



BE OND

Deliverable D4.1: BEYOND Website

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Executive Summary

This document is a scheduled deliverable of the project BEYOND entitled “*D4.1 – BEYOND Website*”, providing a short description of the BEYOND website content. The design and development of the BEYOND website was scheduled to be implemented within the first three months of the project. This deliverable presents the main motivation and ideas behind the visual design and functionality of the website, as well as a brief description of the website content in its current form. The main scope of the website is to disseminate information on the project activities and foreseen actions, focusing on assisting the users to navigate into the BEYOND related information, services, as well as its mission and vision. It also provides a common working platform for the BEYOND members for document sharing and editing.

The document consists of four sections, which are outlined herein below:

Section 1, is an overview of the layout and functionality of the website in association with the related graphics and various illustrations.

Section 2, provides a thematic overview of the content of each individual site section, namely: the main homepage or *Intro*, the main menu entries, and the BEYOND thematic areas, namely the BEYOND Research Domains 1, 2, and 3 (RD1, RD2, RD3). It briefly mentions the “BEYOND Share” area, which is further described under *Section 4* as it involves specific functionality that is separated from the other sections.

Section 3, provides technical information on the platform and software tools that are used in order to implement the website, namely the Content Management System platform, as well as the specific software components that are utilized. This section additionally provides in brief, information regarding the domain name selected, the web hosting environment, and further details concerning the domain name registration. Finally, the dynamic sections of the web portal are presented, assisting the users to browse the web page material in a visually pleasant and content clean manner.

Section 4, presents the foreseen updates and the interoperability facilities of the website. It further provides information and tips concerning the secured area of the website, that is the “*BEYOND Share*” area, which is designed as to provide cooperative content and information sharing facilities between the partners, the members of the Project Committees (Steering Committee, Advisory Committee members), the Project Management Board members and the NOA Team. Specific reference is also made to the content and facility access restrictions, in relation to the defined Groups’ registration policies. Content and facilities availability is further discussed by illustrating indicative content access examples for each of the specified users Group.

Project Information

This document is a contractual commitment of the research project funded under the FP7-REGPOT-2012-2013-1: activity 4.1 - Unlocking and developing the research potential of research entities established in the EU's Convergence regions and Outermost regions.

Call Identifier: Integration of research entities from the EU's Convergence and Outermost regions in the ERA and enhancement of their innovation potential.

Project GA number: 316210

Project Title: BEYOND- Building Capacity for a Centre of Excellence for EO-based monitoring of Natural Disasters.

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Acronyms and Abbreviations

Acronym	Description
CMS	Content Management System
ENIGMA	The Hellenic GeoMagnetic Array
EO	Earth Observation
EU	European Union
GA	Grant Agreement
GIS	Geographic Information Systems
IAASARS	Institute for Astronomy, Astrophysics, Space Applications and Remote Sensing
LIDAR	Light Detection And Ranging
MODIS	Moderate Resolution Imaging Spectroradiometer
NOA	National Observatory of Athens
PMD	Programme Management Board
RD	Research Domain
RS	Remote Sensing
SAR	Synthetic Aperture Radar
UHI	Urban Heat Island
WP	Work Package

1. Preview of the website

The BEYOND project website was designed focusing on final users' needs. BEYOND website front-end consists of a number of distinctive and dynamic sections which are illustrated in the following diagram (*Figure 1*):

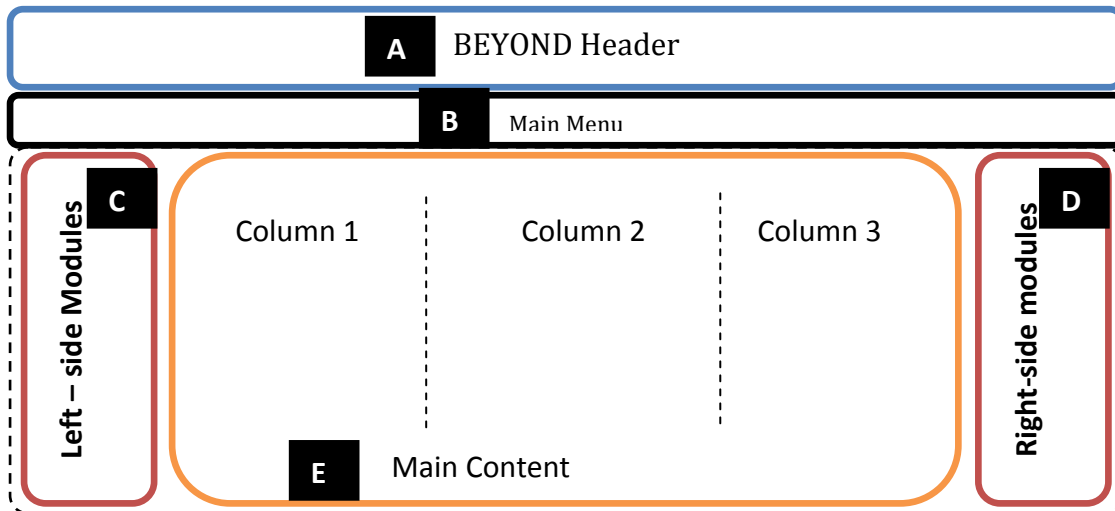


Figure 1: Front-end sections

BEYOND Header (Part A): It is an abstracted graphic which has been designed to contain an Earth-Space based background concept, highlighting the EO nature of the project, together with the official logos of the project, and the coordinating beneficiary (NOA/IAASARS) logo. Further, at the right side of the BEYOND header section, the various natural disasters referred to in the BEYOND project are shown, using relevant to the disaster phenomenon artistic icons plus a texture graphic.

Main Menu (Part B): It is a horizontal multi-level menu, consisting of the following Main Menu entries: *Intro*, *Project*, *Infrastructure*, *People*, *Partners*, *Dissemination*, *Announcements*, *Multimedia* and *BEYOND Share*. Each of these entries leads to related sub-content.

BEYOND Modules (Part C & D): These are two spatially equal designed units on both sides of the main content area, which are dedicated to execute specific modules, enhancing the usability of the BEYOND portal in terms of special content access, information briefing on renewed and updated project material, the project news and the secured content sharing facilities.

Main Content (Part E): The main content area has been designed to allow the flow of the web content in a user friendly manner via a single or multi-column frame template. It should be noted that in order to assist users in accessing the various web sections (e.g. Project Partners), specific modules inline to the content are used. This document refers in detail (see section 3.6) to those modules and their usability.

2. Content of the Website

2.1. Intro (Homepage)

The BEYOND website: <http://www.BEYOND-EOCenter.eu> is designed to act as an information gateway informing the user community (incl. the public) and stakeholders, on the project objectives, and the main activities and achievements relevant to the scientific components of BEYOND.



Figure 2: The INTRO page

Figure 2 is a snapshot of the home page and illustrates how the users can access the information related to the project (objectives, deliverables, infrastructure, partners, etc.). The gateways to this information are the entries that constitute the two

dedicated menu items, namely the Main Menu (which appears at the top of the content) and the *Natural Disaster Services* entitled Menu (which appears at the top of the left side of each page). Additional information gateways appear as modules on the left side of each page (entitled as *MAP, INFO*), as well as on the right side (entitled as *SEARCH, HEADLINES, LOGIN FORM, PROJECT MEETINGS*); The functionality of each individual module is discussed in detail under section 3.6.

At the main content area of the Intro page, a brief description of the project objectives is given, as:

- The built of the integrated observational solutions that will lead to a multitude of EO monitoring networks.
- The creation of archives and databases of long series of observations aiming to derive higher level geo-spatial information products.
- The exploitation of the aforementioned products with the involvement of stakeholders, scientists and/or institutional users.

Additionally aspects such as, the research portfolio along with the research domains, are discussed, as well as the importance of building the collaboration schemes foreseen in BEYOND.

At the bottom of the Intro page a preview of the latest published articles (entitled as *BEYOND News*) is presented with links to the corresponding content pages. Here users will be informed about the latest content, principally uploaded under the *Announcements* section, and further with fresh content of special interest that may be collected from the other sections of the website.

2.2. Top panel

2.2.1. Project

The Main Menu item "*Project*" illustrates detailed information on BEYOND. It defines the strategic objectives, the vision, the mission and the expected impact resulting from the implementation of the project.

A conceptual action plan diagram illustrates an overview of the interactions between the distinctive entities and actors involved in the project namely, the human capacity, the partnering organizations, the existing and foreseen infrastructures, the BEYOND research domains, the established know-how exchange, the dissemination, and the IPR capacity nodes.

Under the Main Menu Item "*Project*", several submenus are available that depict more detailed information on the project management structure. The submenu "*Management Organisation*" provides information concerning the project coordination and management. A Project Management Organisation Chart illustrates the structure of the project regarding the Work Package activities and interrelations at project organisational level.

The Project Management Roles section follows and discusses the responsibilities that are assigned to each organisational level, namely the EU Level, the NOA (beneficiary) Level and the Project Execution Level. In detail, under the *Project Execution Level*, the

general responsibilities of the Work Package Leaders are mentioned along with a list of the individual leaders in pair with links to the corresponding work package dedicated pages.

Information regarding the Project Boards and Committees, that are the Steering Committee, the Project Management Board and the External Advisory Committee follows. For each Board/Committee the main tasks and the decision-making responsibilities are depicted along with a reference to its members.

Submenus “WP1” to “WP6” provide links to the relevant web pages, dedicated to provide information on each individual work package; the responsibilities of the WP leader, the WP action plan, the WP deliverables, and other WP-related issues.

2.2.2. Infrastructure

The Main Menu Item “*Infrastructure*” illustrates information regarding the existing infrastructure capacity at NOA, and the one to be obtained in the framework of BEYOND. It outlines the foreseen Earth monitoring capabilities and processing tools to be acquired in BEYOND, in order to enable multidisciplinary integrated networking monitoring solutions and complementary research, in order to accomplish the Action Plan scheduled for the upgrade of IAASARS/NOA towards establishing a centre of excellence for EO-based disaster monitoring.

This section demonstrates the integrated use of EO data, products and services to be designed, developed and deployed in BEYOND, through the establishment of the appropriate monitoring infrastructure and operational systems for natural disaster monitoring. This will include the installation and operation of important infrastructure, as well as the software upgrades (e.g. SARscape), in synergy with existing capacity resources and observational networks available at NOA and partners premises.

In detail the Menu-item “*Infrastructure*”, cites information and graphic material related to the existing, as well as the infrastructure that will be procured, as the:

- MODIS Satellite data receiving ground station
- LiDAR system equipment
- MIDAC Open path FTIR spectrometer
- ENIGMA magnetometer network
- SARscape software for SAR satellite data processing
- Forest Fire Simulation software tool
- Urban Heat Island patterns extraction software tool
- GIS and Remote Sensing software tools
- IT supporting hardware and PC stations and servers

The aforementioned list is illustrated in a clean tabbed manner where for each item a separate entry is available. Where available an appropriate image is provided, accompanied by detailed textual information for the item under concern.

2.2.3. People

The Main Menu Item “*People*” presents short profiles, as well as the contact information of the personnel working for BEYOND. It presents the entire team that will frame BEYOND, starting from the high level permanent research staff, followed by the broad research team, either recently recruited as part of the envisaged upscaling activities of BEYOND, or existing research personnel on contract basis. Next to each researcher a short CV is given, together with a photo and the contact information for each individual member; finally, the Administrative Staff responsible for the administrative, financial and legal support of the project is presented.

2.2.4. Partners

The item “*Partners*” provides information concerning the profile of each of the partnering organisations that cover the whole set of IAASARS/NOA Research Domains, i.e. Meteorological and manmade hazards, Geophysical hazards, Atmospheric perturbations and air quality.

The page illustrates also the geographical distribution of the partnering organisations via an interactive map component.

The list of the partnering organisations that are included in the page is as follows:

1. GCU - Global Change Unit, Department of Earth Physics and Thermodynamics, University of Valencia, Spain
2. LATUV - Remote Sensing Laboratory, University of Valladolid, Spain (www.latuv.uva.es)
3. BSC - Earth Science Department, Barcelona Supercomputing Centre), Spain (<http://www.bsc.es/>)
4. KCL - Department of Geography, King's College London, UK (<http://www.kcl.ac.uk>)
5. NILU - Norwegian Institute for Air Research , Norway (www.nilu.no)
6. TÜBİTAK - Scientific and Technological Research Council of Turkey, Marmara Research Center, Turkey (<http://www.mam.gov.tr>)
7. IMAA - Institute of Methodologies for Environmental Analysis, National Research Council of Italy – CNR Italy (<http://www.ima.cnr.it>)
8. ISAC - Institute of Atmospheric Sciences and Climate, National Research Council of Italy -CNR, Italy (<http://www.isac.cnr.it>)
9. SARMAP, Switzerland (<http://www.sarmap.ch>)
10. RHMS - Republic Hydrometeorological Service, Serbia (<http://www.hidmet.gov.rs/>)
11. GFZ - German Research Centre for Geosciences, Helmholtz-Centre Potsdam, Germany
12. TROPOS - Leibniz Institute for Tropospheric Research, Germany (<http://www.tropos.de>)
13. AU_EO - The Remote Sensing Laboratory of the University of Aberystwyth

Detailed information regarding the organisations of the aforementioned list is also illustrated in a clean tabbed manner by using the Horizontal Accordion module. Each

separate entry of the module contains information about a number of organisations, thus each subpage of an entry is dedicated to a distinct partnering organisation, where the relevant logo is provided, accompanied by detailed textual information for the item under concern.

2.2.5. Exploitation – Dissemination

Exploitation – Dissemination activities are key elements of BEYOND, thus, this website section provides information related to dissemination activities within the project and a clear exploitation plan to leverage the project's achievements.

This section is also expected to maximize the visibility and impact of the project, through the efficient communication to be established between BEYOND and the user community as far as the project results and products are concerned.

Indicative activities that will be available through this item are:

- Mass media promotions.
- E-based dissemination activities.
- Announcements of workshops and special sessions in scientific conferences and meetings.
- Selected scientific publications to high impact peer-reviewed international journals.
- Announcements of Webinars.
- Announcements of activities open to the public (e.g. conferences ,and press conferences).
- Information about Intellectual Properties (IP) and Data Management issues Seminars Access to BEYOND products.
- Dedicated promotional material (see also 2.2.7).

2.2.6. Announcements

A timeline of project related information will be provided through this item, focusing on the latest dissemination activities, announcements of recruitment opportunities, webinars, newsletters, open competitions and other related information. Additionally, all the highlights of the project (e.g. upcoming events, news, activities) will be announced through this section.

2.2.7. Multimedia

In this section all the multimedia material will be made available. The purpose of this section is to target mainly (although not exclusively) the end-users and the general public.

Indicatively, the available material will be:

- The project brochure of BEYOND, which will discuss its objectives and scope, with examples of Earth Observation images and maps of recent natural disasters (e.g. a destructive forest fire, a major earthquake, a heat wave, etc). This brochure will be

distributed in all relevant workshops organised by BEYOND, as well as in conferences of relevant topics.

- A number of dissemination videos, highlighting the dynamics of natural hazards, by illustrating the information flow resulting from the initial triggering of the processing chains to the timely generation of added-value information products. The flow of such information is particularly important to crisis managers and environmental decision makers, and it also presents a simple yet powerful scenario for the general public.
- An electronic newsletter will be available via the website and delivered every six months to a predefined list of stakeholders (including the research community and end-users) plus to any interested party who signs up in the website.

2.2.8. BEYOND Share

This section is a special area used as content management facility where the partners, the members of the Project Committees (Steering Committee, Advisory Committee members), the Project Management Board and the NOA Team, will be able to share and/or edit the different documents, deliverables, and other project related material. The aforementioned Groups will have different registration policy thus regulated and/or limited access to the content and facilities provided. More discussion on this section as well as an indicative description of the content and facilities available to each Group follows in section 4.2.

2.3. *Natural Disaster Services*

This section aims at demonstrating the scientific results of the BEYOND project and documenting the validation efforts of the information products derived and services delivered. These are grouped thematically.

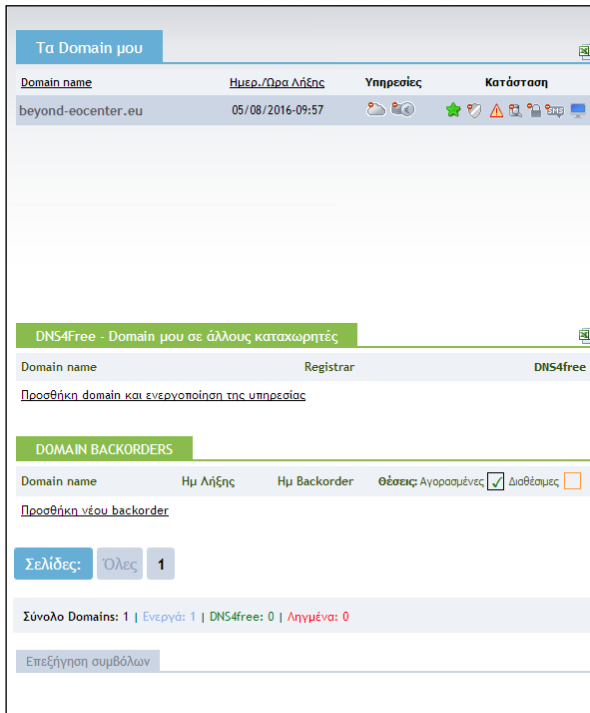
This section is accessible through a specifically designed menu on the top-left of each web page. Under the menu module "*Natural Disaster Services*" a separate entry for each of the thematic areas of BEYOND is available as:

1. Fires, fire risk, and fire spread.
2. Floods.
3. Urban environment and heat waves.
4. Volcanic eruptions, earthquakes and landslides.
5. Atmospheric monitoring, dust and smoke dispersion.

Each menu entry directs the user to the main page which has been reserved for the particular thematic area. The page provides a generic overview of the thematic area, as well as a detailed description of the related services and thematic products available by the project. Moreover, a dedicated GIS component acting as a web portal facilitates the access to the available products using mainly geographic criteria; this component allows the users to navigate through the derived services and map products, as well as enables the retrieval of these information products, where applicable.

3. Technical information

3.1. Domain name



In line with the Project's spirit "Unlocking and developing the research potential of research entities established in the EU's Convergence regions and Outermost regions", an **.EU** Top-level domain name has been registered. The full domain name for BEYOND Website is: <http://www.BEYOND-EOCenter.eu>. The name *BEYOND-EOCenter* was chosen so as to contain the name of the project itself while emphasizing on the objective of the programme, namely to assist NOA's capacity as an Earth Observation Center of Excellence for Disaster Management. NOA registered the project's domain name on 06/08/2013 and will own it for the entire duration of BEYOND (until 06/08/2016; this date will be extended), using a reliable domain

services provider (<http://www.domains24.gr> - see Figure 3).

Figure 3

3.2. Web hosting

BEYOND Website is hosted at the dedicated web servers that belong to the Wide Area Network of the National Observatory of Athens (*NOANET*). *NOANET* is part of the Greek Research and Technology Network (*GRNET*). The *NOANET* WAN is registered as an autonomous system at [European Registrar RIPE](http://www.ripe.net). *NOANET* hosting service guarantees uninterrupted 24/7 system availability, while fiber optic Gigabit Ethernet WAN infrastructure, guarantees high-bandwidth communication facilities to the project's website.


3.3. Design of the website's template

BEYOND Website is foreseen to be updated and expanded periodically throughout the project's lifetime and hopefully beyond. For this reason it was necessary to build a robust, versatile and consistent template intended to be used as a building block for

the entire website. In order to comply with project's high standards we utilized a commercial application, the Artisteer automated web designer.

Artisteer (<http://www.artisteer.com/>) is a web design automation product that provides all the necessary toolboxes in order to design web templates, by using visual programming, while allowing the configuration and parameterization of each individual elements form, position and behavior, as well as to design their visual appearance. Artisteer supports the latest standards such as the CSS3 and HTML5 prototypes resulting to better structured web pages. It also uses the responsive web design technique in order to generate templates that automatically scale the layout of the web pages for mobile and portable devices usage.

The main characteristics of the custom template built specifically for the BEYOND website are the following:

- The Project  Logo:

- The website header, that is a complex graphic, that appears at the top of all the website's pages with a fixed width of 1200px (*Figure 4*).



Figure 4: The website header

- The light pale gradients which are used for the page background, together with the off-white colour used for the content background in conjunction to the *Arimo* – Arial Compatible font set selected for the text, which results to an easily readable and appealing content (*Figure 5*).



Figure 5: Content look & feel

- The modules on both sides of the content that are discrete and easily distinguishable, as the dark background with light text defines clearly their active area (*Figure 6*).

- The responsive web design, which results to automatically scaled page elements, further usable by mobile and portal devices browsers (*Figure 7*).



Figure 7: Module area

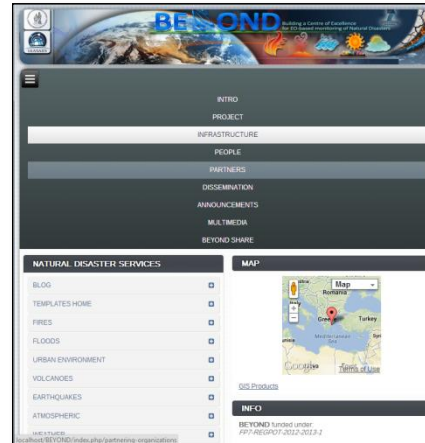


Figure 6: Responsive web design

- The website template that offers single and multicolumn layouts, thus aiding the content editors to optimise the textual information structure.
- The use of Artisteer which has been chosen for exporting a defined template to compatible formats, that are mostly used by the popular Content Management System applications.

3.4. CMS platform

Considering the dynamic nature of the project and the high demands in terms of content administration and updates, we concluded that the utilisation of a Content Management System application has been the appropriate choice for the implementation of the BEYOND website, giving thus priority to the well established Joomla CMS (<http://www.joomla.org/>).

Joomla is a popular Content Management System Platform enabling the administration of the web content, and allowing remote content creation, editing and publishing. Another major advantage of such platform is that it provides procedures to manage workflows in a collaborative environment. Joomla is an open source, widely popular software, which is highly extensible as thousands of extensions (modules-widgets) are available. Although Joomla version 3 is available we have selected to use Joomla v.2.5 version, which is more stable, robust and mature, and has more extensions available up to this moment. Joomla platform offers two major interfaces, the front-end interface, which is actually the website content itself, and the back-end interface, which is by default protected, offering administrative and site management facilities. Joomla has also integrated user management capabilities in order to define the appropriate registration policy.

A user registration policy has been set using an Access Control Level mechanism called Groups. Different Groups have different access level features, which are directly related to the creation, editing and publishing of the web page contents (through the front-end and back-end interfaces), as well as to the rights for accessing to the Administrative (back-end) interface.

There are 4 front-end groups available:

- Registered users who are able to view-only certain protected site areas.
- Author users who are allowed to publish the page content after submitting it for approval.
- Editors who are allowed to view and edit selected content items and sections, again pending approval by the website administrator.
- Publishers who can view, edit, modify and publish any content item that they are allowed to view.

There are 3 back-end administrator section groups available:

- Managers who have only content management related permissions.
- Administrators who are allowed to use all administration functions available except for global configuration options.
- Super administrators group, which allows access to all administration functions.

For the BEYOND project a specific policy has been set, allowing only the site administrator to access to the back-end interface, while the Project Management Board members have been assigned only the “Publishers” credentials.

A registered user may insert or edit content by using the JCE Content Editor for Joomla. JCE is a WYSIWYG editor allowing the insertion of content and graphics almost just like classic word-processing software. Once a registered user presses over the “Edit Article Icon” the JCE Editor will be available to support editing of the page (Figure 8).

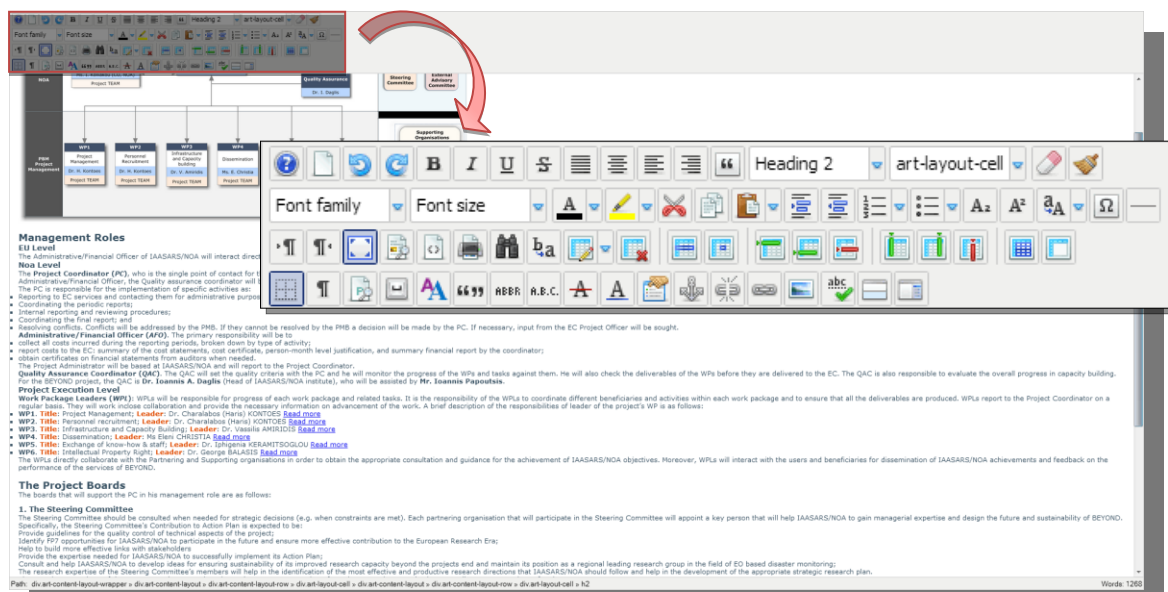


Figure 8: JCE content editor GUI

3.5. Databases

Joomla uses an external third party Database Management System in order to store configuration and content; for the BEYOND portal the MySQL data base has been installed and used, that is the world's most popular open source database.

The process of backing up the BEYOND Website structure and data are executed regularly through applying the standard MySQL database dumps, the Joomla Akeeba backup facility, as well as the backup of the file system structure itself.

3.6. Modules

A number of components have been implemented into the website that contribute to the dynamic and interactive nature of the website, enhance the user experience, and improve the usability of the system.. Those components - that are called as *modules* - are mainly positioned on both sides of the content area although some of them are positioned right into the main content area (*Figure 9*).

PROJECT
 ORGANISATION
 WP1
 WP2
 WP3
 WP4
 WP5
 WP6

Open

Active

Hovered

INTRO **PROJECT**

a **b** **c1** **c2** **d** **e** **f** **g** **h** **i** **j** **k**

NATURAL DISASTER SERVICES
 FIRES
 FLOODS
 URBAN ENVIRONMENT
 VOLCANOES
 EARTHQUAKES
 ATMOSPHERIC
 WEATHER

MAP

INFO
 BEYOND funded under:
 FP7-REGPOT-2012-2013-1
 ACTIVITY: 4.1
 Unlocking and developing the research potential of research entities established in the EU's Convergence regions and Outermost regions.
 CALL IDENTIFIER:
 Integration of research entities from the EU's Convergence and Outermost regions in the enhancement of their research potential.
 Project GA number:

Building Institutional Capacity
 Institutional capacity (p.2)
 The building of the appropriate environment for integrated EOs use and development will additionally enforce IAASARS,NDA and other involved entities towards better integration into the European Research Area (ERA), via long-lasting partnerships, and establishment of twinning cooperation schemes. It is finally anticipated that BEYOND will contribute to improve Institute's competitiveness in FP7 and other European funding opportunities, which is necessary for the sustainability of BEYOND in future. The External Advisory Committee will contribute for a sustainable and long-lasting integration of IAASARS,NDA to ERA by providing guidelines for improving the IAASARS,NDA innovation potential, cutting edge technologies and existing roadmaps from organizations and agencies (e.g. WMO, ESA). However, two legal representatives to the FP7 for Greece, Ms Georgia Tzenou, and Dr Xenophon Tsilimparis, participating in the External Advisory Committee, will train IAASARS,NDA personnel for better preparing FP7 proposals. It is expected that the close cooperation with all our EU partners, together with discussions on future FP7 projects planned at annual project meetings and the proposal-writing seminars, will increase the prospects for BEYOND consortium to participate in other FP7 projects.

REGULATORY	1	1	1	1
REG-RES-INDU	1	2	2	2
TURKIA-INDU-IMR	1	2	3	3
SAHARA-INDU-LIFE	1	2	3	3
TURKEY-INDU-LIFE	1	2	3	3

Figure 9: Website modules preview

The modules implemented in the web portal are the following:

3.6.1. Main Horizontal Menu

The Main Horizontal multi-level navigation menu (*Figure 9a*), which is positioned at the top of the content. The active menu items, as well as the hovered items are visually distinguishable.

3.6.2. Vertical Menu

The Vertical menu labeled “*Natural Disasters Services*” (*Figure 9b*), which is positioned at the left-side of each page.

3.6.3. The Map

The Map component, which appears at many places. A small preview map (*Figure 9c1*) positioned at the left-side of each page leads to the “*GIS products*” page, where a larger map (*Figure 9c2*) previewing the actual geographic location of the products is present. Additional mapping widgets are also present inside the main EO thematic area pages.

3.6.4. Project info

On the left-side of each page a module named “*Info*” (*Figure 9d*) depicts information regarding the Project’s Activity, the Call Identifier, as well as credits to the FP7 and the EU.

3.6.5. Search

The search module (*Figure 9e*) is positioned on the right-side of each page, and may be used to search the entire site for desired content, by typing keywords related to the user query.

3.6.6. Headlines

The headlines module (*Figure 9f*), which is positioned on the right-side of the intro page. It acts as a text scroller, and it is used in order to depict headlines and links of project news.

3.6.7. Login Form

The login form module (*Figure 9g*), which is positioned on the right-side of each page, and is used in order to authorise the user access to sensitive content. Users are supplied with credentials and are enabled to view and/or edit secured material depending on their roles in the project and relevant access rights.

3.6.8. Project Meetings

The project meetings module (*Figure 9h*) is used as a quick portal to the main pages of each project meeting, and provides a list of the corresponding links.

3.6.9. News Preview

The News Preview module (*Figure 9i*) appears at the bottom of the content area of the Intro page. It automatically collects and aggregates the content of recently posted featured articles. The term “Featured article” defines manually selected, recently added content, principally uploaded under the *Announcements* section, or fresh content of special interest that may be collected from the other sections of the website. That specially labeled content is automatically post-processed and aggregated through this module, in order to supply brief information regarding project advances to the user.

3.6.10. Main Slider

The Main Slider module (*Figure 9j*) appears at the top of the content area of the Intro page. It is used as a dynamic, multimedia component aiming to welcome users, while illustrating multimedia material that is developed in the lifetime of the BEYOND project.

3.6.11. Horizontal Accordion Slider

The Horizontal Accordion Slider (*Figure 9k*) is a module that appears inside the content area of the different web pages, such as the Infrastructure, the Partners, etc. It is used in order to present horizontally specific stacked lists of thematically related items; each item is "expanded" in order to reveal the content associated with that item, thus reducing the excessive visual extent of the total content, and acting as an inline page by page browser, allowing the user to quickly preview or examine the desired information.

4. Foreseen Updates & Interoperability facilities

4.1. Content updates

For the time being, much of the foreseen functionality has been implemented into the website. Also much of the project related information has been structured and published online. However, major updates during the project lifetime are foreseen to take place, mainly concerning the project's outcomes, including new infrastructures, services and products that will be developed and generated, and/or further updated during the project lifetime. In addition, the web portal functionality and environment will be continuously configured and adapted to the actual project's needs following its progress. The PMB members will have the option to act as publishers in order to contribute to the content update of the web portal. Finally, it may happen that some of the regular users of BEYOND that will systematically use the interactive GIS map component (Section 2.3), will provide feedback aiming at enhancing the usability and adding functionalities. Such feedback will be considered in the periodical updates of the website.

4.2. Embedded wiki

This section is a special area named "*BEYOND Share*". BEYOND Share area is password-protected as it contains sensitive data and information, thus in principle and according to the user registration policy, different user Groups may have access to different subsets of the total content and facilities available.

More specifically the partners, the members of the Project Committees (Steering Committee, Advisory Committee), the members of the Project Management Board and the NOA Team will have access to regulated information, indicatively:

- PMB members will have access to the entire information and facilities.
- The partners and the members of the Project Committees will have access to Project Meetings related content, such as agendas, presentations, and minutes, to the project deliverables, etc.
- BEYOND NOA Team will have access to technical documents and related content.

Concerning the content itself, the "*BEYOND Share*" is intended to act as a content sharing web application, providing physical data management facilities, as well as central scheduling/coordination and the appropriate data management modules. More specifically, it contains a hierarchical tree-like menu leading to the BEYOND produced material, such as meetings, deliverables, the projects' document templates, etc. This section will also contain entries to content management modules namely a viewer to the Google docs cloud editing facilities, and an online project scheduler, holding project tasks and deliverables deadlines and notes.

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