



Buenos-Aires
June 26th 2000



The Fifth Framework Programme

*Creating a User-Friendly
Information Society*

Jean-Yves ROGER

European Commission

DG INFSO

IST programme



Buenos-Aires
June 26th 2000



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European Commission
Directorate General Information Society

Information Society Technologies Programme (IST)

International Aspects of the IST Programme

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Directorate General INFSO activities

- ✓ Communications services : Policy & Regulatory Framework
- ✓ *IST: Information Society Technologies Programme*

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R&D and the European Commission



- Supported through successive four year periods called *Framework Programmes (FP)*
- Major strategic reorientations and financial scope decided at the beginning of each FP
- FP5 covers 1998 to 2002 (1st call : 15/03/1999)

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The fifth framework programme 1998-2002



Key actions

Quality of life and
living resources

2.413 BEURO

Key actions

Creating a User
friendly
Information
Society

3.6 BEURO

Key actions

Promoting
competitive &
sustainable
growth

2.705 BEURO

Key actions

Energy,
environment &
sustainable
development

1.083 BEURO

International Cooperation

0.475 BEURO

Innovation and SMEs

0.363 BEURO

Human Potential

1.28 BEURO

Total: 16.3 BEURO

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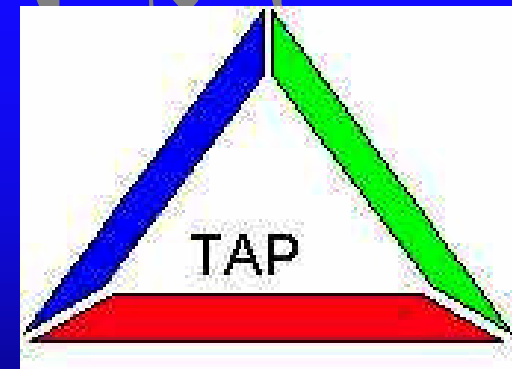
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Fourth Framework Programme (1994 - 1998)



ACTS



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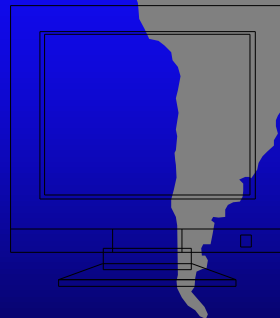
Convergence and the Global Networked Society



Media

Communications

Computing



“Single Digital Space”

High-bandwidth Anywhere

**Added-value:
New Applications and Services**

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THE IST Programme



The strategic objective of the Information Society Technologies (IST) Programme is to realise the benefits of the information society for Europe both by accelerating its emergence and by ensuring that the needs of individuals and enterprises are met.

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The Programme strategy



- Maintain and strengthen Europe's :

- research potential
- knowledge-based excellence
- high-quality technology

- Support economic and social objectives of EU

Put S&T progress at the service of the EU and its policies



The IST Programme

3.6 BEURO



KA1: Systems and services for the citizen	0.646 BEURO
KA2: New methods of work and electronic commerce	0.547 BEURO
KA3: Multimedia content and tools	0.564 BEURO
KA4: Essential technologies and infrastructures	1.363 BEURO
Future and emerging technologies	0.319 BEURO
Research networking	0.161 BEURO

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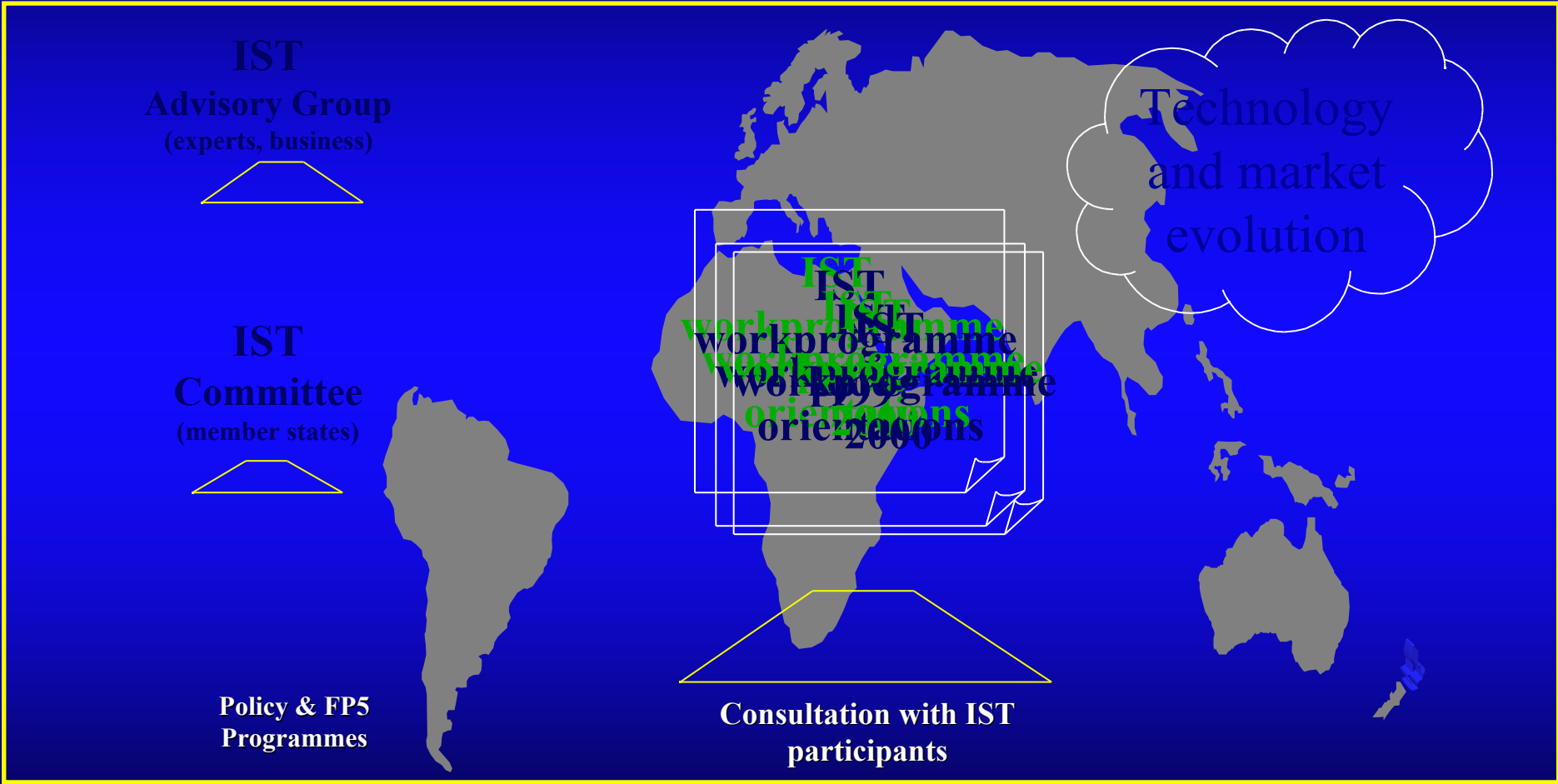
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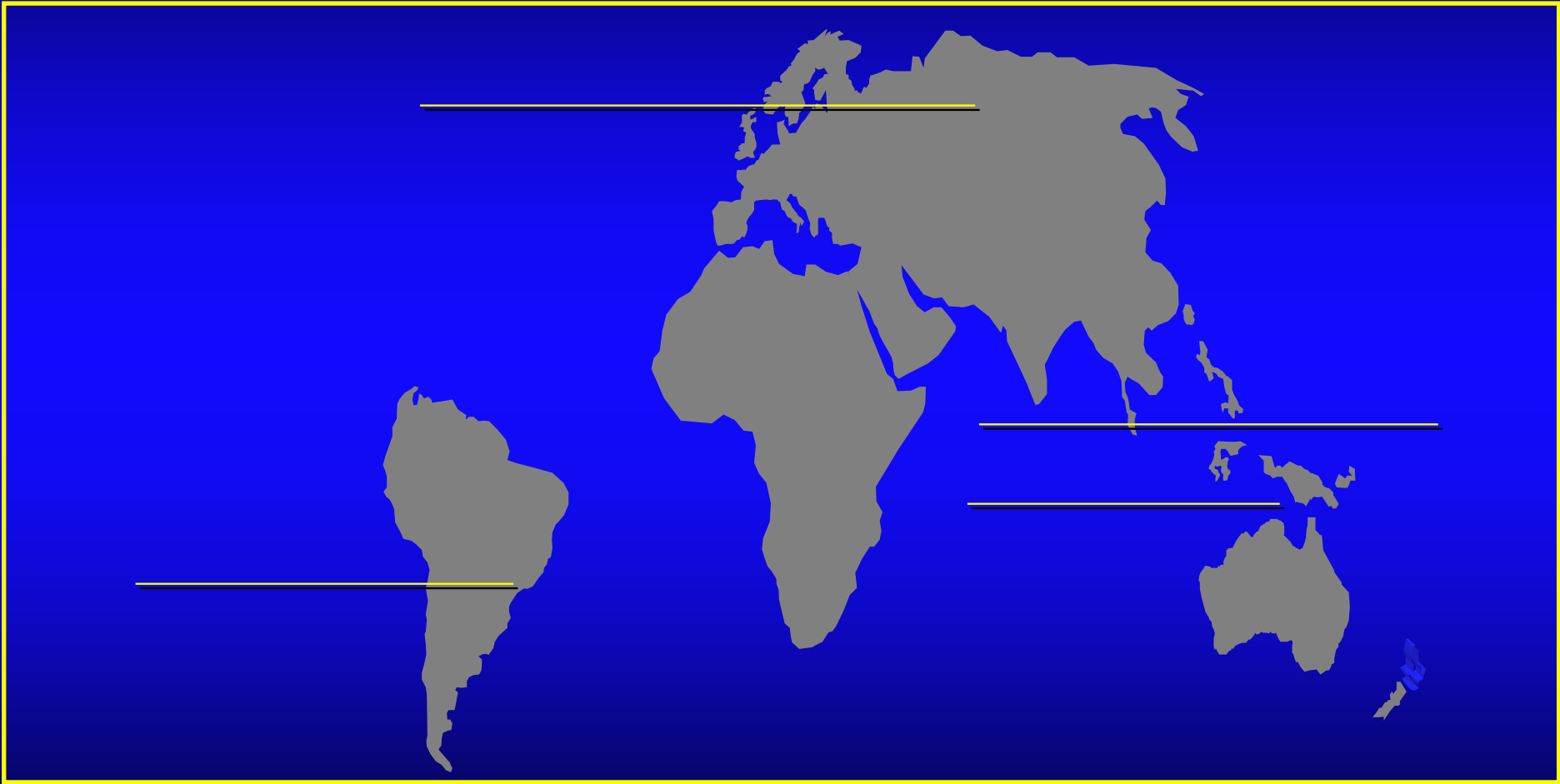
Annual workprogramme update





ISTAG Vision

“orientations for WP2000 and beyond”



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IST vision – Ambient intelligence



‘Our surrounding is the interface’ to IST applications and services

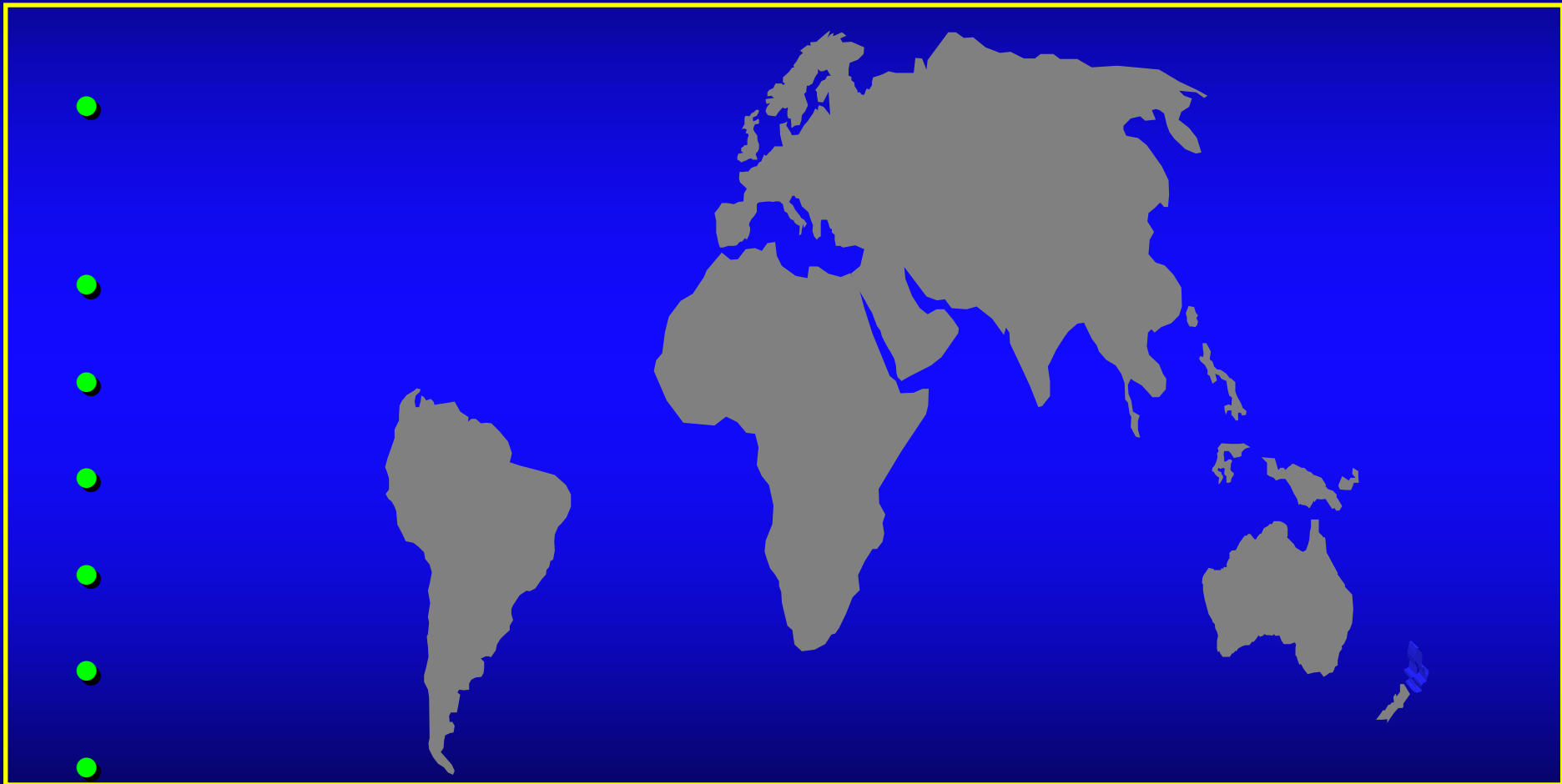
- ★ **Route optimisation & navigation (efficiency)**
- ★ **Interpretation and reaction to obstacles (safety)**
- ★ **Communications (mobile office)**
- ★ **Services accessible everywhere (convenience)**
- ★ **Security (protection), comfort (control) and care (illness)**



★ **Where is my office? Where is my integrated toolset?**



WP2000 – priorities



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Key Action I

Systems & services for the citizen



Foster the creation of the next generation of user-friendly, dependable, cost-effective and interoperable general-interest services, meeting user demands for flexible access, for everybody, from anywhere, at any time.

RTD Priorities:

- Health
- Elderly and disabled
- Administrations
- Environment
- Transport & tourism





Main highlights : Key Action I



- ★ **Innovation: System integration, specific targeted components**
- ★ **Ubiquitous/mobile access and advanced interaction modes**
- ★ **New value chains**



- ★ **All AIs reshaped health, elderly and disabled, administrations,**

- ★ **Best practice and demonstrations in regional healthcare**

Jean-Benoit Guillard, Programme Director, Programme collection



Key Action II

New methods of work and electronic commerce



Support innovation in work and business in Europe through the development and use of advanced information society technologies and improve the quality of the individual's working life.

RTD Priorities:

- **Work organisation**
- **Business and market organisation**
- **Business and market processes**
- **Trust and confidence**





Main highlights : Key Action II



- Two new themes cutting across the Key Action:
Mobile & Ubiquitous eCommerce and eWork
Knowledge Management for eCommerce & eWork
- Four refocused core themes:
Dynamic Value Constellations, Trust&Security
Sustainable Workplace Design, “Smart” Organisations

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Key Action III

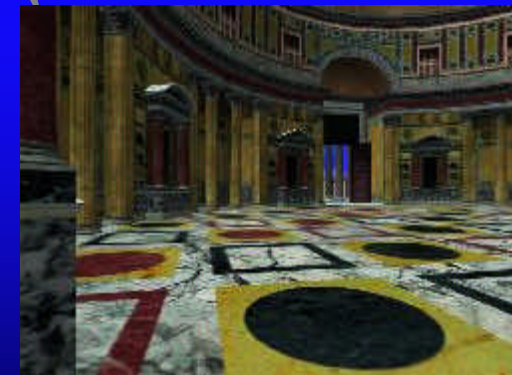
Multimedia content & tools



The aim of this work is to improve the functionality, usability and acceptability of future information products and services to enable linguistic and cultural diversity and contribute to the valorisation and exploitation of Europe's cultural patrimony, to stimulate creativity, and to enhance education and training systems for lifelong learning.

RTD Priorities:

- **Electronic publishing**
- **Cultural heritage**
- **Education and training**
- **Language technologies**
- **Information access & handling**





Main highlights : Key Action III



- ★ cross-media content
- ★ Natural interactivity
- ★ Applications: personalised Web, advanced digital libraries, school of the future, etc
- ★ Middleware technology: for cross-media, multilingual, multimodal applications (IP/mobile/fixed)
- ★ Standards and consensus: media representation & exchange,
- ★ Mobile and domestic content processing and access

★ Personalisation in content creation

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Key Action IV

Essential Technologies and Infrastructure



The aim of this work is to promote excellence in the technologies which are crucial to the Information Society, to accelerate their take-up and broaden their field of application.

RTD Priorities:

- Information processing, communications & networking
- Software, systems & services
- Simulation & visualisation
- Mobile & personal communications & systems
- Interfaces
- Peripherals, subsystems & microsystems
- Microelectronics



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Main highlights : Key Action IV



- ★ IP/Mobile/fixed
- ★ Broadcasting and communications
- ★ Embedded devices, Software, real-time systems

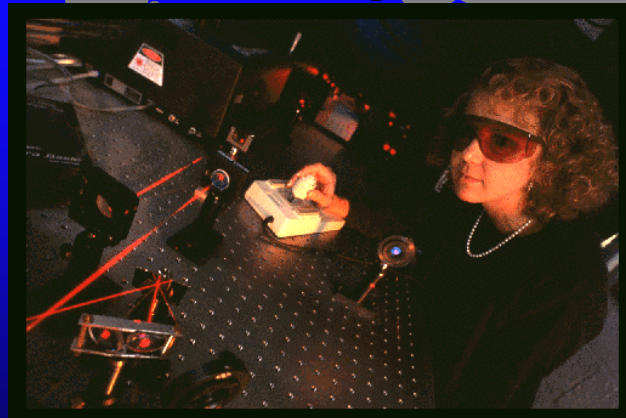
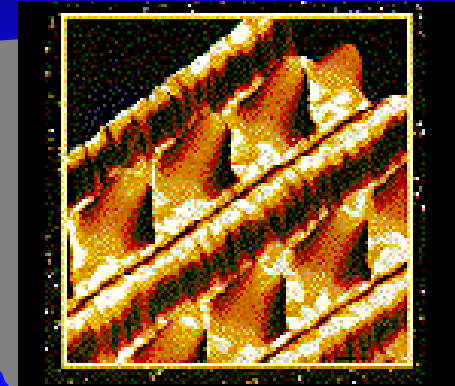
★ Integration in short to medium term
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★ Higher performance and adaptivity in longer term



Future and Emerging Technologies



- **High risk or longer term research**
- **Potential for breakthroughs and social or industrial impact**



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Future & emerging technologies



– Disappearing computer

Everyday objects infused and augmented with IT...

... forming collections of artefacts that act together...

... to create new behaviours and augmented environments...

... that enrich everyday life simply and naturally

– Neuro-informatics for “living” artefacts

Exploring synergies between neurosciences and IT

Construction of hardware/software artefacts that self-adapt and evolve in the real world

Joint call with DG Research

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Research Networking



- **Broadband interconnection of national research, education and training networks, and testbeds**
- **Testbeds for advanced networking and application experiments**





Structure of the IST Programme



IST - Programme



**Systems & Services
for the citizen**



**Multimedia
content & tools**



**New methods of working
& Electronic Commerce**



**Essential technologies
& infrastructure**



Future & emerging technologies



Research networking

Information Society Technologies Programme (IST)



Cross-programme Themes



Objective:

- Integration & coordination
- Multidisciplinary RTD

Home environments (ambient intelligence at home)

Natural interactions and dialogue modes (enjoyable...)

Mobility (mobile services..)

Survivability of large scale systems (trust and confidence..)

Smart cards (seamless services..)

Next Generation Networks (convergence of infrastructure)

Socio-economic (usability, acceptability,...)

Statistical tools, methods, indicators & applications for the Information Society

Strategy

- Programme level actions
- Clustering and Concertation

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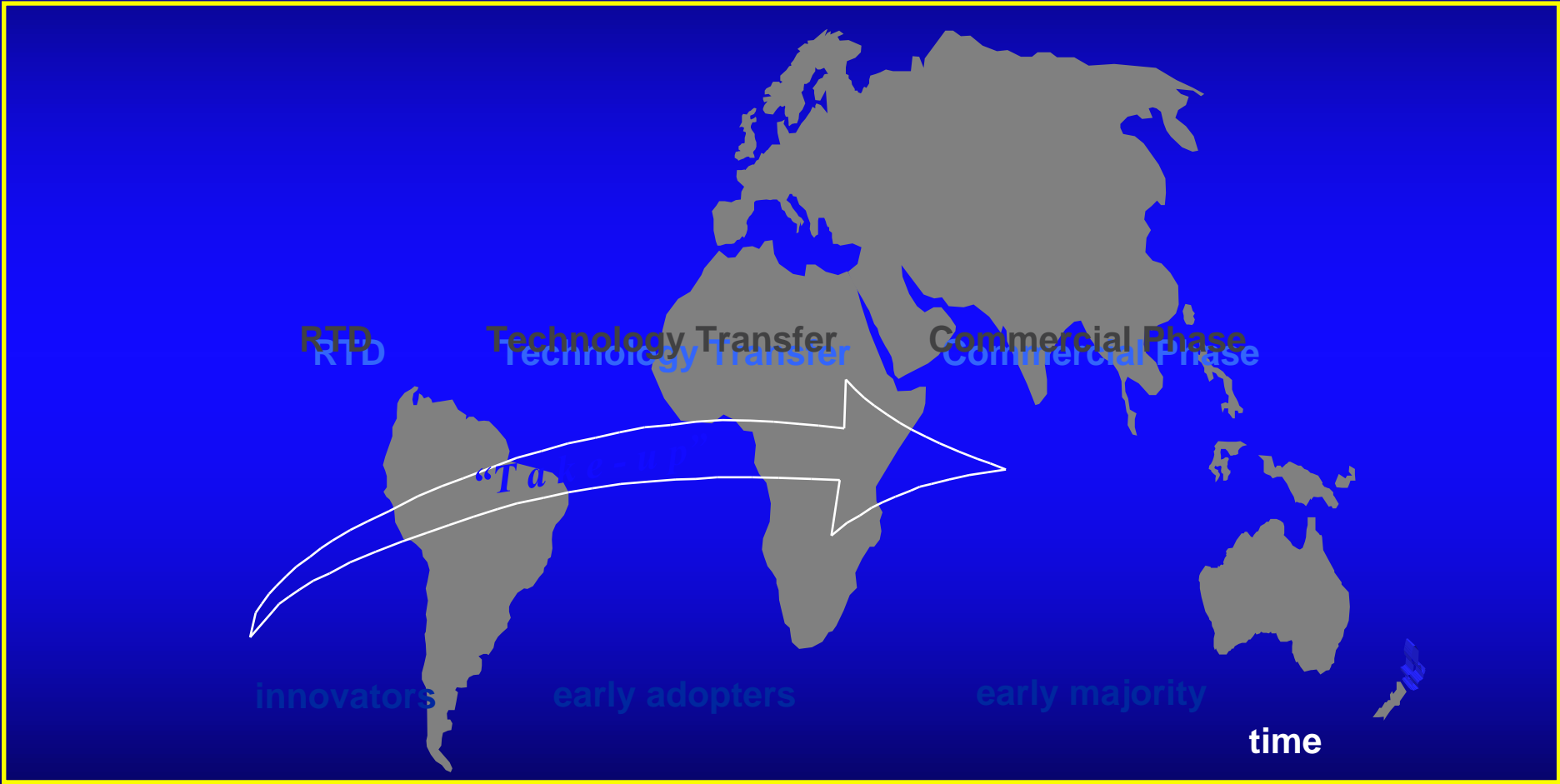
Forms of participation



- **Shared cost RTD (Research, Demonstration, Combined R&D)**
- **Coordination (Concerted Actions, Thematic Networks)**
- **Accompanying Measures (Take-up)**
- **Fellowships (Marie Curie)**
- **SME Awards / Cooperative Research**

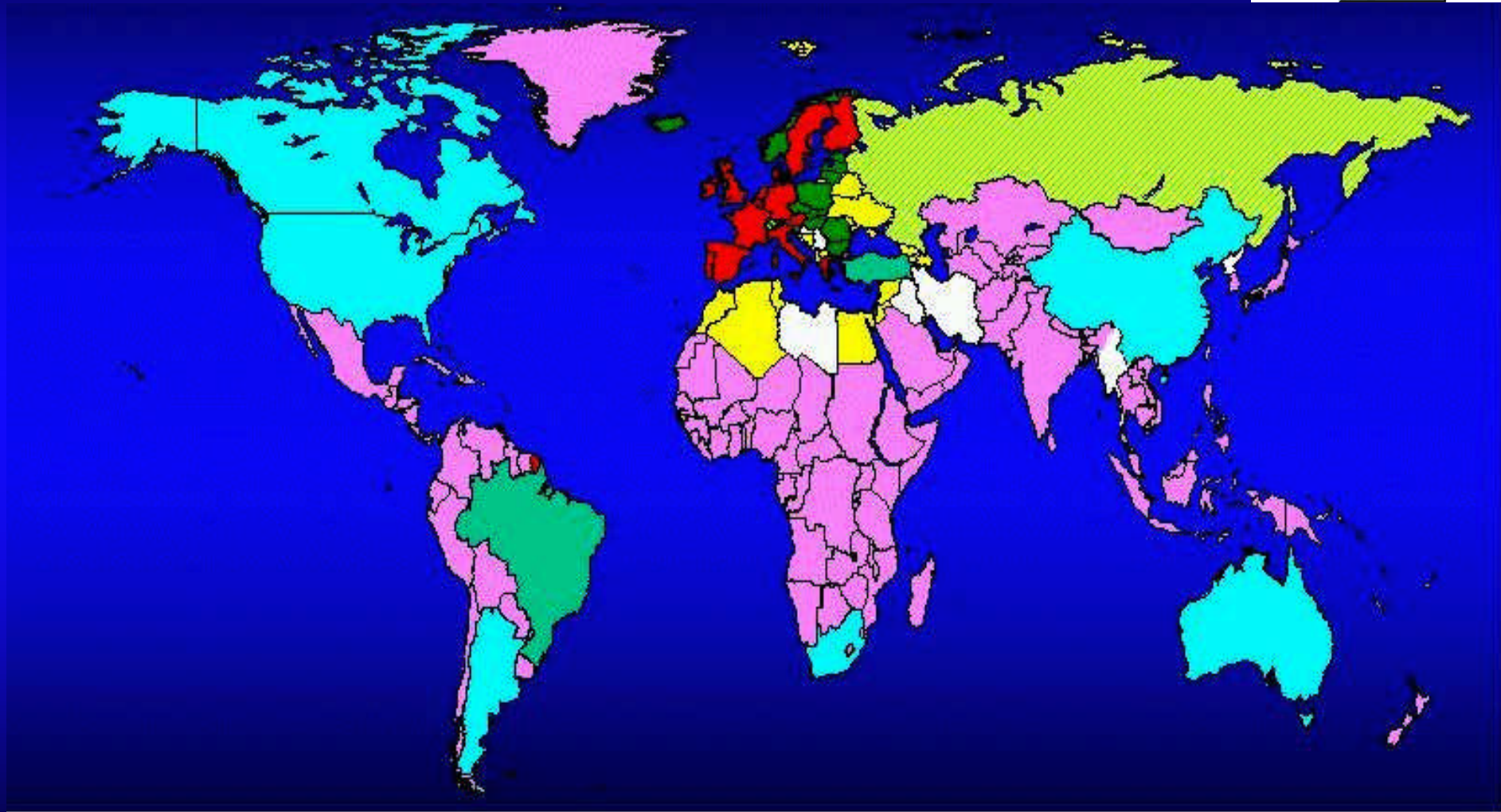


“Take-up”





**INTERNATIONAL RTD COOPERATION IN FP5
(1998-2002)**
Participation possibilities of third countries in thematic
programmes



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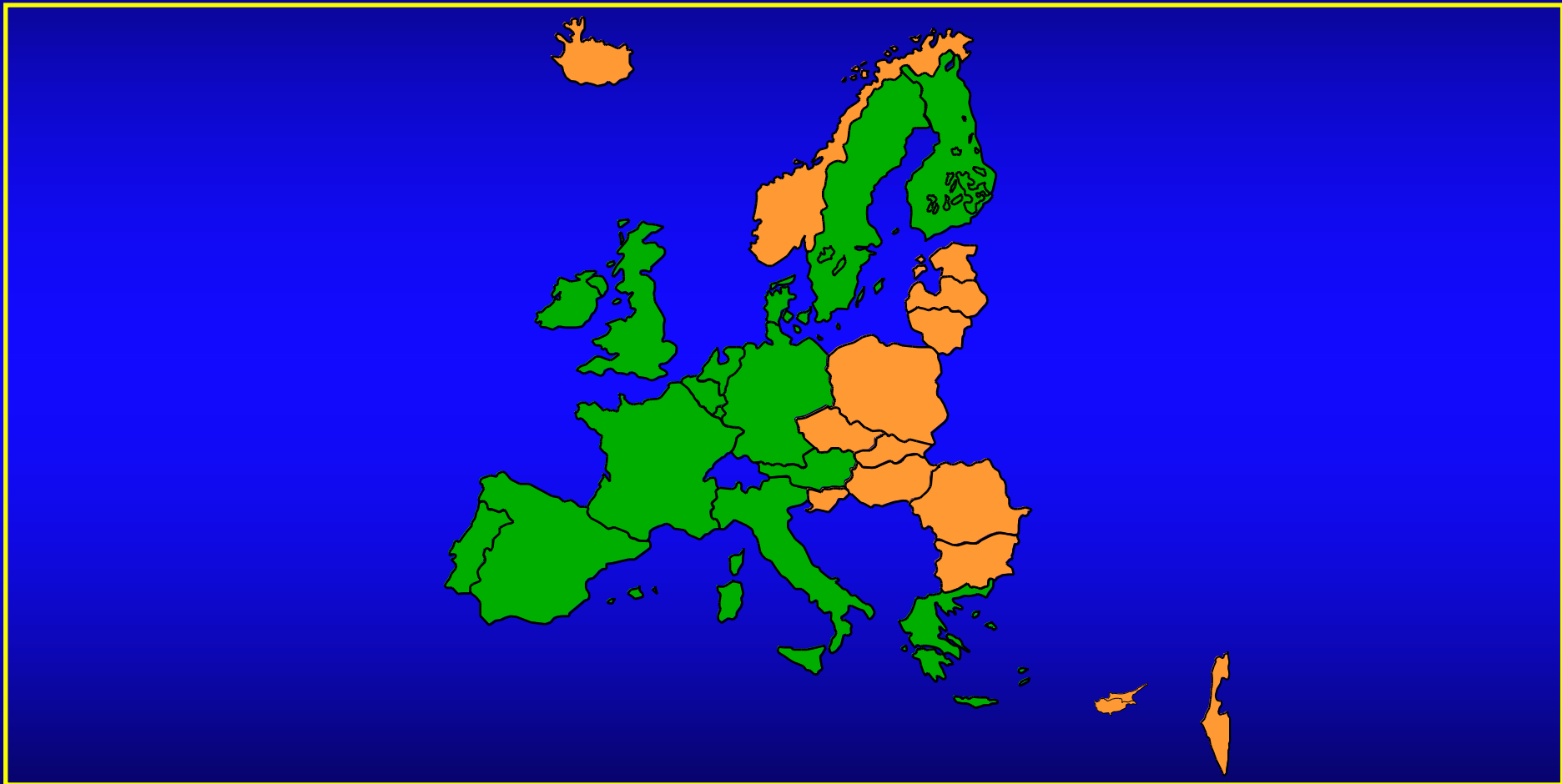
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Fifth Framework Programme association



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International Co-operation in the IST Programme



Banks

EU - LATIN AMERICA

**National
Funds**

**EU
Programmes**



Industry

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EU-Latin America cooperation in IST



Rules for participation

- ✓ On a project by project basis
- ✓ In conformity with interests of the Community
- ✓ Of substantial added value for implementing SP
- ✓ Together with the minimum number of legal entities from the Community and Associated States.
- ✓ Without Community funding.

If duly justified as being essential for achieving the objectives of the project the Community can exceptionally fund this participation

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EU-Latin America cooperation in IST



Argentina :

S&T agreement. 3M\$ per year to cover Argentinian participation in FP5

Brazil :

IST - CNPq arrangement 2.7M\$ for 3 years to cover Brazilian participation in the IST programme

Acronym	Org Name	City	Abstract	Rate
DUN	Asociacion Orion	La Plata	The objective is to support and accelerate the uptake of ICT in higher education to (1) enhance learning,(2) provide open and flexible learning and (3) realise inter-university networking as a necessary step towards the digital University Network.	Failed
MONICR	Centor De Investigacion Y Desarrollo En Electronics E Informatica	San Martin - Buenos Aires	This proposal seeks to provide both patients and the sanitary system with an innovative way to monitor patient relevant parameters outside health care institutions. The MONITOR system includes technological leading edge but available microsystems	Failed
	Fundacion Favaloro	Buenos Aires		
	Siemens Sociedad Anonima	San Martin - Buenos Aires		
GLOBALMED	Universidad Nacional De La Plata	La Plata		Failed
	Fundacion De Informatica Medica	Buenos Aires	GLOBALMED is a multilingual worldwide, end-to-end telemedicine service, accessed by various platforms. Services (provided via audio, visual and data/text media and the internet), will be accessible within cities, between continents, and from the remote pl	
IBERNET	Centro De Investigacion Y Desarrollo En Electronica E Informatica	San Martin - Buenos Aires	The main goal of IBERNET is to disseminate microtechnologies as a powerful innovation tool and to promote its use as a product innovation resource focusing on the most relevant Latin American industry sectors.	Selected
	Universidad Nacional De La Plata	La Plata		
BERTAKE	Inst Nacional De Tecnologia Industrial Centro De Investigacion Y Desarrollo En Telecomunicaciones, Electronica E Informatica	San Martin - Buenos Aires	The main goal of IBERTAKE is to promote the development - in the Latin American countries of industrial applications that make use of innovative microtechnologies takeovers. This goal will be achieved by the consolidation of the existing IBERCHIP network.	Failed
	Universidad Nacional De La Plata	La Plata		
BERTECH	Inst Nacional De Tecnologia Industrial Centro De Investigacion Y Desarrollo En Telecomunicaciones, Electronica E Informatica	San Martin - Buenos Aires	The main goal of IBERTECH is to offer to Latin American researchers and industries well defined ways and strategies for accessing the microelectronics and microsystems fields. This comprises access to appropriate design tools, access to silicon services.	Failed
	Universidad Nacional De La Plata	La Plata		
NESSY	Universidad Nacional De Quilmes	Bernal - Buenos Aires	NESSY aims at studying and developing project evaluation methodologies and indicators in virtual or Internet-based environments in the field of educational research which can be of great interest for both research institutions and funding agencies.	Selected



EU-Latin America cooperation in IST



THE EUROLATIS PROJECT:

Objective:

Boost Euro-Latin American collaboration in areas of application of Information Society Technologies.

More specifically to boost the number of concrete actions undertaken by consortia of European and Latin American companies, researchers and intermediaries, in areas of importance for social and economic development in the Latin American region.

Argentine contact point: Albornoz, Mario albornoz@ricyt.edu.ar
Universidad Nacional de Quilmes

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Fourth IST call

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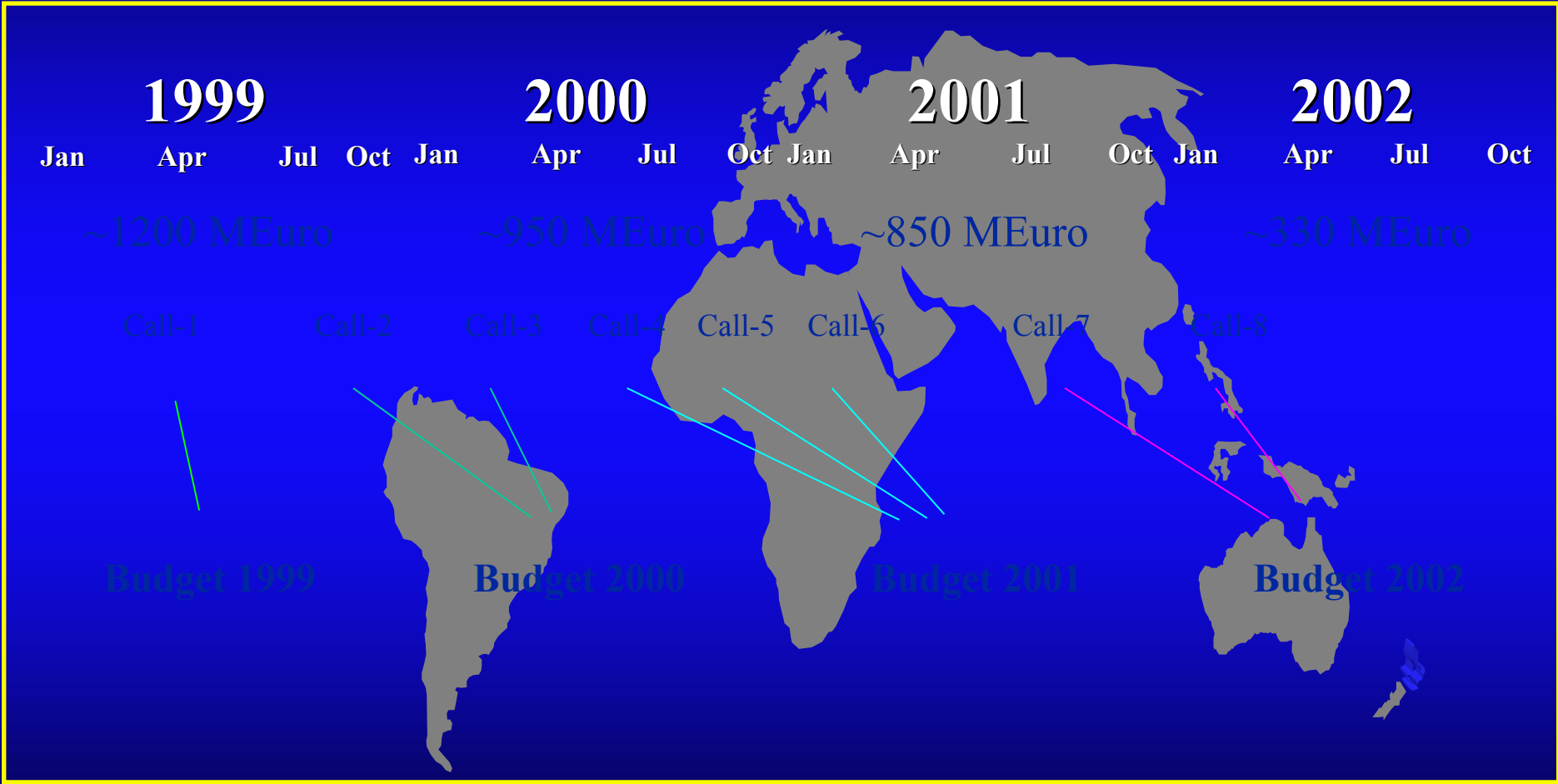
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IST timetable





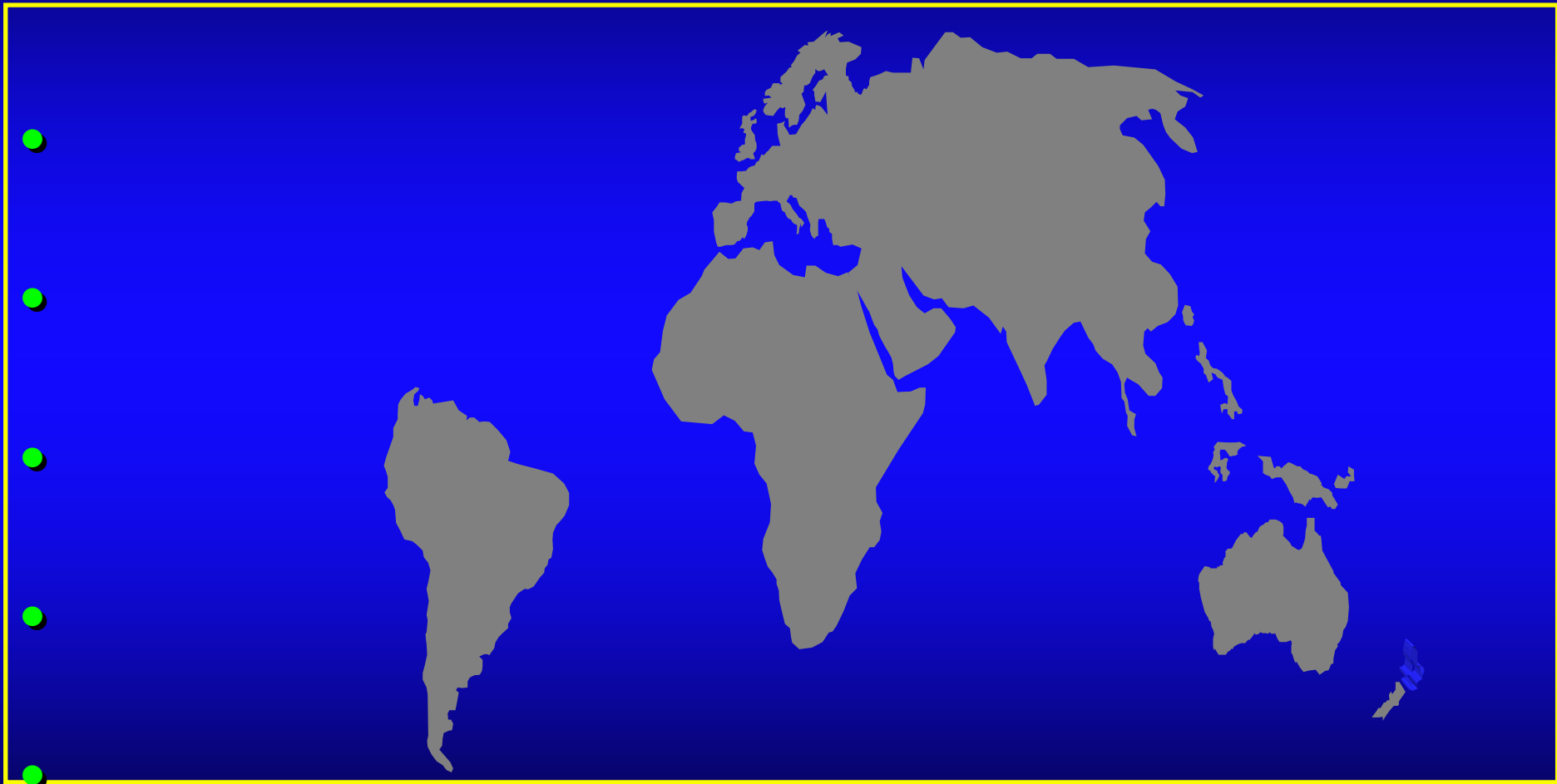
Preparing for the fourth Call



- July 2000 4th Call - Publication
- October 2000 4th Call - Deadline
- November 2000 4th Call - Evaluation
- Indicative budget: 450 MEUROS



Fourth IST call (Second call in 2000)



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Fourth call: KA I



- ★ **IST 2000 – 1.3.1 Smart Government 2005–2010**
- ★ **IST 2000 – 1.4.1 Intelligent environment management, risk and emergency systems (focusing on generic systems)**
- ★ **IST 2000 – 1.5.1 Intelligent transport structures**
- ★ **IST 2000 – 1.5.2 Intelligent vehicle systems**
- ★ **IST 2000 – 1.5.4 Intelligent systems for improved tourism and travel services**
- ★ **IST 2000 – 1.5.3 Best-Practice and demonstrations actions in e-fee collection (Take-up)**

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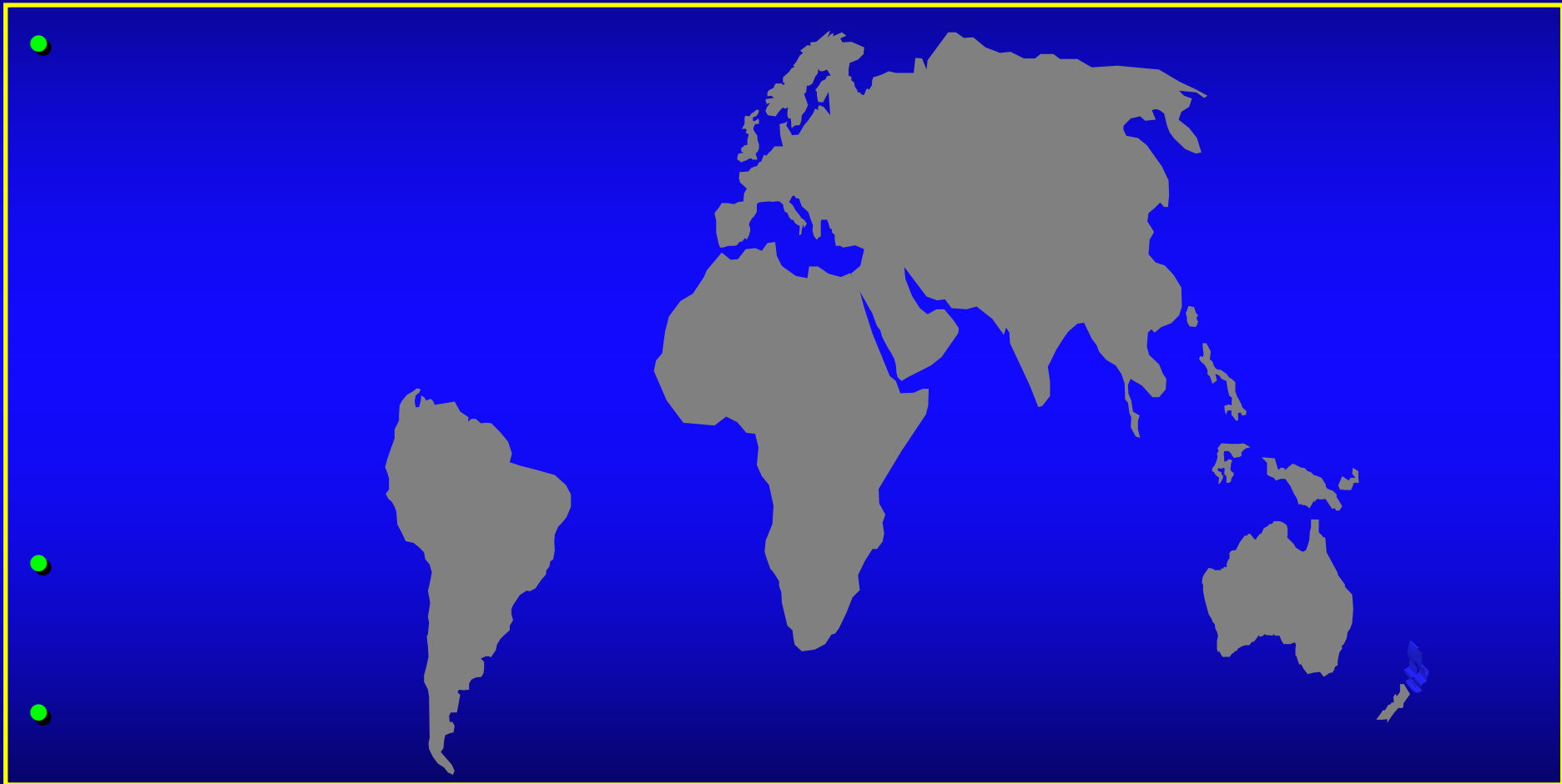
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Fourth call: KA II



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Fourth call: KAIII



- ★ **IST 2000 – III.1.1** Authoring interactive web content
- ★ **IST 2000 – III.1.6** Virtual representations of cultural objects
- ★ **IST 2000 – III.1.3** Trials and best practice in digital content (Take-up)
- ★ **IST 2000 – III.1.5** Trials on cultural and scientific content (Take-up)
- ★ **IST 2000 – III.2.3** Trials and best practice for on-the-job training (Take-up)
- ★ **IST 2000 – III.3.3** Multilingual communication services and appliances
- ★ **IST 2000 – III.4.1** Content-processing for domestic and mobile multimedia platforms
- ★ **IST 2000 – III.4.2** Information visualisation
- ★ **IST 2000 – III.4.3** Trials and best practice in Information access and filtering (Take-up)



Fourth call: KAIV



- ★ **IST 2000 IV.1.1** **Implications assessment**
- ★ **IST 2000 – IV.2.2** **Real-time systems**
- ★ **IST 2000 – IV.2.4** **Terabit core networks**
- ★ **IST 2000 – IV.2.5** **Computing, Communications and Networks: Take-up**
- ★ **IST 2000 – IV.3.1** **Distributed developments of software and systems**
- ★ **IST 2000 – IV.3.4** **Software, systems and services: Take-up**
- ★ **IST 2000 – IV.4.1** **Real-time simulation and visualisation technologies and services**
- ★ **IST 2000 – IV.4.2** **Mixed realities and new imaging frontiers for innovative app.&serv.**

★ **IST 2000 – IV.4.3** **Real-time simulations and mixed realities: Take-up**
● **Jean-Yves ROGER** **European Commission DG INFSO IST programme**

★ **IST 2000 – IV.5.1** **Fourth G-system and network concepts for wireless comm.**



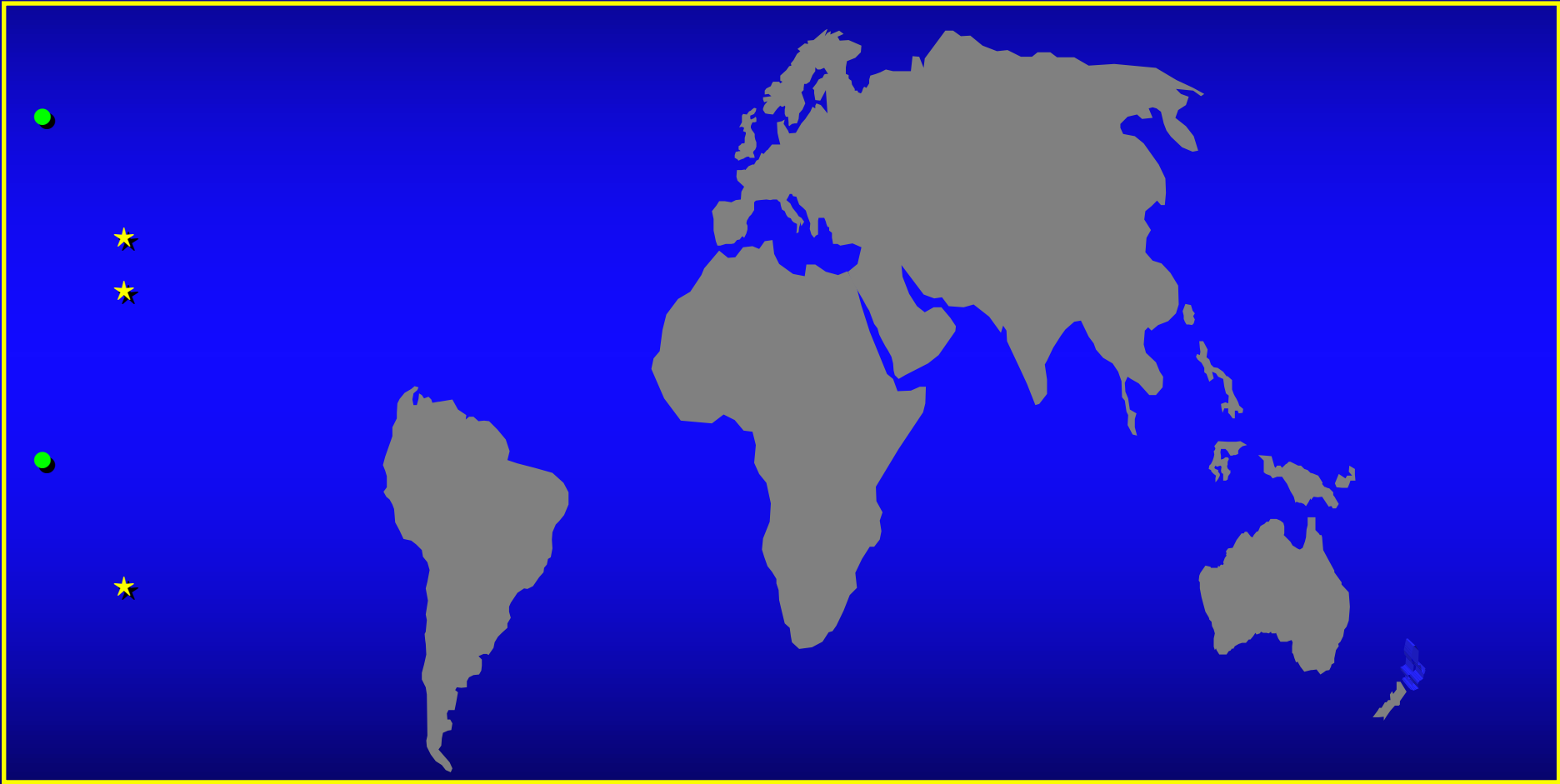
Fourth call: KAIV (continue)



- ★ IST 2000 – IV.6.1 Adv. displays and sensors to support syst. and serv. level interfaces
- ★ IST 2000 – IV.6.2 User and serv. interfaces and buffers for seamless end-to-end serv.
- ★ IST 2000 – IV.6.3 Take-up on advanced displays and sensors
- ★ IST 2000 – IV.7.1 Peripherals and network embedded technologies
- ★ IST 2000 – IV.7.3 Microsystems
- ★ IST 2000 – IV.7.5 Subsystems: Take-up
- ★ IST 2000 – IV.7.6 Microsystems: Take-up
- ★ IST 2000 – IV.8.4 Opto-electronic technologies
- ★ IST 2000 – IV.8.5 Advanced micro and opto-electronics
- ★ IST 2000 – IV.8.6 uelectronics design and test: Take-up
- ★ IST 2000 – IV.8.7 Application Specific micro-electronics: Take-up
- ★ IST 2000 – IV.8.8 Industrial uelectronics technologies: Take-up



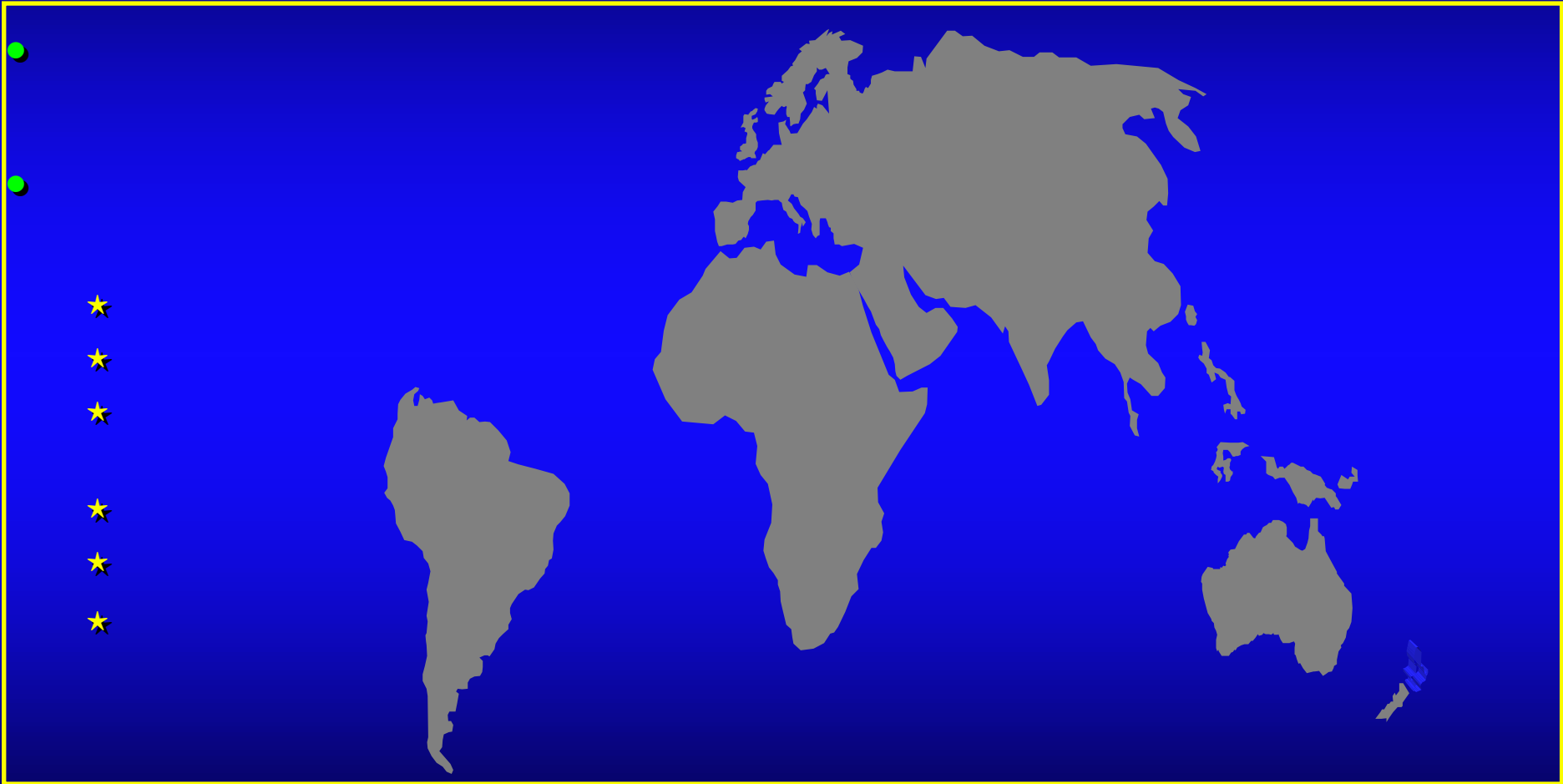
CPAs and FET



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Open submission



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Roadmap: Fifth IST call (3rd 2000)



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-
-
-

- ★ **KA1:** ---
- ★ **KA2:** 1 Support Measures
- ★ **KA3:** 2 Take-up/ Support Measures
- ★ **KA4:** 9 RTD + 5 Take-up/support measures
- ★ **CPAs:** 2 RTD
- ★ **FET:** ---

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For further information...



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<http://www.cordis.lu/ist>

Official Journal
Guide to Future Calls
Work Programme
Introduction for Proposers
Specific Guides for Proposers

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Buenos-Aires
June 26th 2000



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