

September 2016

MAGIC Website Specifications

# Purpose

This document provides the technical specifications and functional requirements for the development of the MAGIC project website (<http://magic-nexus.eu/>). The website is to function as a platform that unifies the different components of the MAGIC project: the Information System, the Knowledge Hub, and the Dialogue Space. It is structured to be simultaneously a **shared repository of knowledge** and a **platform for interaction between multiple social actors**.

# Description of the MAGIC Project

MAGIC (Moving towards Adaptive Governance in Complexity: Informing Nexus Security) is a Horizon 2020 Project. It takes a fresh look at the EU 2020 strategy’s aim for a smart, sustainable and inclusive growth set in the context of the existing recession, of the worrying signals of disaffection toward the European project and of science’s own governance crisis (Saltelli and Giampietro 2015). The focus is how this strategy does in tackling the Nexus. The goal of MAGIC is to transform Nexus from a shorthand to signify the complexity of the relationship between water, soils energy and climate into a set of relationship over identified factors which can be systematically used to explore this complexity (Giampietro et al. 2009; Giampietro et al. 2014; See also http://beta.thesustainabilitysudoku.info/more). This implies integrating into the analysis social challenges and stakeholders perceptions related to the clima-water-food-energy nexus. A new paradigm which has its focus in the generation and testing of narratives will render mainstream new salient terms such as ‘Nexus-analysis’, ‘Nexus-security’ and ‘Nexus-consistency’. Dialogue spaces will be opened, dissemination strategies enacted and mixed qualitative-quantitative tools developed in the context of a community building exercise transcending mechanistic scientist-policy maker separation (Funtowicz and Strand 2007) but taking full advantage of the rich spectrum of actors and institutions active in the Nexus. (QST). It integrates qualitative and quantitative styles of analysis.

# Website Front-end

## Website Design

The website overall graphic style follows the visual guidelines implemented for the MAGIC project, incorporating the project pre-defined colours and logo. The aim is to balance a modern look and feel that will stand the test of time whilst preserving a professional styling.

In order to provide an optimal viewing experience across a wide range of devices (from desktop computer monitors to smartphones), the design is by nature responsive, i.e. it will automatically adapt to the viewing environment of the various devices by using fluid proportion-based grids, flexible images, and CSS3 media queries.

## Website Structure

The website structure is envisaged to allow visitors to easily find and access all relevant information with a maximum number of *3 clicks*. The structure implemented emphasizes primarily on the three main sections: the Information System, the Knowledge Hub, and the Dialogue Space (Figure 1).



Figure 1: MAGIC website structure.

## Navigation

The navigation system is directly based on the website structure and likewise is to be intuitive and allow website users to quickly navigate to any content from any page. A **primary navigation menu** (Figure 2), common to all pages and located at the top area of the website links to the home page, main sections, and contact details.

Figure 2: Website primary navigation menu.

A **secondary navigation** (Figure 3), present as well in all pages but located in the footer area of the website, provides quick links to legal information related to the usage of the website (e.g. policies and disclaimers), the sitemap, and website administrative features.

Figure 3: Website secondary navigation menu.

The incorporation of an **internal search engine** and a **search function** in every webpage, positioned in the header or footer of the website, is done likewise to improve the website navigation. These functionalities provide users an alternative and convenient way to find specific content on the website by searching for specific words or phrases.

## List of Pages

|  |  |
| --- | --- |
| Homepage | Website welcome page. It is composed by multiple content areas namely:   * Banner/carousel highlighting specific content in a rotating format; * News feed; * Upcoming events; * Recent resources; * Twitter feed; |
| About | - |
| * Project Details | Detailed description of the project (static content). |
| * Project Phases | Detailed description of the various phases of the project (static content). |
| * Consortium | List of partners and their description. |
| Events | - |
| * Workshops | List of past and upcoming Workshops. |
| * Seminars | List of past and upcoming Seminars. |
| * Webinars | List of past and upcoming Webinars. |
| Information System | - |
| * Metadata Repository | TBD |
| * Visualization Methods | TBD |
| Knowledge Hub | - |
| * Case Studies | List of MAGIC cases studies. |
| * Documents Repository | Library of documents and other relevant materials authored in the context of the project or relevant to the project. Includes:   * Project documents; * Scientific Publications; * Teaching Materials.   The documents are sub-categorized by topic (TBD) and type (Report, Presentation, Toolkit, Guidelines, …) |
| * Videos | Collection of videos produced during the project or related to. |
| * Links | Collection of relevant websites related to the project (type of *scoop.it*). |
| * FAQ | Updatable list of common questions and answers, organised by topic (TBD). |
| Dialogue Space | - |
| * Virtual Engagement Room | Web application designed specifically to support remote and distributed deliberation sessions (similar to *Apache OpenMeetings*). It enables participants to engage in real-time discussions about specific topics. For this purpose, several tools are available to help the participants express their opinions and ideas such as video conference, group chat, shared file viewer, online surveys, whiteboard/Mind Map tool and *share your screen* functionality. Access to each session is restricted to invited/authenticated users. Sessions can be recorded. |
| * Discussion Forum | Moderated space where users can exchange ideas, information, and suggestions and engage in open discussions on various subjects related to the project in the written format, asynchronously. Users must be invited to participate. There is the possibility to opt for email notifications. |
| * Ask a Question | Enables users to post questions and answers in a Q&A system style. Includes selection of correct/best answer by question author, voting on best answers by users, email notifications, question tags (user defined) and labels (open, close, duplicate), and comments on questions and answers. |
| Contacts | Page with contact details and contact form. |
| Sitemap | Page that lists every page that compose the website in hierarchical fashion, accessible to crawlers and users. |
| Terms of Use | Static page with the rules that one must agree to regarding the use of the website. |
| Privacy Policy | Static page informing the ways the website uses, discloses, and manages the user’s data. |
| Login | Allows users to authenticating themselves in the website, by means of a "username" and a matching "password", and access the website management functionalities. It is possible to use a Facebook account for the login. When access is no longer needed, users can log out. |

## Social Media

The integration of social media features in MAGIG website is a relevant aspect. MAGIC Facebook (<https://www.facebook.com/MagicNexusEu>) and Twitter (<https://twitter.com/MAGIC_NEXUS>) accounts are always accessible from the secondary navigation menu. Moreover, the website homepage incorporates a live Twitter feed, listing the most recent tweets. Each page also allows the sharing of its content in social media channels such as Facebook, Twitter and LinkedIn through a *share button*.

# Website Back-end

## Content Management System

The website is to be implemented using an open-source content management system (CMS), either WordPress or Drupal. The main objective of the CMS is to facilitate and simplify the administration of the website, namely structure, content and members via web browser. The CMS intuitive graphical user interface smooths the managing operations, allowing the website administrators to easily control the creation, modification and removal of content without requiring to code. A WYSIWYG text editor and a built-in image and multimedia upload manager improve the CMS functionalities.

## Content Structure

|  |  |  |
| --- | --- | --- |
| Content Type | Content Structure | Data Structure |
| Homepage | Content generated dynamically based on other content types. | - |
| Static Page   * Project Overview * Project Phases * Terms of Use * Privacy Policy * (…) | Title \*  Content \*  Author \*  Date of creation \* | {VARCHAR field: 255 char}  {LONG TEXT field}  {VARCHAR field: 100 char}  {DATE field} |
| Consortium Page | Content generated dynamically based on the content *Consortium Partner* | - |
| Consortium Partner | Partner Logo \*  Partner Description \*  Partner Link  Partner Team ◊   * Team Member Name \* * Team Member Position * Team Member Biosketch \* | {IMAGE field: png; jpg}  {LONG TEXT field}  {URL field}  -  {VARCHAR field: 100 char}  {Multiple Options: TBD}  {LONG TEXT field} |
| Events | Content generated dynamically based on the content *Workshops*, *Seminars*, and *Webinars.* | - |
| Workshops  Seminars  Webinars | Title \*  Description \*  Date \*  Venue \*  Support Material ◊   * Title * File   Event Type \*  Author \*  Date of creation \* | {VARCHAR field: 255 char}  {LONG TEXT field}  {DATE field}  {VARCHAR field: 100 char}  -  {VARCHAR field: 100 char}  {FILE field: pdf}  {Custom Taxonomy field options:   * Events.Workshop; * Events.Seminar; * Events.Webinar}   {VARCHAR field: 100 char}  {DATE field} |
| Information System | - | - |
| Metadata Repository | TBD |  |
| Visualization Methods | TBD |  |
| Knowledge Hub | - | - |
| Case Studies | Title \*  Description \*  Location \*  Support Material ◊   * Title * File   Author \*  Date of creation \*  (Other fields (?)) | {VARCHAR field: 255 char}  {LONG TEXT field}  {VARCHAR field: 100 char}  -  {VARCHAR field: 100 char}  {FILE field: pdf}  {VARCHAR field: 100 char}  {DATE field}  (…) |
| Documents Repository | Title \*  Description \*  File \*  Language (?)\*  Document Type \*  Author \*  Date of creation \* | {VARCHAR field: 255 char}  {LONG TEXT field}  {FILE field: pdf}  {Multiple Options: TBD}  {Custom Taxonomy field options:   * Documents.Project\_Documents; * Documents.Scientific\_Publications; * Documents.Teaching\_Materials }   {VARCHAR field: 100 char}  {DATE field} |
| Videos | Title \*  Description \*  YouTube URL \*  Author \*  Date of creation \* | {VARCHAR field: 255 char}  {LONG TEXT field}  {URL field}  {VARCHAR field: 100 char}  {DATE field} |
| Links | Title \*  Description \*  URL \*  Category (?) \*  Author \*  Date of creation \* | {VARCHAR field: 255 char}  {LONG TEXT field}  {URL field}  {Custom Taxonomy: TBD}  {VARCHAR field: 100 char}  {DATE field} |
| FAQ | Question \*  Answer \*  Category (?) \*  Author \*  Date of creation \* | {VARCHAR field: 255 char}  {LONG TEXT field}  {Custom Taxonomy: TBD}  {VARCHAR field: 100 char}  {DATE field} |
| Dialogue Space | - | - |
| Virtual Engagement Room | Custom Web Application. Includes video conference, group chat, shared file viewer, online surveys, whiteboard/Mind Map tool and *share your screen* functionality. | - |
| Discussion Forum | Custom web forum feature / module | - |
| Ask a Question | Custom feature / module | - |
| Online Survey | Custom feature / module | - |
| Contacts | Contact Form | - |
| Sitemap | Content generated dynamically based on website structure. |  |

\* Mandatory fields

◊ Allows for multiple entries

## Server and Hosting Specifications

The website will be hosted in-house (TBD). The server must allow web conferencing with video capabilities.

# Additional Requirements

## Newsletter

The website newsletter system allows administrator to create and send email based newsletters, either in Plain text or HTML, to a list of subscribers. Users have the possibility to subscribe to the newsletter via the website, by providing their email address, and are able to unsubscribe at any moment through the unsubscribe link provided in every newsletter. The content of each newsletter can be created automatically based on pre-existing content available on the website (e.g. based on recent news or events) or can be created from scratch, manually by the administrator.

## Print and PDF Export Functionality

The Print and PDF Export functionality adds the possibility to print a Plain text version of the current web page or alternatively to export it to PDF format.

## Accessibility

The website must comply with the standards of accessibility contained in W3C WAI level A Guidelines.

# Timescale

The website is planned to be fully functional on March 2017 (M9 after kick-off meeting of MAGIC project).

# Contacts

If you have questions or comments regarding this document, please contact:

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| Paulo | \*\*\* |
| Ângela | \*\*\* |