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D 9.79 – TERRITORIES Flexible funds

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Abstract

Education and Training (E&T) are essential ingredients in the TERRITORIES project. After an overview of TERRITORIES E&T Plan, Platform and Workshops, the present document introduces the allocation of a “flexible funds” budget to cover costs of Workshops organised in 2018 in Madrid, Spain and in 2019 in the United Kingdom.

Objectives and Scope

Education and Training (E&T) are essential ingredients in the Territories project. In the proposal, TERRITORIES defined that the first year of its WP4 (now CONCERT subtask 9.3.4) on “Strategic and Integrated Communication, Education and Training”, would be dedicated to:

- Laying down the TERRITORIES Education and Training plan (E&T Plan).
- Expanding the Radioecology Exchange Education and Training Platform (E&T Platform).
- Planning 4 workshops:

TERRITORIES task 4.1:

- Workshop #1 in 2017

TERRITORIES task 4.3:

- Workshop #2 in 2017
- Workshop #3 in 2018
- Workshop #4 in 2019

At the time of proposal submission, the budget for workshop #1 (under TERRITORIES Task 4.1) had been allocated to NMBU whereas a “flexible funds” budget (40k€) had been foreseen for workshops #2, #3, and #4 (under TERRITORIES task 4.3). This flexible funds budget is managed by TERRITORIES WP5, i.e. allocated to the TERRITORIES lead partner (IRSN).

After an overview of TERRITORIES E&T Plan, Platform and Workshops, the present document introduces the allocation of these flexible funds for task 4.3.

TERRITORIES E&T Plan

The TERRITORIES Education and Training plan is based on:

- E&T resources (courses, grants for scientific exchanges) organised (and funded) by CONCERT WP7, by other European projects (e.g. STAR, COMET, etc.) by platforms (e.g. ALLIANCE, NERIS, EURADOS, MELODI, etc.) and by national initiatives, this offer being summarized in an extension of the E&T platform.
- TERRITORIES workshops.

An important aspect of the E&T plan is the dissemination of the pertinent E&T information through the main TERRITORIES communication channels, including the TERRITORIES Website (<http://territories.eu/>) and the TERRITORIES Blog (<https://territoriesweb.wordpress.com/>). The website is a more formal communication channel, whereas the blog presents up-to-date information in a readily accessible manner. Both the website as well as the blog disseminate the education & training possibilities linked to the project, targeting a wide audience including international organizations, professionals and students.

Furthermore, the TERRITORIES Website is directly linked to the Radioecology Exchange Education and Training Platform (E&T Platform), as one of the primary European platforms for knowledge exchange and information dissemination related to protecting humans and the environment from radiation. Thus, the aim of TERRITORIES is to update and further expand the existing platform to present an overview of education and training course modules within radioecology/environmental radioactivity with focus on Europe.

TERRITORIES E&T Platform

The Radioecology Education and Training Platform (E&T platform) that is incorporated on the Radioecology Exchange website is a focal point for students and professionals interested in radioecology. The platform was initiated under the EU funded project STAR Network of Excellence, and further developed under the EU funded COMET project (Comet Deliverable D 2.6). Thus, the aim of TERRITORIES is to update and extend the existing platform to present an overview of education and training course modules within radioecology/environmental radioactivity. So far, a set of courses is included in the platform, and information on course curriculums and learning outcomes is provided, with recommended pathways to obtained academic merited education (MSc, PhD). The Radioecology E&T platform provides also links to other E&T platforms covering Radiochemistry, Radiobiology and Radiation Protection, as many of the basic course modules within radioecology are also relevant for other nuclear science students.

The E&T platform contains a number of distinct items that will be further developed and extended under TERRITORIES by introducing new course modules and new pathways (e.g. joint degrees):

- The EU MSc in Radioecology is a tailored two-year MSc programme, Bologna accredited, consisting of obligatory and voluntary stand-alone course modules. As for any EU MSc, students are free to obtain credits by fulfilling European Credit Transfer and Accumulation System (ECTS) accredited courses at collaborating universities and institutions.
- Radioecology MSc Course Modules offered as part of the EU MSc. These modules will be open to MSc students also from other programmes.
- Other MSc courses that are not currently part of the formal Radioecology MSc Programme, but might be relevant to any radioecology student.
- PhD courses – ECTS courses aimed primarily at PhD students. These courses are often relevant and attractive for professional training as well as for some MSc students.
- The Radioecology Research School - a networking forum aimed primarily at PhD students in radioecology and other relevant to nuclear sciences.
- Training courses aimed primarily at professionals, without formal credits such as ECTS.

The E&T pages on the Radioecology Exchange website have been maintained by support of the EU COMET project until mid 2017. The European Radioecology ALLIANCE will maintain and update the Radioecology Exchange webpage in the coming years.

Workshops in 2017, without flexible funds

During the first months of TERRITORIES, it appeared ineffective to organise in the pre-planned highly constrained timeframe the TERRITORIES task 4.1 workshop #1, with the aim of identifying key factors which contribute the most to overall uncertainties. To assure the availability of appropriate speakers and permit sufficient time to advertise the workshop to relevant audiences, this workshop initially planned in spring 2017 was postponed to November 2017.

This raised the opportunity to co-organise two events: on the one hand the TERRITORIES task 4.1 workshop organised by NMBU (Workshop #1), and on the other hand the first TERRITORIES task 4.3 organised by CIEMAT (Workshop #2). These two events will take place in Oslo region, Norway 14-16 November 2017, and draft programs have been developed for both workshop (Annexes 1 and 2). The final program will be available when all invited speakers have accepted their participation.

As these two workshops will be organized in Norway sequentially during the same week, and many participants will probably attend both workshops, it is believed that the allocated funding from NMBU can cover expenses for the two events: 15k€ to organise the task 4.1 workshop **“Key factors contributing to uncertainties in radiological risk assessment”**, and 10k€ to support the first workshop organized under task 4.3 **“Communication of uncertainties of radiological risk assessments to stakeholders”**.

NMBU will, within the allocated funds, cover costs for the two workshops:

- Travel and full accommodation (hotel and costs expenses) for 3-5 guest speakers with expertise within the field of the workshops. The estimated average travel costs are 1k€/guest (within Europe) and 3k€/guest (with inter-continental flight). Economic class tickets will be funded.
- Travel and full accommodation for 4 granted trainees (Master, PhD students, or post-docs selected from European universities). The estimated average travel costs are 1k€/guest (within Europe) and economic class tickets will be funded.
- In addition, NMBU will also cover coffee/tea, and probably the lunch, as well as the workshop dinner for all participants.

Funded participants are expected to submit a short Workshop report.

Workshops in 2018 and 2019, with flexible funds

Thus, in agreement with pertinent workshop organising partners (NMBU, CIEMAT, PHE), task 4.3 leader (CIEMAT), WP4 leader (UT), and WP5 leader and TERRITORIES lead partner (IRSN), the flexible funds are planned for the two remaining workshops within TERRITORIES task 4.3.

For both workshops, the targeted number of participants is 60 people.

The 2018 workshop (Workshop #3) will be organised in Madrid, Spain, hosted by CIEMAT, the week 11-15 June 2018. The subject of the workshop will be closely linked to the topics of TERRITORIES WP1. The topic for Workshop #3 could be directly related to: Making the best use of data from monitoring and existing models to reduce uncertainties in humans and wildlife radiation-exposure characterization. However, the final decision about the topic of the workshop will be made at the end of 2017, taking into consideration the progress made in the different WPs of TERRITORIES, so that the workshop outputs significantly contribute to the progress of the project.

The 2019 workshop (Workshop #4) will be organised in the United Kingdom (probably Oxford), hosted by PHE, at dates to be chosen in January or February 2019. The subject of the workshop will be closely linked to the topics of TERRITORIES WP2 (Reducing uncertainties when characterizing exposure scenarios, accounting for human and wildlife behaviour, and integrating social and ethical considerations in the management of uncertainties) or WP3 (Stakeholder engagement for a better management of uncertainty in risk assessment and decision-making processes including remediation strategies). The decision about the topic of Workshop #4 will be made in autumn 2018.

IRSN, who has the flexible funds allocated, will cover costs for:

- The costs for rental of rooms, catering and other minor services associated with organisation. On the basis of a 1.5-day workshop, and considering that catering includes 2 lunches, 1 dinner, 3 coffee breaks. A maximum of 9 k€ is planned for each workshop.
- Travel, subsistence and hotel expenses for guest speakers (with expertise in the field of the workshop). The estimated average travel costs equal 1k€/guest (without inter-continental

flight) and 5k€/guest (with inter-continental flight). On the basis of 3 to 5 guest experts, a maximum of 7 k€ is planned for each workshop. The rules would be economic class tickets for flights within Europe, and a per diem of 200 € max, reimbursed on the basis of expense reports

- Travel, subsistence and hotel expenses for granted trainees (Master, PhD students, or post-docs selected from European universities). The estimated average travel costs amount to 1k€/invited person. On the basis of 4 granted trainees, a maximum of 4 k€ is planned for each workshop. The rules would be economic class tickets for flights, and a per diem of 200 € max, reimbursed on the basis of expense reports.

Thus, for a regular 1.5-day workshop, a maximum of 20 k€ is planned.

Conclusion

The 40 k€ of flexible funds are sufficient to cover the maximum costs of workshops #3 and #4 organized under TERRITORIES task 4.3. By the end of May 2019, all expenses linked to the workshops will have been paid, and tracked in the financial report of the 4th CONCERT year (June 2018-May 2019). In the case that not all flexible funds were used by the task 4.3 workshops before end of May 2019, a decision about the remaining flexible funds will be made by the TERRITORIES Management Board.

Annex 1:

Draft program: “Key factors contributing to uncertainties in radiological risk assessment”
TERRITORIES Workshop, 14-15 November 2017, Oslo, Norway.

TERRITORIES Workshop on: Key factors contributing to uncertainties in radiological risk assessment

The objective of this workshop is to discuss the key factors contributing to overall uncertainties when linking deposition and ecosystem transfer to human and ecosystem radiological risk assessment models, obtaining feedback from modellers, experimentalists and stakeholders on this subject.

Time	Lecturer	Title
14 November 2017		
12:00 – 14:00	Lunch	
14:00 – 14:15	Lindis Skipperud (NMBU)	Welcome and scope of the workshop
Session 1: Uncertainties in monitoring data and other data of importance for models (Chair: ?)		
14:15 – 14:45	Martin Steiner (BsF)	Interaction between experimentalists and modellers
14:45 – 15:15	Brit Salbu (NMBU)	Uncertainties in radionuclide source term
15:15 – 15:45	NRPA	Uncertainties in monitoring data and challenges for monitoring design/fieldworks
15:45 – 16:15	Coffee and tea	
16:15 – 17:00	Group work	<i>What uncertainties in data are most important?</i>
17:00 – 17:30	Group work reports and discussion	
15 November 2017		

Session 2: Uncertainties in models (Chair: ?)		
09:00 – 09:30	Martin Steiner (Bfs)	Overview of modelling uncertainties
09:30 – 10:00	Juan Carlos Mora (CIEMAT)	Analysis of the uncertainty budget and the different contributions to the total uncertainty – a case study using ERICA/CROMERICA
10:00 – 10:30	Coffee and tea	
10:30 – 11:30	Group work	<i>What uncertainties are most important in models?</i>
11:30 – 12:00	Group work reports and discussion	
12:00 – 14:00	Lunch	
Session 3: Reducing uncertainties: How far should we go/can we go? (Chair: ?)		
14:00 – 14:30	Jordi Vives i Batlle (SCK•CEN)	Applicability and limitations of available radioecological models
14:30 – 15:00	Mike Thorne (MTA)	Reflections on the achievable reduction in uncertainty
15:00 – 15:30	Coffee and tea	
15:30 – 17:00	Group work	<i>How do we reduce the uncertainties?</i>
17:00 – 17:30	Group work reports and discussion	
20:00	Social GET-TOGETHER/DINNER, (sponsored by Center for Environmental Radioactivity CERAD, Norway)	

In yellow, speakers to be confirmed

Annex 2:

Draft program: “Communication of uncertainties of radiological risk assessments to stakeholders”

TERRITORIES Workshop, 16 November 2017, Oslo, Norway.

TERRITORIES Workshop on: Communication of uncertainties of radiological risk assessments to stakeholders

16 November 2017, Oslo (Norway)

The objective of this workshop is to discuss the implications and relevance of uncertainties in radiological risk assessments for different stakeholders and how these uncertainties can be better communicated, obtaining feedback from regulators, industry, scientists and “public/social sciences” on this subject.

Time	Lecturer	Title
08:30 – 08:40	Almudena Real (CIEMAT)	Welcome and scope of the workshop
08:40 – 09:00	Rodolphe Gilbin (IRSN)	Overview of uncertainties in radiological risk assessments
09:00 – 09:30	Lindis Skipperud (NMBU)	Summary and conclusions from workshop “Key factors contributing to uncertainties in radiological risk assessment”
09:30 – 10:00	Coffee and tea	
Session 1: Implications and relevance of uncertainties for stakeholders (Chair: Eduardo Gallego TBC)		
10:00 – 10:15	Pål Andersson (SSM)	Implications of uncertainties for regulators/authorities
10:15 – 10:30	BIOPROTA (Name TBD)	Implications of uncertainties for the industry
10:30 – 10:45	Deborah H Oughton (NMBU)	Implications of uncertainties for scientists
10:45 – 11:00	Thierry Schneider (CEPN)	Implications of uncertainties for the public
11:00 – 12:00	Group work	<i>Implications of uncertainties for different stakeholders</i>
12:00 – 12:30	Group work reports and discussion	
12:30 – 14:30	Lunch	

Session 2: How to communicate uncertainties? (Chair: Thierry Schneider TBC)		
14:30 – 14:50	Tanja Perko (SCK•CEN)	Risk communication
15:00 – 15:20	Catrinel Turcanu (SCK•CEN)	Uncertainty and risk management: a matter of risk interpretation
15:20 – 15:40	Eduardo Gallego (NERIS)	How to communicate uncertainties to stakeholders
15:40 – 16:00	Coffee and tea	
16:00 – 16:30	Group work	<i>How to adequately communicate uncertainties</i>
16:30 – 17:00	Group work reports and discussion	
17:00– 17:10	Lindis and Almudena	Closing workshops

In yellow, speakers that have not yet confirmed their participation