

1st Study Visit

Magurele, Romania

Wednesday, 22nd March, 2018

WP	Activity	Identification	
		Deliverable	Document
WP5 – RRI Pilots	A5.4 – Exchange and Monitoring of Application period	D5.4.1 – Report on First Study Visit	Report

Author:

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Event Name / Title	1st Study Visit
Partner name:	Horia Hulubei National Institute for Research and Development in Physics and Nuclear Engineering IFIN HH/Extreme Light Infrastructure Nuclear Physics ELI-NP
Date of the event	22 nd of March, 2018
Venue Name / Address	Horia Hulubei National Institute for Research and Development in Physics and Nuclear Engineering (IFIN-HH) 30, Reactorului St, Bucharest - Magurele, ROMANIA
Participants	44 persons attended the event including project partners, representatives of Danube Stakeholder Group (University of Ruse/Bulgaria, Knowledge HUB - Republic of Moldavia; Ministry of Education, Culture and Research - Directorate for Research and Innovation Policies/Republic of Moldavia), representatives of IFIN-HH, project consultant.
Description of the visit and main topics addressed	<p><u>Short introduction on IFIN-HH:</u> IFIN-HH is one of the most important public R&D organizations in Romania, with a contribution of almost 10% of the national scientific output. The Institute is focused on the research and development in physical and natural sciences, mainly Nuclear Physics and Nuclear Engineering, and in related areas including Astrophysics and Particle Physics, Field Theory, Mathematical and Computational Physics, Atomic Physics and Physics of Condensed Matter, Life and Environmental Physics. In all these fields, IFIN-HH conducts theoretical and experimental research.</p> <p><u>ELI-NP on-site visit:</u></p> <p>The Institute is part of ELI – Extreme Light Infrastructure (ELI) project which represents the only European and International Centre for high-level research on ultra-high intensity laser, laser-matter interaction and secondary sources with unparalleled possibilities.</p> <p>The ELI project, a collaboration of 13 European countries, comprises four pillars:</p> <ul style="list-style-type: none"> - High Energy Beam Science devoted to the development and usage of dedicated beam lines with ultra short pulses of high energy radiation and particles reaching almost the speed of light. This part of ELI is conducted in Prague (Czech Republic). - Attosecond Laser Science designed to conduct temporal investigation of electron dynamics in atoms, molecules, plasmas and solids at attosecond scale (10⁻¹⁸ sec.). Szeged (Hungary) hosts the short pulse pillar of ELI.

- Laser-based Nuclear Physics pillar located in Magurele (near Bucharest/Romania) and focuses on laser-based nuclear physics. While atomic processes are well suited to the visible or near visible laser radiation, as a third pillar ELI-NP will generate radiation and particle beams with much higher energies, brilliances suited to studies of nuclear and fundamental processes.
- Ultra High Field Science that will explore relativistic laser-matter interaction in an energy range where totally new phenomena like radiation dominated interaction become dominant.

During the site-visit, participants found out that ELI-NP is going to be the most advanced research facility in the world focusing on the study of photonuclear physics and its applications, comprising a very high intensity laser of two 10PW ultra-short pulse lasers and the most brilliant tunable gamma-ray beam. This unique experimental combination will enable ELI-NP to tackle a wide range of research topics in fundamental physics, nuclear physics and astrophysics, and also applied research in materials science, management of nuclear materials and life sciences.

150 people are working on ELI and there are two dedicated departments to research and development where young researchers are involved as well.

Application of STIR method:

The study visit aimed to present an example of Pilot Activities in academic environment in the framework of 5.1 Activity - D-STIR Application.

D-STIR method supports interactions between researchers from different disciplines (firstly social sciences and natural sciences), which later reflects on the context in which innovation is being pursued, thus pursuing the extension of research decisions. The following actors are involved in the STIR process: 1) a research group carrying out the scientific / innovation activities of the natural science; 2) the researchers (participants) of the research group; and 3) the embedded humanist who participate in the activities of the group of natural scientists. The participants in the process analyze the social, economic, environmental and ethical aspects during 12 weeks.

The Institute involved the RADIOPHARMACEUTICALS RESEARCH CENTER (CCR) as “stired organization”. The center represents a state of the art experimental facility, dedicated to research in the fields of radiochemistry, radiopharmacy and nuclear applications. The outstanding characteristics and performances of CCR’s infrastructure and its researcher’s expertise are expected to open bright perspectives in this multidisciplinary research field.

The staff included in the application of STIR method was invited to take part to the study-visit, to evaluate the experience and to present the progress of activities. The Embedded Humanist selected by the Institute conducted an interactive session with the participants at STIR application based on the interactions already

	<p>undertaken. Asked about the reasons why they agreed to be involved in this process, the researchers answered that they were curious about the project theme and benefits, considering it a potential resource to get relevant information for their daily-basis research activity.</p> <p>As for the preliminary results of STIR application:</p> <ul style="list-style-type: none"> - the pre-study interview reflected that: all participants understood the questions; environmental, economic and ethical are seen to have influence on the research perhaps because some of the lab practices are focused on these aspects, especially environmental; lower scores are given to the social aspects - although they recognize that these aspects might have an impact on the research they don't really integrate these aspects into their daily work or in the decision making process; - STIR process underlined the following issues: time management; collaboration and communication inside the team; social science aspects <p>Solutions proposed:</p> <ul style="list-style-type: none"> - For time management: to establish the <i>e-log</i> that will bring structure in the task assignation and can be an asset for evaluation. Here the next step is to find a way to motivate the team to be responsive to this new method; - For collaboration and communication inside the team: presentations after conference/trainings. Next step: standardization – length, general structure; - Social science aspects – outreach: brochure – to add information from the other research groups within ELI-NP <p>During the session, partners had the chance to address questions on the role of the research activity, the main beneficiaries and the research products.</p>
<p>Exchange results / conclusions</p>	<p>The study-visit had a major impact as concerns the raising awareness on D-STIR methodology and its application in research environment among the participants. As a result, the representatives from Danube Transnational Stakeholder Group already expressed their interest to:</p> <ul style="list-style-type: none"> - apply the methodology in both academic and business environments; - to include a module concerning RRI and D-STIR within one of the mandatory disciplines for the PhD students; - to include provisions dedicated to RRI within the Moldovan ERA Road Map. <p>Moreover, the application of D-STIR methodology in the Danube Region would have an impact on:</p> <ul style="list-style-type: none"> - fostering collaboration between science, business and society at large; - stimulating interdisciplinary research and developing interdisciplinary research project proposals; - developing of skills among researchers for anticipating the impact of their scientific results.

	Mr. Andrei Dorobantu – IFIN-HH Science Communicator emphasized the responsibility of researchers to the people, the importance of being proactive, to maintain bilateral relations between public institutions and researchers, the importance of inclusion and responsiveness in RRI.
Event Contact Info. Name & Email for further details of event	Ioan Ursu, scientific secretary, responsible on behalf of IFIN-HH for D-STIR, ioan.ursu@eli-np.ro Mircea Sbarna, counselor for European projects, deputy responsible on behalf of IFIN-HH for D-STIR mircea.sbarna@nipne.ro Iuliana Velniciuc, Editor, Communication responsible iuliana.velniciuc@gmail.com Mara Tanase, Embedded Humanist - D-STIR project mara.tanase@nipne.ro
Event Promotion	Press articles: https://www.fonduri-structurale.ro/stiri/20084/proiectul-d-stir-a-avut-loc-a-cincea-intalnire-dedicata-cercetarii-si-inovarii-responsabile , http://www.mhtc.ro/mid-term-meeting-project-danube-framework-responsible-research-innovation-using-socio-technical-integration-d-stir/ , http://www.economistul.ro/civilizatie/cel-mai-puternic-laser-din-lume-la-baza-unui-nou-concept-de-inovare-si-business-5944 , http://www.marketwatch.ro/articol/16070/Pe_drumul_cercetarii_si_inovarii_responsabile/ , http://www.mhtc.ro/evenimentul-public-de-prezentare-conceptului-cercetare-si-inovare-responsabila-rrsi-metodei-de-integrare-socio-tehnica-acesteia-stir-organizat-cadrul-proiectului-d-stir/ Interviews in national radio “Radio Romania Cultural” Project website
Annexes:	Study-visit agenda Participants list Photos

21st - 23rd March 2018
Hosted by ELI-NP / IFIN-HH
Măgurele and Bucharest,
Romania



D-STIR
**Danube Framework for Responsible
Research and Innovation using Socio-
Technical Integration**

1st YEAR REVIEW
5th PROJECT MEETING
1st STUDY VISIT
MID-TERM PUBLIC EVENT

Final Agenda

Thursday, 22 March 2018

Study visit – pilot actions in academic environment

Venue: ELI-NP Seminar Room, Magurele

Time	Programme
09.00	Bus transportation, from Bucharest (Hotel Parliament) to Magurele
09:45	Study visit– pilot action 1: ELI-NP on-site visit
10:45	Coffee Break
11:00	Responsible Research and Innovation. Speaker: Andrei Dorobantu – IFIN-HH Science Communicator
11:15	Study visit – pilot action 1: applying STIR method @ ELI-NP
12:30	Lunch
14:00	Innovative Training and Education at Large Laser Infrastructures (ITE@ LLI) – Speaker: Ovidiu Tesileanu – ELI-NP
14:30	Study visit – pilot action 2: virtual presentation of CCR; applying STIR method @ CCR
16:00	Coffee Break
16:15	Study visit – pilot action 2: applying STIR method @ CCR (continued)
17:15	End of activities
17.30	Return to Bucharest (Hotel Parliament)
19.00	Dinner - Location Hanul Berarilor









Attendance sheet







D-STIR - Danube Framework for Responsible Research and Innovation using Socio-Technical Integration














Study visit – pilot actions in academic environment














Date: Thursday, 22 March 2018

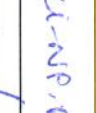


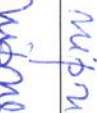
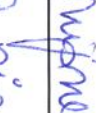
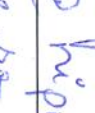


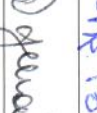
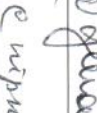
Venue: ELI – NP Facility, Seminar Room

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