STANDARD SUMMARY PROJECT FICHE

1. Basic Information

1.1. Desiree Number: SI0202.06
1.2. Twinning Number: SI02/IB/EC/04/TL
1.3. Title: Faster Internet for Research and Education
1.4. Sector: Internal Market
1.5. Location: Slovenia

2. Objectives

2.1. Overall Objective(s):
Provision of high speed networks at universities and research institutions and interconnection of these networks by national academic and research network. This will open up possibilities for collaborative learning and researching.

Knowledge and faster exchange of information with the use of ICT as well as participation in the European projects will improve the competitiveness of the Slovene economy.

Project purpose:

The purpose of the project is the education of managerial and technical staff at Universities, Research institutes and Schools about
• Establishment of high speed local networks
• Deployment of new technologies (e.g. DWDM and optical switching)
• Introduction of Virtual Private Network service for specific user groups
• International cooperation in solving network security incidents
• Testing and introduction of IP version 6

2.2. Acession Partnership and NPAA priority:
AP (2001):
Democracy and the rule of law; adopt the framework legislation for the public administration reform, including the laws on civil servants and public agencies.
Economic criteria; promote competitiveness through market-based enterprise restructuring, stimulate domestic and inward investment by improving the business environment.

NPAA: Point 4.1.19: Telecommunications and ICT

2.3. Contribution to the National Development Plan: Relevant
- Point 1.4.: Priorities – Information Society

2.4. Cross Border Impact:
New opportunities for regional development provided by new forms of learning and collaborative working within the national, regional and European context. Participation in EU research project.
3. Description

3.1. Background and Justification:

At the European Council held in Lisbon on 23-24 March 2000, the Heads of Government and State of the EU-15 set the ambitious goal for Europe for the next decade to become »the most competitive and dynamic knowledge-based economy in the world«. It recognised the urgent need for Europe to quickly exploit the opportunities of the knowledge-based economy and in particular the Internet. In response to this the eEurope Action Plan was launched in Fiera on the 19-20 June 2000.

At the European Ministerial Conference held in Warsaw on 11-12 May 2000, Central and Eastern European Countries recognised the strategic goal set by the EU-15 in Lisbon. They decided to launch an eEurope-like Action Plan named »eEurope+«. The initiative mirrors the priority objectives and targets of eEurope but provides for actions which tackle the specific situation of the Candidate Countries.

At the European Council held in Gotteborg on 16 June 2001, the eEurope+ Action Plan was launched. Positive action on the basis of a strong, political commitment is needed to ensure that the EU Candidate Countries use the full potential offered by Information Society and avoid a further digital divide with EU. The implementation of the Acquis is not sufficient.

The proposed project covers two objectives listed in eEurope Action Plan:
• Faster Internet for researchers and students and
• European youth into digital age

eEurope+ Action plan suggests that PHARE funds could be used for provision of high speed internet access and intranets in universities and for the upgrade of national research and educational networks

Academic and Research Network of Slovenia (ARNES) is a participant in the GEANT project (Information Societies Technology Programme). The key objective of GEANT is to provide a very high performance, pan-European network interconnection the services provided by European national Research and Education Networks. The proposed project will complement the GEANT project with high speed local and national networks and enable the educational and research organisations to use GEANT resources.

ARNES is financed by the Ministry of education, science and sport and so are most of the research and educational institutions. Funds available are in most cases not sufficient for upgrading the networks to higher speed and often there is a lack of knowledge how to do this. In the year 2000 there was a political initiative to provide free Internet access to all educational and research institutions in Slovenia. No final agreement has been concluded and no funds were reserved for this activity.

Article 84 on Post and Telecommunications of the Europe Agreement describes activities, which shall focus among the priorities areas on the modernisation of Slovenia’s telecom network, services and their integration into the European and world networks.

3.2. Results:

The project follows the eEurope+ Action Plan. It will help to achieve the objectives 1a and 1b (Cheaper and faster Internet Access) and 2a (development of quality content and services, and
networking of schools in Europe).

Objective 1b is the following: Slovenia must join efforts with their EU counterparts to broaden the scientific base for the benefit of the whole Europe. The academic capabilities of Slovenia can be engaged by making available the necessary networking technology. New forms of learning and collaborative working together within the national, European and global context will provide new opportunities for Slovenia.

Objective 2a is the following: Connecting all schools to Internet. This will allow teachers and students convenient access to the Information Society. Internet access should be provided in all classrooms and a sufficient number of multi-media computers with high speed connections and suitable software and content should be available. Where appropriate schools should be connected to the research networks.

3.3. Activities:

The project will complement many other activities and projects in this field. The activities in this project are concentrated on getting advice and expertise how to establish local networks based on new technologies and how to provide new services.

Short visits of technical and managerial staff in Slovenian research and educational institutions to Universities in EU are foreseen. TERENA (The Association of National Research and Educational Networks in Europe) could help in finding suitable Universities which will be prepared to provide advice, education and guidance how to build and manage high speed local networks in research and educational institutions.

The main areas of consultation are the following:

- Establishment of high speed local networks
- Deployment of new technologies (e.g. DWDM and optical switching)
- Introduction of Virtual Private Network service for specific user groups
- International cooperation in solving network security incidents
- Testing and introduction of IP version 6

Training for the staff and consultations will be provided to the directors and managers in the Computer and Telecommunications Centers at the Universities, Research Institutes and Schools. (See Annex 5)

We'd propose that 2-3 persons from each of the listed Universities and Research institutes and 1 person from selected number of schools should be trained. Final selection of participants from schools will be done by Ministry for Education, Science and Sport, Departement for Computer Literacy.

ARNES and Ministry for Education, Science and Sport, Departement for Computer Literacy will provide timetable of visits in the starting phase of the proposed project.

Short visits (2-7 days) are envisaged. Exact number of visits and their duration will depend on the willingness of the institutions, where the training will be held. At this stage it is not possible to give an exact figure.
3.4 Lessons learned

Not applicable

4. Institutional Framework

The Ministry of Information Society (MoIS) has the overall responsibility for Telecommunications and Information Technologies, and will take overall co-ordination of the project.

Information Infrastructure as well as implementation of the Objective 1, eEurope+ Action Plan, is under the responsibility of the Department for Information Infrastructure leading by the State Secretary Dr. Tomaž Kalin, (phone: +386 1 478 8222, fax: +386 1 478 8142).

Ljudmila Tozon, State Undersecretary, Ministry of Information Society, Office for International Co-operation, will be in charge of this project (phone: +386 1 478 8384, fax: +386 1 478 8375).

5. Detailed Budget

<table>
<thead>
<tr>
<th>Phare</th>
<th>Support</th>
<th>Total Phare (=I+IB)</th>
<th>National Cofinancing</th>
<th>IFI</th>
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<td>Faster Internet for Research and Education</td>
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<td>0.15 MEUR 79 %</td>
<td>0.15 MEUR 79 %</td>
<td>0.04 MEUR 21 %</td>
<td>0 0.19 MEUR 100 %</td>
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<td>0.15 MEUR</td>
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<td>0 0.19 MEUR</td>
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*In cases of co-financing only*

The Slovenian Government will provide office space, office support, salaries for the counterpart staff, travel tickets for the counterpart staff in the framework of the study visits in EU countries - into the amount which will reflect the conditions under the twinning light rules. The estimated cost will be approximately 21 % of the total amount.

6. Implementation Arrangements

**Implementing Agency :** CFCU, Ministry of Finance
Beethovenova 11
1502 Ljubljana, Slovenia

Responsible person:
Mr. Peter Škofic, PAO
Tel: +386 1 478 6203
Fax: +386 1 478 6304
6.1. Implementing Authority: Ministry of Information Society, Langusova ulica 4, 1000 Ljubljana, State Secretary Dr. Tomaž Kalin, (phone: +386 1 478 8222, fax: +386 1 478 8142), State Undersecretary Ljudmila Tozon (phone: +386 1 478 8384, fax: +386 1 478 8375).

Contracting Authority: Ministry of Information Society, Langusova ulica 4, 1000 Ljubljana, State Secretary Dr. Tomaž Kalin, (phone: +386 1 478 8222, fax: +386 1 478 8142).


6.2. Twinning: There will be one (1) Twinning light contract in the total amount 0.15 MEUR. The Slovenian Government will provide office space, office support, salaries for the counterpart staff, travel tickets for the counterpart staff in the framework of the study visits in EU countries in the amount which will reflect the conditions under the twinning light rules. The estimated cost will be approximately 21% of the total amount.

6.3. Non-standard aspects: Provisions as regards Twinning Light will strictly be followed.

6.4. Contracts: There will be one contract in total amount of 0.15 MEUR. The contract will be done under CFCU.

7. Implementation Schedule


7.2. Start of project activity: September 2002

7.3. Project Completion: March 2002

8. Equal Opportunity
Equal participation in the project for all in the target group will be assured.

9. Environment
Not Relevant

10. Rates of return
Not Relevant
11. Investment criteria
   Not Relevant

12. Conditionality and sequencing

The principles and requirements laid down in EU’s initiatives in the regulatory field shall be followed. Regulations for the achievement of universal service in telecommunications services and secure availability of the basic telephony service that is capable of permitting access to the Internet will be enacted. Transposition and implementation of the new EU regulatory package for Communications Services has to be adopted as soon as possible. Establishment of a fully operational Telecommunications Agency (NRA), pro-competitive framework with the reduced prices for Internet as a result of full liberalisation of telecommunications sector is an important pre-condition.
Annexes to project Fiche

1. Logical framework matrix in standard format (compulsory)
2. Detailed implementation chart (compulsory)
3. Contracting and disbursement schedule by quarter for full duration of programme (including disbursement period) (compulsory)
4. ToR (Draft) Twinning Light
## ANNEX 1 PHARE LOG FRAME

<table>
<thead>
<tr>
<th>LOGFRAME PLANNING MATRIX FOR Project</th>
<th>Programme name and number</th>
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### Overall objective
Provision of high speed networks at universities, research institutions and schools

**Objectively verifiable indicators**: Number of research and educational institutions with high speed local networks: **50 in the year 2002**

**Sources of Verification**: Reports (national, EC)

### Project purpose
Education of managerial and technical staff at universities, research institutions and schools about high speed networks and new technologies in this field.

**Objectively verifiable indicators**: Number of technical and managerial staff which is educated about new technologies in building high speed networks: **50 in the year 2002**

**Sources of Verification**: Report from twinning leader

### Results
Accomplishment of the Objective 1b and 2a in eEurope+ Action Plan.

High speed local networks and high speed national research and educational network. Number of schools connected to Internet.

- Number of high speed local networks at Universities and Research institutions
- Number of computers connected to the Internet per 100 pupils in primary: **7PCs**/secondary: **12 PCs**/tertiary levels: **12 PCs**

**Sources of Verification**: Reports (national, EC)

### Activities
Short visits at Universities in EU

**Means**: Twinning light arrangements

**Assumptions**: Preconditions

- National funds for the purchase of the necessary equipment
- Fully operational NRA
- Liberalisation of ICT sector.
### ANNEX 2

**IMPLEMENTATION TIME CHART**

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1. Twinning light
## ANNEX 3

### CONTRACTING AND DISBURSEMENT SCHEDULE

#### CUMULATIVE CONTRACTING SCHEDULE (MEUR)

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ANNEX 4

TERMS OF REFERENCE
Twinning Number: SI02/IB/EC/04/TL
TWINNING LIGHT

FASTER INTERNET FOR RESEARCH AND EDUCATION

1. Background Information

At the European Council held in Lisbon on 23-24 March 2000, the Heads of Government and State of the EU-15 set the ambitious goal for Europe for the next decade to become »the most competitive and dynamic knowledge-based economy in the world«. It recognised the urgent need for Europe to quickly exploit the opportunities of the knowledge-based economy and in particular the Internet. In response to this the eEurope Action Plan was launched in Fiera on the 19-20 June 2000.

At the European Ministerial Conference held in Warshaw on 11-12 May 2000, Central and Eastern European Countries recognised the strategic goal set by the EU-15 in Lisbon. They decided to launch an eEurope-like Action Plan named »eEurope+«. The initiative mirrors the priority objectives and targets of eEurope but provides for actions which tackle the specific situation of the Candidate Countries.

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- Faster Internet for researchers and students and
- European youth into digital age

eEurope+ Action plan suggests that PHARE funds could be used for provision of high speed internet access and intranets in universities and for the upgrade of national research and educational networks

Academic and Research Network of Slovenia (ARNES) is a participant in the GEANT project (Information Societies Technology Programme). The key objective of GEANT is to provide a very high performance, pan-European network interconnection the services provided by European national Research and Education Networks. The proposed project will complement the GEANT project with high speed local and national network and postal services and their integration into the European and world networks.

The overall objective of the twinning lights project is to support Slovenia in public reform and to develop Information Society on the level of EU.

Faster exchange of information as well as participation in the European projects will improve the competitiveness of the Slovene economy.
2. RESULT TARGETED

The project follows the eEurope+ Action Plan. It will help to achieve the objectives 1a and 1b (Cheaper and faster Internet Access) and 2a (development of quality content and services, and networking of schools in Europe).

Objective 1b is the following: Slovenia must join efforts with their EU counterparts to broaden the scientific base for the benefit of the whole Europe. The academic capabilities of Slovenia can be engaged by making available the necessary networking technology. New forms of learning and collaborative working together within the national, European and global context will provide new opportunities for Slovenia.

Objective 2a is the following: Connecting all schools to Internet. This will allow teachers and students convenient access to the Information Society. Internet access should be provided in all classrooms and a sufficiently high number of multi-media computers with high speed connections and suitable software and content should be available. Where appropriate schools should be connected to the research networks.

Faster exchange of information as well as participation in the European projects will improve the competitiveness of the Slovene economy.

3. COMMITMENT OF THE BENEFICIARY

The Ministry of Information Society (MoIS) has the overall responsibility for Telecommunications and Information Technologies, and will take overall co-ordination of the project.

Information Infrastructure as well as implementation of the Objective 1, eEurope+ Action Plan, is under the responsibility of the Department for Information Infrastructure leading by the State Secretary Dr. Tomaž Kalin, (phone: +386 1 478 8222, fax: +386 1 478 8142).

Ljudmila Tozon, State Undersecretary, Ministry of Information Society, Office for International Co-operation, will be in charge of this project (phone: +386 1 478 8384, fax: +386 1 478 8375).

4. ASSISTANCE REQUIRED FROM A MEMBER STATE

Number of units (man-days):  
MT/ST expert 20 MD x 450 EUR = 9,000 EUR
Study visits: 200 MD
Translations:  
Training: To be defined
Seminar / workshop To be defined
TOTAL 150,000 EUR = 0.15 MEUR

Proposed time schedule: The twinning light project will start on July 2002 and will be finished in 6 months.
Total budget available: 0.15 MEUR

Working language: English

Experts should be specialized in computer networking and Internet services for research or educational organizations.

Location:
Technical and managerial staff from Universities and Institutes will be trained at Computer Centres of similar institutions in other countries. Some of them will be sent to specialised conferences and seminars for networking and Internet services in research and educational field.
Computer centers will be found with the help of TERENA (Trans-European Research and Educational Network Association) and with the help of similar institutions ARNES is cooperating with.

Technical staff from schools will be trained at universities and colleges, that are holding special courses for a secondary and high school teachers. Some specialized conferences and seminars in the field of networking for the teachers are organised by international associations (EDEN, IFIP, I*EARN, Kidlink, ESP, EUN Schoolnet, …). This courses and seminars will be chosen by Ministry for Education, Science and Sport, Departement for Computer Literacy.

Coordination:
ARNES (Academic and Research Network of Slovenia) will coordinate visits for the staff from Universities and Institutes and will find through its contacts suitable seminars and computer centres at similar institutions, which will be prepared to host trainees. Ministry for Education, Science and Sport, Departement for Computer Literacy will coordinate visits from the listed schools (selection of courses and participants).

Reporting:
A report every three months will be sent to the all relevant Institutions.