

## 6<sup>th</sup> EUTERP Workshop 2015

Legislative change in Europe: the implications for training in radiation protection - rising to the challenge.

From 30 September to 2 October 2015 in Athens, Greece

### Capacity building and transfer of know-how in radiation protection. Dissemination of ENETRAP projects results

**Authors:** C Llorente<sup>1</sup>, M Marco<sup>1</sup>, M Schouwenburg<sup>2</sup>, H van Elsäcker-Degenaar<sup>3</sup>, P Livolsi<sup>4</sup>, P Massiot<sup>4</sup>, M Coeck<sup>5</sup>

<sup>1</sup>CIEMAT, Madrid, Spain <sup>2</sup>TU Delft, Delft, The Netherlands <sup>3</sup>NRG Consultancy & Services, Petten, The Netherlands <sup>4</sup>CEA-INSTN, Grenoble, France <sup>5</sup>SCK•CEN, Brussels, Belgium

## Introduction

In the last years there have been an increment in the use of the IR:

- medicine,
- industry,
- research

CHALLENGE  
FOR  
SOCIETY

Maintain an adequate level of knowledge, skills & competencies in PR

- through education and training
- to protect EWs, the public and the environment from the potential risks involved in IR



The EU has been founded the projects:



**ENETRAP & ENETRAP II-III**  
**(European Network for Education and Training in Radiation Protection)**

## Introduction

**The ENETRAP projects**, since the stating of the first edition in 2005 till nowadays, ENETRAP III, always have had **the objective**:

- to maintain a **high level of competence in radiation protection (RP)**,
- assuring the continued development of suitable **well-trained personnel**
- adequate **knowledge management**.



This objective is crucial to ensure future **safe use of ionizing radiation** and the **development of new technologies in a safe way** in line with EU policies on Education & Capacity Building.

## Introduction

### The ENETRAP III-WP5 commitment is:

- the dissemination of the activities and results of the series of projects ENETRAP, via:
  - **(i) a website** and
  - **(ii) a project event.**



In order **to bring together the information that is currently spread** over several websites and other carriers, and **promote the EUTERP community** improving the **EUTERP website** to become a **capacity building and transfer of know-how in RP**-tool.

**Task 1. Improving the EUTERP WEBSITE**

**Task 2. Organization of an open project workshop**

## Objectives

The first WP5 objective is to contribute to improve the EUTERP website:



- ✓ Electronic platform where all relevant information on E&T in RP could be found: **to preserve the results of ENETRAP projects**
- ✓ Increase awareness & visibility of existing E&T resources for RP: **↑ the efficiency of RP initiatives**
- ✓ Providing a better understanding on where & which E&T actions are currently missing: **opens the door for new opportunities.**
- ✓ To enable access to learning materials & useful information around E&T: **entry to a big amount of knowledge.**
- ✓ Providing support to E&T providers to improve the quality & increase the visibility of their courses: **data base of RP E&T events and providers**
- ✓ Combine all relevant available information on E&T in RP and offer them to the stakeholders in **one coherent way: Complete source of information on E&T in PR**

**EUTERP website will become a capacity building and transfer of know-how in RP tool**

## Objectives

**The second WP5 objective is: to organize an open project workshop**

### Events related to E&T in radiation protection:

- 2015: 30 September – 2 October, EUTERP Workshop: "Legislative change in Europe: the implications for training in RP- Rising to the challenge"
- **2016: ENETRAP III dissemination event**
- 2017: ETRAP international conference



- **2016-MADRID.** Organization of an open project workshop:
  - To present the obtained project results and
  - To identify potential future initiatives involving all parties concerned.

## Capacity building & transfer of know-how in RP- tool: STARTING POINT.

With the aim of identify the main aspects must be included in the proposal of design for **the EUTERP Capacity Building platform**, the next tasks has been done:

- Revision of the ENETRAP & ENETRAP II **projects results** and the **expected results** for ENETRAP III.
- Search & analysis of the structure of different **transparency platforms delivering a capacity building strategy**, belonging of entities of recognized prestige.



## Capacity Building (CB) in ENETRAP context

CB is an strategy based on a consensus on common needs, the vision and instruments for research and training in RP matters.

❏ to create and transfer **knowledge**

And to develop

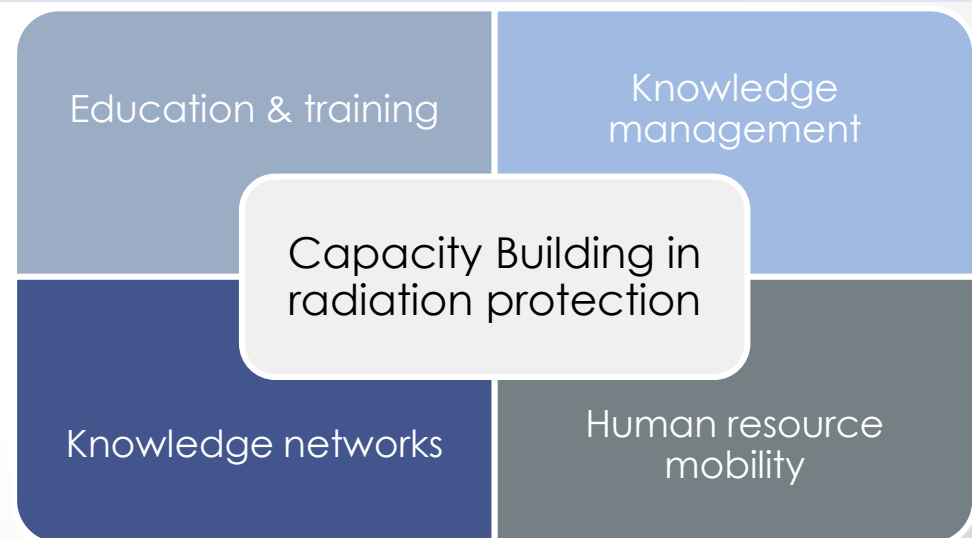
❏ **skills and**

❏ **competencies**

- Of the individuals, organizations and countries,
- to protect workers, the public and the environment from the potential risks of ionizing radiation, today and in the future.

**This approach is in line with the  
Europe 2020 strategy**

This strategy must consider  
different aspects:



Capacity Building  
remains a major  
support **to safety  
improvement.**

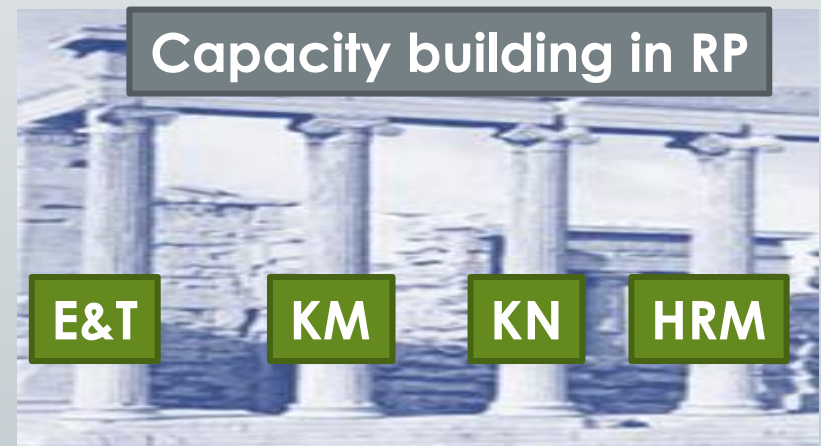
## Capacity building in ENETRAP: Pillars

**Education and training (E&T):** is the **critical** element to **create capacities** & prevent the decline in expertise to meet the future demands. Is the main pillar of ENETRAP-projects.

**Knowledge Management (KM):** deals with the **process** of creation, organization, storage, preservation, transference & utilization of **knowledge**.

**Knowledge Networks (KN):** are related with the **social interaction** between the **actors** involved in the **RP Knowledge** (**experts, regulators, E&T providers, students, young & senior professionals, stakeholders,..**) to have communication, share ideas, participate in constructive debates to lead to a better understanding on where & which E&T actions are currently missing.

**Human Resource Mobility (HRM):** easiness of the exchange of workers across the national borders, developing a **common high-level safety & RP culture**, supported by the EU training policy. The instruments for borderless mobility are the **lifelong learning** strategy and the **mutual recognition** of the RPE status between Member States.



# Revision of the ENETRAP-projects results

## ENETRAP RESULTS

Deliverable	Title	WP
WD.011	Composition and working procedure of the ENETRAP-SC	WP1.Implementation and co-ordination of ENETRAP
WD.02	Proposal of the ERASMUS Universities Consortium	WP8.Establishment of an Erasmus Universities Consortium for developing an European Master in Radiation Protection (EMRP)
WD.03	IAEA, EU and local requirements for RP E&T	WP6.Review of the scientific content of adjustment to European requirements
WD.04	Report on Training needs and capabilities	WP2.Assessment of training needs and capabilities of Member, the New Member States and the
WD.05	Report on the lessons learnt from On the Job Training	WP4.On-the-Job Training (OJT) implementation
WD.06	Table of contents of the Pilot Session in RP Training	WP7.Validation of the n ERPC and run of one of
WD.07	Recognition of the RP Training : Recommendations to EU	WP3.Recognition of con
WD.08	Report on available tools for RP Training	WP5.New concepts and
WD.09 <sup>2</sup>	Report on the first pilot session in RP Training	WP7.Validation of the n ERPC and run of one of

## ENETRAP II RESULTS

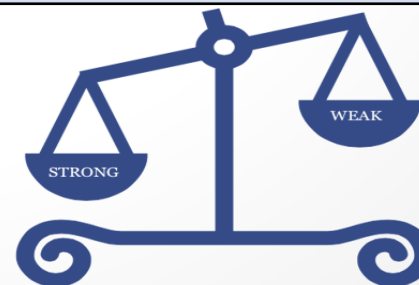
WP&WD	Title
WP1 <sup>1</sup>	Co-ordination of the project
WD1.1	Organisation of kick-off meeting and project presentation
WD1.2	Establishment of the Advisory Board
WD1.3	Project reports
WD1.4	Project website structure
WD1.5	Regular updates of the website
WP2	Define requirements and methodology for recognition of RPEs
WD2.1	Report on requirements for RPE
WD2.2	Methodology for recognition of RPE
WP3	Define requirements for RPO competencies and establish guidance for appropriate RPO training
WD3.1	Report on requirements for the RPOs
WD3.2	Report on European reference standards for RPO training
WP4	Establish the reference standard for RPE training
WD4.1	Statement of initial and refresher training requirements for RPE
WD4.2	Reference standards for RPE training
WP5	Development and apply mechanisms for the evaluation of training material, events and providers
WD5.1	Methodology and quality assurance protocol for comparison and evaluation of training material
WD5.2	Methodology and quality assurance protocol for comparison and of training events
WD5.3	Methodology and quality assurance protocol for comparison and evaluation of training providers
WD5.4	Application of the defined mechanisms to some examples of training material, providers and events
WP6	Create a database of training events and training providers (including OJT) conforming to the agreed standard
WD6.1	Report on training events and training providers conforming to the agreed standard
WD6.2	EU wide Data Base of training events and training providers on RP
WP7	Develop of some course material examples (text book, e-learning modules, ...)
WD7.1	Accompanying text for at least one module of the RPE or the RPO training scheme.
WD7.2	Development of modern learning tools (e-learning) for the RPE or RPO training.
WP8	Organise pilot sessions, test proposed methodologies and monitor the training scheme effectiveness
WD8.1	Organisation of pilot sessions
WD8.2	Report on effectiveness of the training scheme or module
WP9 <sup>2</sup>	Introduction of the training passport and mutual recognition system of RPEs
WD9.1	Framework and procedure for mutual recognition of RPE qualification
WD9.2	Report on the test phase of the mutual recognition procedure
WD9.3	Prototype of European Training Passport and report on its acceptance by stakeholders in the EU
WP10 <sup>2</sup>	Collaboration for building new innovative generations of specialists in radiation protection
WD10	Report on national initiatives and European approach to attract early-stage radiation protection researchers

## EXPECTED ENETRAP III RESULTS

Nº	Deliverable name
WP1	<b>Project coordination</b>
D 1.1	Organising kick-off and subsequent Steering Committee meetings, preparing the agenda and writing the minutes of the meetings
D 1.2	Establishment of a Steering Committee and describing working program
D 1.3	Setting up a Consortium Agreement
D 1.4	Writing the Project Presentation
D 1.5	Writing the Communication Action Plan
D 1.6	Project reporting: intermediate project report, final report
D 1.7	Launch of project website
WP2	<b>Organisation of "think-tank" activities and establishment of partnerships ensuring feedback from stakeholders</b>
D 2.1	Establishment of a Consultancy Group consisting of representatives of relevant stakeholders in E&T in RP, and describing the working programme (= tasks of the CG, composition and setting up meeting schedule)
D 2.2	Organisation of information exchange and CG meetings
WP3	<b>Establishment of three specialized training modules for RPE and implementation of pilot sessions</b>
D 3.1	For each module: determine the learning outcomes, develop the programme and the course requirements
D 3.2	Organise a pilot session of the specialized module for RPE in geological disposal
D 3.3	Organise a pilot session of the specialized module for RPE in NPP
D 3.4	Organise a pilot session of the specialized module for RPE in medical
D 3.5	Report on effectiveness of the training, the endorsement process and the feedback from the stakeholders
WP4	<b>Development of a train-the-trainer (TTT) strategy and organisation of a TTT training event</b>
D 4.1	Development of the curriculum and course material
D 4.2	Organisation of pilot session
D 4.3	Evaluation of the pilot sessions and proposal of the final TTT event
WP5	<b>Dissemination of project results and contribution to a website for capacity building and transfer of know-how in radiation protection</b>
D 5.1	Report on website structure, requisites and functional analysis
D 5.2	Set up website structure and launch
D 5.3	Organisation of an open project workshop
WP6	<b>Testing of methodologies for RPE recognition and mutual recognition in practice</b>
D 6.1	Report documenting the outcome of liaison with HERCA with respect to the proposed methodologies
D 6.4	Report on the outcome of the trial of national RPE Recognition Scheme
D 6.5	Report on the outcome of the trial of Mutual Recognition of RPEs
WP7	<b>Writing of guidance to support the implementation of E&amp;T requirements for RPE and RPO as defined in the EURATOM BSS</b>
D 7.1	Guidance document to support the implementation of E&T requirements for RPE
D 7.2	Guidance document to support the implementation of E&T requirements for RPO

# Analysis of the structure of different platforms of transparency delivering a CB strategy

NAME	DESCRIPTION
<b>Spanish Ionizing Radiation Portal</b>	A CIEMAT initiative of the past. The main objective of this portal is to be a <b>point of reference in the field of ionizing radiation</b> (Applications, measurement, Radiation effects, RP and radioactive waste). Is aimed at researchers and industry experts, stakeholders: industry, political, media and people who need seek some type of information. The information included: courses information, providers, legislation, news, calls, workshops, I+D projects, publications, links... <a href="http://www.ionizantes.ciemat.es/">http://www.ionizantes.ciemat.es/</a>
<b>IRELP</b>	Acronym of IRENA (International Renewable Energy Agency) Renewable Energy Learning Partnership. There is a critical shortage of skilled personnel to develop, design, finance, build, operate and maintain renewable energy projects. This shortage represents one of the greatest barriers to the wider diffusion of renewable energy technologies. <b>Developing a robust and highly skilled labour pool is the central motivator behind IRELP.</b> <a href="http://irelp.irena.org/home">http://irelp.irena.org/home</a>
<b>ENEN</b>	European Nuclear Education Network. <b>The mission of ENEN is the preservation and the further development of expertise in the nuclear fields</b> by higher Education and Training through the co-operation between universities, research organisations, regulatory bodies, the industry and any others involved in the application of nuclear science and ionising radiation. <a href="http://www.enen-assoc.org/">http://www.enen-assoc.org/</a>
<b>CEIDEN</b>	Spanish Nuclear Fission Energy Technology Platform. Aims to coordinate different Spanish organizations of all fields of nuclear R&D to participate in different plans, national R & D and international programs, seeking guidance consistently efforts the entities involved. <a href="http://ceiden.com/">http://ceiden.com/</a>
<b>MAGHRENOV</b>	<b>EU and Maghreb working together on capacity building and business innovation in sustainable energy.</b> MAGHRENOV aims to support innovation in the Renewable Energy & Energy Efficiency (RE&EE) sector in the Mediterranean basin. The Consortium brings together partners from Europe and MAGHREB countries, whose shared goal is to establish a common Euro-Mediterranean innovation space. <a href="http://Maghrenov.Eu/">http://Maghrenov.Eu/</a>



## Current EUTERP website.

<http://www.euterp.eu>



The screenshot shows the EUTERP website homepage. At the top, there is a navigation bar with links: Home, About EUTERP, Associated members, National information, Resources, Linked projects and networks, and Events and courses. The main content area is divided into several sections: Welcome to the homepage, Objectives of the EUTERP Foundation, Education and training of Radiation Protection Experts (RPEs) and Radiation Protection Officers (RPOs), National contact points (NCPs) and Associates, and Our Associates. The 'Our Associates' section features logos for SCK•CEN, TU Delft, EFOMP, and ISAEC. A sidebar on the right contains 'News' and 'Upcoming events' sections. The footer includes a 'Sitemap' and copyright information.

- **Recently remodeled (2014)!!**
- This web already includes some of the ideas of the WP5
  - Basic information of the ENTRAP projects
  - Links to the most important networks & projects
  - Including a small database of E&T events
  - Including information and links to the most important E&T workshops
  - Including resources (Relevant legislation, qualification framework, paper and presentation and glossary)
- Including a newsletter
- National Contact Points//National Pages

## Current EUTERP website.

### About EUTERP

Background of EUTERP

Board

Newsletters

Contact

Subscribe to newsletter

### Associated members

Current associates

Benefits

How to join

### National information

National Pages

National Contact Points

### Resources

Relevant legislation

Qualification framework

Papers and presentations

Glossary

### Linked projects & networks

Enetrap projects

Other projects

Related Networks

### Events and courses

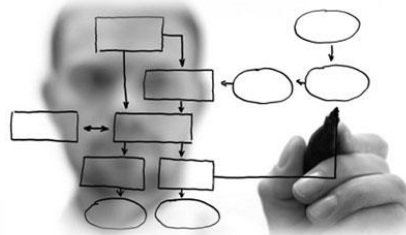
EUTERP Workshops

ETRAP Conferences

Related Events

Courses in Radiation Protection

Related courses



#### Sitemap

##### About EUTERP

Background of EUTERP  
Board  
Newsletters  
Contact  
Subscribe to newsletter

##### Associated members

Current Associates  
Benefits  
How to join

##### National Information

National pages  
National Contact Points (NCP)  
Qualification frameworks  
Papers and presentations  
Glossary

##### Resources

Relevant legislation  
Qualification frameworks  
Papers and presentations  
Glossary

##### Linked projects and networks

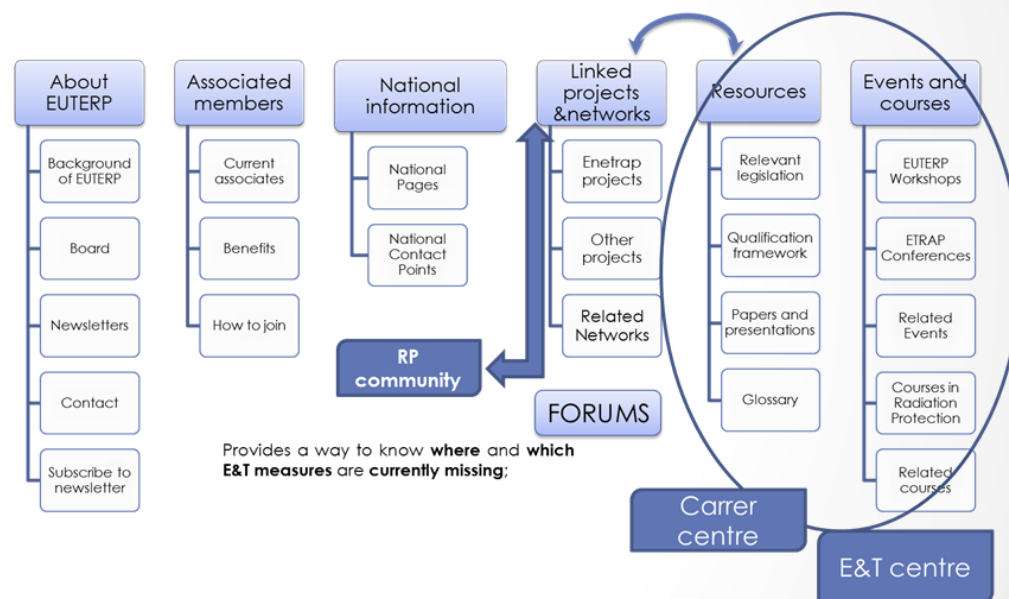
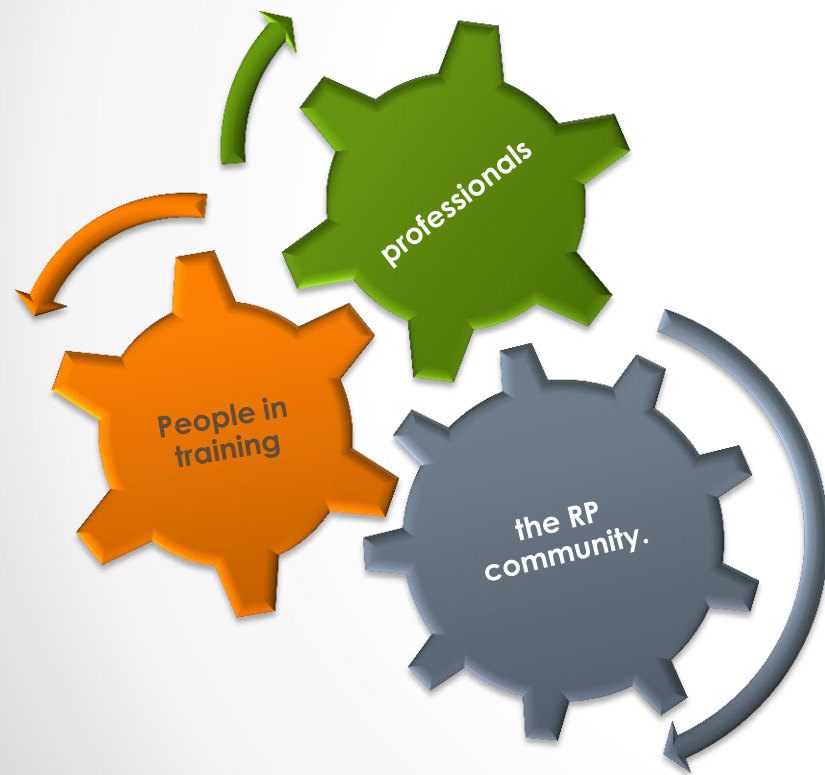
ENETRAP projects  
Other projects  
Related Networks

##### Events and courses

EUTERP Workshops  
ETRAP Conferences  
Related events  
Courses in radiation protection  
Related courses

# WP5 proposal for EUTERP Capacity Building platform.

PROPOSAL: to organize the information of the website around **3 concepts**



**“Resources”**



**“Carrer centre”**

**“Events and courses”**



**“Education & Training centre”**

**“Linked projects & networks”**



**“Radiation Protection Community”**

# WP5 proposal for EUTERP Capacity Building platform.

## About EUTERP

Background of EUTERP

Board

Newsletters

Contact

Subscribe to newsletter

## Associated members

Current associates

Benefits

How to join

## National information

National Pages

National Contact Points



## Career centre

Relevant legislation

Qualification framework

Professional workshops, conferences

Opportunities

## E&T Centre

E&T Data base

Resources for educators: TTT

Training guides & manuals

Library

## RP community

Enetrapp projects

Other projects

Related Networks

Glossary

FORUMS

### Sitemap

About EUTERP  
Background of EUTERP  
Board  
Newsletters  
Contact  
Subscribe to newsletter

Associated members  
Current Associates  
Benefits  
How to join

National Information  
National pages  
National Contact Points (NCP)

Resources  
Relevant legislation  
Qualification frameworks  
Papers and presentations  
Glossary

Linked projects and networks  
ENETRAP projects  
Other projects  
Related Networks

Events and courses  
EUTERP Workshops  
ETRAP Conferences  
Related events  
Courses in radiation protection  
Related courses

## Functional analysis: **1.CAREER CENTER**

This block is envisaged containing all the information related with the professionals of RP and its career.



### 1.Relevant Legislation



### 2.European Qualification Framework

- ECVET
- EQF
- EQAVET
- ECTS
- CAREER PROFILES



### 3.Professional workshops, meetings & conferences

- EUTERP workshops
- ETRAP conferences
- RP conferences.
- Presentations & papers



### 4.Opportunities

- On the Job Training
- Internships
- Job opportunities

# Functional analysis: 1.CAREER CENTER



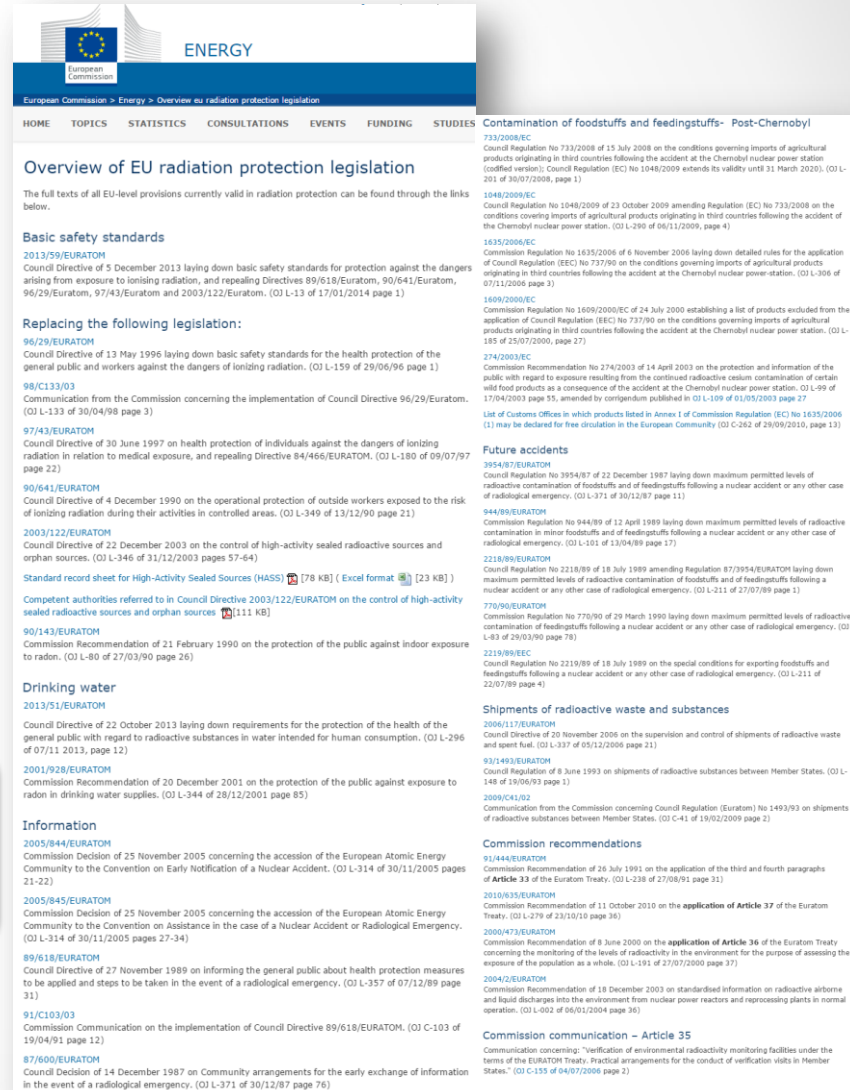
## 1. Relevant Legislation

### European Union:

- Euratom Basic Safety Standards: Council Directive 2013/59/EURATOM
- All the legislation of the EU related with the RP is grouped in the web of the EC: <https://ec.europa.eu/energy/node/1219>.

### International Atomic Energy Agency:

- 2014. "International Basic Safety Standards"



The screenshot displays the 'ENERGY' section of the European Commission website, specifically the 'Overview of EU radiation protection legislation' page. The page lists various legislative acts related to radiation protection, including Council Directives and Commission Regulations. Key entries include:

- Contamination of foodstuffs and feedingstuffs- Post-Chernobyl:** Council Regulation No 733/2008 of 15 July 2008 on the conditions governing imports of agricultural products originating in third countries following the accident at the Chernobyl nuclear power station.
- Basic safety standards:** Council Directive of 5 December 2013 laying down basic safety standards for protection against the dangers arising from exposure to ionising radiation, and repealing Directives 89/618/Euratom, 90/641/Euratom, 96/29/Euratom, 97/43/Euratom and 2003/122/Euratom.
- Replacing the following legislation:** Council Directive of 13 May 1996 laying down basic safety standards for the health protection of the general public and workers against the dangers of ionising radiation.
- Future accidents:** Council Regulation No 3954/87 of 22 December 1987 laying down maximum permitted levels of radioactive contamination of foodstuffs and of feedingstuffs following a nuclear accident or any other case of radiological emergency.
- Drinking water:** Council Directive of 22 October 2013 laying down requirements for the protection of the health of the general public with regard to radioactive substances in water intended for human consumption.
- Information:** Commission Decision of 25 November 2005 concerning the accession of the European Atomic Energy Community to the Convention on Early Notification of a Nuclear Accident.

## Functional analysis: **1.CAREER CENTER**



### 2. European Qualification Framework

- **ECVET**: European Credit system for Vocational Education and Training
- **EQF**: European Qualifications Framework
- **EQAVET**: European Quality Assurance in Vocational Education and Training
- **ECTS**: European Credit Transfer and Accumulation System
- **CAREER PROFILES**



**PROPOSAL:** extend this block with “**Career profiles**”

This item can be completed with more information later. For the moment it is proposed to include all the information already available, related with the different **RP career profiles**:

1. RP Career profiles in the EU legislation
2. RP Career profiles in ENETRAP; RPE & RPO:
3. Career profile of the MPE & the medical professionals involved with the IR.
4. Career profile in the Nuclear Sector
5. Promotion of RP culture between the RP professionals

## Functional analysis: 1.CAREER CENTER



### 3. Professional workshops, meetings & conferences

- Reorganization and extension of “EUTERP workshops” & “ETRAP conferences” items.
  - links to the portals of the events and to the relevant **presentations** or to the “**proceedings**”.
  - A section for **EUTERP presentations and papers**, included the current section “Papers and presentations”



### 4. Opportunities



Under this title, are proposed to include:

- On the Job Training (OJT),
- Internships and
- Job opportunities.

These items can be connected with the database, and completed by the organizations and entities who want to offer their “**opportunities**”.

## Functional analysis: 2. E&T CENTER

This block is envisaged containing all the information related with the students at all stages and young professionals in training, as well as resources for trainers.



### 1. Education & Training database

- E&T courses
- Degrees
- PhD topics
- Masters
- E&T Providers



### 2. Resources for educators TTT



### 3. Training guides & manuals



### 4. Library

## Functional analysis: **2. E&T CENTER**



### 1. Education & Training database

- The current database on the EUTERP website is being extended to be a working, quite complete and easy to use database.
- This DB will be connected with the IAEA new development database "Integrated database for nuclear education and training"
  - <https://nucleareducationdb.org/>

- E&T courses
- Degrees
- PhD topics
- Masters
- E&T Providers

Oriented for the RPE, RPO and the EW, initial, retraining and specialization in any kind of areas of RP.



**Integrated Database on  
NUCLEAR EDUCATION AND TRAINING**

Home System Access English Spanish

#### Networking Nuclear Education

The integrated database for nuclear education and training includes information and data gathered from and provided by organisations which are members of Nuclear Education Networks from different regions, such as Africa (AFRA-NEST), Asia (ANENT), and Latin America (LANENT), fostered by the IAEA. The data presented in this database are provided by such organisations. The entities and institutions in charge of sharing such data are exclusively responsible for the information published in the database (See Terms and Conditions).

This database is a useful tool for students, teachers, professionals, and general public interested in obtaining information related to the nuclear field:

- » Training courses seminars, workshops, etc.
- » Undergraduate careers dedicated to the nuclear field.
- » Degrees University graduate and postgraduate courses, specializations, and other first degrees or diplomas.
- » Postgraduate careers dedicated to the nuclear field.
- » PhD topics offered in nuclear science and technology.
- » Opportunities Jobs, fellowships, internships, cooperation, etc.
- » Educational material related to nuclear science and technology.
- » A list of organizations which are Member Institutions of the educational networks, providing education and/or training services.

You are kindly invited to explore the nuclear education world using this database searching capability!

**DATABASE Search!**

**IAEA**  
International Atomic Energy Agency

The Nuclear Educational Networks and this website were established with the assistance of the IAEA.

**AFRA-NEST** **ANENT** **LANENT** **IAEA**

## Functional analysis: 2. E&T CENTER



### 2. Resources for educators TTT

Related with the **competence and suitability of the RP trainers.**

- ENETRAP III is developing a *train-the-trainer (TTT) strategy* and a *TTT event*,
- Promoting the ECVET concepts and
- Giving attention to the challenges involved in teaching topics that have a significant societal impact.



### 3. Training guides& manuals

Information & documentation related with syllabus, recommendations, as well as teaching material usable by students, teachers,...

Include information of reference text books used for E&T in RP:

- Ex: “**European Radiation Protection Course: Basics**”  
Authors: P. Massiot and C. Jimonet, developed in the framework of ENETRAP II.

[https://books.google.es/books?id=o2n0AwAAQBAJ&hl=es&source=gbs\\_slider\\_cls\\_metadata\\_9\\_mylibrary](https://books.google.es/books?id=o2n0AwAAQBAJ&hl=es&source=gbs_slider_cls_metadata_9_mylibrary)



### 4. Library



## Functional analysis: 3. RP COMMUNITY

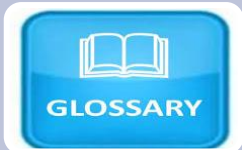
This block is envisaged containing information & utilities to create an active **virtual community**, where the interchange of ideas provides a better understanding on where & which E&T actions are currently missing



1. ENETRAP projects



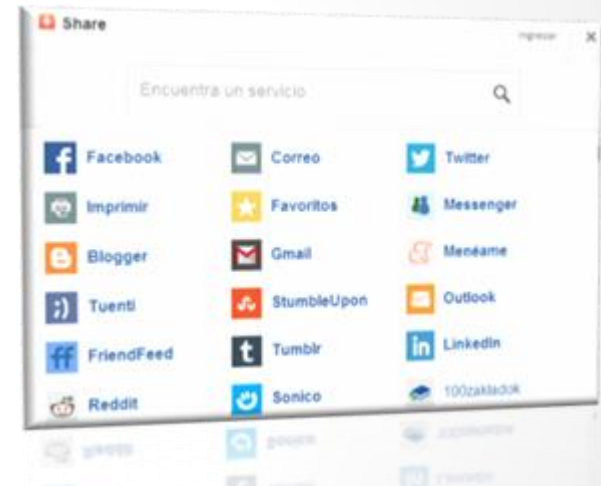
2. Other projects & related networks



3. Glossary



4. Forums



**“Share-icon”:** Transversal functionality of all the web portal, in order to promote the visibility of the information included inside.

# Functional analysis: 3. RP COMMUNITY

## ENETRAP RESULTS

Deliverable	Title	WP
WD-01	Comparison and working procedure of the ENETRAP-AG	WP1 Implementation and co-ordination of ENETRAP
WD-02	Proposal of the ERASMUS Universities Consortium	WP8 Establishment of an Erasmus Universities Consortium for developing an European Master in Radiation Protection (EMRP)
WD-03	IAEA, EU and local requirements for RP E&T	WP6 Review of the scientific content of IAEA E&T modules and adjustment to European requirements
WD-04	Report on Training needs and capabilities	WP2 Assessment of training needs and capabilities within the Member, the New Member States and the Candidate State
WD-05	Report on the lessons learnt from On the Job Training	WP4 On-the-job Training (OJT) programs
WD-06	Table of contents of the Pilot Session in RP Training	WP7 Validation of the results, revision of some modules of the E&T and run-off one or two revised modules
WD-07	Recognition of the RP Training Recommendations to EU	WP3 Recognition of competencies and diplomas
WD-08	Report on available tools for RP Training	WP5 New concepts and new tools for the E&T
WD-09	Report on the first pilot session in RP Training	WP7 Validation of the results, revision of some modules of the E&T and run-off one or two revised modules

## ENETRAP II RESULTS

WP/ID	Title
WP1	Co-ordination of the project
WP1.1	Organisation of kick-off meeting and project presentation
WP1.2	Establishment of the Advisory Board
WP1.3	Project reports
WP1.4	Project website
WP1.5	Regular updates of the website
WP2	Define requirements and methodologies for recognition of RPEs
WP2.1	Report on requirements for RPE
WP2.2	Methodology for recognition of RPE
WP2.3	Define requirements for RPO competencies and establish guidelines for appropriate RPO levels
WP2.4	Report on requirements for the RPOs
WP2.5	Report on European reference standards for RPO training
WP2.6	Establish the reference standard for RPE training
WP2.7	Statement of initial and refresher training requirements for RPE
WP2.8	Reference standards for RPE training
WP3	Development and apply mechanisms for the evaluation of training material, events and process
WP3.1	Methodology and quality assurance protocol for comparison and evaluation of training material
WP3.2	Methodology and quality assurance protocol for comparison and evaluation of training events
WP3.3	Methodology and quality assurance protocol for comparison and evaluation of training process
WP3.4	Application of the defined mechanisms to some examples of training material, providers and events
WP4	Create a database of training events and training providers (including OJT) conforming to the agreed standard
WP4.1	Report on training events and training providers conforming to the agreed standard
WP4.2	EU wide On-the-job training events and training providers on RP
WP5	Developing of some course material examples (text book, a training modules, ...)
WP5.1	Accompanying text for at least one module of the RPE or the RPO training scheme
WP5.2	Development of modern training material learning for the RPE or RPO training
WP6	Organise pilot sessions, test proposed methodologies and monitor the training scheme effectiveness
WP6.1	Organisation of pilot sessions
WP6.2	Report on effectiveness of the training scheme on module
WP7	Implementation of the training concept and mutual recognition system of RPEs
WP7.1	Prerequisites and procedures for mutual recognition of RPE qualifications
WP7.2	Report on the progress of the mutual recognition procedures
WP7.3	Progress of European Training Forum and report on its documents to stakeholders in the EU
WP7.4	Collaboration for building new innovative generations of specialists in radiation protection
WP7.5	Report on national legislation and European system to protect background radiation protection

## EXPECTED ENETRAP III RESULTS

WP/ID	Deliverable name
WP1	Project coordination
D1.1	Organising kick-off and subsequent Steering Committee meetings, preparing the agenda and writing the minutes of the meetings
D1.2	Establishment of a Steering Committee and describing working program
D1.3	Setting up a Consortium Agreement
D1.4	Writing the Project Presentation
D1.5	Writing the Communication Action Plan
D1.6	Project reporting: intermediate project report, final report
D1.7	Launch of project website
WP2	Organisation of "think-tank" activities and establishment of partnerships ensuring feedback from stakeholders
D2.1	Establishment of a Consultancy Group consisting of representatives of relevant stakeholders in E&T in RP, and describing the working programme (+ tasks of the CG, composition and setting up meeting schedule)
D2.2	Organisation of information exchange and CG meetings
WP3	Establishment of three specialized training modules for RPE and implementation of pilot sessions
D3.1	For each module: determine the learning outcomes, develop the programme and the course requirements
D3.2	Organise a pilot session of the specialized module for RPE in geological disposal
D3.3	Organise a pilot session of the specialized module for RPE in NPP
D3.4	Organise a pilot session of the specialized module for RPE in medical
D3.5	Report on effectiveness of the training, the endorsement process and the feedback from the stakeholders
WP4	Development of a train-the-trainer (TTT) strategy and organisation of a TTT training event
D4.1	Development of the curriculum and course material
D4.2	Organisation of pilot session
D4.3	Evaluation of the pilot sessions and proposal of the final TTT event
WP5	Dissemination of project results and contribution to a website for capacity building and transfer of know-how in radiation protection
D5.1	Report on website structure, requisites and functional analysis
D5.2	Set up website structure and launch
D5.3	Organisation of an open project workshop
WP6	Testing of methodologies for RPE recognition and mutual recognition in practice
D6.1	Report documenting the outcome of factors with HENCA with respect to the proposed methodologies
D6.2	Report on the outcome of the trial of national RPE Recognition Scheme
D6.3	Report on the outcome of the trial of Mutual Recognition of RPEs
WP7	Writing of guidance to support the implementation of E&T requirements for RPE and RPO as defined in the EURATOM SIS
D7.1	Guidance document to support the implementation of E&T requirements for RPE
D7.2	Guidance document to support the implementation of E&T requirements for RPO



## 1. ENETRAP projects

It is proposed to extend the current information (one section/project) with the **tables of results** including **links to the documents in pdf**.

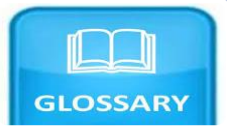


## 2. Other projects & related networks

Description of different **projects** financed by the EU & **networks**, mainly European, which work in different aspects and applications of IR.

Projects:	Related Networks:
<ul style="list-style-type: none"> <li>EUTEMPE-RX</li> <li>TRASNUSAFE</li> <li>NUSHARE</li> <li>PETRUS</li> <li>GENTLE</li> <li>CINCH</li> <li>MEDRAPET</li> </ul>	<ul style="list-style-type: none"> <li>IRPA</li> <li>ENEN Association</li> <li>MELODI</li> <li>NERIS</li> <li>ALLIANCE</li> <li>EURADOS</li> <li>EAN</li> <li>EMAN</li> <li>EFOMP</li> </ul>

## Functional analysis: 3. RP COMMUNITY



### 3. Glossary

- Alphabetical list of **terms & acronyms** with their explanations, appearing in the site.
- Are related with the RP, the E&T and the concepts introduced by the European framework for the Vocational E&T.
- It is proposed to maintain the current information and actualize it with the new definitions that can appear.



### 4. Forums



- A features of the first EUTERP portal that was chosen to let it out for that moment.
- With the **new concept for the EUTERP portal as transparency platform of knowledge**, this subject can be assessed again
- to provide a tool for the community to **open & participate in discussions** about the RP matters.

## Conclusions.

- A big effort & lot of work has been done in the **10 years of ENETRAP projects**, including the new definitions for **RPE, RPO & MPE** in the EURATOM-BSS.
- The MISSION of the ENETRAP III-WP5 is **to preserve & disseminate** the results of the 3 projects, **bring together** valuable information dispersed, & **promote the EUTERP community**.
- The INSTRUMENTS to achieve the WP5 objectives are:
  - ❏ to improve the **EUTERP website** to become a transparency platforms, delivering a RP capacity building strategy and
  - ❏ to organize an **open project workshop** (Madrid-2016)
- The DESIGN of the EUTERP CB platform structure has been done after:
  - ❏ A deep **reflection** on EURATOM research, innovation & education strategy that supports the H2020 program.
  - ❏ A **study of other webs** of entities of recognize prestige delivering a CB strategy (strengths and weakness)
  - ❏ The revision of the **ENETRAP project results**.
- The portal FUNCTIONAL DESIGN encompass all the information around 3 concepts:
  - ❏ **the professionals, the people in training & the RP community**.
- At this moment the technical developments are being done.



