**Small or medium-scale focused research project (STREP) proposal**

**ICT Call 5**

FP7-ICT-2009-5

**[Proposal full title]**

**Special arrangements apply for the preparation of proposal Part B in the Objectives ICT-2009.9.2 and ICT-2009.9.5. See Annexes 7 and 8 of the Guide for applicants**

**[Proposal acronym]**

**Small or medium scale focused research project (STREP)**

**Date of preparation**:

**Version number** *(optional)*:

**Work programme topic addressed**

*(if more than one, indicate their order of importance to the project. The main (first) objective must be one included in this call)*

**Note: You must use the special FET template when preparing STREP proposals in the Objectives 8.5 Self-Awareness in Autonomic Systems and 8.6 Towards Zero-Power ICT**

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**fax:** /

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| --- | --- | --- | --- |
| **Participant no. \*** | **Participant organisation name** | **Part. short name** | **Country** |
| 1 (Coordinator) |  |  |  |
| 2 | Faculty of Mathematics, BU | MATF | Serbia |
| 3 | University of Belgrade | BU | Serbia |
| 4 | University of Novi Sad | UNS | Serbia |
| 5 | University of Nis | NI | Serbia |
| 6 | University of Kragujevac | KG | Serbia |
| 7 | Minstry of Education, Science and Technology | MEST | Serbia |
| 8 | Telenor Group | Telenor | Norway |

*\*Please use the same participant numbering as that used in Proposal submission forms A2*

**Proposal abstract**

*(copied from Part A, if not in English include an English translation)*

**Table of contents**

**Section 1: Scientific and/or technical quality, relevant to the topics addressed by the call**

*(Maximum length for the whole of Section 1 – twenty pages. This does not include the Gantt chart, Pert diagram or tables 1.3a-e)*

**1.1 Concept and objectives**

Explain the concept of your project. What are the main ideas that led you to propose this work?

Describe in detail the S&T objectives. Show how they relate to the topics addressed by the call, which you should explicitly identify. The objectives should be those achievable within the project, not through subsequent development. They should be stated in a measurable and verifiable form,

including through the milestones that will be indicated under section 1.3 below.

The main purpose of this project is to provide basic uniform computer literacy for as many people as possible on territory of Republic of Serbia by 2020, with emphasis on those born before year 1980.

We came up with the idea of resolving the enormous issue of generational gap between people born before and after year 1980, when we saw studies provided by Ministry of Education, Science and Technology of Republic of Serbia. Those studies show that people born before year 1980. are mostly uninterested in modern technology and are having difficulties in understanding it. In the world where each day computers make an enormous part of everyday life it is highly important to have a basic computer literacy and with this project we want to provide people with better future.

Although, we are focused on people born before 1980., we musn't forget young people and children who are living in difficulties and are not able to access the technology in a propper manner. For those sensitive groups, we would provide small laptops and portable internet (with support of Telenor Group from Norway).

Here, in Serbia, computer literacy is on very low level and it is no wonder, since, even the general literacy is very low (there is about 14% of people without a day of school[[1]](#footnote-2)). We want to change that and make online courses available in Serbian and English.

With this project we will provide open schooling for vast amount of people from different age, education and socio-economical backgrounds and also give an opportunity for professionals from various universities to collaborate in development and implementation of this project.

Main objectives of this proposal are the following:

* to provide computer education for people of all ages, education and socio-economical backgrounds
* to expand general knowledge on informational and computing sector
* to provide uniformed tests and evaluation of ICT knowledge
* to help older people to get in track with modern technology in order to provide them better lives
* to get younger people interested in technology as early as possible
* to help people whose jobs are not in demand to get educated in Informational and Computing Sector in order to provide them highly demanded jobs
* to help young people, with no access to modern technology

In order to achieve our objectives we would organize various types of workshops and courses depending on people's age and level of knowledge. Those workshops and courses would be held online for younger people (except those without access to technology), and for those who are older, in each big city of Serbia such as : Belgrade, Novi Sad, Nis, Kragujevac, etc. The courses would be held in the University and school buildings by relevant personnel of academia. People attending online courses would be those who have some basic knowledge of computer usage (are able to use the computer and have the access to the internet).

In order to measure our achievements we will provide various types of tests depending on the subject and the progress we want to measure/achieve:

1. uniformed test for all ages on basics of computer literacy (example: turn on/off, using browser, folders, making basic presentations etc.)
2. specific test for people doing different jobs on the computers which require specific set of skills (example: working in Excel, Word, AutoCAD, etc.) - these test might be usefull as a referent model for employers
3. finals for courses we provide to people who want to get into IT sector
4. exams for children who finished our courses

One of the important indicators of the success of our project is how many people have found a job that requires knowledge we provided them with through the programme. Another important indicator is having a significant amount of people from academia involved and collaborate on this project.

We would also consider the impact, the amount of people we had reached and got interested in IT and modern technology, as highly important factor for our reach and success.

As a good measure of success, we also want to consider how many people passed through our programme.

By the end of the project we want to have measurable results, and to have approximately 10% of population who went through the programme. Also, it is important to achieve this result for people of different ages so we have set some reference values that would at the end of the project be used to determine the success of the project. Expected number of people divided in several critical groups are (roughly 10%[[2]](#footnote-3) of total population in that age group) :

* 110.000 of people between 10-24 years old
* 150.000 of people older than 65
* 50.000 people in active search of jobs that want to be trained in IT

Every candidate selected for the training/learning process at the end of the programme will have to pass uniformed test which will be provided by our organisation in collaboration with Ministry of Education, Science and Technology of Serbia.

Since we are limited by time of only 24 months, in first month we should do initial research needed for creating proper courses and making arrangements with people in academia. The next eight months we should work with those professionals from academia in development of 2-4 months long courses. During that time, there should be time for creating good media campaign. The media campaign should start no later than 4 months into the project, since, there should be time (approximately 4 months) left for an application process.

For media campaign we would need at least a month for initial preparation and making contracts with different media subjects. After that month, we would enter into very intensive media campaign to get people to being informed. Soon after the campaign starts (and not more than 15 days later) there would be open calls for people to apply for various programmes. The calls shouldn't be opened for more than 3.5 months, because in the last month there should be an extensive selection process by different criteria.By finishing any of those test a person is provided with official certification by Ministry of Education, Science and Technology of Serbia, and that certificate is recognized also by other EU countries.

**1.2 Relation to the work programme**

Indicate the work programme topic to which your proposal relates, and explain how your proposal addresses the specific challenge and the scope of that topic, as set out in the work programme.

**1.3 Concept and methodology; quality of the measures**

Describe and explain the overall concept underpinning the project. Describe the main ideas,

models or assumptions involved.

• Describe any national or international research and innovation activities which will be

linked with the project, especially where the outputs from these will feed into the project.

• Describe and explain the overall methodology.

• Where relevant, describe how the gender dimension i.e, sex and/or gender analysis is taken

into account in the project’s content.

*Table 1.3a: Template - Work package list*

**Work package list**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Work package No[[3]](#footnote-4)** | **Work package title** | **Type of activity[[4]](#footnote-5)** | **Lead  partic no.[[5]](#footnote-6)** | **Lead partic. short name** | **Person-months[[6]](#footnote-7)** | **Start month****[[7]](#footnote-8)** | **End month**Error: Reference source not found |
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|  | TOTAL |  |  |  |  |  |  |

*Table 1.3b: Template - Deliverables List*

**List of Deliverables**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Del. no. [[8]](#footnote-9)** | **Deliverable name** | **WP no.** | **Nature[[9]](#footnote-10)** | **Dissemi-nation  level [[10]](#footnote-11)** | **Delivery date[[11]](#footnote-12)**  **(proj.**  **month)** |
|  |  |  |  |  |  |
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*Table 1.3c Template - List of milestones*

**Milestones**

Milestones are control points where decisions are needed with regard to the next stage of the project. For example, a milestone may occur when a major result has been achieved, if its successful attainment is a required for the next phase of work. Another example would be a point when the consortium must decide which of several technologies to adopt for further development.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Milestone number** | **Milestone name** | **Work package(s) involved** | **Expected date(in month) [[12]](#footnote-13)** | **Means of verification[[13]](#footnote-14)** |
| 0 | Initial research |  | 1 | contracts made and adequate courses creation arranged |
| 1 | Necesary  software creation |  | 4 | software released and validated by a user group |
| 2 | Media campaign prepared |  | 4 | media campaign prepared for release and contracts with media houses made |
| 3 | Call for application |  | 4.5 | opened calls for application for the programmes |
| 4 | Processing applications and candidates selection |  | 9 | calls are closed, all applications are processed and candidates are selected and informed of their status |
| 5 | Courses prepared |  | 8 | all courses are prepared and ready for release |
| 6 | Courses started |  | 9 | for all selected candidates courses are starting |
| 7 | Mid-course test |  | 13/17/21 | all 4 months long courses are having a mid-course test after 2 months |
| 8 | Final test |  | 11/15/19/23 | final test is being done at the end of the each course |
| 9 | Analyzing test results |  | 11/13/15/17/19/23 | progress on each course is analyzed as well as the overall progress of the project |
| 10 | Making certificates |  | 24 | certificates are being done for each person who successfully went through the programme |
| 11 | Final success |  | 24 | measuring final success of the project |
| 12 |  |  |  |  |

*Table 1.3d: Template - Work package description*

**Work package description**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Work package number** |  | | **Start date or starting event:** | | | |  | | |
| **Work package title** |  | | | | | | | | |
| **Activity type[[14]](#footnote-15)** |  | | | | | | | | |
| **Participant number** |  |  | |  |  |  | |  |  |
| **Participant short name** |  |  | |  |  |  | |  |  |
| **Person-months per participant** |  |  | |  |  |  | |  |  |

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| --- |
| **Objectives** |

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| --- |
| **Description of work** (possibly broken down into tasks) and role of partners |

|  |
| --- |
| **Deliverables** (brief description) and month of delivery |

*Table 1.3e Summary of effort*

**Summary of effort**

A summary of the effort is useful for the evaluators. Please indicate in the table number of person months over the whole duration of the planned work, for each work package by each participant. Identify the work-package leader for each WP by showing the relevant person-month figure **in bold**.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Partic. no.** | **Partic. short name** | **WP1** | **WP2** | **WP3** | **…** | **Total person months** |
| **1** |  |  |  |  |  |  |
| **2** |  |  |  |  |  |  |
| **3** |  |  |  |  |  |  |
| **etc** |  |  |  |  |  |  |
| **Total** |  |  |  |  |  |  |

**Section 2. Implementation**

*(Maximum length for Section 2.1 - five pages)*

**2.1 Management structure and procedures**

Describe the organisational structure and decision-making mechanisms of the project. Show how they are matched to the complexity and scale of the project.

The structure would be

**2.2** **Individual participants**

*(Maximum length for Section 2.2: one page per participant. However, where two or more departments within an organisation have quite distinct roles within the proposal, one page per department is acceptable.*

*The maximum length applying to a legal entity composed of several members, each of which is a separate legal entity (for example an EEIG), is one page per member, provided that the members have quite distinct roles within the proposal.)*

For each participant in the proposed project, provide a brief description of the legal entity, the main tasks they have been attributed, and the previous experience relevant to those tasks. Provide also a short profile of the individuals who will be undertaking the work.

**2.3 Consortium as a whole**

*(No maximum length for Section 2.3 – depends on the size and complexity of the consortium)*

Describe how the participants collectively constitute a consortium capable of achieving the project objectives, and how they are suited and are committed to the tasks assigned to them. Show the complementarity between participants. Explain how the composition of the consortium is well-balanced in relation to the objectives of the project.

If appropriate describe the industrial/commercial involvement to ensure exploitation of the results.

**i) Sub-contracting:** If any part of the work is to be sub-contracted by the participant responsible for it, describe the work involved and explain why a sub-contract approach has been chosen for it.

**ii) Other countries:** If a one or more of the participants requesting EU funding is based outside of the EU Member states, Associated countries and the list of International Cooperation Partner Countries[[15]](#footnote-16), explain in terms of the project’s objectives why such funding would be essential.

**2.4 Resources to be committed**

*(Maximum length for Section 2.4 – two pages)*

Describe how the totality of the necessary resources will be mobilised, including any resources that will complement the EC contribution. Show how the resources will be integrated in a coherent way, and show how the overall financial plan for the project is adequate.

In addition to the costs indicated on form A3 of the proposal, and the effort shown in section 1.3 above, please identify any other major costs (e.g. equipment). Ensure that the figures stated in Part B are consistent with these.

**Section 3. Impact**

*(Maximum length for the whole of Section 3 – ten pages)*

**3.1 Expected impacts listed in the work programme**

Describe how your project will contribute towards the expected impacts listed in the work programme in relation to the topic or topics in question. Mention the steps that will be needed to bring about these impacts. Explain why this contribution requires a European (rather than a national or local) approach. Indicate how account is taken of other national or international research activities. Mention any assumptions and external factors that may determine whether the impacts will be achieved.

**3.2 Dissemination and/or exploitation of project results, and management of intellectual property**

Describe the measures you propose for the dissemination and/or exploitation of project results, and how these will increase the impact of the project. In designing these measures, you should take into account a variety of communication means and target groups as appropriate (e.g. policy-makers, interest groups, media and the public at large).

Describe also your plans for the management of knowledge (intellectual property) acquired in the course of the project.

**Section 4. Ethical Issues**

*(No maximum length for Section 4 – depends on the number and complexity of the ethical issues involved)*

Describe any ethical issues that may arise in their proposal. In particular, you should explain the benefit and burden of their experiments and the effects it may have on the research subject. The following special issues should be taken into account:

**Informed consent**: When describing issues relating to informed consent, it will be necessary to illustrate an appropriate level of ethical sensitivity, and consider issues of insurance, incidental findings and the consequences of leaving the study.

**Data protection issues**: Avoid the unnecessary collection and use of personal data. Identify the source of the data, describing whether it is collected as part of the research or is previously collected data being used. Consider issues of informed consent for any data being used. Describe how personal identify of the data is protected.

**Use of animals:** Where animals are used in research the application of the 3Rs (Replace, Reduce, Refine) must be convincingly addressed. Numbers of animals should be specified. State what happens to the animals after the research experiments.

**Human embryonic stem cells**: Research proposals that will involve human embryonic stem cells (hESC) will have to address all the following specific points:

* the necessity to use hESC in order to achieve the scientific objectives set forth in the proposal.
* whether the applicants have taken into account the legislation, regulations, ethical rules and/or codes of conduct in place in the country(ies) where the research using hESC is to take place, including the procedures for obtaining informed consent;
* the source of the hESC
* the measures taken to protect personal data, including genetic data, and privacy;
* the nature of financial inducements, if any.

Identify the countries where research will be undertaken and which ethical committees and regulatory organisations will need to be approached during the life of the project.

Include the Ethical issues table below. If you indicate YES to any issue, please identify the pages in the proposal where this ethical issue is described. If you are sure that none of the issues apply to your proposal, simply tick the YES box in the last row.

Notes:

1. For further information on ethical issues relevant to ICT, see annex 5 of the Guide for applicants.

2. Only in exceptional cases will additional information be sought for clarification, which means that any ethical review will be performed solely on the basis of the information available in your proposal.

**ETHICAL ISSUES TABLE**

|  |  |  |
| --- | --- | --- |
|  | **YES** | **PAGE** |
| **Informed Consent** |  |  |
| * Does the proposal involve children? |  |  |
| * Does the proposal involve patients or persons not able to give consent? |  |  |
| * Does the proposal involve adult healthy volunteers? |  |  |
| * Does the proposal involve Human Genetic Material? |  |  |
| * Does the proposal involve Human biological samples? |  |  |
| * Does the proposal involve Human data collection? |  |  |
| **Research on Human embryo/foetus** |  |  |
| * Does the proposal involve Human Embryos? |  |  |
| * Does the proposal involve Human Foetal Tissue / Cells? |  |  |
| * Does the proposal involve Human Embryonic Stem Cells? |  |  |
| **Privacy** |  |  |
| * Does the proposal involve processing of genetic information or personal data (eg. health, sexual lifestyle, ethnicity, political opinion, religious or philosophical conviction) |  |  |
| * Does the proposal involve tracking the location or observation of people? |  |  |
| **Research on Animals** |  |  |
| * Does the proposal involve research on animals? |  |  |
| * Are those animals transgenic small laboratory animals? |  |  |
| * Are those animals transgenic farm animals? |  |  |
| * Are those animals cloned farm animals? |  |  |
| * Are those animals non-human primates? |  |  |
| **Research Involving Developing Countries** |  |  |
| * Use of local resources (genetic, animal, plant etc) |  |  |
| * Impact on local community |  |  |
| **Dual Use** |  |  |
| * Research having direct military application |  |  |
| * Research having the potential for terrorist abuse |  |  |
| **ICT Implants** |  |  |
| * Does the proposal involve clinical trials of ICT implants? |  |  |
| **I CONFIRM THAT NONE OF THE ABOVE ISSUES APPLY TO MY PROPOSAL** |  |  |

1. Information provided by National Register for year 2012. [↑](#footnote-ref-2)
2. Data provided by Statistical Office of the Republic of Serbia. [↑](#footnote-ref-3)
3. Workpackage number: WP 1 – WP n. [↑](#footnote-ref-4)
4. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium [↑](#footnote-ref-5)
5. Number of the participant leading the work in this work package. [↑](#footnote-ref-6)
6. The total number of person-months allocated to each work package. [↑](#footnote-ref-7)
7. Measured in months from the project start date (month 1). [↑](#footnote-ref-8)
8. Deliverable numbers in order of delivery dates. Please use the numbering convention <WP number>.<number of deliverable within that WP>. For example, deliverable 4.2 would be the second deliverable from work package 4. [↑](#footnote-ref-9)
9. Please indicate the nature of the deliverable using one of the following codes: **R** = Report, **P** = Prototype, **D** = Demonstrator, **O** = Other [↑](#footnote-ref-10)
10. Please indicate the dissemination level using one of the following codes: **PU** = Public **PP** = Restricted to other programme participants (including the Commission Services).

    **RE** = Restricted to a group specified by the consortium (including the Commission Services).

    **CO** = Confidential, only for members of the consortium (including the Commission Services). [↑](#footnote-ref-11)
11. Measured in months from the project start date (month 1). [↑](#footnote-ref-12)
12. Measured in months from the project start date (month 1). [↑](#footnote-ref-13)
13. Show how you will confirm that the milestone has been attained. Refer to indicators if appropriate. For example: a laboratory prototype completed and running flawlessly; software released and validated by a user group; field survey complete and data quality validated. [↑](#footnote-ref-14)
14. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium. [↑](#footnote-ref-15)
15. See CORDIS web-site, and annex 1 of the work programme. [↑](#footnote-ref-16)