederaufbau in order to refinance their investments in innovative and technology-oriented SMEs</p> | | | |

KfW: Kreditanstalt für Wiederaufbau (government-owned loan corporation)

Program Profiles - Germany

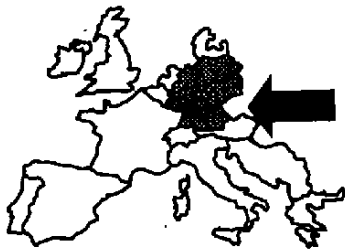
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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> Capital market</p> <p><i>Granting institution:</i> KfW</p> | |
| <p><i>Program name:</i> Kreditanstalt für Wiederaufbau, technology transfer and the establishment of business location</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> SMEs with annual sales of 300 million DM max. that wish to invest in developing countries</p> | |
| <p><i>Kind of program:</i> Loan</p> | | <p><i>Purpose of program:</i> Knowledge Transfer (from SMEs into the market)</p> | |
| <p><i>Duration of overall program:</i> current form since 1991</p> | | <p><i>Budget of program:</i> ca. US\$ 837 million for all KfW promotion programs</p> | |
| <p><i>Description:</i> Long-term loan (up to 15 yrs with max. 5 start-up years free of payment) in order to minimize the investment risk of SMEs and to support technology transfer; Loan covers max. 75 % of a study and is limited to US\$ 1.4 million</p> | | | |

KfW: Kreditanstalt für Wiederaufbau (government-owned loan corporation)

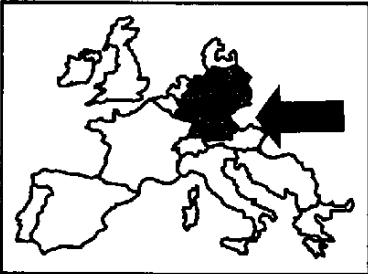
Program Profiles - Germany

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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> BMBF</p> <p><i>Granting institution:</i> VDI, VDE-IT</p> | |
| <p><i>Program name:</i> Microsystems Technologies</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Microsystems Technologies</p> | | <p><i>Eligible recipients:</i> Enterprises, universities and research institutions</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects (joint R & D Projects to improve networking between SMEs)</p> | |
| <p><i>Duration of overall program:</i> 1994 - 1999</p> | | <p><i>Budget of program:</i> US\$ 200.9 million (total)</p> | |
| <p><i>Description:</i> Particular importance is given to supporting joint projects. Subsidies for industrial joint projects: 30 % - 50 % of expenditures, additional 10 % for SMEs or companies from the new 'Länder</p> | | | |

BMBF: Ministry for Education and Research
VDI: Verband deutscher Ingenieure (German engineering association)

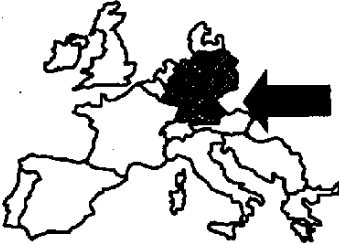
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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> BMBF</p> <p><i>Granting institution:</i> FzJ</p> | |
| <p><i>Program name:</i> MA TECH - New Materials for Key Technologies of the 21st Century</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Information technology, energy technology, telematics, medical technology, manufacturing engineering</p> | | <p><i>Eligible recipients:</i> Enterprises, universities and research institutions that wish to to research on new materials (not technologies!)</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects (for new technologies)</p> | |
| <p><i>Duration of overall program:</i> 1995 - 2004</p> | | <p><i>Budget of program:</i> US\$ 67 - 72.6 million</p> | |
| <p><i>Description:</i> Particular importance is given to supporting lead and joint projects. Subsidy given to companies covers up to 50 % for industrial basic research and up to 25 % for applied R & D</p> | | | |

BMBF: Ministry for Education and Research
FzJ: Nuclear Research Center Jülich

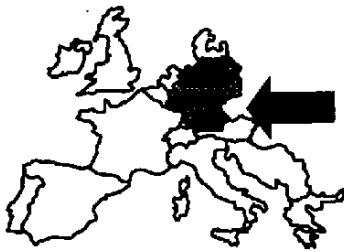
Program Profiles - Germany

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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> BMBF</p> <p><i>Granting institution:</i> DLR</p> | |
| <p><i>Program name:</i> Software Technology</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Information technology (software)</p> | | <p><i>Eligible recipients:</i> Enterprises, in particular SMEs; universities and research institutions</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects (software sector)</p> | |
| <p><i>Duration of overall program:</i> N/A</p> | | <p><i>Budget of program:</i> N/A</p> | |
| <p><i>Description:</i> Particular importance is given to supporting joint projects. Subsidy covers up to 50 % (depending on share of basic research) up to 60 % for SMEs; there is also a 10 % bonus for companies from the new 'Länder'; max. subsidy for SMEs from new 'Länder' is 65 %</p> | | | |

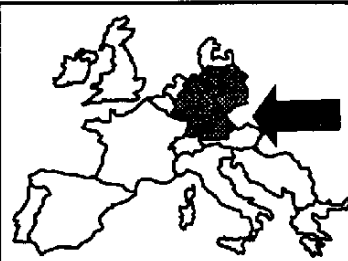
BMBF: Ministry for Education and Research

DLR: Deutsche Luft- und Raumfahrtgesellschaft (German research institute for aviation and space)


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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> 13% stake in shares of deutsche Industriebank (bank)</p> <p><i>Granting institution:</i> Stiftung Industrieforschung (Foundation for industry research)</p> | |
| <p><i>Program name:</i> Foundation for Industrial Research</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industries</p> | | <p><i>Eligible recipients:</i> Enterprises, SMEs in particular, research institutions</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects (application oriented research in SMEs)</p> | |
| <p><i>Duration of overall program:</i> launched in 1990</p> | | <p><i>Budget of program:</i> US\$ 5.6 million</p> | |
| <p><i>Description:</i> Particular importance is given to supporting joint projects. Current focus on information technologies and their use for SMEs; Subsidies cover cost of personnel, equipment and material + up to 20 % expenses; Additional subsidies for publications and events</p> | | | |

Program Profiles - Germany

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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> BMBF</p> <p><i>Granting institution:</i> FzJ</p> | |
| <p><i>Program name:</i> Competition of ideas for pilot projects</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Electronics, energy industry, food industry</p> | | <p><i>Eligible recipients:</i> Enterprises and research institutions</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects (promotion of market relevant innovative technologies)</p> | |
| <p><i>Duration of overall program:</i> launched in 3/1998</p> | | <p><i>Budget of program:</i> N/A</p> | |
| <p><i>Description:</i> Subsidy for formulation of 15 best ideas up to 50 % of cost and 100 % of expenditures with a limit of US\$ 55,800. Size of subsidy for chosen pilot projects still open.</p> | | | |

BMBF: Ministry for Education and Research
FzJ: Nuclear Research Center Jülich


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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> BMBF</p> <p><i>Granting institution:</i> FzK</p> | |
| <p><i>Program name:</i> Framework Program 'Production 2000'</p> | | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> |
| <p><i>Industry sector supported:</i> Manufacturing industries</p> | | <p><i>Eligible recipients:</i> Enterprises that wish to carry out R & D projects in the field of product and process innovation</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects (production process oriented)</p> | |
| <p><i>Duration of overall program:</i> launched in 1998</p> | | <p><i>Budget of program:</i> US\$ 251.1 million (total)</p> | |
| <p><i>Description:</i> Particular importance is given to supporting pilot and joint projects. Subsidies for companies: up to 25 % of expenditures for applied R & D projects: up to 50 % for industrial basic research; additional 10 % for SMEs of companies or the new 'Länder'</p> | | | |

BMBF: Ministry for Education and Research

FzK: Nuclear Research Center Karlsruhe

Program Profiles - Germany

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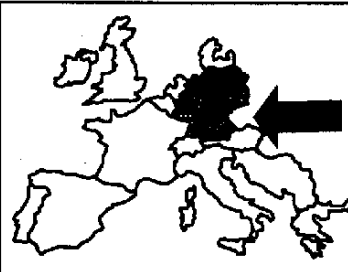
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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> BMBF</p> <p><i>Granting institution:</i> VDI, DLR</p> | |
| <p><i>Program name:</i> Physical and chemical technologies</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Manufacturing industries</p> | | <p><i>Eligible recipients:</i> Enterprises, universities and research institutions</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> Knowledge Transfer (between small technology oriented companies and the market)</p> | |
| <p><i>Duration of overall program:</i> N/A</p> | | <p><i>Budget of program:</i> N/A</p> | |
| <p><i>Description:</i> Particular importance is given to supporting joint projects</p> | | | |

BMBF: Ministry for Education and Research
VDI: Verband deutscher Ingenieure (German engineering association)

DLR: Deutsche Luft- und Raumfahrtgesellschaft
(German research institute for aviation and space)

Program Profiles - Germany

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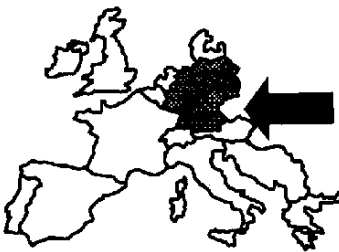
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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> BMWi</p> <p><i>Granting institution:</i> AiF</p> | |
| <p><i>Program name:</i> Industrial cooperative research and development</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> Research institutions that are members of Arbeitsgemeinschaft industrieller Forschungsvereinigungen 'Otto von Guericke'</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> Hiring, modernisation</p> | |
| <p><i>Duration of overall program:</i> launched in 1995</p> | | <p><i>Budget of program:</i> ca US\$ 95 million</p> | |
| <p><i>Description:</i> Subsidy covers cost of personnel and equipment with a limit of US\$ 55,800, other expenses are covered by a flat charge</p> | | | |

AiF: Arbeitsgemeinschaft industrieller Forschungsvereinigungen 'Otto von Guericke'
(Association of industrial research institutions) on behalf of the BMWi

BMWi: Ministry of Economics

Program Profiles - Germany

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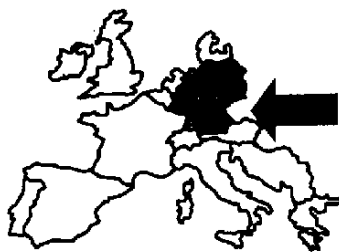
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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> BMWi</p> <p><i>Granting institution:</i> AiF</p> | |
| <p><i>Program name:</i> Research cooperation of SMEs</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> SMEs with 500 employees maximum, that are not owned at 50 % or more by one or more large enterprises (more than 1,000 employees)</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects (pan European cooperation throughout Europe)</p> | |
| <p><i>Duration of overall program:</i> current form since 1997</p> | | <p><i>Budget of program:</i> ca. US\$ 49.1 million</p> | |
| <p><i>Description:</i> Subsidy granted to enterprises forming R & D cooperations with other enterprises or research institutions. Subsidies for transnational coop. are limited to US\$ 279,020 (US\$ 334,820 for applicants from new 'Länder'), for national coop. US\$ 167,410 (223,214)</p> | | | |

AiF: Arbeitsgemeinschaft industrieller Forschungsvereinigungen 'Otto von Guericke'
(Association of industrial research institutions) on behalf of the BMWI

BMWi: Ministry of Economics

Program Profiles - Germany

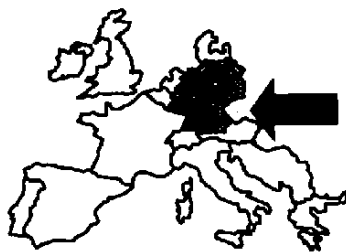
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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> BMBF</p> <p><i>Granting institution:</i> IW Köln (coordinator)</p> | |
| <p><i>Program name:</i> INSTI - SME patent campaign</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> SMEs with sales of 80 million DM max., company founders and research institutions that wish to secure their R & D results in form of patents</p> | |
| <p><i>Kind of program:</i> Subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects (which can be patented)</p> | |
| <p><i>Duration of overall program:</i> 1997 - 1998</p> | | <p><i>Budget of program:</i> US\$ 16.8 million for all 6 years</p> | |
| <p><i>Description:</i> Promotion program to improve the transformation process of innovations into marketable products. The goal is to stimulate innovations through scientific and technological information and to lower the prejudices against patents.</p> | | | |

BMBF: Ministry for Education and Research

Program Profiles - Germany

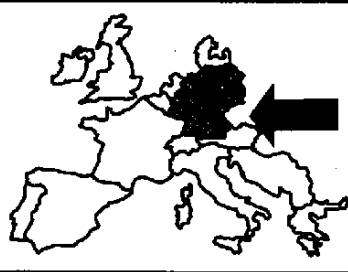
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|  | <p><i>Geographic Entity</i> Germany</p> | <p><i>Source of funds:</i> Capital Market</p> <p><i>Granting institution:</i> TbG</p> | |
| <p><i>Program name:</i> Participation program for small technology companies (BTU)</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> Small technology companies, not older than 10 years, that wish to develop new products/solutions/services</p> | |
| <p><i>Kind of program:</i> Venture capital</p> | | <p><i>Purpose of program:</i> Knowledge Transfer</p> | |
| <p><i>Duration of overall program:</i> unlimited</p> | | <p><i>Budget of program:</i> N/A</p> | |
| <p><i>Description:</i> Joint financing of pre-competitive development work or preparation of product initiation and market introduction. Duration of partnership limited to 10 years max. and capital invested up to US\$ 1.67 million (various projects possible)</p> | | | |

Tbg: Technologie-Beteiligungsgesellschaft (technology participation company - subsidy of DtA)

Program Profiles - Germany

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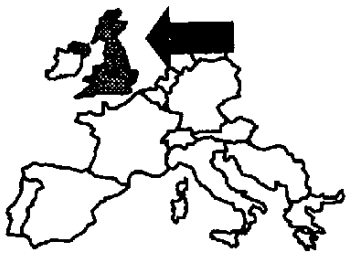
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|  | <p><i>Geographic Entity</i> Germany (new 'Länder')</p> | <p><i>Source of funds:</i> BMWi</p> <p><i>Granting institution:</i> AiF, GWE</p> | |
| <p><i>Program name:</i> Research, Development and Innovation in SMEs</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industry sectors</p> | | <p><i>Eligible recipients:</i> Enterprises or industrial research institutions with business and research location in the new 'Länder'</p> | |
| <p><i>Kind of program:</i> Repayable subsidy</p> | | <p><i>Purpose of program:</i> R & D Projects (with non-profit research institutes)</p> | |
| <p><i>Duration of overall program:</i> current form since 1998</p> | | <p><i>Budget of program:</i> N/A</p> | |
| <p><i>Description:</i> Subsidy covers 45 % max. of the R & D project expenditures of SMEs that are not older than 3 years, 45 % max. of expenditures of industry near research institutions and 75 % of expenditures of non-profit research institutions</p> | | | |

AiF: Arbeitsgemeinschaft industrieller Forschungsvereinigungen 'Otto von Guericke'
(Association of industrial research institutions) on behalf of the BMWi

BMWi: Ministry of Economics
GWE: Gesellschaft für Wirtschafts- und Entwicklungsplanung
(Society for economic and development planning)

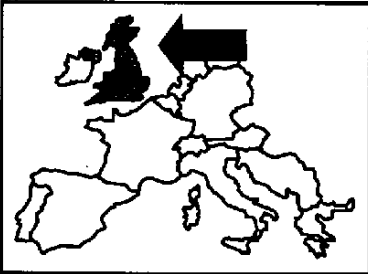
Program Profiles - United Kingdom

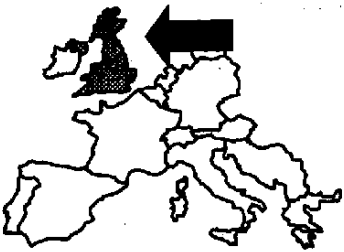
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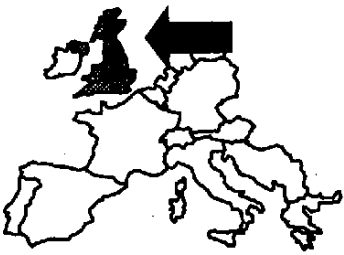
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|  | <p><i>Geographic Entity</i> United Kingdom</p> | <p><i>Source of funds:</i> Department of Trade and Industry</p> <p><i>Granting institution:</i> Department of Trade and Industry & Computing services & software association</p> | |
| <p><i>Program name:</i> Software Business Network</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Software businesses</p> | <p><i>Eligible recipients:</i> Young, small enterprises</p> | | |
| <p><i>Kind of program:</i> Advice</p> | <p><i>Purpose of program:</i> Start Up (assistance for small enterprises)</p> | | |
| <p><i>Duration of overall program:</i> Feb 1998 - not known</p> | <p><i>Budget of program:</i> US\$ 3.3 million over 3 years cost of subscription: US\$ 250.5/year</p> | | |
| <p><i>Description:</i> Helping young companies to grow faster and compete more successfully</p> | | | |

Program Profiles - United Kingdom

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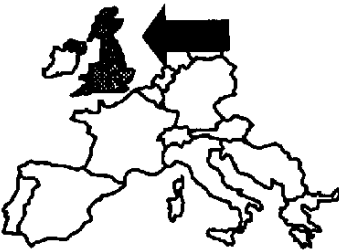
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|  | <p><i>Geographic Entity</i> United Kingdom</p> | <p><i>Source of funds:</i> Department of Trade and Industry subsidises cost of membership</p> <p><i>Granting institution:</i> Department of Trade and Industry</p> | |
| <p><i>Program name:</i> Time to Market</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Electronic industries</p> | | <p><i>Eligible recipients:</i> All companies</p> | |
| <p><i>Kind of program:</i> Advice</p> | | <p><i>Purpose of program:</i> Knowledge Transfer</p> | |
| <p><i>Duration of overall program:</i> 1991 - 2002</p> | | <p><i>Budget of program:</i> US\$ 701,285.7 over 3 years Subscription: US\$ 8,349/year</p> | |
| <p><i>Description:</i> To encourage best practice in the management of product development processes</p> | | | |

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|  | <p><i>Geographic Entity</i> United Kingdom</p> | <p><i>Source of funds:</i> Department of Trade and Industry</p> <p><i>Granting institution:</i> Department of Trade and Industry / Computing services & software association / FEI</p> | |
| <p><i>Program name:</i> UK Telecoms Software Club</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Communication Technology (telecoms software)</p> | | <p><i>Eligible recipients:</i> UK-based telecoms software companies</p> | |
| <p><i>Kind of program:</i> Advice</p> | | <p><i>Purpose of program:</i> Expansion (of use and awareness of communication technologies)</p> | |
| <p><i>Duration of overall program:</i> N/A</p> | | <p><i>Budget of program:</i> Part of ISI Initiative. Subscription: US\$ 141,9/year + workshop fees</p> | |
| <p><i>Description:</i> To promote, expand and strengthen the UK-based telecommunications software industry, by creating a network which adds value through teamwork</p> | | | |

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|  | <p><i>Geographic Entity</i> United Kingdom</p> | <p><i>Source of funds:</i> Department of Trade and Industry</p> <p><i>Granting institution:</i> Department of Trade and Industry</p> | |
| <p><i>Program name:</i> Information Society Initiative</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> All industries</p> | | <p><i>Eligible recipients:</i> All businesses</p> | |
| <p><i>Kind of program:</i> Advice with some limited financial grants</p> | | <p><i>Purpose of program:</i> Start Up (provide business access to guidance and advice)</p> | |
| <p><i>Duration of overall program:</i> 02/1996 - 2000</p> | | <p><i>Budget of program:</i> US\$ 58.44 million</p> | |
| <p><i>Description:</i> To help British businesses thrive in the emerging information-based economy</p> | | | |

Program Profiles - United Kingdom

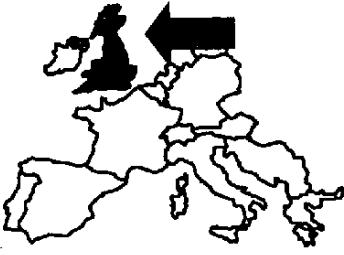
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|  | <p><i>Geographic Entity</i> United Kingdom</p> | <p><i>Source of funds:</i> UK Government</p> <p><i>Granting institution:</i> OSTDTI (involves all Government departments)</p> | |
| <p><i>Program name:</i> Foresight</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Information technology, electronics and communications technology (16 panels, including one of the 16 devoted to IT, electronics and communications)</p> | | <p><i>Eligible recipients:</i> All UK companies (particularly small and medium firms) in collaboration with UK research base partners</p> | |
| <p><i>Kind of program:</i> Financial grants and strategic planning</p> | | <p><i>Purpose of program:</i> Knowledge transfer (between business, academia and government)</p> | |
| <p><i>Duration of overall program:</i> 1995 - 2000 (with review in 1999 for next program)</p> | | <p><i>Budget of program:</i> US\$ 667.9 million public US\$ 1,001.9 million private sector funds committed thus so far</p> | |
| <p><i>Description:</i> To create enduring networks linking business, academia and Government to improve response to opportunities in markets and technologies</p> | | | |

OSTDTI: Office of Science & Technology, Department of Trade and Industry

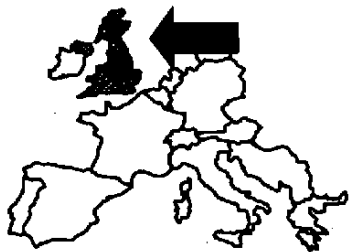
Program Profiles - United Kingdom

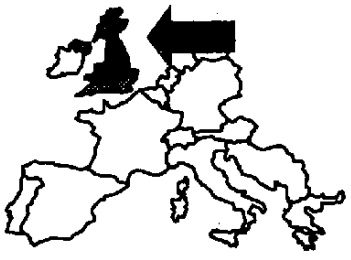
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|  | <p><i>Geographic Entity</i> United Kingdom</p> | <p><i>Source of funds:</i> UK Government</p> <p><i>Granting institution:</i> Department of Trade and Industry various government departments and Research Councils and industry</p> | |
| <p><i>Program name:</i> LINK (Part of Foresight Initiative)</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Information technology, electronics and communications technology (56 LINK programmes covering wide range of technology, including IT, electronics and communications)</p> | <p><i>Eligible recipients:</i> All UK companies (particularly small and medium firms) in collaboration with UK research base partners</p> | | |
| <p><i>Kind of program:</i> Subsidy</p> | <p><i>Purpose of program:</i> Knowledge transfer (between business, academia and government)</p> | | |
| <p><i>Duration of overall program:</i> 1995 - 2000</p> | <p><i>Budget of program:</i> Government contribution: US\$ 55.1 million/year, equal industry contribution. Spending to date: US\$ 718 million</p> | | |
| <p><i>Description:</i> Supporting collaborative research partnership between UK industry and science & engineering base</p> | | | |

Program Profiles - United Kingdom

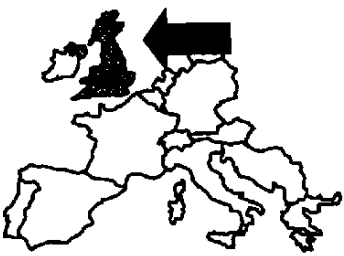
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|---|--|--|--|
|  | <p><i>Geographic Entity</i> United Kingdom (England)</p> | <p><i>Source of funds:</i> Department of Trade and Industry</p> <p><i>Granting institution:</i> Department of Trade and Industry</p> | |
| <p><i>Program name:</i> Smart</p> | | <p><input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Innovative Technology</p> | <p><i>Eligible recipients:</i> Feasibility studies: Independent small businesses < 50 employees and to > ECU 7 million or balance sheet total > ECU 5 million</p> | | |
| <p><i>Kind of program:</i> Subsidy</p> | <p><i>Purpose of program:</i> R & D Projects (identify markets and technologies to increase national prosperity)</p> | | |
| <p><i>Duration of overall program:</i> April 1997 - not known</p> | <p><i>Budget of program:</i> Depends on eligible projects</p> | | |
| <p><i>Description:</i> To identify opportunities in markets and technologies which will enhance nation's prosperity and quality of life</p> | | | |

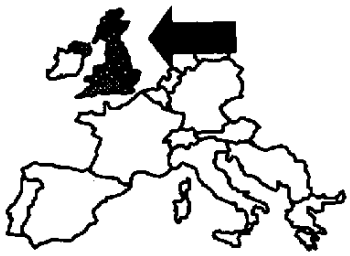
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|  | <p><i>Geographic Entity</i> United Kingdom (Northern Ireland)</p> | <p><i>Source of funds:</i> Department of Trade and Industry with industry contribution</p> <p><i>Granting institution:</i> Department of Trade and Industry</p> | |
| <p><i>Program name:</i> Growing Software Sector</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Information Technology (Software businesses)</p> | | <p><i>Eligible recipients:</i> Young, small enterprises</p> | |
| <p><i>Kind of program:</i> Infrastructure support and Subsidy</p> | | <p><i>Purpose of program:</i> Start Up (promote competitiveness amongst new businesses)</p> | |
| <p><i>Duration of overall program:</i> 3 years started 1 June 1997</p> | | <p><i>Budget of program:</i> US\$ 414,093</p> | |
| <p><i>Description:</i> Increase number of companies in target region by 20 %</p> | | | |

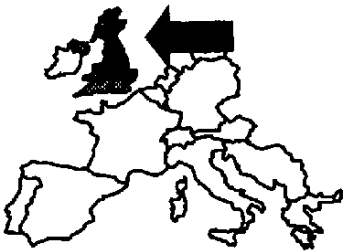
Program Profiles - United Kingdom

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|  | <p><i>Geographic Entity</i></p> <p>United Kingdom (Scotland)</p> | <p><i>Source of funds:</i></p> <p>N/A</p> <p><i>Granting institution:</i></p> <p>Private sector</p> | |
| <p><i>Program name:</i></p> <p>Connect</p> | | <p><input checked="" type="radio"/> IT-dedicated</p> <p><input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i></p> <p>Information Technology, electronics (high technology businesses such as semiconductor, electronics, IT, etc.)</p> | | <p><i>Eligible recipients:</i></p> <p>Any company with high growth and potential</p> | |
| <p><i>Kind of program:</i></p> <p>Advice</p> | | <p><i>Purpose of program:</i></p> <p>Knowledge Transfer (help businesses develop skills, resources and source finance. Help academics to commercialise research)</p> | |
| <p><i>Duration of overall program:</i></p> <p>September 1996 - not known</p> | | <p><i>Budget of program:</i></p> <p>Will not disclose</p> | |
| <p><i>Description:</i></p> <p>To help businesses develop their skills and resources and source finance and help academics to commercialise their research</p> | | | |

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|--|---|--|--|
|  | <p><i>Geographic Entity</i> United Kingdom (Scotland)</p> | <p><i>Source of funds:</i> Scottish Enterprise and capital funding company</p> <p><i>Granting institution:</i> Scottish Enterprise and capital funding company</p> | |
| <p><i>Program name:</i> Scottish Technology Fund</p> | | <p><input checked="" type="radio"/> IT-dedicated <input type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i> Information Technology, electronics (high technology businesses such as semiconductor, electronics, IT, etc.)</p> | | <p><i>Eligible recipients:</i> High-tech companies</p> | |
| <p><i>Kind of program:</i> Capital funding for start up</p> | | <p><i>Purpose of program:</i> Start Up (help new high tech companies with Start Up)</p> | |
| <p><i>Duration of overall program:</i> N/A</p> | | <p><i>Budget of program:</i> N/A</p> | |
| <p><i>Description:</i> Capital funding for start ups showing high growth potential in emerging technology sectors such as software and electronics</p> | | | |

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|  | <p><i>Geographic Entity</i> United Kingdom (Wales)</p> | <p><i>Source of funds:</i> Department of Trade and Industry</p> <p><i>Granting institution:</i> Welsh Development Agency</p> | |
| <p><i>Program name:</i> Centres of Expertise</p> | | <p> <input type="radio"/> IT-dedicated <input checked="" type="radio"/> General purpose </p> | |
| <p><i>Industry sector supported:</i> Manufacturing companies</p> | | <p><i>Eligible recipients:</i> All business, based in rural Wales, on first-come-first-served basis</p> | |
| <p><i>Kind of program:</i> Advice</p> | | <p><i>Purpose of program:</i> Knowledge Transfer (between industry and researchers)</p> | |
| <p><i>Duration of overall program:</i> April 1997 - April 1999 Give help to 100 projects/companies</p> | | <p><i>Budget of program:</i> Small (more advice-oriented)</p> | |
| <p><i>Description:</i> Identifies and promotes academic groups with a good research record and encourages collaboration with industry</p> | | | |

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|  | <p><i>Geographic Entity</i></p> <p>United Kingdom (Wales)</p> | <p><i>Source of funds:</i></p> <p>Department of Trade and Industry</p> <p><i>Granting institution:</i></p> <p>Welsh Development Agency</p> | |
| <p><i>Program name:</i></p> <p>Regional Technology Plan</p> | | <p><input type="radio"/> IT-dedicated</p> <p><input checked="" type="radio"/> General purpose</p> | |
| <p><i>Industry sector supported:</i></p> <p>Technology enterprises</p> | | <p><i>Eligible recipients:</i></p> <p>All business, based in rural Wales, on first-come-first-served basis</p> | |
| <p><i>Kind of program:</i></p> <p>Advice</p> | | <p><i>Purpose of program:</i></p> <p>Start Up (promote growth in Wales with high technology Start Ups)</p> | |
| <p><i>Duration of overall program:</i></p> <p>April 1997 - April 1999 Give help to 60 projects/companies</p> | | <p><i>Budget of program:</i></p> <p>Small (more advice-oriented)</p> | |
| <p><i>Description:</i></p> <p>To promote economic growth in Wales with start-up of high-tech industries</p> | | | |

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