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ENETRAP II database for
training events and providers



EUTERP

Creation and use of the ENETRAP II database for training events and providers

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EUTERP WORKSHOP
Cyprus 28 March 2011

instn

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Karlsruhe Institute of Technology

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European Nuclear Education Network



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training events and providers



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Introduction

1. Database Module

2. Maintenance Module

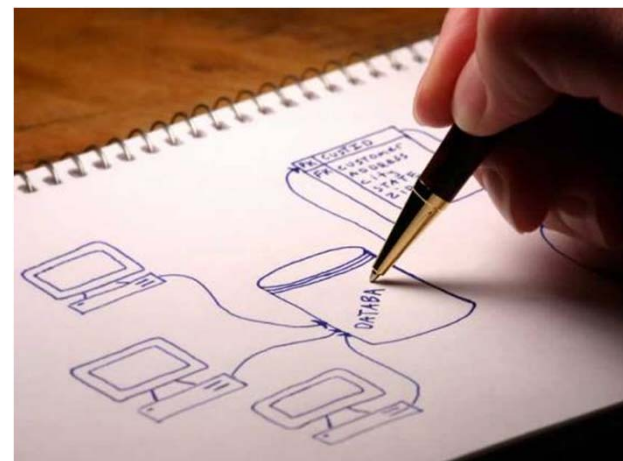
3. Web Search Module

Summary and conclusions

INTRODUCTION


The objective of the WP6
7FP project ENETRAP II, is:

- the creation of a **data base (DB)**
- to collect the **E&T events in RP in Europe**
- as well as the information about the **E&T providers**,
- including **On-the-Job-Training (OJT)** .



INTRODUCTION

- The DB will be the **instrument of support** of the project to indicate the **degree of conformity** with the **standards developed** (WP5) for the RPE and RPO E&T events.
- Has been analyzed the **E&T events** to be included in the DB:



to create a system of management and query of E&T events in RP and its providers, composed by three modules



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The main task of the WP6 is to create this DB of events to satisfy the next requirements:

- An **easily accessible DB**.
- To organize **the information** on training events, providers and OJT facilities.
- To **check the conformity** of events and providers to the agreed standards.
- To be a **self-supporting system** to update the DB.



Initially was proposed to use the ENEN DB
to store the information of the ENETRAP II

→ BUT the objectives of ENEN DB are different of the
ENETRAP II:

- The providers and the events organized by universities, don't need to pass an external QA protocol.
- The technical adaptation to the ENETRAP II needs is very complex
- Potential students in many cases are not related with the higher education in the nuclear areas → it's very difficult to include these people in the ENEN framework.



WP6 is developing a new DB to satisfy the particular ENETRAP II needs

This system will be composed by three modules:

WEB SEARCH MODULE: allows to the end users **looking for the information** (events & providers) through different criteria. This module is fed by the DATABASE MODULE

DATABASE MODULE: focused to store the information related to the providers & events. This module is managed by the MAINTENANCE

MAINTENANCE MODULE: allows

To maintain the information updated

To assign 3 different roles to update the information (providers, national contact points , and global coordinator)

To generate the needed notifications required by the different actors to be informed of the modifications

GLOBAL VISION OF USE



1. From the point of view of the end user

✓ Public Web access to the DB

- direct searches
- a search box
- a filtered search by criteria
- a search in a calendar

✓ Searches through different easy mechanisms

✓ The **categories** to be included in the DB are those involved in the ENETRAP II project:

E&T providers and **E&T events**

✓ E&T events

target audience:

- the RPE,
- the RPO
- the EW

kind of events:

- courses
- masters
- workshops
- opportunities

level of the event:

- initial training,
- refresh T
- Specialized T

GLOBAL VISION OF USE

2. From the point of view of the organization and coordination of the DE



the **key point** is the design of a good **management system**

MAINTENANCE MODULE



✓ To define different **roles** of access based on **3 levels of permission**:

- Providers,
- National Contact Points,
- Global coordinator/ administrator of the system.



✓ To allow **sharing the tasks** of the process between all the producers of the information.

✓ To have the **most actualized information** in the DB in a **self-sustainable system**

✓ To have the necessary **level of quality**

✓ to offer the best events to the users.

2. From the point of view of the organization and coordination of the DB

Role	Description of tasks
E&T provider (PROV)	<ul style="list-style-type: none"> Update the information related to their organizations. Create/disable E&T events of their institution Modify the information of those events
National Contact Point (NCP) 	<ul style="list-style-type: none"> Create/disable PROV in the system of their own country Modify the information of those PROV. Evaluate the conformity of the E&T events of the national PROV. All the tasks associated to the E&T Providers.
Global Coordinator (GC)	<ul style="list-style-type: none"> Create/disable NCPs in the system. Modify the information of the NCPs. All the tasks associated to the NCPs. 

1. DATABASE MODULE.

The information to be collected in the database will be:

RECORD
• E&T Events (EV)
• E&T Providers (PROV)

✓ The events will be destined to **RPE, RPO and EW.**

✓ belonging to different kind of **E&T programmes:**

- ✓ INITIAL,
- ✓ REFRESH,
- ✓ SPECIALIZED
- ✓ OJT

✓ **type event:**

- ✓ COURSES
- ✓ MASTERS,
- ✓ WORKSHOP,
- ✓ OPPORTUNITIES
(grants, PhD topics,
job offers)

✓ the **providers** can be:

- ✓ Institutions,
- ✓ Companies,
- ✓ Universities,
- ✓ Hospitals,
- ✓ Etc.





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E
train

Template for providers

In order to build a sustainable DB:
➤ **each PROV** will be recognized by the National Contact Point and included in the DB
➤ **each PROV** will include their training activities in the DB following a template



E&T Training provider	
Name	
Country	
Address	
Web	
Contact point	Name: _____ Department: _____ Email: _____ Tlf: _____ Fax: _____
Type of organization:	Public: <input type="checkbox"/> Private: <input type="checkbox"/>
Main activity:	
Areas of activity:	Nuclear Industry <input type="checkbox"/> Diagnostic Radiology <input type="checkbox"/> Nuclear Medicine <input type="checkbox"/> Radiotherapy <input type="checkbox"/> Research <input type="checkbox"/> Industrial Radiography <input type="checkbox"/> Irradiators and Accelerators <input type="checkbox"/> Gauging Techniques <input type="checkbox"/> Tracer Techniques <input type="checkbox"/> Norm <input type="checkbox"/> Radioactive Waste <input type="checkbox"/> Others: _____ <input type="checkbox"/>
Type of training events	Courses, <input type="checkbox"/> Masters <input type="checkbox"/> Workshops <input type="checkbox"/> Opportunities <input type="checkbox"/> Other: _____ <input type="checkbox"/>
Type of training programs:	RPE initial training <input type="checkbox"/> RPE refresh training <input type="checkbox"/> PRO initial training <input type="checkbox"/> RPO refresh training <input type="checkbox"/> Exposed Workers (EW) initial training <input type="checkbox"/> EW refresh training <input type="checkbox"/> Other: _____ <input type="checkbox"/> <i>Specialization, introduction to a new technique, ...</i> OJT facilities <input type="checkbox"/>
Evaluation mechanism:	Final exam <input type="checkbox"/> Continuous assessment <input type="checkbox"/> Final project <input type="checkbox"/> Others: _____ <input type="checkbox"/>
Certification	
National recognition:	<i>Regulatory body, Ministry of..., etc</i>
Quality assurance system:	
Labour exchange	Yes <input type="checkbox"/> No <input type="checkbox"/>



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**Common formulary
for all E&T events**



E&T event	
Title	
Application field	Nuclear Industry <input type="checkbox"/> Diagnostic Radiology <input type="checkbox"/> Nuclear Medicine <input type="checkbox"/> Radiotherapy <input type="checkbox"/> Research <input type="checkbox"/> Industrial Radiography <input type="checkbox"/> Irradiators and Accelerators <input type="checkbox"/> Gauging Techniques <input type="checkbox"/> Tracer Techniques <input type="checkbox"/> NORM <input type="checkbox"/> Radioactive Waste <input type="checkbox"/> Other: _____ <input type="checkbox"/>
Modality	Face to face, online, blended learning, distance learning
Venue	
Country	
Language	
Duration	Start date: _____ End date: _____
Call frequency	Annual, biannual, twice yearly, ...
National Recognition?	
Edition number	
Degree of conformity with the standards*	
*To be completed after the evaluation for the first edition published	
Target audience*	RPE <input type="checkbox"/> RPO <input type="checkbox"/> EW <input type="checkbox"/> All of them <input type="checkbox"/>
*compulsory field	
Type of training event?	Course <input type="checkbox"/> , Master <input type="checkbox"/> , Workshops <input type="checkbox"/> , Opportunity <input type="checkbox"/>
Type of E&T program?	Initial training <input type="checkbox"/> re-training <input type="checkbox"/> specialization <input type="checkbox"/> OJT <input type="checkbox"/>
Program details	Objective, topics, lecturers, material, work load, prerequisites, etc
Requirements to apply	Preliminary diploma, experience, etc
Tuition fee	
How to apply	
Deadline of application	
Training Provider	
OJT?	
For further information	Contact persons, website, etc
Name PDF 1	
Name PDF 2	

Template for E&T Events



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Both tables could be related
by the field E&T provider

E&T event	
Title	
Application field	Nuclear Industry <input type="checkbox"/> Diagnostic Radiology <input type="checkbox"/> Nuclear Medicine <input type="checkbox"/> Radiotherapy <input type="checkbox"/> Research <input type="checkbox"/> Industrial Radiography <input type="checkbox"/> Irradiators and Accelerators <input type="checkbox"/> Gauging Techniques <input type="checkbox"/> Tracer Techniques <input type="checkbox"/> NORM <input type="checkbox"/> Radioactive Waste <input type="checkbox"/> Other: _____
Modality	Face to face, online, blended learning, distance learning
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Duration	Start date: _____ End date: _____
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Edition number	
Degree of conformity with the standards*	
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*compulsory field	
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Type of E&T program?	Initial training <input type="checkbox"/> re-training <input type="checkbox"/> specialization <input type="checkbox"/> OJT <input type="checkbox"/>
Program details	Objective, topics, lecturers, material, work load, prerequisites, etc
Requirements to apply	Preliminary diploma, experience, etc
Tuition fee	
How to apply	
Deadline of application	
Training Provider	
OJT?	
For further information	Contact persons, website, etc
Name PDF 1	
Name PDF 2	

E&T Training provider	
Name	
Country	
Address	
Web	
Contact point	Name: _____ Department: _____ Email: _____ Tlf: _____ Fax: _____
Type of organization:	Public: <input type="checkbox"/> Private: <input type="checkbox"/>
Main activity:	
Areas of activity:	Nuclear Industry <input type="checkbox"/> Diagnostic Radiology <input type="checkbox"/> Nuclear Medicine <input type="checkbox"/> Radiotherapy <input type="checkbox"/> Research <input type="checkbox"/> Industrial Radiography <input type="checkbox"/> Irradiators and Accelerators <input type="checkbox"/> Gauging Techniques <input type="checkbox"/> Tracer Techniques <input type="checkbox"/> Norm <input type="checkbox"/> Radioactive Waste <input type="checkbox"/> Others: _____
Type of training events	Courses, <input type="checkbox"/> Masters <input type="checkbox"/> Workshops <input type="checkbox"/> Opportunities <input type="checkbox"/> Other: _____
Type of training programs:	RPE initial training <input type="checkbox"/> RPE refresh training <input type="checkbox"/> PRO initial training <input type="checkbox"/> RPO refresh training <input type="checkbox"/> Exposed Workers (EW) initial training <input type="checkbox"/> EW refresh training <input type="checkbox"/> Other: _____ Specialization, introduction to a new technique, ... <input type="checkbox"/> OJT facilities <input type="checkbox"/>
Evaluation mechanism:	Final exam <input type="checkbox"/> Continuous assessment <input type="checkbox"/> Final project <input type="checkbox"/> Others: _____
Certification	
National recognition:	Regulatory body, Ministry of..., etc
Quality assurance system:	
Labour exchange	Yes <input type="checkbox"/> No <input type="checkbox"/>



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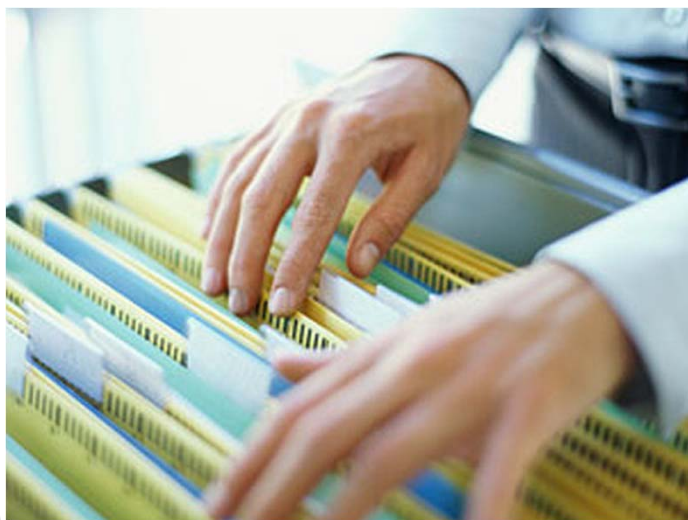
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The information
required from the
**National Contact
Point** as well as the
Global Coordinator:



**E&T National contact point// Global
coordinator**

Name	
Organization	
Department	
Address	
Email	
Tlf	
Fax	
Web	

- The **national contact point** can be as well a **provider**.
- The **global coordinator** could be as well **contact point and/or provider**.



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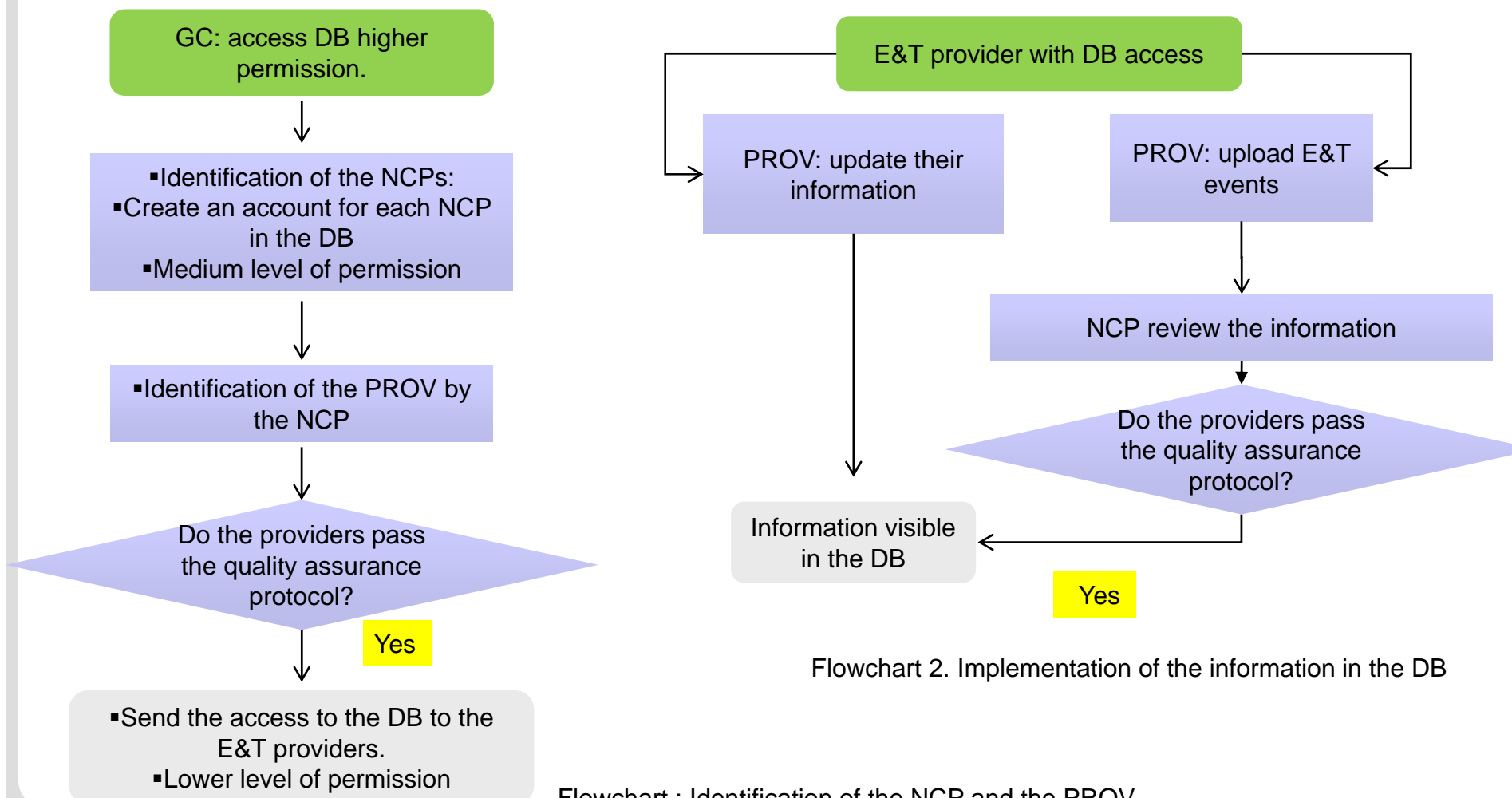
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2. MAINTENANCE MODULE.

Protocol to include the information in the DB



Flowchart 2. Implementation of the information in the DB

Flowchart : Identification of the NCP and the PROV



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Workflows in the maintenance module

Workflow	Roles	Description	Notifications
Register a new PROV	•NCP* •GC	•Declaration in the system of a new E&T provider	•To the GC
Data modification of PROV	•NCP* •GC	•Modification of the data of a PROV	•To the PROV •To the NCP
Disable a PROV	•NCP* •GC	•Sign the PROV as not active •Hide all the EVs of such PROV	•To the PROV •To the NCP •To the GC
Register a new EV	•PROV* •NCP •GC	•Declaration in the system of a new EV.	•To the PROV •To the NCP
Disable an existing EV	•PROV* •NCP •GC	•Sign the EV as not active •Hide the information of such EV	•To the PROV •To the NCP
Data modification of an existing EV	•PROV* •NCP •GC	•Modification the data assigned to an existing EV	•To the PROV •To the NCP

* This task is responsibility of the indicated role

Maintenance module screens

Screen	Task	Enabled to the role:
E&T Events	Register a new event	PROV, NCP, GC
	Disable an event	PROV, NCP, GC
	Modify the information of an event	PROV, NCP, GC
	Assign the degree of conformity	NCP, GC
E&T Providers	Register a new PROV account	NCP, GC
	Disable a PROV	NCP, GC
	Modify the information of PROV	All PROV accounts: NCP, GC
		The own account: PROV
National Contact Points	Register a new NCP account	GC
	Disable a NCP account	GC
	Modify the information of NCP	All NCP accounts: GC
		The own account: NCP
Global coordinator	Glance all the global coordinators	All GC
	Modify the own information	The owner of the account.

3. WEB SEARCH MODULE

Home Page

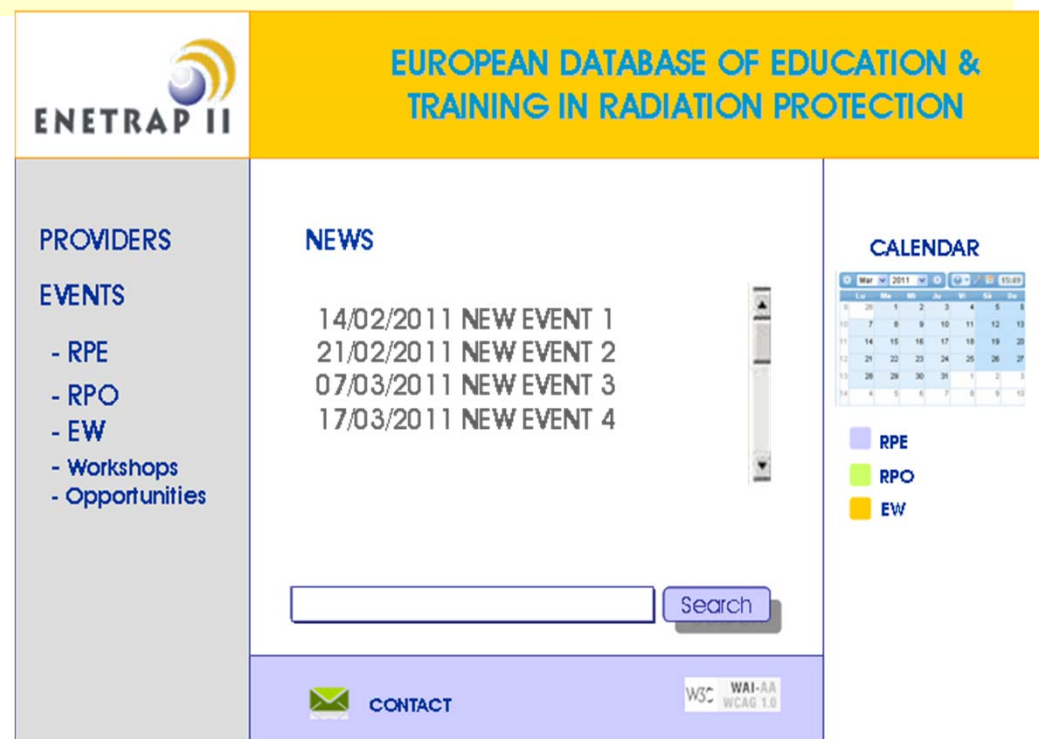


The application of web search would be of free access

Have two basic elements
of information:

- E&T Providers
- E&T Events.

The Home Page give
Information about the
closest events in news
section



The screenshot shows the ENETRAP II website. The header includes the ENETRAP II logo and the title 'EUROPEAN DATABASE OF EDUCATION & TRAINING IN RADIATION PROTECTION'. The main content area is divided into three sections: 'PROVIDERS' (with a link to 'EVENTS'), 'NEWS' (listing four events with dates from 14/02/2011 to 17/03/2011), and 'CALENDAR' (showing a monthly calendar for March 2011 with color-coded days for RPE, RPO, and EW). A search bar is located below the news section. The footer contains a 'CONTACT' link and a 'W3C WAI-AA WCAG 1.0' compliance logo.

- The calendar includes the starting dates of the E&T events filtered by the kind of training.



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The screen of providers: E&T Providers query

- Shows a list of providers
- The user could search providers according to different criteria, as **country** and **area of activity**.



ENETRAP II		EUROPEAN DATABASE OF EDUCATION & TRAINING IN RADIATION PROTECTION	
PROVIDERS	PROVIDERS	<div>Country <input type="text"/></div>	<div>Main activity <input type="text"/></div>
EVENTS	Provider 1- France Provider 2 - Spain Provider 3- Germany Provider 4- Italy Provider 5- Romania Provider 6- Spain	<div>Search</div>	
<ul style="list-style-type: none">- RPE- RPO- EW- Workshops- Opportunities	<div><input type="text"/></div> <div>Search</div>		
<div> CONTACT</div>		<div>WSC WAI-AA WCAG 1.0</div>	



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E&T Events Query

The user could query
about the E&T
events of their
interest

Filtering information
according to different
criteria:

Country

Language

Provider

Type of Event



PROVIDERS

EVENTS

- RPE
- RPO
- EW
- Workshops
- Opportunities

EUROPEAN DATABASE OF EDUCATION & TRAINING IN RADIATION PROTECTION

EVENTS

25/01/2011 – EVENT 1 – Germany
03/02/2011 – EVENT 2 – Italy
07/02/2011 – EVENT 3 – Spain
20/02/2011 – EVENT 4 – Ireland
06/03/2011 – EVENT 5 – Romania

Country

Language

Provider

Type

Search

Search



CONTACT

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WCAG 1.0



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E&T Events Query

Is possible to **perform
direct queries**

- **RPE**
- **RPO**
- **EW**
- **Workshops**
- **Opportunities**

**Clicking in the Event, all
the information collected
in the template appears**

ENETRAP II

EUROPEAN DATABASE OF EDUCATION & TRAINING IN RADIATION PROTECTION

PROVIDERS

EVENTS

- RPE
- RPO
- EW
- Workshops
- Opportunities

EVENTS

25/01/2011 – EVENT 1 – Germany
07/02/2011 – EVENT 3 – Spain
06/03/2011 – EVENT 5 – Romania
15/03/2011 – EVENT 10 – France

Country
Language
Provider
Type

Search

Search

CONTACT

W3C WAI-ARIA WCAG 1.0



**clicking on the Provider, the user can access
to the public information contained in the DB
template**



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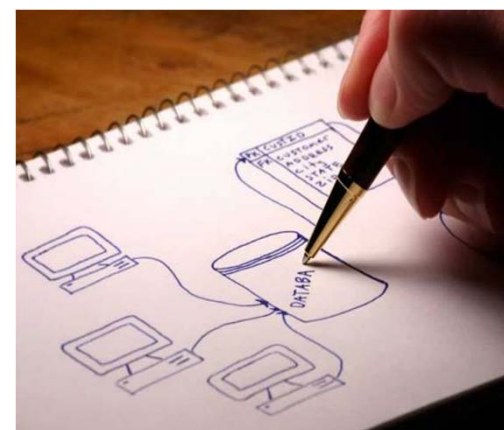
SUMMARY AND CONCLUSIONS

- ✓ It has been presented the selected model of E&T database, composed by 3 modules.
- ✓ **The web search module**, allows to the end users, in an agile and easy way, looking for the demanded information through different criteria. This module is fed by the DATABASE MODULE
- ✓ **The database module**, has the aim to store the information related to the E&T providers, the E&T events and the roles associated to the management: NCP and GC. This module is managed by the MAINTENANCE MODULE.
- ✓ **The maintenance module** is the key point of all the system: allows the connection with the DB to the 3 roles (PROV, NCP and GC) with different levels of permission, and it is capable to generate the required notifications via email

SUMMARY AND CONCLUSIONS

From this kind of system it's possible to extract **highly valuable information** of the searches of the users:

- User's country
- N° of pages visited
- Average time per visit
- new users in a period



This information can be very interesting **to attract the providers** to include their RP events

SUMMARY AND CONCLUSIONS



- ✓ **In a first phase**, the NCPs will be the ENETRAP II members, and the first providers to be included will be the same.
- ✓ **In a second phase**, the number of E&T providers will be incremented with all of those interested providers that satisfy the requirements established by WP5.
- ✓ After ENETRAP II, EUTERP will take over the data base.
- ✓ After that we will package all the three module system in a CD-rom to be exported to EUTERP.



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Thanks for your attention!!



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EUROPEAN DATABASE OF EDUCATION & TRAINING IN RADIATION PROTECTION

PROVIDERS

EVENTS

- RPE
- RPO
- EW
- Workshops
- Opportunities

PROVIDERS

Provider 1- France
Provider 2 - Spain
Provider 3- Germany
Provider 4- Italy
Provider 5- Romania
Provider 6- Spain

Country

Main activity

Search

Search



CONTACT

W3C WAI-AA
WCAG 1.0



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PROVIDERS

EVENTS

- RPE
- RPO
- EW
- Workshops
- Opportunities

NEWS

14/02/2011 NEW EVENT 1
21/02/2011 NEW EVENT 2
07/03/2011 NEW EVENT 3
17/03/2011 NEW EVENT 4

CALENDAR

Mar 2011								
Lu	Ma	Mi	Ju	Vi	Sá	Do		
9	28	1	2	3	4	5	6	
10	7	8	9	10	11	12	13	
11	14	15	16	17	18	19	20	
12	21	22	23	24	25	26	27	
13	28	29	30	31	1	2	3	
14	4	5	6	7	8	9	10	

- RPE
- RPO
- EW

Search



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EUROPEAN DATABASE OF EDUCATION & TRAINING IN RADIATION PROTECTION

PROVIDERS

EVENTS

- RPE
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- Opportunities

EVENTS

25/01/2011 – EVENT 1 – Germany
03/02/2011 – EVENT 2 – Italy
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Country

Language

Provider

Type

Search

Search



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EUROPEAN DATABASE OF EDUCATION & TRAINING IN RADIATION PROTECTION

PROVIDERS

EVENTS

- RPE
- RPO
- EW
- Workshops
- Opportunities

EVENTS

25/01/2011 – EVENT 1 – Germany
07/02/2011 – EVENT 3 – Spain
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Country

Language

Provider

Type

Search

Search



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W3C WAI-AA
WCAG 1.0