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D 3.5 – If extra funding is available: Fourth Joint Priority List

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Within CONCERT, no extra funding was foreseen for a fourth call for scientific projects within CONCERT but the EURATOM Work Programme 2019-2020 has been recently published (http://ec.europa.eu/research/participants/data/ref/h2020/wp/2018-2020/euratom/h2020-wp1920-euratom_en.pdf). This work programme contains topics related to further integration of radiation protection research in the EU.

Although this new EURATOM call provides extra funding, the platforms did not prepare a new gap analysis for the current D3.5, as a gap analysis was prepared in CONCERT D3.3 for the former EURATOM Work Programme 2018.

However, the platforms MELODI, EURADOS, NERIS, ALLIANCE and EURAMED as well as experts in social sciences and humanities have continued their priority setting activities each individually and jointly during the third radiation protection week held in Rovinj in Croatia, 1 – 5 October 2018. The platforms MELODI, EURADOS, NERIS and ALLIANCE are also in discussion with NUGENIA to identify topics of common interest for potential common projects. To this end, a common workshop will take place in 2019. In addition we list here other activities that were performed using WP3 budget regarding joint priority setting.

MELODI organised in March 2018 a first scientific workshop on individual sensitivity in Malta. The outcome of this workshop will be published soon in the scientific literature. A second workshop on Non-cancer diseases is arranged for April 2019. MELODI is also exploring emerging fields of research that may be of interest to be integrated in future radiation protection research, such as the introduction of adverse outcome pathways (AOP) in radiation protection research. AOP is a tool to elucidate mechanisms in cells, organs, tissues and up to the systemic level induced by various stressors. MELODI participated to the NEA/CRPPH scoping meeting on Global coordination of Low-Dose Research 17-18/9/2018 in Milano and to the IDEA (International Dose Effect Alliance) workshop organised by Electric Power Research Institute in North Carolina, 4-5 December 2018 which was fully dedicated to AOP, and will further investigate the implementation of AOP in low dose research. MELODI also plans a second scientific workshop related to non-cancer effects in April 2019 in Sitges, Spain. In this workshop MELODI will update the state of the art for lens eye opacities, circulatory diseases and cognitive effects, but also on more emerging fields such as the role of the immune system and metabolic system in late human non-cancer effects following low doses or low dose rates of exposures. The outcome of this workshop will also be published in scientific literature. The MELODI SRA WG has recently met and drawn up a list of suggested topics for future workshops, and will ensure information gathered in the course of the workshops informs future SRA development.

EURADOS continued to work on their research roadmap to serve as a basis for the joint platform roadmap. This work is based on the published EURADOS SRA which includes 5 Visions and a total of 28 Challenges, and is done by a dedicated task group identified by the EURADOS Council. Currently, the task group has developed individual roadmaps for 25 of the 28 challenges. This also includes harmonization and practice, and E&T. These individual roadmaps will serve as the basis for a more general EURADOS roadmap that will then be integrated with the roadmaps of the other platforms. They can also be used to shape the work strategy of the eight EURADOS Working Groups. At its last meeting in February 2019 in Lodz, Poland, the EURADOS Council has discussed the interaction with SSH.

Furthermore, another task group identified by the EURADOS Council is currently in the process to update the EURADOS SRA, with input from all EURADOS Working Groups (see WP2). The Task Group met during the EURADOS Annual Meeting in Lodz, Poland. The need to update the presently available roadmaps was also discussed at the last EURADOS Council meeting in Lodz.

Along these lines to increase the interaction with other research platforms and organisations, EURADOS participated in the ICRP Meeting of Special Liaison Organisations (SLOs) held in Stockholm, Sweden, on 16 October 2018, and in the joint ICRU-ICRP meeting held at the same place on 15 October 2018.

NERIS co-organised with **ALLIANCE** in March 2018 a workshop: “Towards Improving Radiological Assessments and Management: Big Data Sets, Spatial Distribution and Source to Sink Modelling”, (28-29 March, hosted by BfS in Munich). During its 4th Workshop, organised in Dublin on April 25-27, 2018, NERIS organised a round table involving the European and International organisations (IAEA, ICRP, NEA-OECD, EC-JRC, HERCA), asking them to provide comments and feedbacks on the NERIS SRA and NERIS Roadmap adopted in 2017. At the occasion of this workshop, NERIS also organised a round table with the other European Platforms in order to address the way forward with the CONCERT Roadmap.

Among the interaction, NERIS participated to the meeting organised by NEA-OECD in Milan on 17-18 September 2018 and contributed to the ICRP SLO meeting in Stockholm on 16 October 2018. In April 2019, at the occasion of its 5th workshop, a meeting of the R&D Committee will be organised in order to review the NERIS SRA and Roadmap taking into account the recent research developments and feedbacks provided by the different stakeholders. As a result of this meeting, a way forward for updating these documents will be discussed and endorsed by the General Assembly. In this perspective, a dedicated meeting of the NERIS R&D Committee will be organised during the ERPW 2019 in Stockholm in October 2019.

ALLIANCE co-organised with NERIS in March 2018 a workshop: “Towards Improving Radiological Assessments and Management: Big Data Sets, Spatial Distribution and Source to Sink Modelling”, (28-29 March, hosted by BfS in Munich). A similar initiative to which MELODI representatives were invited was organised by ALLIANCE on the topic of “Epigenetic factors and long-term effects of ionizing radiation on organisms” (4-6 April, hosted by IRSN in Fontenay aux Roses). This event was mainly managed by the ALLIANCE topical roadmap WG on Transgenerational effects and species radiosensitivity which prepared a position paper on this issue following activities during the COMET EC-funded project: “Current evidence for a role of epigenetic mechanisms in response to ionizing radiation in an ecotoxicological context” recently submitted to the Journal “Environmental Pollution”.

Both workshops were viewed as opportunities to enhance scientific exchanges between the research platforms and facilitate networking in view of the EURATOM WP 2018 call (NFRP-8). Several proposals emerged from these events and were submitted to the EURATOM call. These two initiatives also reinforced the joint priority list as presented in CONCERT D3.3.

ALLIANCE will encourage the plan of actions of its various dedicated WGs (*i.e.* the SRA/global roadmap WG, and the five topical roadmap WGs - Marine radioecology, Human food chain modelling, Naturally

Occurring Radioactive Materials (NORM) Radioecology, Transgenerational effects and species radiosensitivity, Atmospheric dispersion and transfer processes). One of these WGs is dedicated to the SRA update due for CONCERT in November 2019. This update will examine new drivers of the radioecology SRA since the publication of the last version (2014) and new research topics to be covered by the SRA, according to the needs expressed by the topical roadmaps WGs and joint R&D challenges in the CONCERT joint roadmap. To help the identification of new research lines and new drivers, ALLIANCE is planning to held a suite of workshops in 2019 (up to one per topical roadmap and one to consolidate collectively the SRA update, the latter being organised during the ERPW 2019 in Stockholm).

EURAMED has decided to develop a research roadmap i.e. a written strategic plan based on its Strategic Research Agenda to identify critical research gaps and opportunities in the field of medical radiation protection that could be addressed over the next years. To achieve this important goal, EURAMED has written a first draft and created a working group with representatives from each of its founding members interlinked with EURAMED's scientific committee. Most of the members have very recently provided initial information regarding the most important research/knowledge gaps in the field of medical radiation protection related to their specialty and relevant information such as priorities, time frames and required resources for each 'research gap'. This process is in progress.