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MYRTE

MYRRHA Research and Transmutation Endeavour



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within the Horizon 2020 Framework Programme

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Dissemination and communication action plan

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Summary

This deliverables gives an overview of how the communication and dissemination will be done inside and outside the project.

Approval

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1. Executive Summary

This deliverable describes the communication and dissemination plan for the H2020 project MYRTE, detailing the steps to be taken over the project's life cycle to achieve a maximum effect and reach the relevant audiences. The communication and dissemination in the project's context focusses on two categories. To begin with, making the project visible to the outside world and in addition, providing the means for internal project communication.

2. Introduction and objective of the project

The Research and Innovation Action MYRTE (MYRRHA Research and Transmutation Endeavour) was launched on 1st April 2015 and is co-funded by the European Commission under the Horizon 2020 programme. The MYRTE consortium consists of 27 partners from nine European countries.

The scope of the project is carrying out research in order to demonstrate the feasibility of transmutation of high-level waste at industrial scale through the development of the MYRRHA¹ research facility. The work programme of MYRTE was defined based on the current technological challenges of the MYRRHA project taking into account the current and foreseen on-going R&D projects within SCK•CEN and the different European Framework Programmes and bilateral collaborations. MYRTE also makes use of the long standing European scientific communities in the different areas of expertise. The work programme of MYRTE addresses key challenges in support of MYRRHA design and pre-licensing.

The work in MYRTE has been split into five technical work packages.

Work package 2 [Accelerator R&D for ADS/MYRRHA] will pursue the research, design and development of the MYRRHA accelerator with a specific focus on the construction of the first section of the injector part (namely the RFQ and its ancillaries).

Work Package 3 [Thermal hydraulics] focusses on thermal hydraulics. The task about Integral System & Pool Thermal Hydraulics combines experiments and numerical simulations and deals with specific pool behavior and the behavior of the entire system. This task is backed up by the task about liquid metal heat transfer as this is the fundamental issue when dealing with heat transport in any liquid metal configuration. The second task deals with fluid structure interaction and fretting. Again experiments and development of simulation tools go hand in hand. Finally, a small task is devoted to the coupling of thermal-hydraulics with neutronics.

Work Package 4 [Chemistry of volatile radionuclides] adresses chemistry of volatile radionuclides. Activities will be focussed on a continuation of the work on evaporation and capture of polonium where the environmental influence of the covergas composition on evaporation will be further investigated. In addition research will be started on the release of fission products from the heavy liquid metal.

Work Package 5 [Experiments in support of the MYRRHA design evolution] will carry out experiments in support of the MYRRHA design evolution. These experiments are related to the validation of the reactivity monitoring with regard to the MYRRHA core design evolutions. Also, additional integral measurements to study the effect of fuel, reflector, structure material changes and in pile sections (IPS) in the specific MYRRHA core design for code validation are planned, and the investigation of the impact of dummy IPS on the reactivity will be carried out.

Work Package 6 [Actinide Fuel] will provide key data on the thermodynamic and thermophysical properties on (U,Am)O_{2-x}, for use in safety evaluations. In addition, the WP will investigate the behaviour of Helium in (U,Am)O_{2-x} and determine the potential interaction between LBE coolant and the fuel, in the event of a fuel pin breach. It is, therefore, a key element in the development of safe and reliable fuel for transmutation of Minor Actinides in LBE cooled fast reactor systems.

1 Multi-Purpose Hybrid Research Reactor for High-Tech Applications

The project also includes Work Package 7 [Dissemination & Communication] that will organize an international workshop *Accelerator Driven HLM nuclear reactor for transmutation and high-tech application*, a one-week lecture series *Thermal-Hydraulics and Chemistry of HLM reactors* and a dedicated course *Accelerators and ADS systems*.

Last but not least, Work Package 1 [Project Management] will deal with the overall coordination of the project.

3. Objectives

Communication is the responsibility of the entire MYRTE consortium as it requires input from all partners. As a consequence, internal communication is a prerequisite for effective external communication.

The results are of primary interest of the MYRTE community but there is no doubt that a much broader scientific community can benefit as well. Therefore, the MYRTE project has several groups or partners in mind when it comes to communication of results. These include the EURATOM community, research organizations such as universities and research institutes, nuclear industry, regulatory bodies, decision makers, students in science or engineering and finally the general public. For each group the level of communication will be tailored to the interest and the needs of the partner to the extend possible.

4. Dissemination and communication strategy

Different tools are used for communication and dissemination within the project and for the outside world, focusing on the different audiences mentioned in the previous section.

4.1. Consortium involvement

Work Package 7 and Work Package 1 take on a large part of the Dissemination and communication tasks.

Work Package 7 plans to run one dedicated course on Accelerators and ADS systems in which the basics of accelerator techniques and ADS will be addressed. Then, the different scientific and technological challenges of Accelerator Driven Systems for waste transmutation with a link to the latest results obtained in MYRTE will be treated.

Secondly, a Lecture Series on the Thermal-Hydraulics and Chemistry of HLM reactors will be organized. This is a one-week comprehensive series covering the topics thermal hydraulics and chemistry in HLM reactors. Each topic covered will include lectures from leading experts of the different leading organizations of MYRTE. The lecture series will present the state-of-the-art and review the current challenges of thermal-hydraulics and chemistry of HLM reactors.

To maximize the visibility and effectiveness of the communication and dissemination efforts, the consortium partners are asked to send project related news, such as conferences and other foreseeable events, to the PCO. The information will be put on the project website by the PCO.

The PCO is reachable through following link sans@SCKCEN.BE.

4.2. Internal communication

Internal communication amongst the consortium partners is done through the sharepoint for sharing documents, presentations, meeting minutes etc.. Clearly, communication between partners is also done by classical means like project meetings, emails and telephone calls.

A TEC meeting will be held every six months. The purpose is twofold: reporting the progress that has been made and giving an overview of the work for the upcoming period. In between, additional

technical meetings will be organized if needed. The initiative to organize these meetings can be taken by the coordinator, the work package leader, task leaders or individual partners.

5. Dissemination and communication tools

5.1. Project website

As coordinator, SCK•CEN has set up a project website <http://myrte.sckcen.be> to permit centralised access to the project's scope and documents for the consortium partners.

The website is divided in two sections: a public area and a restricted area. The public area is available without signing in and provides general information about the project such as the scope, the objectives and provides a News and Events area. When non-restricted deliverables are issued, they will be posted in this area.

The restricted area requires an authorized sign-in. Authorization is granted for the members of the MYRTE consortium. It is set up as a collaborative portal, allowing participants to share documents, presentations, meeting minutes etc.. A bibliography is also set up for useful scientific papers and conferences.

The project website is maintained by the MYRTE PCO (sans@SCKCEN.BE).

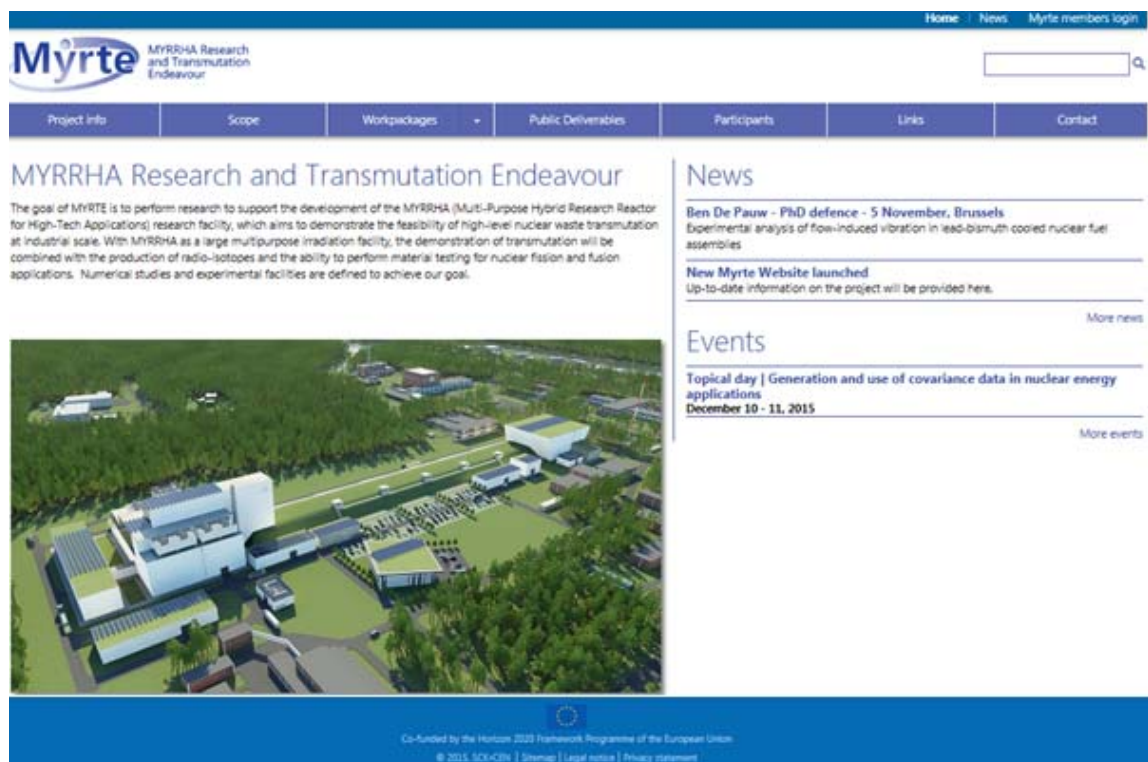


Figure 1 – MYRTE home page

5.2. Project logo



Figure 2 – MYRTE logo

5.3. Conferences, Workshops and Journals

The results from the work in MYRTE can be presented in different types of conferences, workshops and journals as they represent an important dissemination channel.

A list of possible events, indicating the type of audience, is presented in the table below. This table is of course a non-exhaustive list.

Event	Location	Audience	Date
International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH-16)	USA, Chicago	Engineers, scientists	August 30 – September 4, 2015
Training course on covariances and nuclear data	EC-JRC-IRMM, Geel, Belgium	Master students and PhD students	December 10, 2015
Topical day on generation and use of covariance data	EC-JRC-IRMM, Geel, Belgium	Engineers, scientists from research and industry, master and PhD students	December 11, 2015
International workshop on "Accelerator Driven HLM nuclear reactor for transmutation and high-tech application"	Venue to be decided during the MYRTE project	Entire scientific community	Date to be decided during the MYRTE project

5.4. Peer reviewed journals

It is the goal of the project to publish the scientific results of the research in the project in peer reviewed in peer reviewed journals as much as possible. For each technical work-package, at least 2-3 publications in these journals are foreseen. Each partner will be responsible to take up the initiative in writing up and submitting manuscripts. As specified in the project agreement, each publication will be communicated to the project office which will keep records. Each publication shall acknowledge support from the MYRTE project.

6. Information exchange between FP7 – H2020 projects

The MYRTE project will both need from and provide information to other FP7 and HORIZON 2020 projects. On an informal basis input from and communication between the MYRTE projects and FP7 projects such as CDT, LEADER and THINS is guaranteed because of the large overlap in participation in the different projects.

A large synergy is identified between the H2020 project SESAME [GA 654935] and the MYRTE Work Package 3. In the future, MYRTE WP3 meetings may be organized back-to-back with SESAME project meetings, making trips and meetings more efficient.

7. Evaluation

General indicators of the success of the communication and dissemination strategy will be:

- The use of the dedicated project website
- Participation in training courses organized by the project
- Participation in international conferences
- Publications in scientific journals