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

**ICT Call 5**

FP7-ICT-2009-5

**Provide Uniform Basic Literacy in Informational and Computing Sector**

**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**

**PUBLICS**

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

**Date of preparation**: 29.12.2017.

**Work programme topic addressed**

**Open schooling and collaboration on science education**

**Name of the coordinating person**: Una Stankovic

**e-mail**: una\_stankovic@yahoo.com

|  |  |  |  |
| --- | --- | --- | --- |
| **Participant no. \*** | **Participant organisation name** | **Part. short name** | **Country** |
| 1 (Coordinator) | Una Corp | UNA | Serbia |
| 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 |
| 9 | ETH Zurich | ETH | Switzerland |

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

**Proposal abstract**

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.

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

**1.1 Concept and objectives**

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. 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 senior population.

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 the eldery, 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 population 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.

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

Each 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 tests 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**

“At the moment, Europe faces a shortfall in science-knowledgeable people at all levels of society. This is a good time to expand opportunities for science learning, in formal, non-formal and informal settings. Evidence shows that European citizens, young and old, appreciate the importance of science and want to be more informed, and that citizens want more science education. Over 40% believe science and technological innovation can have a positive impact on the environment, health and medical care, and basic infrastructure in the future[[2]](http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/swafs-01-2018-2019.html" \l "fn2). Therefore, collaboration between formal, non-formal and informal science education providers, enterprises and civil society should be enhanced to ensure relevant and meaningful engagement of all societal actors with science and increase the uptake of science studies, citizen science initiatives and science-based careers, employability and competitiveness.”[[3]](#footnote-4)

With our project we strive to achieve good communication between local academic communities and help them collaborate and become an agent of community well-being. The problem of shortfall in science-knowledgeable people at all levels of society is not happening only in EU countries but, also, in countries striving to become members. This project may help change this. We already know that people want a serious computer-related education and we want to give them exactly that. Hopefully, PUBLICS will help younger people choose scientific or technology-related careers.

This project fits into open schooling and collaboration on science education topic perfectly. With our project we want to provide open education for many people and that educational programme should be made with collaboration between biggest education names of our country.

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

The overall concept of the project is to provide education to sensitive population groups through series of

courses and specializations held by staff from academia.

We would like for this project to have a major impact and expand to other developing countries an help them

implement similar ideas in order to provide better lives for their people as well.

The main research that will take place during our project is research of the demands of the market, which

will help us understand better how to organize courses and how to provide people with all the necessary

skills.

The other researches, where the outputs of these will help us carry out the project, are the following:

* research of the population – national, the output will help us understand better population groups and recognize the sensitive categories,
* research of the market – national, part of this research will be provided by the government of the Republic of Serbia, another part will take place during the project, provided by volunteering companies filling the survey forms.

The overall methodology is to carry out this project in various cycles depending on the level of knowledge

and goal of our trainees. There will be 2 and 4 months courses and also programmes for those who want to

go through a stack of courses which will take up to 12 months.

Our organisation will not take into account gender of the candidates or trainees and it will have no effect on

their final results nor will be used in any kind of research.

*Table 1.3a: Template - Work package list*

**Work package list**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Work package No[[4]](#footnote-5)** | **Work package title** | **Type of activity[[5]](#footnote-6)** | **Lead  partic no.[[6]](#footnote-7)** | **Lead partic. short name** | **Person-months[[7]](#footnote-8)** | **Start month****[[8]](#footnote-9)** | **End month** |
| WP0 | Project management | MGT | 1 | UNA | 10 | 1 | 24 |
| WP1 | Research of the market | RTD | 2,3,4,5,6, 9 | MATF, BU, UNS, NI, KG, ETH | 6 | 1 | 1 |
| WP2 | Making contracts | MGT | 1, 2, 3, 4, 5, 6, 7, 8, 9 | UNA, MATF, BU, UNS, NI, KG, MEST, Telenor, ETH | 9 | 1 | 1 |
| WP3 | Software creation | RTD | 2, 9 | MATF, ETH | 5 | 1 | 4 |
| ­WP4 | Media campaign | DEM | 1 | UNA | 10 | 1 | 24 |
| WP5 | Courses creation and division | RTD | 1, 2, 3, 4, 5, 6, 7, 9 | UNA, MATF, BU, UNS, NI, KG, MEST, ETH | 50 | 1 | 8 |
| WP6 | Applications and selection process | MGT | 1 | UNA | 100 | 4.5 | 9 |
| WP7 | Courses | DEM | 2, 3, 4, 5, 6, 7, 8 | MATF, BU, UNS, NI, KG, MEST, Telenor | 200 | 9 | 23 |
| WP8 | Tests and certificates | DEM | 1, 2, 3, 4, 5, 6, 7 | UNA, MATF, BU, UNS, NI, KG, MEST | 70 | 9 | 24 |
| WP9 | Analyzing results | RTD | 1 | UNA | 5 | 13 | 24 |
|  | TOTAL |  |  |  |  |  |  |

*Table 1.3b: Template - Deliverables List*

**List of Deliverables**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Del. no. [[9]](#footnote-10)** | **Deliverable name** | **WP no.** | **Nature[[10]](#footnote-11)** | **Dissemi-nation  level [[11]](#footnote-12)** | **Delivery date[[12]](#footnote-13)**  **(proj.**  **month)** |
| D0.0 | Project management plan | WP0 | R | RE | 1 |
| D1.0 | Research report on which jobs require more human resources | WP1 | R | PU | 1 |
| D1.1 | Research report on what are the necessary skills for these jobs | WP1 | R | PU | 1 |
| D1.2 | Research report on company preferences in their candidates | WP1 | R | PU | 1 |
| D2.0 | Contract with UNA Corp | WP2 | R | PU | 1 |
| D2.1 | Cooperation agreement signed by all parties involved in the project | WP2 | R | PU | 1 |
| D3.0 | Software documentation | WP3 | P | RE | 4 |
| D3.1 | Platform development | WP3 | P | RE | 4 |
| D4.0 | Media campaign – statement for the press | WP4 | D | PU | 4 |
| D4.1 | Media campaign – TV commercial | WP4 | D | PU | 4 |
| D4.2 | Media campaign – newspaper, buildboards and other types of printed advertising | WP4 | D | PU | 4 |
| D4.3 | Media campaign – internet advertising (ex. Google, Facebook, Instagram) | WP4 | D | PU | 4 |
| D4.4 | Media campaign – press presence during the opening and closing ceremonies | WP4 | D | PU | 9/11/15/19/23/24 |
| D5.0 | Research on technologies and how similar courses are implemented in the developed countries | WP5 | R | PU | 1 |
| D5.1 | Courses developed for basic knowledge | WP5 | P | RE | 8 |
| D5.2 | Courses developed for intermediate level of knowledge | WP5 | P | RE | 8 |
| D5.3 | Courses developed for advanced level of knowledge | WP5 | P | RE | 8 |
| D5.4 | Specialization courses developed | WP5 | P | RE | 8 |
| D5.5 | List of how the courses are divided by cities/schools(if applicable)/professors/age of people attending them | WP5 | R | RE | 8 |
| D6.0 | Report on applicants | WP6 | R | RE | 9 |
| D6.1 | Report on selection criteria | WP6 | R | RE | 9 |
| D6.2 | List of selected candidates | WP6 | R | RE | 9 |
| D6.3 | Final list of future trainees | WP6 | R | RE | 9 |
| D7.0 | List of course attendees | WP7 | R | RE | 9/11/13/15/17/19/21 |
| D7.1 | List of people from sensitive groups who received necessary equipment | WP7 | R | RE | 9/11/13/15/17/19/21 |
| D8.0 | Report on types of test created and criteria that will be used on evaluating | WP8 | R | RE | 9/11/13/15/17/19/21 |
| D8.1 | Report on mid-term test results | WP8 | R | RE | 11/15/19 |
| D8.1 | Report on final test results | WP8 | R | RE | 11/13/15/17/19/21/23 |
| D8.2 | Report on progress of trainees between mid-term and final tests | WP8 | R | RE | 13/17/23 |
| D8.3 | List of all trainees who successfully finished the program and are to receive the certificate | WP8 | R | PU | 11/13/15/17/19/21/23 |
| D9.0 | Report on success of the program based on metrics | WP9 | R | PU | 24 |

*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.

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| --- | --- | --- | --- | --- |
| **Milestone number** | **Milestone name** | **Work package(s) involved** | **Expected date(in month) [[13]](#footnote-14)** | **Means of verification[[14]](#footnote-15)** |
| 0 | Roles | WP0 | 1 | roles given to every person involved, everyone knows their assingments |
| 1 | Initial research | WP1,WP2, WP5 | 1 | contracts made and adequate courses creation arranged |
| 2 | Necesary  software creation | WP3 | 4 | software released and validated by a user group |
| 3 | Media campaign prepared and on-going | WP4 | 4 | media campaign prepared for release |
| 4 | Call for application | WP6 | 4.5 | opened calls for application for the programmes |
| 5 | Processing applications and candidates selection | WP6 | 9 | calls are closed, all applications are processed and candidates are selected and informed of their status |
| 6 | Courses prepared | WP5 | 8 | all courses are prepared and ready for release |
| 7 | Courses started | WP7 | 9 | for all selected candidates courses are starting |
| 8 | Mid-course test | WP8 | 11/15/19 | all 4 months long courses are having a mid-course test after 2 months |
| 9 | Final test | WP8 | 11/13/15/17/19/21/23 | final test is being done at the end of the each course |
| 10 | Analyzing test results | WP8, WP9 | 11/13/15/17/19/21/23 | progress on each course is analyzed as well as the overall progress of the project |
| 10 | Making certificates | WP8 | 24 | certificates are being done for each person who successfully went through the programme |
| 11 | Final success | WP9 | 24 | measuring final success of the project |
| 12 | Course final ceremony | WP10 | 11/15/19/23 | final ceremony held and certificates given |

*Table 1.3d: Template - Work package description*

**Work package description**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Work package number** | 0 | | **Start date or starting event:** | | | | 1 month | | |
| **Work package title** | Project management | | | | | | | | |
| **Activity type[[15]](#footnote-16)** | MGT | | | | | | | | |
| **Participant number** | 1 |  | |  |  |  | |  |  |
| **Participant short name** | UNA |  | |  |  |  | |  |  |
| **Person-months per participant** | 10 |  | |  |  |  | |  |  |

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| **Objectives**  To provide the necessary technical coordination of the project and resources management.  To provide cooperation and coordination between institutions involved. |

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| **Description of work**  Management of human and other resources. |

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| **Deliverables**  Project management plan (1) |

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| **Work package number** | 1 | | **Start date or starting event:** | | | | 1 month | | |
| **Work package title** | Research of the market | | | | | | | | |
| **Activity type[[16]](#footnote-17)** | RTD | | | | | | | | |
| **Participant number** | 2 | 3 | | 4 | 5 | 6 | | 9 |  |
| **Participant short name** | MATF | BU | | UNS | NI | KG | | ETH |  |
| **Person-months per participant** | 1 | 1 | | 1 | 1 | 1 | | 1 |  |

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| **Objectives**  To provide with necessary information which will be used later on course creation. |

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| **Description of work**  We want to do research of the demand of human resources and skills necessary to obtain the job in the IT industry and use that information later on creation of specialized courses.  Each partner will be provided with an online questionare which they are supposed to expand via their web sites, e-mail contacts and industry partners so that we can get the big picture. |

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| **Deliverables**  Research report on which jobs require more human resources (1)  Research report on what are the necessary skills for these jobs (1)  Research report on company preferences in their candidates (1) |

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| **Work package number** | 2 | | | **Start date or starting event:** | | | | 1 month | | | |
| **Work package title** | Making contracts | | | | | | | | | | |
| **Activity type[[17]](#footnote-18)** | MGT | | | | | | | | | | |
| **Participant number** | 1 | 2 | 3 | | 4 | 5 | 6 | | 7 | 8 | 9 |
| **Participant short name** | UNA | MATF | BU | | UNS | NI | KG | | MEST | Telenor | ETH |
| **Person-months per participant** | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 |

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| **Objectives**  To provide every partner participant involved with a contract. |

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| **Description of work**  We want for each party involved to have an adequate contract based on their role in the project as well as the cooperation contract between all involved parties. |

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| **Deliverables**  Individual contracts signed between UNA Corp and all other parties involved (1)  Cooperation agreement signed by all parties involved in the project (1) |

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| **Work package number** | 3 | | **Start date or starting event:** | | | | 1 month | | |
| **Work package title** | Software development | | | | | | | | |
| **Activity type[[18]](#footnote-19)** | RTD | | | | | | | | |
| **Participant number** | 2 | 9 | |  |  |  | |  |  |
| **Participant short name** | MATF | ETH | |  |  |  | |  |  |
| **Person-months per participant** | 4 | 1 | |  |  |  | |  |  |

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| **Objectives**  To provide the necessary software for online and offline courses, tests and storage for data collected during the project. |

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| **Description of work**  Firstly, programmers team from MATF should consult with their colleagues from ETH who had an opportunity to work on similar projects in order to get the necessary information about technologies and other relevant information, help, etc. Then they should proceed with the work and create the software in no more than 4 months. |

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| **Deliverables**  Software documentation (4)  Platform development (4) |

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| **Work package number** | 4 | | **Start date or starting event:** | | | | 1 month | | |
| **Work package title** | Media campaign | | | | | | | | |
| **Activity type[[19]](#footnote-20)** | DEM | | | | | | | | |
| **Participant number** | 1 |  | |  |  |  | |  |  |
| **Participant short name** | UNA |  | |  |  |  | |  |  |
| **Person-months per participant** | 10 |  | |  |  |  | |  |  |

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| **Objectives**  To create adequate media campaign and provide press staff with acreditation so they can attend opening and closing ceremonies. |

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| **Description of work**  UNA will organize the whole campaign with their media team.  Tasks:   * To create a logo * To create a press statement * To create at least 3 different TV commercials * To design and print ads for printed media * To provide good internet advertising * To create profiles on Facebook, Instagram and Twitter |

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| **Deliverables**  Press statement (4)  TV commercial (4)  All the types of printed advertising: newspaper, buildboards, pamphlets and other (4)  Internet advertising (ex. Google, Facebook, Instagram) (4)  Press pass cards for opening and closing ceremonies (9) |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Work package number** | 5 | | | **Start date or starting event:** | | | | 1 month | | | |
| **Work package title** | Courses creation and division | | | | | | | | | | |
| **Activity type[[20]](#footnote-21)** | RTD | | | | | | | | | | |
| **Participant number** | 1 | 2 | 3 | | 4 | 5 | 6 | | 7 | 9 |  |
| **Participant short name** | UNA | MATF | BU | | UNS | NI | KG | | MEST | ETH |  |
| **Person-months per participant** | 1 | 5 | 5 | | 5 | 5 | 5 | | 23 | 1 |  |

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| **Objectives**  The main objective of this work package is to have various types of courses ready for lecturing.  The other important objective is to give all created courses to corresponding lecturer and group of attendees. |

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| **Description of work**  Course creation will be based on reasearch information obtained during this WP and those obtained in WP1 and help of corresponding personnel of ETH.  There will be three types of courses created based on level of knowledge of participants:   * basic * intermediate * advanced   Those will be further divided by topics, technologies and more.  After all the courses are ready they should be divided onto different cities, schools, professors and others who will be holding it. |

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| **Deliverables**  Research on technologies and how similar courses are implemented in the developed countries (1)  Courses developed for basic knowledge (8)  Courses developed for intermediate level of knowledge (8)  Courses developed for advanced level of knowledge (8)  Specialization courses developed (8)  List of how the courses are divided by cities/schools(if applicable)/professors/age of people attending them |

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| **Work package number** | 6 | | **Start date or starting event:** | | | | 4.5 month | | |
| **Work package title** | Applications and selection process | | | | | | | | |
| **Activity type[[21]](#footnote-22)** | MGT | | | | | | | | |
| **Participant number** | 1 |  | |  |  |  | |  |  |
| **Participant short name** | UNA |  | |  |  |  | |  |  |
| **Person-months per participant** | 100 |  | |  |  |  | |  |  |

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| **Objectives**  To gather applications for courses.  To carry out selection process.  To inform candidates on their status. |

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| **Description of work**  The information about applicants should be collected, sorted and divided into categories.  After the application process is over, the gathered information should be processed and selection process is to be done.  Later on, candidates who passed the application process successfully should be informed about starting dates for their courses, location and other relevant information, while the others, should be informed that they have not passed the application process. |

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| **Deliverables**  Report on applicants (9)  Report on selection criteria (9)  List of selected candidates (9)  Final list of future trainees (9) |

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| **Work package number** | 7 | | | **Start date or starting event:** | | | | 9 month | | | |
| **Work package title** | Courses | | | | | | | | | | |
| **Activity type[[22]](#footnote-23)** | DEM | | | | | | | | | | |
| **Participant number** | 2 | 3 | 4 | | 5 | 6 | 7 | | 8 |  |  |
| **Participant short name** | MATF | BU | UNS | | NI | KG | MEST | | Telenor |  |  |
| **Person-months per participant** | 20 | 30 | 30 | | 20 | 20 | 75 | | 5 |  |  |

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| **Objectives**  Main objective is to successfully hold courses for the trainees.  To provide trainees with necessary equipment. |

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| **Description of work**  Each participant should hold the course they were chosen to trainees from the list they are provided. Telenor will provide equipment for those who are on special lists for that kind of help. |

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| **Deliverables** (brief description) and month of delivery  List of course attendees (9/11/13/15/17/19/21)  List of people from sensitive groups who received necessary equipment (9/11/13/15/17/19/21) |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Work package number** | 8 | | | **Start date or starting event:** | | | | 9 month | | | |
| **Work package title** | Tests and certificates | | | | | | | | | | |
| **Activity type[[23]](#footnote-24)** | DEM | | | | | | | | | | |
| **Participant number** | 1 | 2 | 3 | | 4 | 5 | 6 | | 7 |  |  |
| **Participant short name** | UNA | MATF | BU | | UNS | NI | KG | | MEST |  |  |
| **Person-months per participant** | 1 | 9 | 10 | | 10 | 5 | 5 | | 30 |  |  |

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| **Objectives**  To make good criteria for the evaluation process.  To collect reports on results  To track progress of trainees  To make a list of successfully finished trainees. |

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| **Description of work**  Every party involved should track success of their trainees and send that information to UNA so it can be analyzed. |

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| **Deliverables**  Report on types of test created and criteria that will be used on evaluating (9)  Report on mid-term test results (11/15/19)  Report on final test results (11/13/15/17/19/21/23)  Report on progress of trainees between mid-term and final tests (11/13/15/17/19/21/23)  List of all trainees who had successfully finished the program and are to receive the certificate (11/13/15/17/19/21/23) |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Work package number** | 9 | | **Start date or starting event:** | | | | 24 month | | |
| **Work package title** | Analyzing results | | | | | | | | |
| **Activity type[[24]](#footnote-25)** | RTD | | | | | | | | |
| **Participant number** | 1 |  | |  |  |  | |  |  |
| **Participant short name** | UNA |  | |  |  |  | |  |  |
| **Person-months per participant** | 5 |  | |  |  |  | |  |  |

|  |
| --- |
| **Objectives**  To compare results.  To measure success of the project.  To analyze data. |

|  |
| --- |
| **Description of work** (possibly broken down into tasks) and role of partners  The work consists of comparing the results and measuring success of the project based on different criteria. |

|  |
| --- |
| **Deliverables** (brief description) and month of delivery  Report on success of the program based on metrics (24) |

*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** | **WP0** | **WP1** | **WP2** | **WP3** | **WP4** | **WP5** | **WP6** | **WP7** | **WP8** | **WP9** | **Total person months** |
| **1** | **UNA** | **10** | 0 | **1** | 0 | **10** | **1** | **100** | 0 | **1** | **5** | 128 |
| **2** | **MATF** | 0 | 1 | 1 | **4** | 0 | 5 | 0 | 20 | 9 | 0 | 40 |
| **3** | **BU** | 0 | 1 | 1 | 0 | 0 | 5 | 0 | 30 | 10 | 0 | 47 |
| **4** | **UNS** | 0 | 1 | 1 | 0 | 0 | 5 | 0 | 30 | 10 | 0 | 47 |
| **5** | **NI** | 0 | 1 | 1 | 0 | 0 | 5 | 0 | 20 | 5 | 0 | 32 |
| **6** | **KG** | 0 | 1 | 1 | 0 | 0 | 5 | 0 | 20 | 5 | 0 | 32 |
| **7** | **MEST** | 0 | 0 | 1 | 0 | 0 | 23 | 0 | **75** | 30 | 0 | 129 |
| **8** | **Telenor** | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 6 |
| **9** | **ETH** | 0 | **1** | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 4 |
| **Total** | **9** | 10 | 6 | 9 | 5 | 10 | 50 | 100 | 200 | 70 | 5 | 465 |

**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.

**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[[25]](#footnote-26), 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.

The expected impact of the project is to have approximately 10% of population of certain groups to undergo the programme. Now, we will present some expected numbers of people, divided in several age groups:

* 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

In order to achieve this impact each trainee will have to pass through the whole project and do the final test. What is necessary is for us and each and every one of our trainees to sign a contract where they are stating that they are going to go through whole programme and do the final test. That contract is what provides us and the trainee with certainty: that we are going to respect their time and provide them with quality education, and that they are going to respect our efforts and pass through whole project and final tests.

Our main impact is on the lives of those people who pass though our programme, as well as the industry which is in high demand of IT savvys. This programme will help young people get interested into technology, and, hopefully, choose IT for their future careers. It will help the eldery understand technology and use it better. Furthermore, it will help people in demand of jobs get to know with some technologies and help them find out if they could fit into the industry by further learning. At last, it will help the academia and researchers get into interesting project and collaborate with other colleagues.

This project requires European approach since we are one still very young developing country with few experts in the field. Even more, some of our European colleagues helped implement similar projects in their countries and we could use their experience in course creation.

We also want our project to help other countries to implement similar solutions for their problems using our research and ideas. It will be achieved by providing our project plan, research and all the relevant/requested information to anyone who would want to implement such programme in their country. This project is a part of Pilot on Open Research Data in Horizon 2020.

There should be no obstacles/barriers concerning the potential legal issues, standards or regulations.

**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.

This project is a part of Pilot on Open Research Data in Horizon 2020. In order to make our data findable, accessible, interoperable and reusable (FAIR) this project and all it's content will be publicaly available through our web site. The free registration will be required for access to key knowledge (such as research data). We will provide 'gold' open access (open access publishing) which means that an article in immediately provided in open access mode by the scientific publisher. The costs of this type of access are fully eligible as part of the grant.

We will provide with our project and ideas various organizations for open education, Ministry of Education of all European countries and every developing and strugling country.

**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:

Some of the ethical issues that may arise are working with children and sensitive social groups of people. Any person involved and participating in our project will do such by their own will, and all the children are going to need a special permission by their parents.

In order to make selection of the candidates we will need some basic information on people applying for the programme such as:

* name and surname – for diploma, lists of candidates,
* age – in order to place our candidates into groups
* income – necessary for ranking of the candidates of sensitive groups
* educational background – in order to place our candidates into groups and know their level of knowledge so we can measure their progress
* personal number – necessary in case there are two people with the same name, also convenient for database key (we assume that there are no two or more same personal numbers)
* city and adress – in order to place our candidates into groups
* phone number – we need a way to contact our candidates and trainees

We are commited to protection of personal data, and we respect the law of protection of personal data in full. We will not provide any personal data to any third party. In the research we will only use age, income, city and educational background as relevant data. No names, surnames, personal number, addresses or phone numbers will be used.

**ETHICAL ISSUES TABLE**

|  |  |  |
| --- | --- | --- |
|  | **YES/NO** | **Explanation** |
| **Informed Consent** |  |  |
| * Does the proposal involve children? | Yes | The children will be provided with learning opportunites. |
| * Does the proposal involve patients or persons not able to give consent? | No |  |
| * Does the proposal involve adult healthy volunteers? | Yes | The adult healthy volunteers will be provided with learning opportunites. |
| * Does the proposal involve Human Genetic Material? | No |  |
| * Does the proposal involve Human biological samples? | No |  |
| * Does the proposal involve Human data collection? | Yes | We will collect some data of our trainees such as: age, educational background, social status, etc. |
| **Research on Human embryo/foetus** |  |  |
| * Does the proposal involve Human Embryos? | No |  |
| * Does the proposal involve Human Foetal Tissue / Cells? | No |  |
| * Does the proposal involve Human Embryonic Stem Cells? | No |  |
| **Privacy** |  |  |
| * Does the proposal involve processing of genetic information or personal data (eg. health, sexual lifestyle, ethnicity, political opinion, religious or philosophical conviction) | No |  |
| * Does the proposal involve tracking the location or observation of people? | No |  |
| **Research on Animals** |  |  |
| * Does the proposal involve research on animals? | No |  |
| * 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) | **No** |  |
| * Impact on local community | **Yes** | Local community will have an opportunity to make significant progress and changes in their lives in a positive manner. |
| **Dual Use** |  |  |
| * Research having direct military application | No |  |
| * Research having the potential for terrorist abuse | No |  |
| **ICT Implants** |  |  |
| * Does the proposal involve clinical trials of ICT implants? | No |  |
| **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. Specific Challenge from the topic description: <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/swafs-01-2018-2019.html> [↑](#footnote-ref-4)
4. Workpackage number: WP 1 – WP n. [↑](#footnote-ref-5)
5. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium [↑](#footnote-ref-6)
6. Number of the participant leading the work in this work package. [↑](#footnote-ref-7)
7. The total number of person-months allocated to each work package. [↑](#footnote-ref-8)
8. Measured in months from the project start date (month 1). [↑](#footnote-ref-9)
9. 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-10)
10. Please indicate the nature of the deliverable using one of the following codes: **R** = Report, **P** = Prototype, **D** = Demonstrator, **O** = Other [↑](#footnote-ref-11)
11. 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-12)
12. Measured in months from the project start date (month 1). [↑](#footnote-ref-13)
13. Measured in months from the project start date (month 1). [↑](#footnote-ref-14)
14. 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-15)
15. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium. [↑](#footnote-ref-16)
16. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium. [↑](#footnote-ref-17)
17. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium. [↑](#footnote-ref-18)
18. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium. [↑](#footnote-ref-19)
19. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium. [↑](#footnote-ref-20)
20. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium. [↑](#footnote-ref-21)
21. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium. [↑](#footnote-ref-22)
22. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium. [↑](#footnote-ref-23)
23. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium. [↑](#footnote-ref-24)
24. Please indicate one activity per work package: RTD = Research and technological development; DEM = Demonstration; MGT = Management of the consortium. [↑](#footnote-ref-25)
25. See CORDIS web-site, and annex 1 of the work programme. [↑](#footnote-ref-26)