

# STREAM

## *Strenghtening the Life Long Learning in environmental Sciences in Russia*

**Start date: 15.10.2012**

**End date: 14.10.2015**



# Stakeholders

## EU Member Countries:

- ✓ SR, Slovak Agriculture University (SUA) – Project Coordinator
- ✓ AT, Universität für Bodenkultur (BOKU)
- ✓ AT, Austrian Agency for Quality Assurance (AQA)
- ✓ IT, University of Tuscia (UNITUS)
- ✓ FR, Institut National Supérieur des Sciences Agronomiques de l'Alimentation et de l'Environnement, (EDUTER)

## Partner Country: Russian Federation

RU, Russian State Agrarian University – Moscow Timiryazev Academy  
(RSAU-MTA)

RU, Dukachaev Soil Science Society (DSSS)

RU, Tomsk State University (TOMSK)

RU, Far Eastern Federal University (FEFU)

RU, Ministry of Education and Science (MES)

RU, Education & Methodics Association on Agronomic Education (EMA)

RU, Kuban State Agrarian University (KUBSAU)

RU, Voronezh State University (VSU)

# Wider objective

- Contribute to the development of a national framework for life long learning in line with the needs of a knowledge-based society in Russia

# Specific Objectives

- Setting-up a horizontally & regionally distributed network for LL e-learning in environmental management, design & impact assessment (EMDIA)
- Development and implementation of 7 Tuning/ECTS-based modular training programs (MTPs), tailor-made to meet the needs of various regions and target groups
- Recognition of an enhanced LLL framework by the target audience of a society & dissemination of the lessons learned beyond the initial target groups and regions

# Outputs and Outcomes

1. LLL needs on EMDIA identified;
2. National horizontally & regionally distributed network for lifelong E-learning established;
3. Key trainers & managers trained;
4. Tailor-made Tuning/ECTS-based MTPs developed;
5. MTPs piloted & implemented at all focal points;
6. Lessons learned documented & follow-up program developed;
7. Dissemination;
8. Sustainability;
9. Quality control and monitoring;
10. Management of the project



1. LLL needs on EMDIA identified

*Start date:* October 2012

*End date:* 31/01/2013

2. National horizontally and regionally distributed network for lifelong E- learning

*Start date:* November 2012

*End date:* 30/08/2013

3. Key trainers and managers trained

*Start date:* January 2013

*End date:* 24/04/2013

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### 3. Key trainers and managers trained

*Start date:* January 2013

*End date:* 24/04/2013

### 4. Tailor made Tuning/ECTS based modular training programs developed

*Start date:* February 2013

*End date:* 28/09/2013

### 5. Modular training programs piloted and implemented at all focal points

*Start date:* September 2013

*End date:* 26/12/2014

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6. Lessons learned documented and follow-up program developed

*Start date:* November 2013

*End date:* 27/02/2015

7. Dissemination

*Start date:* May 2014

*End date:* 20/08/2015

8. Sustainability

*Start date:* February 2015

*End date:* 31/07/2015



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## 9. Quality control and monitoring

*Start date:* January 2013

*End date:* May 2015

## 10. Management of the project

*Start date:* October 2012

*End date:* September 2015

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# 1. LLL needs on EMDIA identified

*Start date:* October 2012

*End date:* 31/01/2013

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## **1.1 Kick off meeting**

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*SUA and RSAU-MTA*

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✓ Detailed workplan of the project activities will be elaborated

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✓ Roles and responsibilities will be precised

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✓ List of: modular training programs

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modular training courses based on Tuning/ECTS requirements  
and SCORM compliant for e-learning

## **1.2 Setting up a steering committee**

*RSAU-MTA, DSSS, FEFU, MES, EMA, KUBSAU – taking part in the setting-up a steering committee*

Relevant stakeholders in the environmental sector,

✓ MES

✓ EMA

✓ Member partners of HEIs with international project and e-learning experience

✓ Representatives of environmental bodies and authorities responsible both for environmental management, design and impact assessment and training of governmental employees in this area

### **1.3 LLL needs and target audience analysis**

*RSAU-MTA, DSS, TSU, FEFU, EMA, KUBSAU, VSU*

**Report** on LLL long-term needs assessment in environmental sciences – it will provide stakeholders with relevant up-to-date information, forecast , forecast up to 2017 in Russia with a special reference to modern challenges in Education, Environment and Economy

### **1.4 Elaboration of training concept**

*SUA, AQA, BOKU, RSAU-MTA, DSS, TSU, FEFU, EMA, KUBSAU, VSU*

**Training concept** will contain the precise description and requirements to human recourses/personnel, normative and legal environment, e-learning content, and technical solutions for smooth operation of the LLL network.

## 2. National horizontally and regionally distributed network for lifelong E-learning

*Start date:* November 2012

*End date:* 30/08/2013

### **2.1 Acquisition and installation of equipment**

*RSAU-MTA – coordination, TSU, FEFU, KUBSAU, VSU – participation*

**5 focal points:** Central (Moscow and Voronezh), South (Krasnodar), Siberian (Tomsk) and Far-East (Vladivostok) – provide with necessary for smooth operation of LLL network equipment and software

## 2.2 Web-side development

*RSAU-MTA – coordination,*

Crucial for LLL network operation and projects results dissemination

**web platform** will be established,

✓ domain name will be registered,

✓ hosting will be provided,

✓ web design will be developed and integrated into the web platform

## 2.3 LMS installation & configuration

*RSAU-MTA – summarizes the requirements of partner HEIs to the configuration of the LMS,*

*TSU, FEFU, KUBSAU, VSU – participation*

Crucial for the **e-learning Learning Management System** will be installed and configured to the needs and requirements of partner HEIs and target groups.

## 2.4 Library updating

*RSAU-MTA, TSU, FEFU, KUBSAU, VSU – assurance the updating of the libraries at the partner HEIs.*

*SUA, BOKU, UNITUS, EDUTER – provide the recommendations on the topical issues of environmental sciences:*

*SUA – biotic resources*

*BOKU – water and soil recourses*

*UNITUSs – air recourses*

*EDUTER – e-learning, informing, information and communication technologies in education*

In order to ensure the relevance of teaching recourses to be developed by partner HEIs **their libraries will gain access** to the latest publications in the field of environmental sciences.

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### 3. Key trainers and managers trained

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*Start date: January 2012*

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*End date: 24/04/2013*

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**60 trainers**, instructional designers and subject matter experts + **12 training managers and facilitators** from the partner HEIs will be trained and certified both in the Russian Federation by an external training provider and in the EU by BOKU and EDUTER

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Additional **training of 20 key trainers and subject matter experts** from Russian partner HEIs within co-financing will be organized by UNITUS and SUA.

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Subcontracted tasks: Russian federation – RSAU-MTA –  
External training courses for key trainers

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External training courses for key training managers



### **3.1 Training of trainers**

*EDUTER, BOKU*

60 trainers, instructional designers and subject matter experts from partner HEIs will be trained and certified in “Designing and developing e-learning courses”

### **3.2 Training of training managers**

*EDUTER, BOKU*

12 training managers and facilitators from partner HEIs will be trained in “Managing and evaluating e-learning activities.”

## 4. Tailor-made Tuning/ECTS based modular training programs developed

*Start date:* February 2012

*End date:* 28/09/2013

### **4.1 Development of specification**

*TSU, KUBSAU, VSU, FEFU, RSAU-MTA* – participation  
*SUA, UNITUS, EDUTER, BOKU, AQA, DSS, EMA* –  
contribution to the development of specification

The instructional specification using learning and instructional theory to ensure the quality of instruction will be developed.

The aim of instructional design:

- to improve employee performance
- to increase organizational efficiency and effectiveness

Development of a number of regulations will be developed

## **4.2 Designing e-learning courses**

*TSU, KUBSAU, VSU, FEFU, RSAU-MTA* – participation

*SUA, UNITUS, EDUTER, BOKU, AQA, DSS, EMA* – contribution to the design e-learning courses

The partners and instructional designers from partner HEIs will design the e-learning courses with a special references to learner's needs.

## **4.3 Creative interactive content**

*TSU, KUBSAU, VSU* (biotic components)

*FEFU* (water components)

*RSAU-MTA* (soil components)

The instructional designers and subject matter experts involved in project implementation from partner HEIs will create interactive e-learning content.

The consortium adopted methodology and tools will be used to create the e-learning content.

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## 5. Modular training programs piloted and implemented at all focal points

*Start date:* September 2013

*End date:* 26/12/2014

### **5.1 Installation of courseware into LMS**

***RSAU-MTA, TSU, FEFU, KUBSAU, VSU***

- installation of the developed SCORM into the LMS

Each of the 5 projects focal points will be responsible for the installation of the e-courses developed by the working groups at the appropriate partner HEIs.

## **5.2 Formation of 7 pilot target groups**

*RSAU-MTA, TSU, FEFU, KUBSAU, VSU, MES, FSSNR-VR*

Built by each of the 5 focal based on motivation, existing knowledge and skills in environmental management, design and impact assessment.

## **5.3 Pilot course delivery to target audience**

*RSAU-MTA, TSU, FEFU, KUBSAU, VSU*

The pilot e-course delivery to the representatives of the 7 target groups at all of 5 focal points will include e-learning, webinars and videoconferences, testing, certification, filling in questionnaires, collecting feedback.

## **A** 6. Lessons learned documented and follow-up program developed

*Start date:* November 2013

*End date:* 27/02/2015

### **V** 6.1 **E-learning evaluation**

*RSAU-MTA* – summarize the feedback and recommendation

*TSU, FEFU, KUBSAU, VSU* – participation in summarizing

*EDUTER, AQA*

- ✓ E-learning evaluation carried out by National and European experts
- ✓ Questionnaires and feedback from the pilot course delivery will be analyzed
- ✓ Recommendations for the fine-tuning of the learning resources will be provided
- ✓ The operation of the LMS within and outside the country will be tested

## **6.2 Fine-tuning of courseware**

*RSAU-MT, TSU, FEFU, KUBSAU, VSU*

Carried out by Russian partner HEIs, taking into account results on feedback analyses and recommendation both of representatives of pilot target groups and European experts.

## **6.3 Documentation of lessons learned**

*RSAU-MTA, TSU, FEFU, KUBSAU, VSU, MES*

The main purpose of the Lessons Learned Report is to bring together any lessons learned during the STREAM project and that can be very usefully applied to other projects and relevant stakeholders in the area of e-learning nationwide. The Report will be made of any good and bad points that will arise during the development, implementation and management of e-learning resources in Environmental sciences.



## 7. Dissemination



*Start date: May 2014*



*End date: 20/08/2015*



Networks and channels intensively used by the project consortium:



✓ Network of the Dukachaev Soil Science Society (58 regional divisions across Russia, 8-10 conferences a year)



✓ Network of the Education and Methodics Association on Agronomic Education (82 HEIs across Russia, at least 1 meeting a year)



✓ Web-side of the project and projects blogs in the social network such as Likedin, Twitter, Facebook, and Livejournal and



✓ Network of the Leading HEIs in Life Sciences in the CIS countries where RSAU-MTA plays a key role (10 HEIs across Russian speaking CIS region, 2 meetings a year)





## **7.1 Publishing of courseware**

*EMA, RSAU-MTA, DSSS, TSU, FEFU, KUBSAU, VSU*

For the purposes of dissemination the courseware and teaching materials will be published both as a hand copies and e-form. The teaching materials will be also used for further accreditation of the modular training programs by partner HEIs.

## **7.2 Project web-side and social networks blogs**

*RSAU-MTA, KUBSAU, TSU, VSU, FEFU, SUA*

The main activities and events of the STREAM project will be highlighted on the projects web-sides of Russian partner HEIs, social networks such as LinkedIn, Twitter, Facebook and Livejournal. All of the activities will be highlighted in the Russian language, the most important – also in English language. This will provide a very broad awareness rising in the professional and academic society on the STREAM project with small financial resources.

## **7.3 Final meeting – 20.08.2015**

*EMA, RSAU-MTA, SUA*

*BOKU, UNITUS, EDUTER, DSSS, TSU, FEFU, MES KUBSAU,*

*AQA, VSU, FSSNR-VR*

Summarizing event held in MOSCOW

Presentation of the achieved results and the lessons learned to a wider audience – environmental managers and decision members. MES administrators, representatives of environmental companies, administrative, academic and teaching staff of Russian HEIs, members of student organizations, secondary school teachers and students and European experts.

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## 8. Sustainability

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*Start date:* February 2015

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*End date:* 31/07/2015

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The sustainability of project results both within and outside the lifetime of the project will be achieved through

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✓ signing of a Network agreement between the Russian partner HEIs, representing 5 focal points

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✓ the national accreditation of the modular training system.

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## **8.1 Modular training programs approval & accreditation**

*MES, TSU, FEFU, KUBSAU, VSU, RSAU-MTA*

The developed modular training programs will be approved by Academic councils of the Russian partner universities and the accreditation examination content and quality conformity of training programs with the federal state educational standards and/or the federal government requirements will be carried out. In addition to other measures it will contribute to the sustainability of project results.

## **8.2 Network agreement**

*TSU, FEFU, KUBSAU, VSU, RSAU-MTA*

The network agreement will constitute a common document outlining the rights and responsibilities of 5 F.P represented by authorities of partner HEIs for the maintenance and further development of the LLL network.



## 9. Quality control and monitoring



*Start date:* January 2013



*End date:* May 2015



### **9.1 Self-evaluation**



*RSAU-MTA, DSSS, TSU, FEFU, EMA, KUBSAU, VSU,*

(plus internal)



*FSSNR-VR, MES – internal*



For the self-evaluation of the project activities the Internal monitoring



group will be set-up. The monitoring group will evaluate the

implementation of the project in accordance with the workplan at the



local level and summarize its findings in the Self-evaluation reports.



## **9.2 Modular training programs peer-reviewed**

*AQA, SUA, RSAU-MTA*

*BOKU, UNITUS, EDUTER – general contribution*

The external evaluation of the modular training programs will be carried out by European peer-reviewed team built by the Austrian Agency for Quality Assurance. The team will include the educational and research experts in the field of environmental management, design and impact assessment, practical means, representatives of students community. The team will produce the Peer-reviewed report.

## **9.3 Interim meeting (13<sup>th</sup> month - October 2013 / 25<sup>th</sup> month - October 2014)**

*RSAU-MTA, AQA, SUA, BOKU, UNITUS, EDUTER, DSSS,*

*TSU, FEFU, MES, EMA, KUBSAU. VSU. FSSNR-VR*

The two comprehensive interim meetings will be organized for quality control and monitoring of the project activities by relevant stakeholders – one before and one after the external evaluation.

# A 10. Management of the project

C *Start date:* October 2012

t *End date:* September 2015

## i **SUA – The European project coordination**

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- the overall coordination and management of planned project activities
  - for timely preparation and submission of project reports to the EACEA
  - the financial management of the whole project.

## t **Russian State Agrarian Uni MTA in Moscow - The** i **National project coordination**

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- national coordination of project activities in Russia (SUA, MES and National Tempus Office in Moscow)
  - linking node to the 4 F.P of the project located in Krasnodar, Voronezh, Tomsk, Vladivostok.
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# Steering Committee

The significant support to the management of the project EIs strategic planning,

- overseeing the project workplans and tasks,
- general organization of the activities of the regional focal-points,
- summarizing the views of the relevant stakeholders
- producing recommendations to the European coordination office on the project management
- twice a year meetings at one of the five focal points

## 10.1 Steering committee meeting

*RSAU-MTA, DSSS, TSU, FEFU, MES, EMA, KUBSAU, VSU, FSSNR-VR*

The Steering committee will be responsible for the strategic planning, overseeing the project work plans and tasks, general organization of the activities of the regional focal-points, summarizing the views of the relevant stakeholders and producing recommendations to the European Coordination office management. The steering committee will meet twice a year – each time at one of the five F.P.



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## **10.2 Day-to-day management**

*SUA, RSAU-MTA, TSU, FEFU, KUBSAU, VSU*

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Performed by the European project coordination office at the SUA in close cooperation with the National project coordination office in Moscow. The National office will be in operative communication with 5 focal points of the LLL network, MES, National Tempus Office and other relevant stakeholders located in Russia.

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## **10.3 Project milestones informing**

*RSAU-MTA*

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*MES –the progress reports on project implementation reviews*

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Will be used for the purpose of adding the significant value to project management. Through receiving a special attention at the important stages of the project the corrective actions in case of problems will be met by the SC and the deliverables will be completed in time

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## How indicators will be measured?

- ✓ LLL needs reports
- ✓ Supporting documentation of 5 focal points for LLL
- ✓ Key trainers and managers list, syllabus, copies of certificates
- ✓ MTPs catalogue
- ✓ Supporting documentation of E-LMS
- ✓ E-learning reports covering assessment, course and sign-in activity
- ✓ Lessons learned report
- ✓ Minutes of SC meetings
- ✓ Network agreement
- ✓ Peer-review reports, questionnaires, monitoring reports
- ✓ Progress and final reports

# Assumptions

R ✓ On going education reform

i ✓ Stability of political and economic environment

✓ Institutional support of environmental bodies at all levels

✓ Low levels of motivation and/or commitment to change and/or cooperate

S ✓ Development of MTPs delayed due to bureaucratic procedures

✓ Conflict of interests

k ✓ Poor and/or instable internet connectivity at regional focal points

✓ MTPs tailor-made and addressing the needs pf all target groups at all project sites

S ✓ MTPs developed in compliance with national and European standards

**Thank you for your  
attention!!!**