

	EUROPEAN COMMISSION RESEARCH AND INNOVATION DG	Periodic Report
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Project No: 604521

Project Acronym: EAGLE

Project Full Name: Enhancing educAtion, traininG and communication processes for informed behaviors and decision-making reLatEd to ionizing radiation risks

Periodic Report

Period covered: from 12/08/2013 to 11/02/2015

Start date of project: 12/08/2013

Project coordinator name:

Dr. Tanja Perko

Version: 1

Date of preparation: 30/03/2015

Date of submission (SESAM): 09/04/2015

Project coordinator organisation name:

STUDIECENTRUM VOOR KERNENERGIE

Periodic Report

PROJECT PERIODIC REPORT

Grant Agreement number:	604521
Project acronym:	EAGLE
Project title:	Enhancing educAtion, traininG and communication processes for informed behaviors and decision-making reLAtEd to ionizing radiation risks
Funding Scheme:	FP7-CSA-CA
Date of latest version of Annex I against which the assessment will be made:	30/08/2013
Period number:	1st
Period covered - start date:	12/08/2013
Period covered - end date:	11/02/2015
Name of the scientific representative of the project's coordinator and organisation:	Dr. Tanja Perko STUDIECENTRUM VOOR KERNENERGIE
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Declaration by the scientific representative of the project coordinator (1)

I, Dr. Tanja Perko STUDECENTRUM VOOR KERNENERGIE , as scientific representative of the coordinator of the project EAGLE and in line with the obligations as stated in Article II.2.3 of the Grant Agreement declare that:

The project has fully achieved its objectives and technical goals for the period.

The attached periodic report represents an accurate description of the work carried out in this project for this reporting period.

The public website is up to date.

To my best knowledge, the financial statements which are being submitted as part of this report are in line with the actual work carried out and are consistent with the report on the resources used for the project (section 6) and if applicable with the certificate on financial statement.

All beneficiaries, in particular non-profit public bodies, secondary and higher education establishments, research organisations and SMEs, have declared to have verified their legal status. Any changes have been reported under section 5 (Project Management) in accordance with Article II.3.f of the Grant Agreement.

Name	Dr. Tanja Perko STUDECENTRUM VOOR KERNENERGIE
Date	09/04/2015

This declaration was visaed electronically byTanja PERKO(ECAS user name nperkota) on 09/04/2015

1. Publishable summary

Summary description of project context and objectives

In Europe today, institutions, media and the general public exchange information about ionising radiation (IR) and associated risks. EAGLE is a coordination project under FP7-EURATOM that aims to clarify information and communication strategies to support informed societal decision-making.

Education, training and information for the public are key factors in the governance of ionizing radiation risks, as are opportunities for dialogue and stakeholder involvement in decision making. In this project a network of stakeholders reviews national and international data, tools and methods as well as institutional work in order to identify education, information and communication needs and coordination possibilities at the European level.

The EAGLE project is a stakeholder driven project. There are 11 consortium members in the project from eight European countries, representing old and new member states. Members of the consortium team have expertise in different domains. They belong to the nuclear industry, nuclear research, academic institutions, mass media, non-governmental agencies and authorities. EAGLE includes a Stakeholder Representatives Group (SRG) and a Stakeholder Advisory Board (SAB). The SRG is a consultation body of representatives from information sources, channels, and receivers from the various countries in the project. Through workshops and other means the SRG reflects on the project working documents and results, and provides feedback regarding their relevance and usefulness in practice. The EAGLE SAB is formed from a range of stakeholders and helps to ensure that the project's approach is tailored to the diversity of stakeholders involved in communication processes. At the moment, there are more than 100 stakeholders from all over Europe actively involved in the project and the network is growing on a monthly basis.

EAGLE brings together representatives of the nuclear community, users of ionizing radiation, authorities, mass and social media, and informed civil society, from a range of European countries employing nuclear power or not. The project seeks to improve the education, training and information materials employed in communications about ionising radiation by various information sources (industry, experts, authorities, medical field) across EU member states.

The project engages members of the social and traditional media in a series of national and international dialogues and analyzes education, training and information from the point of view of the final recipients of information: the EU citizens. Existing research for all EU Member states is analyzed along with polls, interviews and the outcome of workshops conducted in selected countries. The 'mental model' approach is employed to investigate potential differences between the attitudes and perceptions of professionals and the public.

Public opinion surveys related to communication about ionizing radiation were conducted in different EU countries in order to identify people's attitudes, opinions, needs and views. Also public understanding of ionizing radiation is assessed. Eagle supports citizen-centred communication. It assesses the current dissemination of ionizing radiation information to the public and provides practical guidance tools for best practice to support the ideal of participative, citizen-centered communication. The EAGLE events and activities identify tools to better support European citizens' understanding of ionizing radiation. All results of the project are to be disseminated among stakeholders and the public on an ongoing basis. Sharing of results and communication are facilitated through the project's website, social media tools and via the "EAGLE Stakeholder Platform." EAGLE electronically publishes its recommendations for improving the education, training and communication processes related to ionizing radiation via a webpage.

All public events - conferences, dialogue groups, pilot actions, workshops, presentations etc. - are published at <http://eagle.sckcen.be/>. In addition, all EAGLE stakeholders are regularly informed by the EAGLE newsletter.

Description of work performed and main results

Eagle organised workshops, dialogues and interviews with publics, journalists and information sources, applied the mental models approach, conducted public opinion surveys and overviewed mass and social media treatment of IR topics, including in the aftermath of Fukushima. In addition it overviewed a historical public opinion surveys and communication material related to opinion,

attitudes and knowledge about ionizing radiation in EU.

From the most significant results of the project in a first reporting period it can be seen that there is a big difference between the public perception and intentions of those who are providing information on IR risk. Mutual learning by all stakeholders is required. Communication about ionizing radiation is still too much seen as a one-directional transfer of information from a source to a receiver. On one hand, communication by users of IR is mainly inspired by the idea that the general public should be 'educated' by 'explaining them the facts' and by assisting people to 'better understand' nuclear technology. On the other hand, citizens miss the recognition by an industry and research of being a competent stakeholder. Journalists are very reluctant to communicate with representatives of public relations. They appeal for experts to be trained for media communication. The EAGLE project identified areas for further improvements in the communication about ionizing radiation . i.) Public opinion research related to ionizing radiation in EU is mainly focused on attitudes towards nuclear energy and omits other applications or challenges. Eagle suggests to identify the actual impacts of IRR in everyday life and focus on meaningful issues for the public. ii) Societal communication about IR risks has become more complex, extensive and multi-directional. EAGLE suggests to more joint learning and participative problem-solving. iii) New media speed up, decentralise and diversify information provision while offering platforms for direct citizen participation, expression and feedback. EAGLE identified the need of institutions to adapt with new personnel, new practices and new policies related to communication and public involvement. iv.) The ideal of communication about radiological risks is to support the stakeholders to make informed decisions and to establish two-way communication and joint problem solving. To be able to take an informed decision, people need a certain level of issue understanding. research shows that communication related to radiological field will not trigger enough attention to be heard or recalled among people with low levels of knowledge; consequently they will not be able to engage in the decision-making process. From this point of view, teachers in schools and other people involved in education programs hold an important role in risk communication and public understanding.

The work performed since the beginning of the project in different work packages is the following:

- WP1 seeks to improve education, training and information (ETI) material employed in communication about ionising radiation by information sources (industry, experts, authorities, medical field) across EU member states. Tools are assessed through interviews with heads of nuclear institutions along with protocols and questionnaires given through Euratom national contact points. Upgraded ETI material, activities, and communication strategies will be proposed as a coordinated European approach for practical implementation.
- WP2 engages members of information source institutions and practitioners/representatives of the social and traditional media in a series of national and international virtual dialogues (face-to-face and virtual). These dialogues considers information transfer and media handling, as well as the context of institutional, media and citizen discussion of ionising radiation and associated risks. The dialogue groups reviews existing aids and produce practical guidance tools to improve communication for more informed decision-making.
- WP3 analyses education, training and information (ETI) from the point of view of the final recipients of information – EU citizens. Existing desk research for all EU Member states analyses along with public opinion polls (in France, Belgium and in Slovenia), interviews with representatives of a general public and the outcome of workshops with representatives of informed civil society conducted in select countries. In addition, the 'mental model' approach is employed to investigate potential differences between professionals and the public regarding social and cognitive representations of ionizing radiation risks, and identify means to better support informed public decision-making related to this topic.
- WP4 Stakeholder participants comment and provide feedback on project products through two virtual workshops. Additionally, three pilot actions are implemented in three countries to test, evaluate and upgrade communications products. Information and results are disseminated among stakeholders and the public on an ongoing basis. Sharing of results and communication are facilitated through the web site, social media tools and the "EAGLE Stakeholder Platform." EAGLE electronically publishes its recommendations for improving the education, training and communication processes related to ionising radiation. EAGLE will hold a final International Stakeholder Conference with members of academia, operators' regulators, authorities, medical sector, health organizations, consumers, different associations, traditional media, new media,

emergency management and the public to exchange experience, methods, and tools developed throughout the project. The event will publicize project results and gather feedback from stakeholders on employing these tools to better support European citizens' understanding of ionising radiation.

- WP5 includes the activities for the consortium management of the project. In addition to the regular tasks related to the project co-ordination and management, the WP5 takes care, that is the EAGLE highly linked to other EC FP7 projects, dealing with similar topics. The International Conference on Risk Perception, Communication and Ethics of Exposures to Ionising Radiation (RICOMET 2015), which will be held from 15th to 17th of June 2015 in Brdo Castle, Slovenia is the most significant results of the WP5 objective to cross-link the EC project.

Expected final results and potential impacts

EAGLE will clarify information and communication strategies about ionizing radiation to support informed societal decision-making, engage stakeholders in assessing the current dissemination of ionizing radiation information to the public and provide guidance tools for good practice to support the ideal of a participative, citizen-centered communication. EAGLE will consolidate existing networks of European nuclear institutions acting as sources of ETI. It will reinforce in particular the exchanges between old and new Member State institutions on ETI content and strategies. Moreover, EAGLE will create new transversal networks of actors in the communication process (sources, channels and recipients), nourishing them with new information, engaging them in interesting new conversations and self-reflexive work and construction of new views and new practices.

It is expected that through these activities and relationship-building, the ETI content and practice by source institutions (authorities and other nuclear organizations), at the least, will be improved to better serve European citizens' cognitive and behavioral needs. Other communication actors may benefit as well from comparable gains in their own practice and knowledge.

EAGLE hopes to influence the type and content of ETI regarding ionising radiation offered to European citizens. Still, communication, and particularly risk communication, is a complex and unpredictable societal process. Moreover, the science of IR, and the values applied in radiological protection and public health security, similarly are of deep complexity and professionals recognize that their clarification is an ongoing process.

For these reasons, it would be foolhardy for EAGLE to make claims a priori for measurable societal impact that could result from the coordination action. However, the spirit, the intent and the activities of EAGLE tend explicitly towards a) increasing reflexivity and transparency of ETI in the nuclear domain; b) better European dissemination of tested and appropriate methods and materials developed at national level; c) better integration of diverse stakeholders' characteristics and needs; d) a contribution towards better accident preparedness for nuclear host communities but also for nuclearized member states overall, through the creation of new types of relationships among the actors of communication.

In today's democratic context, and with specific reference to transparency requirements that take on increasing importance in the nuclear domain, even small increments in the described directions are desirable. Overall, the EAGLE coordination activities can make a contribution, real if not radical, to the systems of nuclear safety and public health security.

Project public website address:

<http://eagle.sckcen.be/>

2. Core of the report

Project objectives, Work progress and achievements, and project management during the period

The Project Summary Pdf document contains the core of the report.

3. Deliverables and milestones tables

Deliverables (excluding the periodic and final reports)										
Del. no.	Deliverable name	Version	WP no.	Lead beneficiary	Nature	Dissemination level	Delivery date from Annex I (proj month)	Actual / Forecast delivery date	Status	Comments
1	Analyses of ETI materials and activities regarding the ionising radiation	1.0	1	ARAO - Agencija za radioaktivne odpadke	Report	PU	15	11/02/2015	Submitted	
2	Analyses of ETI material in EU related to Fukushima accident	1.0	1	INSTITUT J OZEF STEFAN	Report	PU	10	27/08/2014	Submitted	
3	Guide for improvement of solutions for good practices and coordination for IR information sources	0.0	1	ARAO - Agencija za radioaktivne odpadke	Other	PU	35	11/07/2016	Not submitted	
1	Overview of mass and social media treatment of IR topics, including in the aftermath of Fukushima.	1.0	2	INSTITUT SYMLOG	Report	PU	3	19/11/2013	Submitted	
2	Materials for national dialogues: Identification and/or compilation of material for discussion and assessment at national level.	1.0	2	INSTITUT SYMLOG	Other	PU	8	01/07/2014	Submitted	Explanation of delay in Del 2.2 and Del 2.3: At the outset it was intended to perform all the dialogue-building activities in parallel. However, in practice it was found that they should be successive. The very large outreach and recruitment effort delayed the start of methodological design and development (D 2.3). Then, the collection of actual media materials (D2.2) was performed after the agreement of all design considerations. In con

										sequence, while dialogue partners were identified on time (MS21), the following reports were delayed by 1 month and 2.5 months respectively.
3	Design of dialogues: Exercises and guidance for consortium members to conduct national dialogues.	1.0	2	INSTITUT SYMLOG	Report	PU	8	22/05/2014	Submitted	Explanation of delay in Del 2.2 and Del 2.3: At the outset it was intended to perform all the dialogue-building activities in parallel. However, in practice it was found that they should be successive. The very large outreach and recruitment effort delayed the start of methodological design and development (D2.3). Then, the collection of actual media materials (D2.2) was performed after the agreement of all design considerations. In consequence, while dialogue partners were identified on time (MS21), the following reports were delayed by 1 month and 2.5 months respectively.
4	Materials for international dialogue: Outputs of national-level dialogues for discussion.	0.0	2	INSTITUT SYMLOG	Other	PU	22	11/06/2015	Not submitted	
5	Outcome of dialogues: Agreed recommendations and guidelines for developing media relations for IR communication.	0.0	2	INSTITUT SYMLOG	Other	PU	36	11/08/2016	Not submitted	
1	Report on public views across EU on education	2.0	3	REGIA AUTONOMA TECHNO	Report	PU	12	11/02/2015	Submitted	

	and information in the post-Fukushima context			LOGII PENTRU ENERGIA NUCLEARA - RATEN						
2	Report on mental models related to ionising radiation	1.0	3	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Report	PU	15	11/02/2015	Submitted	
3	Guide for good and bad practices and public education, training and information	0.0	3	REGIA AUTONOMA TEHNOLOGII PENTRU ENERGIA NUCLEARA - RATEN	Other	PU	30	11/02/2016	Not submitted	
4	Reports from 4 workshops	0.0	3	REGIA AUTONOMA TEHNOLOGII PENTRU ENERGIA NUCLEARA - RATEN	Report	PU	28	11/12/2015	Not submitted	
1	Communication recommendations related to IR	0.0	4	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Other	PU	36	11/08/2016	Not submitted	
2	International Stakeholders Network Members List (ongoing process)	0.0	4	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Other	PU	36	11/08/2016	Not submitted	
3	Data base of good practices (ongoing process)	0.0	4	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Other	PU	36	11/08/2016	Not submitted	
4	Reports/proceedings from the conferences and workshops	0.0	4	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Report	PU	35	11/07/2016	Not submitted	

5	Public platform for communication on ionising radiation established	1.0	4	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Other	PU	13	14/10/2014	Submitted	
6	Report on dissemination of the results and inter-connection of EC projects involving IR communication activities (regularly updated)	0.0	4	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Report	PU	36	11/08/2016	Not submitted	
7	Report from Pilot Action 1	0.0	4	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Other	PU	30	11/02/2016	Not submitted	
8	Report from Pilot Action 2	0.0	4	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Other	PU	30	11/02/2016	Not submitted	
9	Report from Pilot Action 3	0.0	4	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Other	PU	30	11/02/2016	Not submitted	
10	Report from Initial project conference	1.0	4	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Report	PU	4	31/12/2013	Submitted	
11	Report from Final project conference	0.0	4	REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC	Report	PU	36	11/08/2016	Not submitted	
12	Report from 2 virtual sta	0.0	4	REGIONAL E	Report	PU	22	11/06/2015	Not submitted	

	keholder workshop s			NVIRONMENT AL CENTER FOR CENTRAL AND EASTERN EUROPE -REC					
1	Establishment of the EAGLE web site	1.0	5	STUDIECENT RUM VOOR K ERNENERGIE	Other	PU	1	30/09/2013	Submitted
2	Project Period Report	0.0	5	STUDIECENT RUM VOOR K ERNENERGIE	Report	PU	20	11/04/2015	Not submitted
3	Project Final Report	0.0	5	STUDIECENT RUM VOOR K ERNENERGIE	Report	PU	36	11/08/2016	Not submitted
4	Organisation and delivery of all contractually required documents , completed by month	0.0	5	STUDIECENT RUM VOOR K ERNENERGIE	Other	PU	36	11/08/2016	Not submitted

Milestones

Milestone no.	Milestone name	Work package no	Lead beneficiary	Delivery date from Annex I	Achieved Yes/No	Actual / Forecast achievement date	Comments
1	Protocol to collect information on ETI	1	ARAO	11/10/2013	Yes	11/12/2013	The protocol included several different methods for data collection. The methodology had to be verified and adjusted to the online survey tool.
2	Identification of ETI at the information sources	1	ARAO	11/10/2014	Yes	11/08/2014	Response from the listed information sources was very poor, even from the countries that are partners of the project. The EURATOM national contact points did not cooperate and invitations to participate had to be repeated several times in order to get the required data.
3	Criteria for definition of	1	ARAO	11/02/2014	Yes	11/12/2013	(partly) Final criteria will

	good practices						be defined on the basis of analysis of collected information and will be included in the delivery D1. 3. Data from other WPs are also required.
4	Questionnaire for Fukushima accident regarding ETI at the level of information source	1	ARAO	11/01/2014	Yes	11/12/2013	
5	Respond to the questionnaire from research organisations and institutions	1	ARAO	11/04/2014	Yes	11/04/2014	
1	Dialogue groups identified on national level	2	INSTITUT SYMLOG	11/03/2014	Yes	11/03/2014	
2	National assessments completed	2	INSTITUT SYMLOG	11/02/2015	Yes	11/10/2014	
3	Media-related recommendations prepared for International Stakeholder Conference	2	INSTITUT SYMLOG	11/05/2016	No	11/05/2016	
1	Input of Euratom NCPs	3	REGIA AUTONOMA PENTR	11/07/2014	Yes	11/07/2014	
2	Public opinion surveys conducted	3	REGIA AUTONOMA PENTR	11/07/2014	Yes	11/07/2014	
3	Mental models workshops conducted	3	REGIA AUTONOMA PENTR	11/08/2014	No	11/06/2015	Postponed
4	Four workshops to discuss good and bad practices	3	REGIA AUTONOMA PENTR	11/10/2015	No	11/10/2015	
1	SAB members nominated	4	REGIONAL ENVIRONMENT	11/10/2013	Yes	11/10/2013	
2	Initial Project Conference executed	4	REGIONAL ENVIRONMENT	11/11/2013	Yes	26/11/2013	
3	Public platform for communication on ionising radiation established	4	REGIONAL ENVIRONMENT	11/10/2014	Yes	18/09/2014	

4	1st stakeholder virtual workshop executed	4	REGIONAL ENVIRONMENT	11/07/2014	Yes	29/10/2014	
5	2nd Stakeholder virtual workshop executed	4	REGIONAL ENVIRONMENT	11/05/2015	No	15/07/2015	
6	International Stakeholder/ Final Conference executed	4	REGIONAL ENVIRONMENT	11/07/2016	No	11/07/2016	
7	Pilot actions executed	4	REGIONAL ENVIRONMENT	11/02/2016	No	11/02/2016	
1	Kick-off meeting	5	SCK•CEN	11/09/2013	Yes	20/08/2013	
2	1st annual meetings of the EAGLE consortium	5	SCK•CEN	11/08/2014	Yes	29/10/2014	
3	2nd annual meeting of the EAGLE consortium	5	SCK•CEN	11/04/2015	No	18/07/2015	
4	3th annual meeting of the EAGLE consortium	5	SCK•CEN	11/07/2016	No	11/07/2016	
5	Deliverable of the final project's output	5	SCK•CEN	11/08/2016	No	11/08/2016	

4. Explanation of the use of the resources

The **explanation on the use of resources** was removed from the scientific periodic reports in SESAM. These details now have to be entered in the cost statement forms in FORCE instead.

Attachments	EAGLE FP7 poster_leaflet.pdf, EAGLE D52 Periodic report.pdf
Grant Agreement number:	604521
Project acronym:	EAGLE
Project title:	Enhancing educAtion, traininG and communication processes for informed behaviors and decision-making reLatEd to ionizing radiation risks
Funding Scheme:	FP7-CSA-CA
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Name of the scientific representative of the project's coordinator and organisation:	Dr. Tanja Perko STUDIECENTRUM VOOR KERNENERGIE
Period covered - start date:	12/08/2013
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Name	
Date	09/04/2015

This declaration was visaed electronically by Tanja PERKO (ECAS user name nperkota) on 09/04/2015