



Empowered lives.  
Resilient nations.

## TERMS OF REFERENCE

<b>Job Title:</b>	<b>National consultant to support Moldova Social Innovation Hub (MiLab) in organising the EduSoft Hackathon</b>
<b>Type of Contract:</b>	<b>Individual Contract (IC)</b>
<b>Duty Station:</b>	<b>Chisinau, Moldova</b>
<b>Expected workload:</b>	<b>up to 45 working days</b>
<b>Expected duration of assignment:</b>	<b>August – October 2015</b>

## BACKGROUND

There is a fast shift taking place in the realm of public policy and development program design around the world. Rise of democracy, spread of new technologies and knowledge, but also shrinking resources of the public and development organizations in the face of increased complexity and interconnectedness of the social challenges, mean that design and implementation of public policies and development programs has seized to be under the exclusive remit of the selected few.

Along with the opening up of the public policy space, the rise of civic activism have changed the way the Governments approach public policy development, service delivery and engage with the citizens. The Government has increasingly looked to tap into expertise and solutions from other sectors and wants to move towards 'networked governance' solutions to the issues it faces daily.

UNDP Moldova itself, through MiLab - joint project with the E – Government Center, has supported national counterparts in embarking on several innovative projects that seek to apply new approaches to engage with citizens and enable people to contribute stronger to the country's development. Some previous examples include: gaming for youth employment; applying behavioural insights for TB treatment; Modern School Open Challenge, etc.

MiLab acts as a multilateral platform serving to engage actors from different sectors (public, private, non-profit, etc.) to seek and experiment with innovative approaches to the society's problems. Its work is structured around three interlinked components, i.e. public services redesign, applying people's solutions, and mainstreaming social innovations. The **public participation component** includes creating the channels or outlets for engagement, setting the rules, specifying the issues that would engage people to participate in solving them. Also screening the horizon, and subsequently connecting social innovation initiatives with government and private sector counterparts that could enable the implementation of those initiatives.

Under this component falls the **EduSoft** hackathon initiative, which aims to involve university students in developing applications for a more effective and motivating study of mathematics in school.

According to the Ministry of Education, in 2014 only 50.74% of high school students have passed the baccalaureate in mathematics. At the same time, during the past three years the Ministry has advanced in computerizing the science classrooms in about 100 schools with the support of private sector partners such as Intel, Microsoft, StarNet, Soros, and others.<sup>1</sup> However, the production of educational software aligned with Moldovan curricula is still lagging behind. The implementation of localized and engaging IT applications for the study of mathematics could be a solution to increase both the quality of education as well as the students' performance.

**EduSoft** is planned as a month-long contest that will take place between September and October 2015. University students from IT specialties, but not limited to, will form teams with school teachers of mathematics and with the assistance of experienced mentors will develop educational apps. The Hackathon will be organised as follows:

1. Will be launched with the presence of partners from the Ministry of Education, E-Government and IT companies, followed by kick-off training sessions. Participating teams will receive training that will enhance their capacity to work as teams, manage their time and produce qualitative products. Each team will be provided with instructions for building their apps and 5 TORs for scoping them, from which they will be able to pick one.
2. During the first two weeks' time, the teams will meet each Saturday for a Working Day, and will develop an Alfa version of their apps. During Saturday working day they will have the chance to meet and get feedback or instructions from their mentors and math teachers.
3. The first part of the hackathon will end with a reality check (user acceptance testing) by the potential users (teachers, pupils).
4. The next two weeks, teams will continue developing their apps and will incorporate the feedback from users. The working schedule will be flexible, but students will continue meeting for Saturday working days, during which they will interact with their mentors and math teachers.
5. Finally the teams will present their products to an Evaluation Jury that will decide on the winning apps. The winning teams will be invited to finish up the work and prepare their final products at a two-day Hack camp.

## OBJECTIVES AND EXPECTED DELIVERABLES OF THE ASSIGNMENT

The **national consultant** is expected to provide support to MiLab in organising the EduSoft hackathon through:

- Ensuring the development of the hackathon's agenda in collaboration with a mathematics teacher and finding the qualified trainers to provide capacity building for the participating teams
- Ensuring the successful implementation of the EduSoft hackathon in collaboration with the team of project volunteers
- Communicating with project mentors, partners, participants and key stakeholders
- Monitoring the progress and evaluation of the results achieved and provision of brief narrative reports to MiLab team

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<sup>1</sup> "Connect! Information technology for learning success "(2013), <http://www.edu.gov.md/en/evenimentele-saptamini/14725/>

- Strictly observing UNDP standards and practices related to procurement under the specific requests from the Project team.

**Key deliverables:**

<b>Deliverables</b>	<b>Deadlines</b>
Agenda for the hackathon developed (up to 3 w/d)	By end of August, 2015
Implementation plan for the hackathon, including logistic and administrative parts, developed (up to 2 w/d)	By end of August, 2015
IT professionals that will conduct the capacity building sessions during the hackathon identified (up to 5 w/d)	By mid-September 2015
A team of 6 to 8 mentors to work voluntarily and closely with the teams of developers during the hackathon, set up (up to 5 w/d)	By mid-September 2015
Partnerships with at least 2 IT companies for the implementation of the hackathon, set up (up to 5 w/d)	By mid-September 2015
One Evaluation Jury with IT technical expertise, mathematical expertise, and other representatives of the organisers, for the evaluation of the Hackathon resulting apps, set up (up to 2 w/d)	By the end of September 2015
Assist the Project Team in developing the promo campaign plan and other visibility actions related to EduSoft (up to 3 w/d in total)	By the end of September 2015
4 Saturday team work sessions and trainings organised (up to 6 w/d)	By October 2015
One user acceptance testing session (reality check exercise) with the participation of school mathematics teachers and pupils organised (up to 2 w/d)	By October 2015
Two-days Hack camp for the winning teams planned and successfully organised (up to 5 w/d)	By October 2015
Monitoring the implementation with weekly reporting to MiLab team Post implementation evaluation report developed (up to 5 w/d in total)	By the end of October 2015
Assist the Project Team with other tasks related to the successful implementation of EduSoft (up to 2 w/d in total)	By November 2015

**SKILLS AND EXPERIENCE REQUIRED**

**Education:**

- University degree in Business Administration, Public Administration, Information Technology, social sciences, or related areas.

**Experience:**

- At least two (2) years of experience is required at the national or regional levels in organizing or facilitating similar hackathons or training courses.
- Proven experience in agenda or conference management.
- Working experience in the field of education would be an advantage.
- Previous experience in development assistance or related work for a donor organization, governmental institutions, NGO/think-tank or private sector / business consulting firm is a strong advantage.
- Previous experience in working within UNDP or other international organizations will be an asset.

**Competencies:**

- Fluency in both oral and written Romanian and Russian is a must; knowledge of English is a strong advantage.
- Working knowledge of one or more additional languages relevant for Moldova, including Bulgarian, Gagauzian, Romani, Ukrainian or sign language is an asset;
- Good knowledge of IT applications development process.

**Personal qualities:**

- Proven commitment to the core values of the United Nations, in particular, respecting differences of culture, gender, religion, ethnicity, nationality, language, age, HIV status, disability, and sexual orientation, or other status;
- Demonstrated interpersonal and diplomatic skills, as well as the ability to communicate effectively with all stakeholders and to present ideas clearly and effectively.
- Excellent organizational and administrative skills;
- Problem solving skills and result orientation;
- Responsibility;
- Creativity;
- Flexibility.

**PERFORMANCE EVALUATION**

Contractor’s performance will be evaluated against timeliness, responsibility, initiative, creativity, communication, accuracy, and overall quality of the delivered products.

**ORGANIZATIONAL SETTING**

The consultant will work under the supervision of MiLab Communication and Outreach Officer. Will meet with the project team twice per week and will provide a monthly report on the work progress. Otherwise the communication will be conducted via email and phone.

**FINANCIAL ARRANGEMENTS**

Payments will be disbursed in several installments, upon submission and approval of deliverables, and certification by Alex Oprunenco, UNDP Moldova Policy Specialist, that the services have been satisfactorily performed.