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| Title: | SUNRAISE: Sustainable Natural Resource Use in Arctic and High Mountainous Areas |
| Number: | 586335-EPP-1-2017-1-DE-EPPKA2-CBHE-JP (2017-3138/001-001) |
| Coordinator: | University of Bremen |
| Partners: | UniHB, PLUS, EULS, RSHU, SFU, GASU, ASMP, JNU, KU, CHEA |

NOTE: All below-mentioned items are decisions by consensus. For further items and decisions made on earlier meetings please check SUNRAISE website <http://sunraise.sfu-kras.ru/> or, for full versions, the Platform for Project Management. Every partner can access the platform with their individual account. Partners who still don't have an account, please contact I. Novopashenny (novopashenny@zmml.uni-bremen.de).

Objectives of the meeting:

- **Evaluation of the TLM development**
- **Development of SUNRAISE MOOCs**
- **Presentation and discussion of current activities**
- **Discussion on force majeure circumstances occurred due to the novel coronavirus and related national and local restrictions in SUNRAISE project and partner countries from late February 2020 on.**
- **refinement of upcoming activities**

Attendees:

- **Eduard Podgaiskii**, Russian State Hydrometeorological University (RSHU)
- **Nina Pakharkova**, Siberian Federal University (SFU)
- **Natalia Iurkova**, Gorno-Altai State University (GASU)
- **Jürgen Breuste**, Paris Lodron University Salzburg (PLUS)
- **Kalev Sepp**, Estonian University of Life Sciences (EMU)
- **Anton Shkaruba**, Erda RTE (external expert)
- **Om N. Katel**, Royal University of Bhutan (RUB)
- **Prakash C. Tiwari**, Kumaun University (KU)
- **Pawan Kumar Joshi**, Jawaharlal Nehru University (JNU)
- **Jun Zhao**, University of Bremen (UNIHB)
- **Igor Novopashenny***, University of Bremen (UNIHB)

Evaluation of the TLM development

WP2.1 Revision of existing and development of new BSc/MSc courses.

Agreed:

We developed:

21 ECTS Bachelor courses

Monitoring and early warnings in mountain social-ecological systems Soil Ecology (Mountain and Arctic modules), BSc, 3 ECTS

Plant Ecology (Mountain and Arctic modules), BSc, 3 ECTS

Sustainable Development (Mountain and Arctic modules), BSc, 3 ECTS

Natural-resource potential of the regions (Mountain and Arctic modules), BSc, 3 ECTS

Additional chapters of atmospheric physics in the Arctic region, BSc, 3 ECTS

Environmental design and expertise, BSc, 3 ECTS

Introduction to Environmental Sciences, 2 ECTS

39 ECTS Master courses

Biogeochemistry of permafrost landscapes, MSc, 3 ECTS

Environmental Biomonitoring (Mountain module), MSc, 3 ECTS

Environmental safety of mineral resources exploration on the Arctic shelf, MSc, 3 ECTS

The impact of climate and its changes on the state of ecosystems and human activity in the polar and mountainous regions, MSc, 3 ECTS

Waste management, MSc, 3 ECTS

Sustainable development of mountain territories, MSc, 3 ECTS

Climate Change Impacts and Adaptation in Himalaya, M.A/M.Sc 2 ECTS

Sustainable Mountain Development with Special Reference to the Indian Himalayan Region, M.A/M.Sc 2 ECTS

Integrated Watershed Management, M.A/M.Sc. 2 ECTS

Natural Resource Management, M.A/M.Sc 2 ECTS

Risk, Vulnerability and Resilience: Concepts and Understanding MA 2 ECTS

Ecosystem Approach for Disaster Risk Reduction MA, 2? ECTS

Ecosystem Processed, MPhil 2 ECTS

Man & Tropical Forest Ecosystem Function, MPhil 2 ECTS

Himalayan Ecology, MPhil 2 ECTS

Ecological Aspects of Urbanization in Mountain Areas, MSc/PhD, 3 ECTS

These courses are supported by different Teaching and learning materials, eLearning courses and guidelines.

Decided:

- Update the information about the courses on the web site.
- Continue exploitation of during the upcoming Semesters and get the feedback from the learners and teachers, get evaluation from the experts and improve the courses according this feedback.

WP2.2 Development of PhD research framework and proposals to amend RU PhD training standards and “passports of PhD programs”

Agreed : PhD research framework is developed, peer-reviewed and approved by PIs by Sep 2019; proposals to amend PhD training standards and submitted by Jan 2020. But dissemination and follow-ups have been suspended due to Covid19

WP2.3 Summer schools and on-site seminars for faculty and PhD students

Agreed : Two Summer schools, 2017 Krasnojarsk+Gorno Altaysk are conducted according the work plan. The 3rd Summer school in St. Petersburg planned for August 2020 is likely to be rescheduled, due to the mobility restrictions caused by pandemic of COVID 19.

WP3.

WP3.1 Deployment and implementation of SUNRAISER

Agreed : We started this activity in time, but now it is on hold due to Covid19, because due to massive amount of extra tasks at all the partner universities, we do not have enough staff to get actively involved.

WP3.2 Development of eLearning modules

Agreed : Initial titles are developed; revision following reviews and further exploitation are mostly suspended due to Covid19 (not enough staff)

WP3.3 Development of MOOCs

Agreed : 3 Massive open online courses are considered as fully developed.

Noted:

Sustainable development of mountain areas in the context of ecosystem services (Russian version and English version) – the MOOC is available in two language versions, has been piloted and its Russian version has been positively reviewed by stakeholders; the development team from co-leading institutions Gorno-Altai State University and Kumaun University shall be praised for timely delivery and exemplary cooperation process over the task;

Introduction to the Arctic environment and permafrost zones, with an overview of biophysical, social and economic systems, available knowledge and science-policy interfaces – the MOOC has been developed as a co-production with RSHU and SFU students, and as such shall be praised for an inclusive and iterative process;

SDGs for the Arctic and High Mountains, with implications for policy, management and planning – the MOOC has been created in Russian and piloted internally for SUNRAISE students only during the spring semester 2020; the MOOC is conditionally accepted as all the formal conditions are met; we however recommend to update it to secure broader involvement of external lecturers in order to ensure broader outlook and topic range appropriate for the theme.

The revision following reviews and further exploitation and follow ups are mostly suspended due to Covid19 (not enough staff).

WP3.4 Development of eScience modules for doctoral students

Agreed : Initial titles are developed; revision following reviews and further exploitation are mostly suspended due to Covid19 (not enough staff)

WP4.

WP4.1 Establishment of sectoral collaborative platforms in each PC

Agreed : Done and there is evidence of a working arrangement for Altai-Sayany and Himalayans
The work on the Arctic platform is suspended due to Covid19 (not enough staff)

WP4.2 Development of arrangements for credit and physical mobility, sharing of experimental facilities, joint MSc & PhD supervision and research collaboration

Agreed : the work started but is suspended due to Covid19 (not enough staff)

WP4.3 6 on-site seminars for administrators and stakeholders

Agreed: Done. The reports on these events are available.

WP5 Quality Control

Agreed:

We continue the work on this issue, but it is hanging on the suspended development

WP6 Dissemination

Agreed:

WP6.1 Development and maintenance of SUNRAISE www portal, social media accounts and promotion plan

is done regularly and reflects the current state of the work on the project.

WP6.2 Development of SUNRAISE detailed business plan

Is mostly suspended due to Covid19 (not enough staff)

WP6.3 Organisation of 2 SUNRAISE business-academy conferences

One conference was conducted in November 2019 in Gorno Altaysk. The second conference that should be held in March 2019 in Nainital was suspended.

WP6.4 Running of collaborative sectoral platforms

There are reportable activities for the Altai-Sayany and Himalayan. The artic one is delayed.

WP6.5 Implementation of SUNRAISE curricula and research training

Done partly, the teaching and learning activities in 2020 were partly suspended, due to the restrictions caused by Pandemic of Covid 19. We plan to continue the training in the Fall Semester 2020 and in the 2021.

WP7 Management.

The work of SG is done regularly. We had three meetings, and regularly organise online Video and Audio meetings. The reports from the partners are gathered, proved and evaluated by coordinator, SG, QA team and WP leaders.

Some Monitoring visits of coordinator to the partner Universities were suspended due to Covid19 (Mobility restrictions)

Discussion on force majeure circumstances occurred due to the novel coronavirus and related national and local restrictions in SUNRAISE project and partner countries from late February 2020 on.

Noted and agreed:

The following SUNRAISE activities were seriously affected:

- Training: two training events (a spring school in Nainital in March 2020 and a summer school in St.-Petersburg) were cancelled to date, while replacement options were difficult to come up with in this short time period, in case of Nainital because travel restrictions were announced just days before the start of the school, and because the quality of ICT infrastructure in India (in such a remote area as Nainital, in particular) is poor; in case of St.-Petersburg because teaching and technical staff is currently unavailable to work on replacement solutions (the reason valid for Nainital as well);
- Dissemination: a conference in Nainital has been cancelled just days before its start, and for reasons listed in the above point, quick replacement solutions are not available at the moment; limited availability of staff (both ICT and academic) and students also impairs our ability to boost online presence, although we do our utmost to keep it at a reasonable level;
- Exploitation: this includes difficulties with
 - o offering most of SUNRAISE courses in the spring (and potentially also the coming fall semester) because universities focus on mandatory curriculum components,
 - o with curriculum updating and revision following QA feedback (e.g. an ambition was to revise over 50% of MOOC sessions, and most of other new disciplines were subject to revision as well),
 - o with piloting ICT deliverables (such as e-science modules) due to mobility restrictions and limited staff and student availability,
 - o with running stakeholder collaboration platforms, because meetings are not possible, available replacements are not plausible, while curriculum review tasks (by stakeholders) are also compromised and significantly delayed because they were often arranged on person-to-person encounters; and
 - o with concluding arrangements for future sustainability, such as mobility, equipment sharing etc, because the final terms for such arrangement were planned to be negotiated on the Nainital conference (this might be possible online, but only once university staff will be partly relieved from the current stress);
- Quality assurance: travel restrictions need the whole QA strategy be revised, because monitoring visits by the coordination unit and the external QA officer was an essential part of it; likewise, the external QA officer planned for student QA discussions in Nainital and St.-Petersburg; the issues with the exploitation of curriculum and ICT deliverable delay QA tasks as well.

As long as there is no any clarity as regards the pandemic-related restrictions in years 2020 and 2021 in 3 program and 3 partner countries, we have major difficulties with providing a credible

project plan for the extra year we request. As a general principle, in the proposed modification of the project work plan we postpone by 12 months all the activities and related deadlines which were originally planned from March 2020 on. The underlying assumption is that within this period we will find a way to complete these activities or, in the worst case scenario, to come up with adequate replacement options.

Decided:

Request EACEA for the extension of the project eligibility period till 14th October 2021.

Here is the proposed revised project implementation timeline till the 14th October 2021:

WP2: SUNRAISE curricula and learning contents

WP2.2 Development of PhD research framework and proposals to amend RU PhD training standards The work will be continued, and will be finished in February 2021

WP2.3 The 3rd Summer school will be organised in St. Petersburg in Summer 2021

WP3: Development of SUNRAISE e-services

WP3.2 Development of eLearning modules will be continued, they will be used in Fall and Spring Semester 2020-2021, and improved after gathering of feedback and evaluation after each semester.

WP3.3 Development of MOOCs will be continued, they will be tested during the Fall semester 2020 and improved after gathering feedback.

WP3.4 Development of eScience modules for doctoral students will be continued, they will be tested during the Fall semester 2020 and improved after gathering feedback.

WP4: Development of governance and organisational arrangements

WP4.1 Establishment of sectoral collaborative platforms in each PC will be continued, they will be tested during the Fall semester 2020 and improved after gathering feedback.

WP4.2 Development of arrangements for credit and physical mobility, sharing of experimental facilities, joint MSc & PhD supervision and research collaboration. Arrangements for mobility, sharing facilities, joint MSc & PhD supervision approved by Sep 2021

WP5: Quality control and monitoring

WP5 Quality control the work will be continued till the end of the project. The project activities will be evaluated by the external expert till April 2021. So it would be enough time available for the improvement of TLM according the results of the evaluation.

WP6: Dissemination and exploitation

All the dissemination activities will be continued till the end of the project.

WP6.2 Development of SUNRAISE detailed business plan will be finished till April 2021.

WP6.3 The Business conference will be organised immediately after the end of pandemic, as the borders between the partner countries will be opened. We plan it for March-April 2021.

WP6.4 Running of collaborative sectoral platforms and WP6.5 Implementation of SUNRAISE curricula and research training will be continued in the Fall and Spring Semester 2020-2021.

WP7: Management

It will be run till the end of the project.



MINUTES



Decisions taken and intended activities

| No | Description | Deadline | Responsible |
|----|---|----------|-------------|
| 1 | Request EACEA for the extension of the project eligibility period till 14 th October 2021. | 15.06.20 | P1 UNIHB |
| 2 | Update the information about TLM on the SUNRAISER portal | 30.06.20 | P6 SFU |
| 3 | Continue the work on all WPs according the possibility | | All |