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Enhancing EducAtion, TraininG and Communication Processes for Informed
Behaviors and Decision-making ReLAtEd to Ionizing Radiation Risks

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Public platform for communication about ionizing radiation established

Author(s): Tanja Perko (SCK•CEN), Blanka Koron, Nadja Železnik (REC)

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ionizing radiation risks training
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RE	Restricted to a group specified by the partners of the [EAGLE] project	
CO	Confidential, only for partners of the [EAGLE] project	

Project Context

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

In Europe today, institutions, media and the general public exchange information about ionising radiation (IR) and associated risks. The 2011 Fukushima accident has demonstrated the need for further improving this communication. EAGLE is a coordination project under FP7-EURATOM that aims at clarifying information and communication strategies to support informed societal decision-making.

Education, training and information to the public are key factors in the governance of ionising radiation risks, as are opportunities for dialogue and stakeholder involvement in decision making. EAGLE will engage stakeholders in assessing the current dissemination of ionising radiation information to the public and provide practical guidance tools for good practice to support the ideal of a participative, citizen-centred communication.

To achieve these objectives, EAGLE will bring together representatives of nuclear actors, users of ionizing radiation, authorities, mass and social media, and informed civil society, from a range of European countries employing nuclear power or not and link them in a Public platform for communication about ionizing radiation.

More information can be obtain from coordinator of the project **Dr. Tanja Perko**, e-mail address **tperko@SCKCEN.BE**, SCK•CEN.

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1. About EAGLE stakeholders

EAGLE Stakeholder identification – the platform members

From the very beginning of the project partners started to reach out to stakeholders within the context of work packages which include substantial interaction. Partners are continuously identifying new stakeholders at the European level, especially in consortium countries and in European projects. For the final involvement of stakeholders, the Work Package Leaders are responsible: for involvement of stakeholders from information sources Metka Kralj, ARAO, for involvement of stakeholders from media Clair Mays, SYMLOG, and for involvement of stakeholders from public Daniela Diaconu, ICN.

At the project level the partners are compiling the database of contacts of relevant stakeholders and inviting them to join the EAGLE network, to participate EAGLE events or just to follow the project – related information (*see the explanation in continuation*).

The main **EAGLE stakeholder groups** are the following:

- Information sources:

Nuclear specialists, industry, experts, public authorities (policy and decision makers and public institutions / agencies at national, regional and/or municipality level), users of IR in medical sector, also members of NGO with a very relevant knowledge in the issue etc.

- Mass media:

Traditional and new media;

- Informed civil society and public

People living in vicinity of a nuclear installation, or people exposed to medical examinations involving the use of radiation, education and research institutions, civil society – NGOs, civil initiatives and interested individuals.

Stakeholder analysis

With the aim to get a good knowledge about the stakeholders' characteristics, their needs and especially their interests and motivations for working with EAGLE partners during the implementation of the project, a special questionnaire for the stakeholder analyse (SA) was prepared and sent out to the relevant actors in 5 project countries.

A better insight in the stakeholder groups is especially important for national project partners, as well as at international - project level. With the SA questionnaire and analyse the EAGLE partners start and/or continue building the relationship with stakeholders. The information from the stakeholder analysis will be used for better tailoring the project activities in accordance with the stakeholders' specific needs and preferences.

EAGLE Stakeholder network and Stakeholder Consultation Group (SCG)

For establishment of the EAGLE stakeholders network the EAGLE Management Committee prepared a proposal to address the potential EAGLE stakeholders and proposed a letter in which project partners invited the national contacts in France, Belgium, Poland, Romania and Slovenia to joining

EAGLE network. After the first invitation in November 2013, the REC made an excel spreadsheet with several levels of possible stakeholders:

- at project level: AB members, people/organizations who signed the letter of support, project partners,
- project countries level (Belgium, France, Poland, Romania, Slovenia) –REC sent the example of list of e-mail addresses which was used for invitation to Eagle network (as proposed by letter 15.11.2013) of Slovene stakeholders - it includes Information sources, journalists and interested civil society and public,
- people/organization who attended first EAGLE conference,
- NCP - national contact points for EURATOM (as was requested by EC),
- interested people and organization (EU, worldwide) – the list included around 600 e-mail addresses from different contacts.

This list of potential EAGLE stakeholders is being completed with contributions from project partners. The stakeholder registration form is published online on the EAGLE web page.

All relevant stakeholders that were identified by partners were invited to join the EAGLE stakeholder network to become active participants in EAGLE debates and consultations. Invitees can decide among two options:

- joining the Stakeholder Network means being registered for EAGLE Platform and receiving all relevant EAGLE information: news, professional working papers, invitations for events, relevant documents and publications, getting access to the network database and database on good practices, and other project information.
- joining also the Stakeholder Consultation Group means getting involved in mutual learning and sharing of knowledge and good practices related to communication on IR through participation in EAGLE debates and consultations, virtual workshops, pilot actions and conferences. The role of SCG members will be to reflect the project's working documents and results, and to comment / give advice regarding their relevance and usefulness in practice. Its role will be also to comment on the Project communication approach, so that envisaged project objectives will be achieved, that the impact will be beneficial for all stakeholder groups, and most important – that the project results will be well exploited by key stakeholders.

The EAGLE stakeholder network is growing into a platform for communication related to ionising radiation. Gaining new knowledge and experiences, the possibility to dialogue on professional challenges and dilemmas, getting the information on good practice, establishing new contacts, accessing new communication materials and other project results are the motivational aspect for engagement.

2. EAGLE platform is established

With this document, we want to notify the Commission that the Deliverable 4.5 **Public platform for communication about ionizing radiation** is established. The platform is an evolving forum for dialogue and exchange of communication material between organizations, institutions, associations and people taking part in decision-making related to ionizing radiation. In addition, it is also a tool for dissemination of information, news, methods, and documents produced, developed and collected by the EAGLE project, as described in the working plan.

The platform uses internet as the main tool for communication, as well other media as tweets, blogs, newsletters, e-mails, face to face communication at different events such as conferences and meetings.

Platform of the EAGLE project is registered at <http://eagle.sckcen.be>. On Figure 1 a screenshot of the main page is shown and also provides the information on the structure of the platform.



Figure 1: Screenshot of EAGLE platform front page

3. Communicating with members

EAGLE has created accounts on different **social media channels** to maximize benefits and visibility of activities carried out in the context of the Public platform for communication about ionizing radiation e.g. Twitter, YouTube and slide share. This also allows the public, and in particular members of Stakeholder Consultation Group to be actively involved throughout the implementation and development of the project. Our **stakeholders also write blogs** – every two months we select other blogger from different institutions and associations (industry, administration, implementers, civil associations, journalists, NGO...). In this blog opinions and experiences about ionizing radiation of the authors are shared.

News and upcoming events are regularly announced also on the Platform internet page. Used is also **direct mailing** mostly to share up-to-date news, results or to invite stakeholder to events.

4. Exchange of communication material/ project results

Beside the web- public platform, additional communication material and project outputs are also available on project web-pages. The EAGLE website summarise also project content with following structure: Home page, Objectives of the project, Organisation of the project with links to Project partners, Advisory board and Stakeholders. Additionally, work packages are also presented, as well as list of project deliverables which is updated with submitted ones. On a first page, there is also a link to EAGLE NEWS and Upcoming events.

The exchange of communication material between organizations, institutions, associations and people taking part in decision-making related to ionizing radiation is established on the page Library, which is shown on Figure 2. EAGLE partners are establishing a virtual library of public communication, information and education material about ionizing radiation in several languages.

We are collecting links to all publicly available material used for public communication related to different risks and benefits in a context of nuclear technologies (e.g. medical applications, nuclear energy applications...) and natural radiation (e.g. radon in houses).

This Library contains links to other websites which are hosted and maintained by third parties. EAGLE has no control over the content or security of any such external website. Linking to external websites is at the own risk of the user, and EAGLE cannot be held liable as to their content. EAGLE can also not be liable for any loss or damage arising from the use of such third party websites.

Our stakeholders were kindly invited to provide internet sources that can be an added value the platform, can send this information to the EAGLE secretariat at the following e-mail address: eagle_secretariat@rec-lj.si. We already receive some stakeholder's updates for platform. The information is then reviewed, and put online if it is suitable.

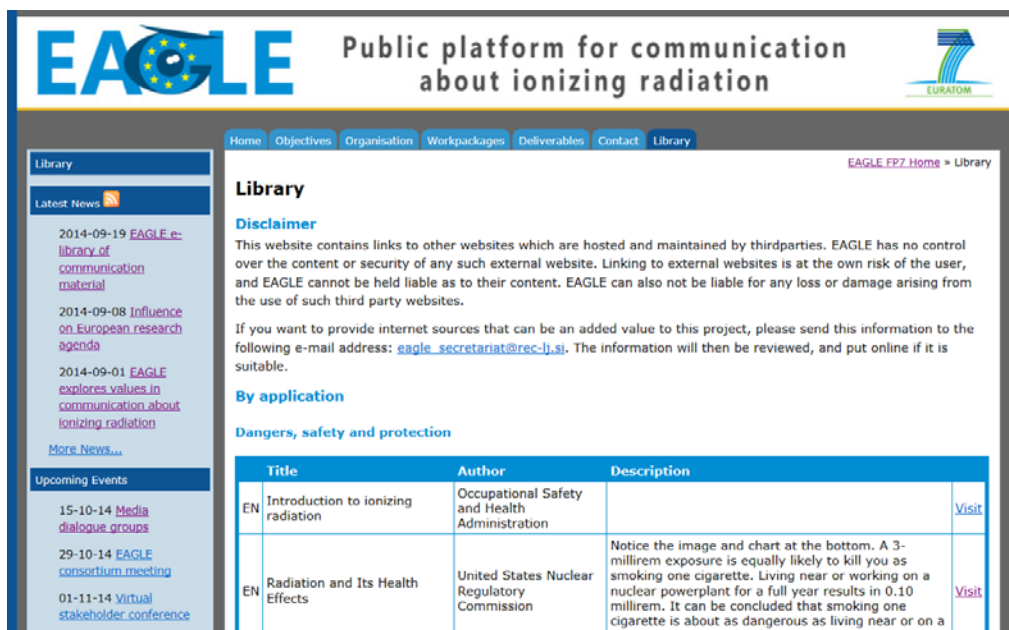


Figure 2: Screenshot of EAGLE page Library

The collected material is classified according to several topics like: Dangers, safety and protection, Radon, General information about ionising radiation, Medical and Incidents and accidents. During library's early months, the content of the collected material will be classified more general; later on the content classification of the library will be developed based on collected information, communication and education material. The format of presented material is given on Figure 3.

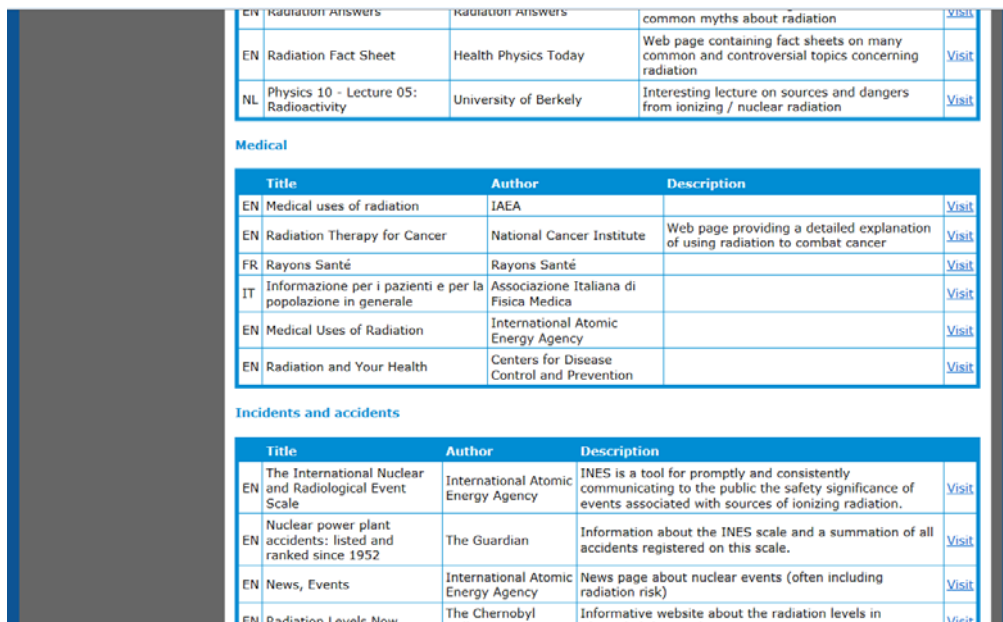


Figure 3: Format of collected material on EAGLE platform

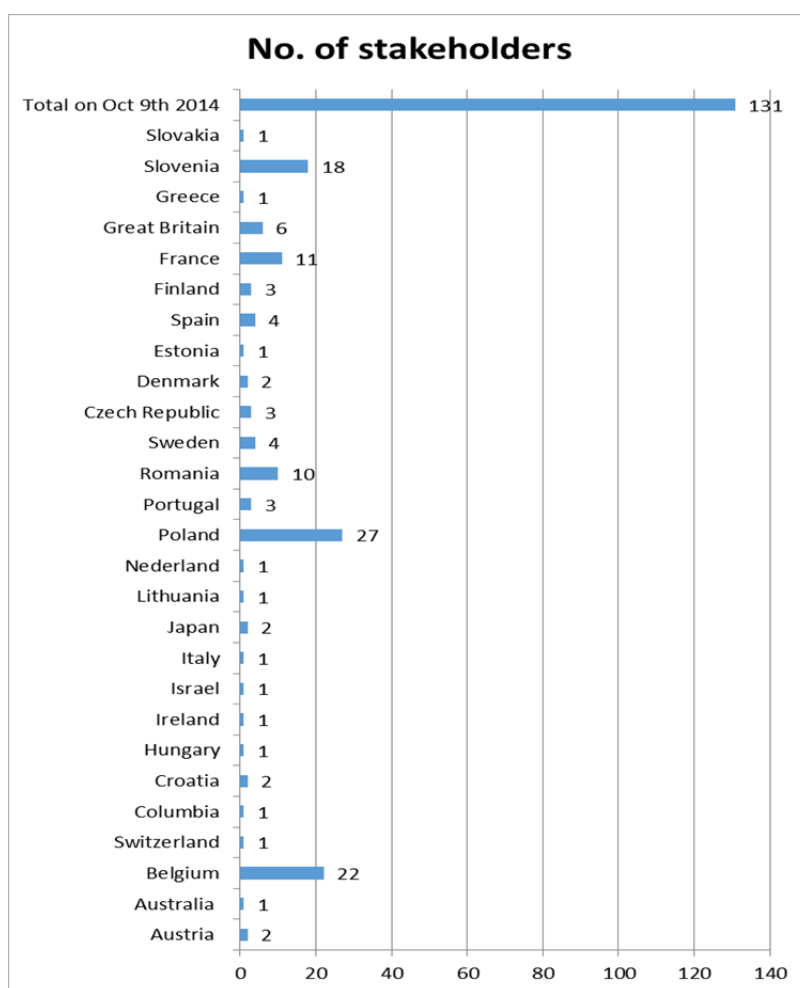
5. Analysis of stakeholders jointed to project network

EAGLE network is growing, in addition to project consortium members; we already have more than 130 joined stakeholders based on exported data from October 9th 2014. Below presented stakeholder analyse was done based on available data and it presents results about:

- i. Number of stakeholders per country
- ii. Type of stakeholders
- iii. Stakeholders organization's primary area of activities
- iv. Type of organisation
- v. List of stakeholders ongoing projects and processes related to communication on IR
- vi. Types of knowledge and skills related to communication about ionising radiation
- vii. Type of stakeholder involved in the EAGLE project

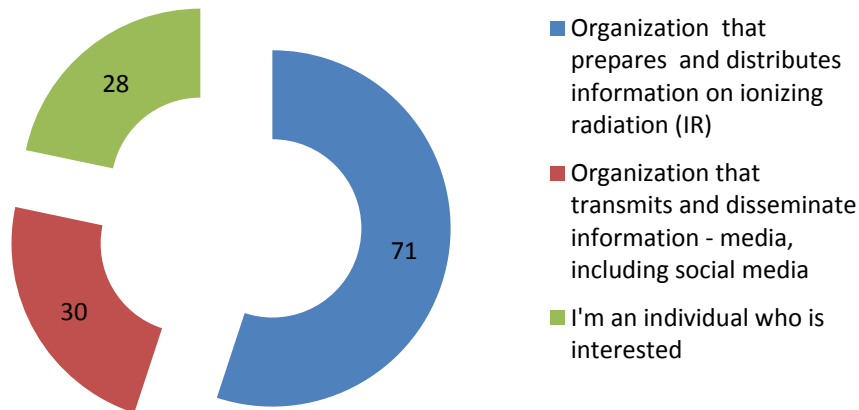
Ad i: Numbers of stakeholders per countries (Figure 4)

The majority of stakeholders come from Belgium, Poland, France, Slovenia and Romania (project countries), but for Eagle shows also interested some stakeholder from other non-project countries in Europe as well as outside Europe, stakeholders from Australia, Japan, Israel and Columbia.



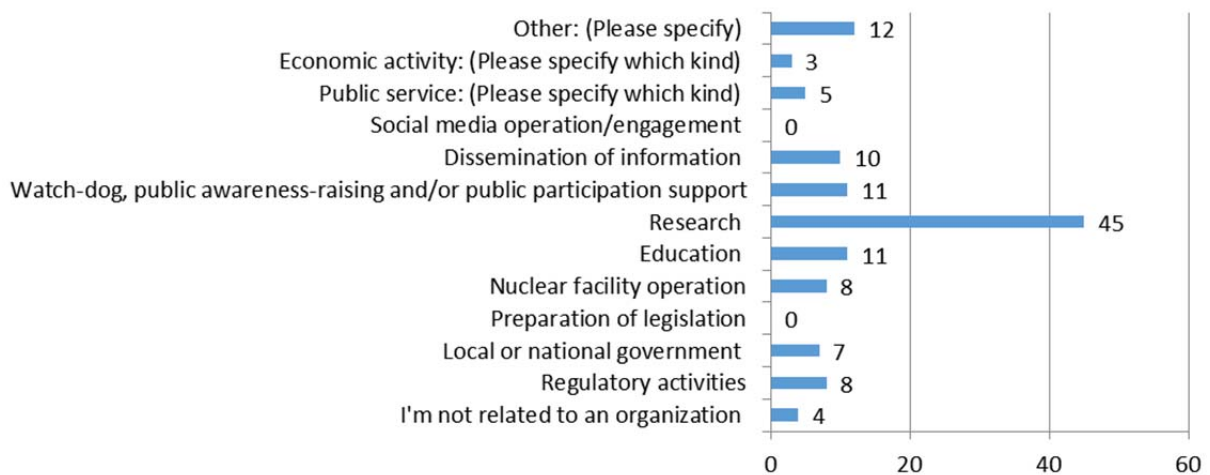
Ad ii: Type of stakeholders (Figure 5)

71 stakeholders marked that are part of organization that prepares and distribute information about IR. 30 stakeholders' organizations transmit and disseminate information, and 28 stakeholders joint to network as individuals.



Ad iii: Stakeholders organization's primary area of activities (Figure 6)

The majority of stakeholders organisation's primary area of activities are Research, followed by Watch-dog, public awareness-raising and/or public participation support and Education.



As Public service specified:

- *National television*
- *Government Agency*
- *Radioactive waste management*
- *Nature conservancy*
- *Environment and Nature*

As Economic activity specified:

- *Coaching and consulting*

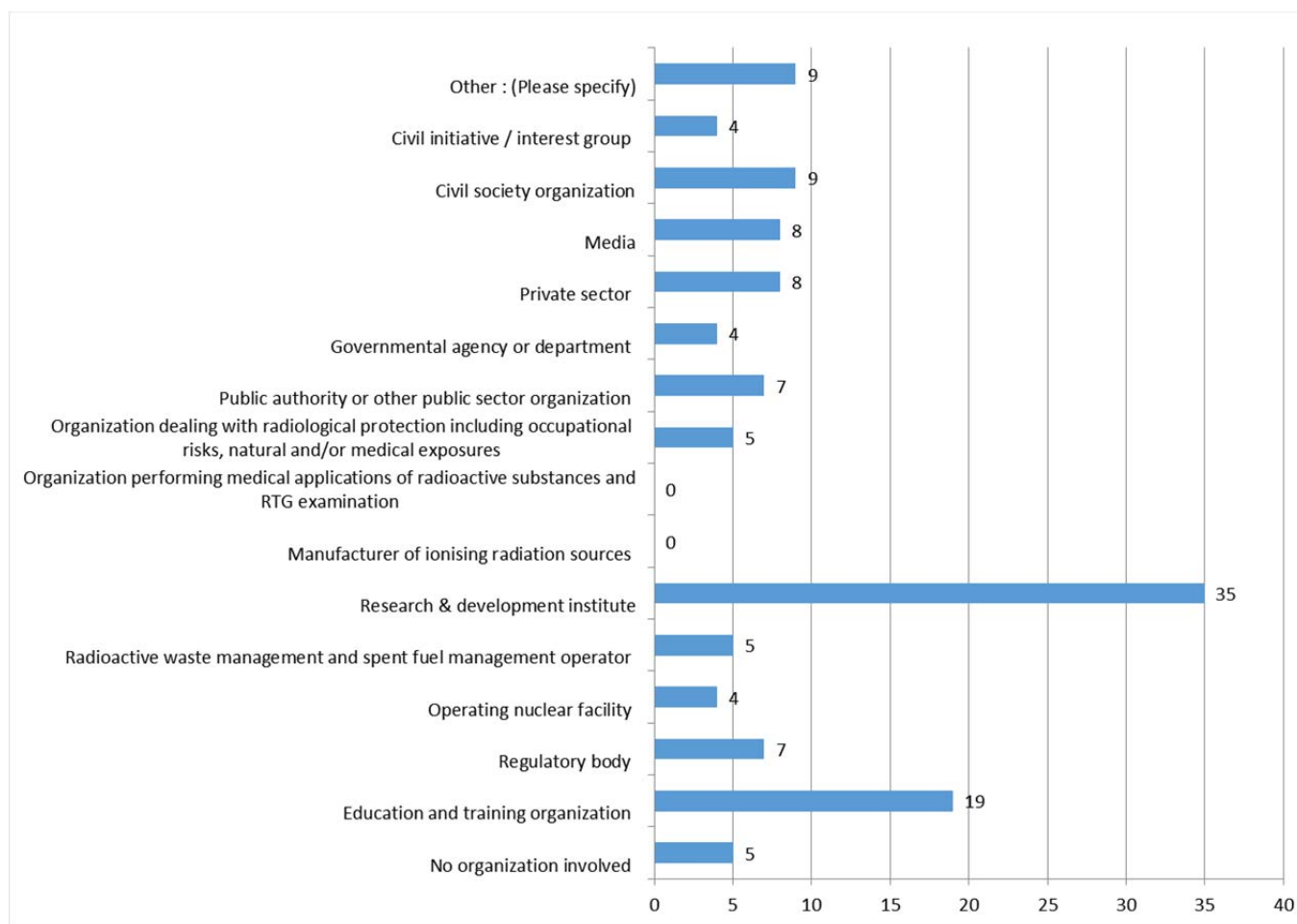
- Consultancy
- Consultant

As Other specified:

- Dissemination of information on occupational education and training for radiation protection
- Our organization is comprehensive non-profit organization for nuclear energy
- Newspaper
- Nuclear consultant
- Occupational health department of a nuclear power plant
- We are an organization specialized in crisis management and business continuity
- Consulting
- Industrial and Scientific Services
- Humanitarian Disaster preparedness and response
- Television media
- Managing radioactive waste

Ad iv: Type of organisation (Figure 7)

35 stakeholders come from research & development institutes. Another big group of 19 stakeholders are from education and training organisations. The rest of them follow as it is shown in the graph.



As Other specified:

- *Science mediation*
- *Non-profit organisation: partnership NIRAS/ONDRAF and community of Dessel*
- *Organic gardening*
- *Consultancy (2x)*
- *International Humanitarian Organisation*
- *International Organisation*
- *Communications consultancy*
- *Multimedia centre on electric power and the energy industry*

Ad v: List of stakeholders' ongoing projects and processes related to communication about IR

62 stakeholders out of 130 stated that they at that time work on communication about IR. Below you can find a list of their entries:

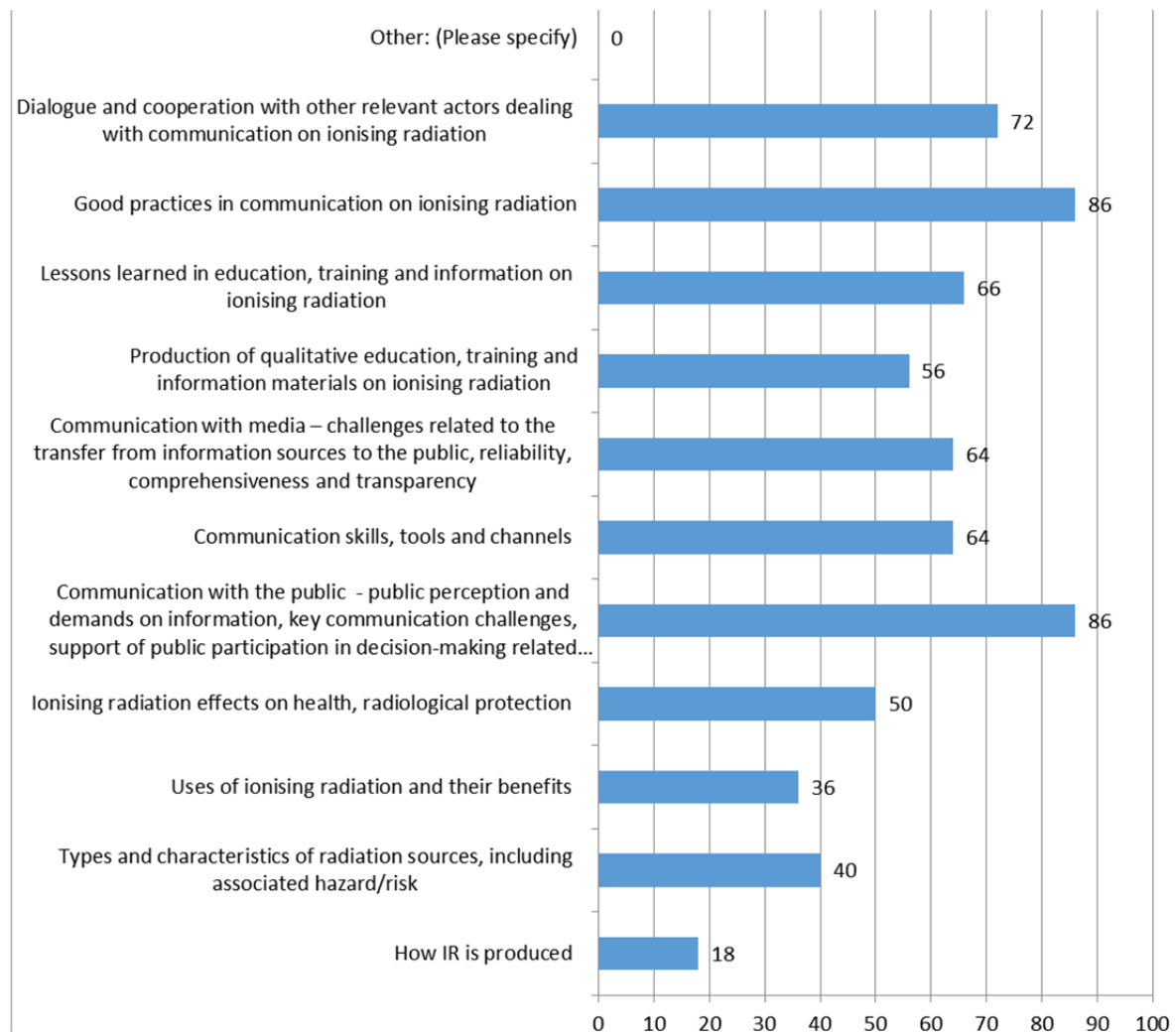
- *Ongoing research on the health risks of radon, including why some groups of the population (e.g. smokers, young families) are less likely to assess and remediate radon levels. || Previous small scale studies on relative risk perception of ionising radiation doses compared with other non-radiation risks in groups of hospital staff, patients, school children, and university staff.*
- *Atomic Bus - Mobile Laboratory|- Meetings with Atomic Energy|- The Radiological Map of Poland for Schools|- Atomic Forum magazine|- energijadrowa.pl - popular-science portal*
- *Communicating nuclear energy*
- *Activation interactions with public for understanding of nuclear energy, including radiation.*
- *Educational science show on Legacy of Marie Curie - <http://4d.rtv slo.si/ arhiv/ ugriznimo- znanost/174266877>*
- *Coordinator for a EC-7 Network of Excellence in radioecology, called STAR.*
- *Exploitation of the information centre Isotopolis (www.isotopolis.be)*
- *courses about IR for nurses/technologists*
- *I undertake stakeholder engagement in relation to radioactive waste management, environmental remediation and decommissioning. I undertake extensive consultancy work for the IAEA and other clients and run training courses.*
- *Follow up of the implementing of a RA waste repository in our village, Communicating about this project*
- *Offline magazine door to door in Dessel (quarterly)|- website|- online newsletter (monthly)|- facebook || ON:|- planned surface disposal site in Dessel|- nuclear activities in the region*
- *Dissemination of outputs from radiobiology projects*
- *PREPARE, FP7/EURATOM*
- *LOCATION PROCCES OF RADIOACTIVE WASTE DISPOSAL*
- *LOCATION PROCCES OF RADIOACTIVE WASTE DISPOSAL*
- *Awareness Raising of Pupils - includes visits to the Research Reactor and Teachers Training|| Book about basics of Nuclear Technology in Layman language, available in German and English|| Presenting in front of schools/ interested groups, on television*
- *IST is an operator of a research reactor. IST has been developing some leaflets to the public about ionizing radiation and the activities that are performed in the campus. ||*
- *Provision of general information on ionising radiation, radioactivity and related health risks.|| Particular fields of interest today, without being exhaustive, cover|- exposure to low dose*

radiation in diagnostic imaging and interventional radiology (risk/benefit from both an individual and a societal perspective)|- idem for high dose exposures in radiotherapy settings, including risk of secondary cancers|- exposure to natural sources such as Rn and cosmic rays|- exposure of women of childbearing age (7-77y?), risks related to exposure of concepts, embryo, fetus|- incidental and accidental exposure situations (of any origin) |r

- *creating communication strategy for nuclear regulatory, publishing a scientific bulletin on nuclear safety and radiological protection, producing a short video on safety of nuclear power plants,*
- *Research into the relationship between news media coverage and the attitude towards nuclear energy.|- Research interests: framing, journalism studies, public campaign development, risk communication, crisis communication*
- *IPPA Project - Implementing public participation approaches ||PLATENSO - Building a platform for enhanced societal research related to nuclear energy in Central and Eastern Europe*
- *Consulting to Intergovernmental agencies such as IAEA and OECD/NEA. Consulting to private sector; clients include EFD, Areva, Swissnuclear, WorleyParsons, USNRC, Tractebel Engineering, Taisei Corporation, etc. Projects for NPPs include Akkuyu and Sinop (Turkey), Egypt, Poland, Jordan, Cernavoda, Krsko, French NPPs, Olkiluoto 3, Tsuruga NPP, Taiwan NPPs...*
- *Producing various public materials|Producing videos and website material on IR for public use|Various other projects*
- *It was presentations for public based on Environment Impact Assessment Report for proposed economic activity "Ignalina NPP Building V1 Equipment Decontamination and Dismantling", "Ignalina NPP Building 117/1 Equipment Decontamination and Dismantling".*
- *PLATENSO*
- *Essential part of our daily activities and training and education activities*
- *Technical training on the nuclear fuel cycle, including basic awareness courses with elements basic radiation physics, through to the supervision of PhDs in academic institutions. Also CBRN/Hazmat training for first responder organisations.*
- *Occasional promotion of nuclear safety research in general public| occasional comments and statements on the nuclear safety challenges and issues for media/general public*
- *Just some presentations on specific events like the "Festival of Hungarian Science"*
- *Maintaining organisation (SNSA) web page, where are relevant news:|- about daily news,|- about important issues in nuclear and radiation safety,|- about legislation||2 newsletters:|Radiation News (in Slovenian only: Sevalne novice)|News from Nuclear Slovenia*
- *Communication*
- *We recently conducted a series of interviews on the topic of ionising radiation and radiation protection, most notably with the head of the IRSN.*
- *Dedicated project: Eagle|Communication is inherent part of many R&D projects in EU context||Communication is aspect of some service contracts as well (e.g. in fields of radwaste management or emergency response)||In house research topics on stakeholder involvement, perception issues, communication,...*
- *PETRUS III EU Project*
- *Teaching IR interactions and dosimetry to bachelor and masters level students who major in physics or environmental engineering.*
- *Low and intermediate level nuclear waste repository siting.|Polish Nuclear Energy Programme*
- *23 Years of Chernobyl Humanitarian Assistance and recovery programme|Part of various National preparedness and response plans through National Red Cross and Red Crescent Societies|Japan Red Cross activities around GEJET and Fukushima Daiichi NPP Accident|Observer to IACRNE|Observer to OECD NEA WPNEM*
- *Project "School of the future" - preparation of textbook on the foundations of nucleonics*

- *INTERBLOK - Interdisciplinary program of teaching of block of items in mathematics, natural sciences and computer science in Middle School. |Co-financing by the European Union under the European Social Fund |2010-2014*
- *NTERBLOK - Interdisciplinary program of teaching of block of items in mathematics, natural sciences and computer science in Middle School. |Co-financing by the European Union under the European Social Fund |2010-2014*
- *The IPPA Project (Implementing Public Participation Approaches in Radioactive Waste Disposal)*
- *Organisation of open days for public on radioactive waste repository|- organisation of lectures regarding nuclear energy in local community|- dissemination of information to public on local fairs|- control of operation of local nuclear repository|*
- *Platenso*
- *research project: Media as a platform of deliberation on crucial problems of nuclear energy, wind farms and shale gas"*
- *Preparation of highlights on the Institute achievements for the website*
- *PlasTEP+ the extension phase of PlasTEP - Plasma for environment protection*
- *Nothing ongoing, excepting regular communication and information dissemination*
- *PLATENSO - Building a platform for enhanced societal research related to nuclear energy in Central and Eastern Europe (*
- *CRPPH Science and Values Programme*
- *Information on nuclear projects at the SCK to the spectators as they happen. |Information on nuclear incidents as they happen.*
- *EN-LITE (international project for strengthening energy literacy)*
- *positioning the low and medium radioactive waste dumps in Krško/Slovenia|monitoring of the operation of a nuclear power plant|positioning of the other environmentally burdensome facilities*
- *Nuclear energy in Slovenia*
- *Permanent presence in the field of nuclear safety since 1992. |- International cooperation with NGOs from France, Germany, Italy, Croatia.*
- *Monitoring of facilities using or storing nuclear residues in the countries of former Yugoslavia and Italy. Recent examples: | measurements of radioactivity in karst caves, which are stacked drums of suspicious content, as well as the old industrial*
- *Implementing Public Participation Approaches in Radioactive Waste |Disposal - IPPA, project under the Seventh Euratom Research and Training Framework Programme (FP7) on Nuclear Energy of the European Commission;|*
- *In a close contact with the implementer we are co-designing (the repository, a communication centre, a fund, several other projects) a low active waste repository in Mol/Dessel. |We have a strong and open communication with the implementer based on mutual trust. | |As a local partnership we make also strong efforts to inform the population of Mol about various nuclear news (+ and -), here fore we use all kinds of information (print, social media, hearings,...)*
- *The Radioactive Waste Management Directorate (RWMD) is part of the NDA (Nuclear Decommissioning Authority) and is engaged in supporting the UK Government Managing Radioactive Waste Safely project. The aim is that through a volunteerism process a potential site for geological disposal can be identified and characterised. Aims include: to raise awareness about higher activity radioactive waste/ionising radiation, especially the members of a local community that might be considering hosting a repository so that we can safely dispose of the higher activity radioactive waste in the UK.*

Ad vi: Types of knowledge and skills related to communication about ionising radiation as needed for them (Figure 8)



Ad vi: Stakeholders were asked in which way they prefer to be involved in the EAGLE project

- 73 stakeholders marked that they want to become a member of the EAGLE Stakeholder Network and be well informed about project activities and outcomes.
- 56 stakeholders marked that they want to become a member of the Stakeholder Consultation Group – to be well informed and to actively participate in the dialogue among stakeholders and EAGLE partners.