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ANNETTE PROJECT

Advanced Networking for Nuclear Education and Training and Transfer of Expertise

DELIVERABLE D 1.5

Effective and sustainable communication with national networks INTERIM REPORT

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R	Report	X
P	Prototype	
D	Demonstration	
O	Other	

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PP	Restricted to other programme participants (including the Commission Services)	
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ABSTRACT:

This preliminary report describes the strategy to set up an effective and sustainable communication with national networks. After further adhesions and success in cooperation, this report will be further updated.

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List of abbreviations

ANNETTE	Advanced Networking for Nuclear Education, Training and Transfer of Expertise
E&T	Education and Training
ENEN	European Nuclear Education Network Association
NNN	Nuclear National Network/Organisation/Association
VET	Vocational Education and Training
WP	Work Package

1 Introduction

One of the objectives of WP1 in the ANNETTE project is to study tools for information exchange on E&T in nuclear with the aim to define the optimal approach supporting advanced network mechanisms.

2 Information carriers

In a first phase the information carriers were determined that can be used to disseminate the aim, actions and results of ANNETTE. A first obvious set of information carriers are a project website (proposal for website annette.eu made in deliverable D1.4), a project flyer and a standard presentation. Preferably, these carriers are set up in typical lay-out and using at least the ANNETTE logo and following a typical and recognizable look and feel (house-style). A draft flyer and presentation were available, but needed to be updated for this occasion.

Besides the development of these various tools, WP1 aims to constitute or revive the communication and interaction with Nuclear National Networks/Organizations/Associations (NNNs) in order to assure better effectiveness and a capillary distribution of the networking actions of the works and outcomes of the ANNETTE project. The European Nuclear Education Network will secure the sustainability of the established networking of the ANNETTE project and its outcomes after the conclusion of the project.

3 Interaction mechanisms

As suggested in task 1.3 of WP1 one way to establish an interaction mechanism between the ANNETTE project and the NNNs is the mutual linking of the websites of the NNNs in the ANNETTE and/ or ENEN website and vice versa.

Besides the mutual linking of the websites, the information exchange on the actions/activities of each NNN could be more systematic using one interconnected databases taking as the example of the ANNETTE database. Via the interconnections of databases the NNN contact details and information about E&T and VET opportunities (internships, jobs, ...) and activities (training, courses, ...) can be shared.

Active advertising of the project and its results, for example at relevant conferences or workshops, and discussions about (mutual) needs and/or offers, is a good possibility to enhance interaction and collaboration.

4 Actions to establish interaction mechanisms

In order to revive or constitute the interaction with various NNNs the following actions have been envisaged.

1- Provide presentation for NNNs

In this presentation concise information is given on the ENEN Association, overall aims of the ANNETTE project and the task related to the activation of channels of interaction between ENEN, the ANNETTE Project and NNNs.

In this presentation the NNNs are kindly asked to contribute in the first action to enhance interaction via

- linking the ANNETTE website and/or ENEN website in the NNN website;
- giving permission to link the NNN website in the website of ENEN/ ANNETTE.

It has been noticed in the presentation that a mirroring of the activities on either side is not only beneficial for ENEN, but for NNNs as well.

Further the willingness of the NNNs is asked for spreading news about the related educational activities of ENEN and the ANNETTE project.

The presentation provided by the task partners CIRTEN and SCK•CEN which was sent to NNNs, can be found in Annex 1.

2- Set up meaningful list of European NNN contact points

A number of NNNs were identified by using the already known channels and contacts, but also via searching the web and textbooks. It can be noted that references [1] and [2] provided a good starting point in setting up the list of NNNs. The preliminary list, open for further completion, was sent to the task partners. The list of NNNs can be found in Annex 2.

3- Contacting the NNNs

The presentation was sent to the NNNs by email on 11 May 2017. In total 41 NNNs were contacted. Answers were collected until 26 May 2017. A reminder email for this action was sent on 22 May 2017. Results of the first contact with NNNs are described in section 5.

4- Start to introduce links

The website links of the NNNs willing to contribute in the action of the enhancement of information exchange will be published on the website of ENEN/ ANNETTE project and vice versa.

5- Participation in conferences organised by the NNNs

The partners of the ANNETTE project have started presenting the works of the project in conferences organised by NNNs. In particular:

- On 4-6 October 2017 the paper “ANNETTE Project: Assure a Qualified Nuclear Work Force in the Next Decades” will be presented on behalf of the different WP leaders at the 43 annual meeting of the Sociedad Nuclear Espanola (Spanish Nuclear Society). The synopsis of the paper is presented in Annex 3.
- A similar presentation of the ANNETTE Project is envisaged to be presented at the NENE2017 international conference on Nuclear Energy for a new Europe, organised by the Nuclear Society of Slovenia on 11-14 September 2017.

The coordinator of the ANNETTE project will present the project and its outcomes on different NNN's conferences.

6- Invitation of NNNs contact points to networking events

During the implementation of the project, the NNNs representatives will be invited to several networking events to be organised in conjunction with different Nuclear communities (nuclear engineering, waste management, radiation protection, etc.) and different institutions to discuss the current situation and challenges of the nuclear fields. The meetings organised by the ENEN Association, such as the technical events of the general assembly, and other events in relation with other projects will pose also opportunities to revive these networking mechanisms.

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The ANNETTE Summer school is expected to be organised by Aalto University, in Finland, also with the participation of the Finnish Nuclear Society (ATS), in June-July 2018.

7- Explore other ways of interaction

With the feedback and possible interesting suggestions of the NNN contact points, the ways of cooperation between NNNs and ENEN/ ANNETTE project could be further elaborated.

5 Results of the first contact with NNNs

Twelve out of 41 contacted NNNs have responded the question. Following organizations replied: Romanian Nuclear Energy Association (AREN), Austrian Nuclear Society (ÖKTG), Deutsches Atomforum (DATf), Finnish Nuclear Society (ATS), Nuclear Society of Slovenia (NSS), Belgian Nuclear higher Education Network (BNEN), National Skills Academy for Nuclear (NSAN), Associazione Italiana Nucleare (AIN), Belgian Nuclear Society (BNS), La Société Française de Radioprotection (SFRP), Interuniversity Consortium for Technological Nuclear Research (CIRTEN), the Nuclear Institute (NI).

Two NNN (SFRP and DATf) have not yet decided whether they will publish the ENEN/ANNETTE link on their website and vice versa. These organizations will first discuss this action internally and/or collect more information about the ANNETTE project.

Four organizations (ÖKTG, NSS, BNEN, CIRTEN) had already provided the ENEN link on their website and gave permission to publish a link to their website.

Six NNN (AREN, ATS, NSAN, AIN, BNS, NI) are willing to publish the ENEN/ANNETTE website on their site and gave confirmation to publish their site on the ENEN/ANNETTE site.

Some NNNs have suggested additional actions to enhance information exchange and interaction between ENEN/ANNETTE project and NNNs:

- The Romanian Nuclear Energy Association (AREN) shared contact details of their Young Generation Association.
- Further the NNN announced the International Symposium for Nuclear Energy ([SIEN](#)) 2017, in Bucharest Romania, 1-3 October 2017 which AREN organizes. AREN will invite representatives from different categories of stakeholders to hear about good approaches on education and training in the nuclear field. This symposium might be an opportunity to disseminate the ENEN Association and the ANNETTE project benefits.
- The Austrian Nuclear Society (ÖKTG) and the Nuclear Institute offer to spread information about ANNETTE in their newsletter.
- The Deutsches Atomforum (DATf) had invited ANNETTE participants to the 48th Annual Meeting on Nuclear Technology ([AMNT](#)) on 16 May 2017 for networking and for an informal bilateral exchange with DATf/KTG-representatives. Unfortunately the time between this invitation and the date of the meeting was too short to organize an ANNETTE delegation at the meeting this year.
- The Finnish Nuclear Society (ATS) is willing to spread information of ENEN/ANNETTE activities via ATS-FNS mailing lists.
- The Associazione Italiana Nucleare (AIN) offers to disseminate ENEN/ANNETTE activities on their website and social media. AIN published a brief [text](#) about ANNETTE project as a news on their site and announced ANNETTE in their newsletter (June 2017).
- The Belgian Nuclear Society (BNS) suggests that it would be nice to communicate events via e.g. diffusion lists.
- The Interuniversity Consortium for Technological Nuclear Research (CIRTEN) had already a link to ENEN on their website and added one to ANNETTE.


In the next action the links of the NNNs who gave their approval, will be published on the ENEN website. The suggestions of the NNNs to enhance information exchange and interaction will be further elaborated.

References

[1] Global Nuclear Power Industry Handbook (2011), 4th Edition, International Business Publications USA


[2] <https://www.euronuclear.org/>

Annex 1 : Presentation for NNNs



Connecting ANNETTE with National Networks

Prepared for distribution to Nuclear National Network Representatives



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WHY THESE NOTES?

Dear Representatives of Nuclear National Networks, Societies and Associations,

we approach you in order to fulfil one of our commitments in the **ANNETTE Project**, led by ENEN, being to create links between the project, the ENEN Association and you

The European Nuclear Education Network (ENEN) is engaged since 2003 in maintaining and developing education and training in the nuclear fields. In this frame, the ANNETTE project (Advanced Networking for Nuclear Education and Training and Transfer of Expertise) represents a major effort aimed at coordinating the existing actions in nuclear E&T and proposing new ones

In this action we need your kind cooperation, as we will explain in the next slides



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WHAT IS ENEN


European Commission – EURATOM
5th Framework programme
ENEN project 01/2002 – 12/2003

Following declarations and policies on phasing out nuclear power plants nuclear sciences and disciplines are facing:

- > decreasing interest and a reduced numbers of students
- > no successors for retiring professors
- > discontinuing nuclear related courses and closing faculties

The “European Nuclear Engineering Network” project:

- > established the basis for conserving nuclear knowledge and expertise
- > created a European Higher Education Area for nuclear disciplines
- > facilitated the implementation of the Bologna declaration in the nuclear disciplines




3

THE CONSTITUTION OF ENEN

In order to ensure the continuity of the achievements and results of the ENEN project :

“The European Higher Education Area” in the nuclear field is formalised by creating the **European Nuclear Education Network**, the “ENEN” Association under the French law of 1901, on 22nd of September 2003.




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THE MISSION OF ENEN

The main objective is the preservation and further development of expertise in the nuclear fields by **higher education and training**:

- > Promote and further develop the collaboration in nuclear education and training of students, researchers and professionals
- > Ensure the quality of nuclear education and training
- > Increase the attractiveness for engagement in the nuclear fields for students, researchers and professionals
- > Promote life-long learning and career development at post-graduate or equivalent level



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ONGOING EUROPEAN PROJECTS AND INFO ON ENEN



Nowadays, ENEN is engaged in several EU projects and own actions in E&T, on which you can find info at our website

www.enen-assoc.org

There you can learn about the details on projects, the European Master of Science in Nuclear Engineering Certification, the list of the around 70 Members of the Association and more



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THE ANNETTE PROJECT

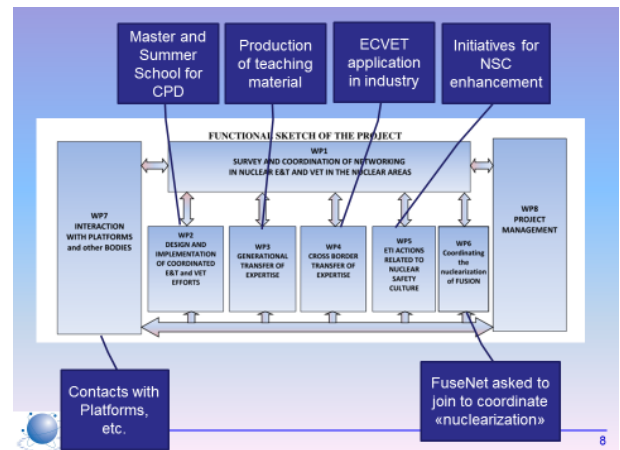
In ANNETTE we have 8 Work Packages and 25 Partners

We have been definitely ambitious, but we had some reasons to:

- we strongly wanted **coordination** in nuclear E&T (WP1)
- we strictly adhered to the H2020 call asking for **Masters of 60 ECTS and Summer Schools for Continuous Professional Development** (WP2)
- we wanted to **enhance textbook and multimedia production** (WP3)
- we also wanted an application of **ECVET** in industry for trying a real cross-border mobility (WP4)
- we eagerly accepted to integrate the offer in WP2 with specific actions for **Nuclear Safety Culture** (WP5) and for the "nuclearisation" of fusion (WP6)
- we wanted a strict **link with stakeholders** (WP7)
- we need to properly **manage** everything, of course (WP8)



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THE TASK REFERRING TO YOU

Among the different actions related to coordination, in WP1 we introduced the following one:

T1.3 STUDY OF TOOLS FOR INFORMATION EXCHANGE

"(...) This task 1.3 will also include constituting or reviving national networks, by linking their websites and making the mechanisms of information transfer from each country to the mother database more systematic, assuring better effectiveness and a capillary distribution of the networking actions"

The idea is for the moment to [link your website to the one of ENEN and vice versa](#), to have a mirroring of the activities on either side

This action is beneficial for you and ENEN and will produce further coordination: a real win-win operation



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IN THIS REGARD WE ASK YOU

- Are you willing to participate in this action?
- Can the link of the ENEN page to your official page and vice versa be made effective in a reasonably short time?
- Can you support ENEN and the ANNETTE Project actions by spreading news about the related educational activities?
- Can you propose any further useful way of interaction between your network and ENEN, also within the ANNETTE Project?
- Is there anything else we can do to contribute in spreading news about your activities?

Please, let us know how to put in place mutually beneficial actions: thanks in advance !



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*Thank you for your attention
and cooperation!*

Please refer your communications before May 26 to

Lisanne Van Puyvelde lisanne.van.puyvelde@sckcen.be



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Annex 2 : List of NNNs

Nuclear National Network	Country	Website
Associazione Italiana Nucleare (AIN)	Italy	http://www.assoziazioneitaliananucleare.it
The French Nuclear Energy Society (SFEN)	France	http://www.sfen.org

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Austrian Nuclear Society (ÖKTG)	Austria	http://www.oektg.at
British Nuclear Energy Society (BNES)	UK	http://www.bnes.org.uk
Croatian Nuclear Society (HND)	Croatia	http://www.nuklearno-drustvo.hr
Hungarian Nuclear Society (MNT)	Hungary	http://nuklearis.hu/en
Netherlands Nuclear Society	The Netherlands	http://www.kerntechniek.nl
Romanian Nuclear Energy Association (AREN)	Romania	http://www.aren.ro
Slovak Nuclear Society (SNUS)	Slovakia	http://www.snus.sk
Spanish Nuclear Society (SNE)	Spain	http://www.sne.es
Swiss Nuclear Society (SNS)	Swiss	http://www.kernfachleute.ch
Belgian Nuclear Society (BNS)	Belgium	http://www.bnsorg.be
Bulgarian Nuclear Society (BgNS)	Bulgaria	http://www.bgns.bg
Republic Czech Nuclear Society (CNS)	Czech Republic	http://www.csvts.cz/cns
Finnish Nuclear Society (ATS)	Finland	http://www.ats-fns.fi
German Nuclear Society (KTG)	Germany	http://www.ktg.org
Lithuanian Nuclear Energy Association (KTU)	Lithuania	http://www.lbea.lt
Polish Nuclear Society (PTN)	Poland	http://ptn.nuclear.pl
Nuclear Society of Slovenia (NSS)	Slovenia	http://www.djs.si
Ukrainian Nuclear Society (UkrNS)	Ukraine	http://ukrns.org
Nuclear Society of Serbia (NSS)	Serbia	http://nss.vinca.rs
Swedish Nuclear Society (SKS)	Sweden	http://www.karnteknik.se
Forum nucléaire Suisse	Swiss	http://www.nuklearforum.ch
The Nuclear Institute (NI)	UK	http://www.nuclearinst.com
Nuclear Industry Association (NIA)	UK	http://www.niauk.org
Deutsches Atomforum (DATF)	Germany	http://www.datf.de
Belgisch Nucleair Forum (BNF)	Belgium	https://www.nucleairforum.be
National Skills Academy for Nuclear (NSAN)	UK	http://www.nsan.co.uk
La Société Française de Radioprotection (SFRP)	France	http://www.sfrp.asso.fr
Belgian Association for Radiation Protection (BVS/ABR)	Belgium	http://www.bvsabr.be
Fachverband für Strahlenschutz (FS)	Germany	http://www.fs-ev.org
British Nuclear Medicine Society (BNMS)	UK	http://www.bnms.org.uk
French National Network of Environmental Radioactivity Monitoring (RNM)	France	https://www.mesure-radioactive.fr
Finnish Youth for Nuclear Energy (YdinEnergiaNuoret)	Finland	http://www.ydinenergianuoret.fi
BNS Young Generation (YG)	Belgium	http://www.bnsorg.be/bns-young

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Belgian Nuclear higher Education Network (BNEN)	Belgium	http://bnen.sckcen.be
Nuclear Technology Education Consortium (NTEC)	UK	http://www.ntec.ac.uk
Interuniversity Consortium for Technological Nuclear Research (CIRTEN)	Italy	http://www.cirten.it
Atomic institute of Austrian Universities (ATI)	Austria	http://ati.tuwien.ac.at
National Institute for Nuclear Science and Technology (INSTN)	France	http://www-instn.cea.fr
AREN Young Generation	Romania	http://aren.ro/archives/category/young-generation



SINOPSIS

TÍTULO

ANNETTE Project: Assure a Qualified Nuclear Work Force in the Next Decades

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TEXTO DE LA SINOPSIS

The ANNETTE Project (Advanced Networking for Nuclear Education and Training and Transfer of Expertise, funded by the European Commission) is addressing the present situation of nuclear energy in Europe by a continuing effort in the field of education and training (E&T). The aim is to assure a qualified work force in the next decades by consolidating and better exploiting the achievements already reached in the past and by tackling the present challenges in preparing the European workforce in the different nuclear areas.

Special attention is paid to continuous professional development, life-long learning and cross border mobility. Consequently, after starting in 2016 with a survey on the current nuclear E&T (including Vocational E&T, VET) and networking situation in Europe, the project mainly deals with design and implementation of coordinated E&T and VET efforts, E&T and Information actions related to Nuclear Safety Culture, generational transfer of expertise, and cross border transfer of expertise. Furthermore, the project also addresses the specific nuclear-related competence needs of the work force in design and construction of fusion facilities, and how to provide suitable training.

The paper will present the partners involved in the project, the work packages and schedule / milestones as well as deliverables of the project, and the challenges met so far when initiating the project. Close to midterm of the four year long project, the main results obtained so far will be presented and discussed. Finally, conclusions on the expected impact on the nuclear education and training in Europe will be presented.