

REBUILD

ICT-enabled integration facilitator and life rebuilding guidance

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Deliverable: D.8.1 Development of project website

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ABSTRACT

This document illustrates the main features of the project's website, realized based on the specifications given in WP8, as Deliverable D8.1.

This document illustrates the design options affecting the conception of the Logo, the choice of the Color Palette characterizing the "Brand Identity" of REBUILD, the establishment of the main and additional fonts for the project's printing works and the establishment of the printing and graphical specifications for realizing the Home Page and the inner pages of the REBUILD website.

In the following section, we illustrate the technologies on which the REBUILD website relies. In addition, there is a detailed illustration of the sections included into REBUILD website in its launching phase and more specifically:

- The **Home Page**
- **Project Activities**, hosting also sections including a description of the project activities, the work packages and deliverables
- Digital Companion, illustrating the project's main development ambitions: the design and development of the "Digital Companion" aimed at immigrants and refugees;
- **News & Media**, a section supplying a press reviews, press releases, news and events management;
- **Contacts**, allowing the website users (also anonymous users) to get in touch with the REBUILD project team.

The website of the REBUILD project can be freely navigated at the URL: https://www.rebuildeurope.eu



1 INTRODUCTION

This document describes the development of project website. Type: DEC. A platform for ongoing public engagement, including areas for news releases, project reports and technical documentation.

The website is available at the URL: https://www.rebuildeurope.eu.

Special attention was devoted to establishing the website digital identity, which is meant at respecting the project's mission.

The portal utilizes a scalable architecture allowing increasing its performances when new resources are brought in, on the single server (RAM, CPU, etc.) as well as by adding other servers in order to share the workload. This allows maintaining good performance levels even with an increase of the users' numbers.

UNINETTUNO utilizes the Amazon Web Services (AWS) to maintain its own hardware and software architecture, being Amazon WS one of the biggest Internet cloud service suppliers across the world.

The system includes a big Internet-based portal with information sections and learning environments, based on a database meant to structuring, storing and retrieving information and supported by applications for the delivery of on-demand educational content also in a streaming technology video format.



2 HARDWARE AND SOFTWARE INFRASTRUCTURE

UNINETTUNO uses Amazon Web Services (AWS) to manage its own Hardware and Software architecture, provided Amazon WS is one of the biggest Internet cloud service providers all over the world.

2.1 AWS GLOBAL INFRASTRUCTURE

The AWS cloud operates in 38 availability zones across 14 geographic regions of the world, with other 9 availability zones and 4 further regions that will be on the network during next year.

2.1.1 Regions and availability zones of AWS

The cloud infrastructure of AWS is based on regions and availability zones or AZ (Availability Zone). A region is a geographic area, where several availability zones exist. Availability zones consist of or more data centers provided with redundant charge, network and connectivity, in its own separate structure each. These availability zones allow to carry out applications and databases in production environments with availability, tolerance to malfunctions, scalability, which are not to be attained in another way within the single data center. The AWS cloud operates in 38 availability zones across 14 regions all over the world.

2.1.2 Global Infrastructure

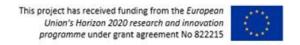


Figure 1 - AWS global infrastructure









AWS GovCloud(2)	Montreal
Western United States Oregon (3), North California (3)	London
	Paris
Eastern United States North Virginia (5), Ohio (3)	Ningxia
South America San Paolo (3)	
EU Ireland (3), Frankfurt (2)	
Asia Pacific Singapore (2), Sydney (3), Tokyo (3), Seoul (2), Mumbai (2)	
China Beijing (2)	

2.1.3 High availability thanks to the availability zones

In contrast to almost all the other technology infrastructure providers, AWS envisages that each region has several zones of availability and data center. AWS leads the technological cloud platform since 2006, so it knows the key role that application availability and performance play for clients, and provides the possibility of spreading its applications across different availability zones within the same region in order to enhance the tolerance to malfunctions and curb the latency. The availability zones are connected to each other with very fast optic fiber private networks, allowing the clients to design applications to run the failover on different zones, without causing interruptions.

2.1.4 More continuity with the replication between regions

Besides replicating the applications and data in different data centers within the single region by using the availability zones, it is also possible to obtain increased redundancy and tolerance to the malfunctions by replicating data over different regions. It is possible to use both high-speed private networks, and public Internet connections, so as to further improve the continuity and keep latency under control all over the world.

2.1.5 Compliance requirements and physical position of data

With AWS it is possible to select in which region to physically stock the data, simplifying the compliance to territorial requirements.

2.1.5.1 Europe / Middle Est / Africa



Figure 2 - AWS Europe / Middle Est / Africa

EU Region (Ireland) Availability zones of EC2: 3 Kicked-off in 2007

EU Region (Frankfurt) Availability zones of EC2: 2 Kicked-off in 2014

Edge location of AWS: Amsterdam, Low Countries (2); Dublin, Ireland; Frankfurt, Germany (5); London, England (3); Madrid, Spain; Marseille, France; Milan, Italy; Paris, France (2); Stockholm, Sweden; Warsaw, Poland.

2.2 CONTENT MANAGEMENT SYSTEM (CMS)

The *Content* module is carried out by means of the Content Management System (CMS) by Mojo (Open Source component).

Mojo uses an infrastructure for collaborating among users, and sharing information.

Mojo's main features are:

Cross Platform - Runs under Windows/IIS or Mono/Apache with most GNU/Linux distributions or Mac OS X

- Works with MS SQL Server, SqlAzure, MySQL, PostgreSQL, Firebird Sql, and SQLite databases
- Host multiple sites on 1 installation and db with host names or folders delineating the sites and optional related sites mode to share users and roles across sites
- XHTML or HTML 5 Compliant Content Management with support for work flow and approval/publishing process
- Custom Skinning with support for user selectable skins and individual skins per page. mojoPortal ships with about 30 good looking skins that you can use as a starting point for a custom skin.
- Numerous attractive skins with Table-less CSS layouts
- Enter content with the TinyMCE, FCKeditor, CKeditor or XStandard HTML WYSIWYG
- Blogs

- Re_Build
 - Forums
 - Image Gallery
 - Alternate Folder Gallery
 - Flickr Gallery with Silverlight slide show
 - RSS Feed Aggregator
 - Twitter integration to show the tweets of a user or a twitter search
 - Event Calendar
 - Contact Form
 - Poll Feature currently only available using MS SQL or MySQL
 - Survey Feature currently only available using MS SQL or MySQL
 - Newsletter
 - Shared Files module looks and acts like the File Manager module but stores and manages files in a
 safe way on the server. Folders are really database items as are the friendly file names. Files are
 stored securely in a special folder and named using guid strings and a .config extension. This prevents
 them from being requested or served with a normal http request. Authorized users can download
 because the module serves them using Response.WriteFile. The module also supports versioning of
 files.
 - Google Maps
 - Easily Customizable User Profile System
 - Member List Page
 - Bread Crumbs
 - Flexible Menu system
 - Localizable, currently translated into 10 languages
 - Configure use of SSL for the whole Site or per Page
 - Url Re-writing for mapping friendly Urls to site pages and blog posts
 - Site Search integrated across features with Role based filtering
 - Error logging and optional debug logging
 - Authenticate against the database, LDAP, Active Directory, Windows NTLM, OpenID, or Windows Live
 ID
 - Personalization with WebParts
 - Site Statistics and Who Is Online
 - Content Workflow
 - Content Versioning
 - Content Template System
 - Content Style Template System
 - Content Widgets like jQuery Accordion and jQuery Tabs
 - SEO (Search Engine Optimization) built in
 - 301 Redirect Manager
 - Integrated Google Analytics

3 VISUAL IDENTITY

The establishment of the digital identity relied on a process of aggregation of the project main concepts that were represented by some key words.

Keywords – to be considered in the design process

- Reconstruction
- Integration
- Communication
- Interaction
- Solutions
- Technology
- Facilitator
- Guidance
- Lie rebuilding
- Quality of life
- Linguistic barriers
- Migrants
- Refugees
- Public Administration
- Local Authority
- Europe

3.1 ISOTYPE

The isotype utilizes the R and B initials of its name and exploits the curved and strong features of these two letters to conceptualize the word reconstruction through symbolic blocks that can be easily interpreted by immigrants and refugees, by eliminating linguistic barriers.



Figure 3 – Monochromatic version of the isotype

3.2 LOGOTYPE

The printing logo can be put in various places, whereas the "ICT-enabled integration facilitator and life rebuild guidance" slogan can be added or eliminated depending on the use. The suggested printing font is Glyon, a Sans Serif that is quickly readable and easily adapted to the various languages.

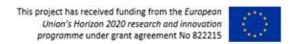


Figure 4 - Monochromatic version of the logotype

The chosen color encourage communication, the required interaction and confidence to rebuild a life far from the country of origin, besides being linked to technology, modernity and to Europe's colors.



Figure 5 – Color version of the logotype





Blue represents confidence, professionalism and trustworthiness; yellow can be associated to optimism, friendliness and courage, a quality of both local authorities and of the immigrants and refugees.

3.2.1 Possible applications

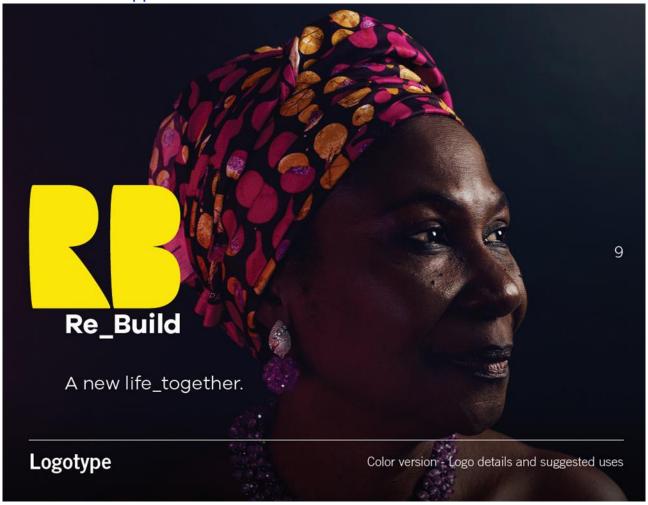


Figure 6 - Logotype possibile applications - 1

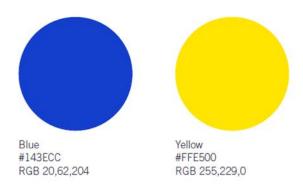


Figure 7 - Logotype possibile applications - 2



3.3 COLOR PALETTE

Primary Colors



Secondary Colors



Color Palette

Primary and secondary colors chosen for the brand and the logo

12

Figure 8 - REBUILD Color Palette

3.4 TYPOGRAPHY

Primary Typography

AaBbCc

Galyon Regular Galyon Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890\$%&!?

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 1234567890\$%&!?

Complementary Typography



Tahoma Regular

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopgrstuvwxyz 1234567890\$%&!?

Tahoma Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopgrstuvwxyz 1234567890\$%&!?

Typography

Primary and complementary typographies chosen for the brand and the logo

Figure 9 - REBUILD Typography

13

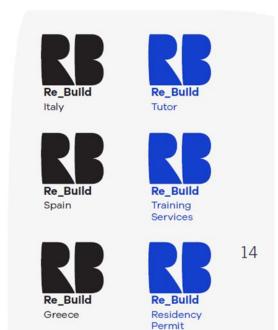












Typography

Primary and complementary typography - Suggested uses

Figure 10 - REBUILD main and complementary typography



3.5 VERSIONS OF THE LOGO

Consequently, the logo was formulated in different versions, with and without an official copy text, in order to allow its use for different materials and contexts (elements of the website, electronic documents, prints, brochures, televised products).

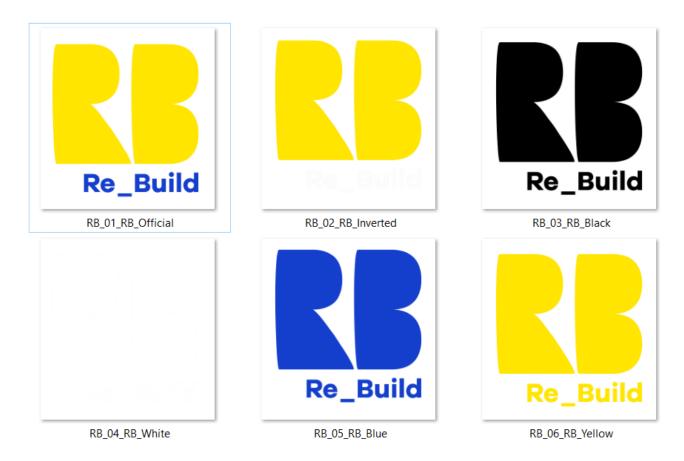


Figure 11 - Logo versions - no copy

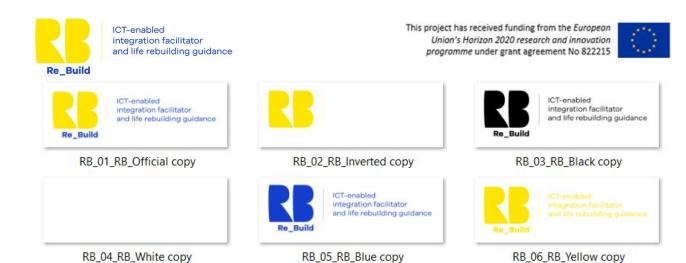


Figure 12 - Logo versions - with copy



3.6 Website Homepage Specifications

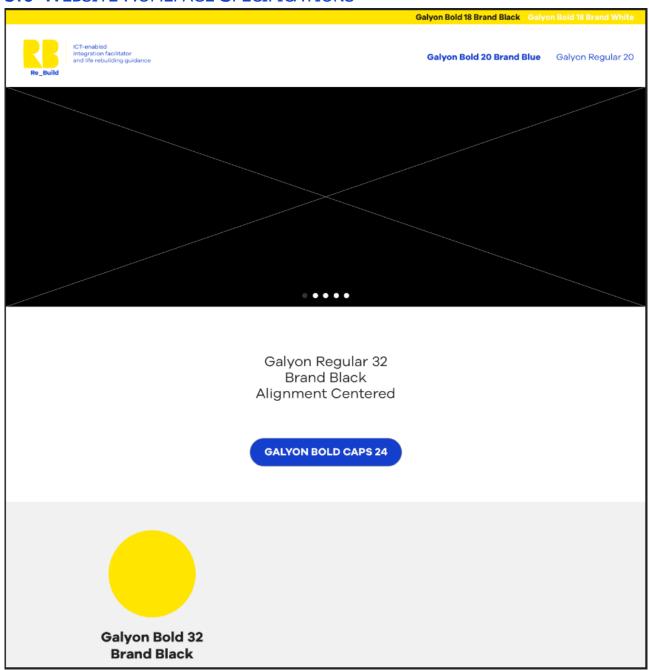


Figure 13 - REBUILD Homepage Specifications – 1

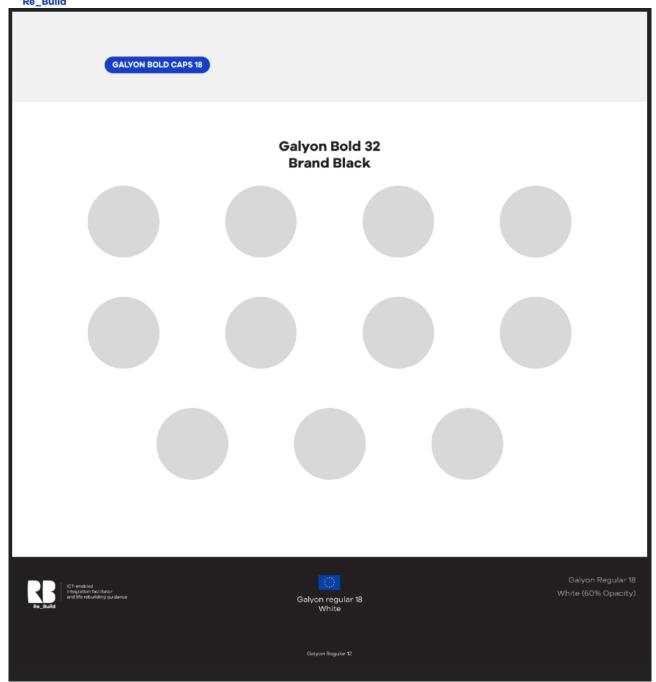


Figure 14 - REBUILD Homepage specificaitons - 2



4 Website Features

4.1 CONTENT MANAGEMENT SYSTEM

The system is able to display general information. This information is stored into the database of the portal and it is possible to display it through a *Content Management System*. The management of institutional information can allow displaying news related to the teaching activities or to initiatives of particular importance, pages with a description of the sections of the portal, lists of names and of organizations involved etc.

An editor enters the contents by through an *editing system,* by means of which it is possible to class information and enter key words for searching purposes.

Information and contents are stored into the *database* and made available thanks to a *publication system*. This publication system accepts the users searching and navigation parameters and, based on these ones, it retrieves the contents, displaying the searched information on the screen according to the mode set by the editor.

Additionally, the implemented CMS allows for a multilingual management of the website. At the time of the its online launching, the REBUILD website is available in an Italian and English version; its technological architecture already allows for posting items in all the areas in the Greek, Spanish and Arab languages; the production of contents in these languages is already in underway.

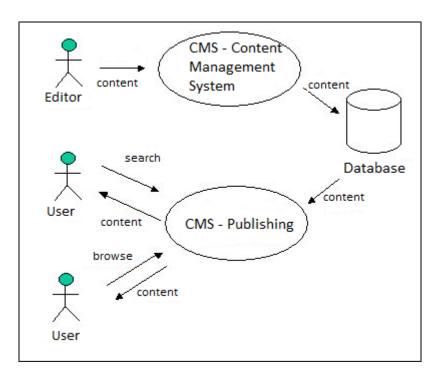


Figure 15 – Interaction chart with the editing and publication system



4.2 STRUCTURE OF THE WEBSITE

4.2.1 Homepage

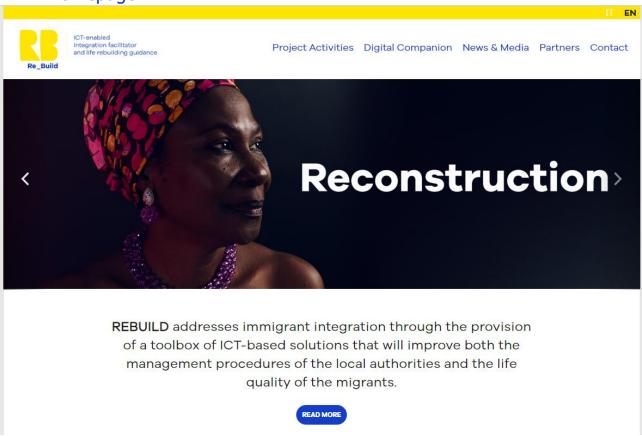


Figure 16 - REBUILD Homepage online



This area presents the description of the project and a description of each Work Package of REBUILD. Within this area, a specific project management subsection is reserved to project partners; designed for managing and monitoring project activities, here REBUILD partners will be able to provide and access to their scientific contributions, project deliverables, project activities status, contractual and administrative documents.





The Digital Companion, or ChatBot, is designed to support a more effective communication among migrants and Public Administrations. The customized interaction experience will provide users information taylored on their specific needs and skills, and will enable public administration to acquire relevant, data-driven information aiming to improve, in terms of relevance and effectiveness, the service provision to migrants and refugees.





This area hosts all the modules and information related to REBUILD project communication and dissemination activities: this section provides access to News, Press Releases, Media Releases, and Events related to REBUILD project.



Project Partners

























Figure 17 - REBUILD Homepage online - 2

4.2.2 Project Activities

This area includes all project public information: the Work packages, the activities, the deliverables and the Project Management tools.

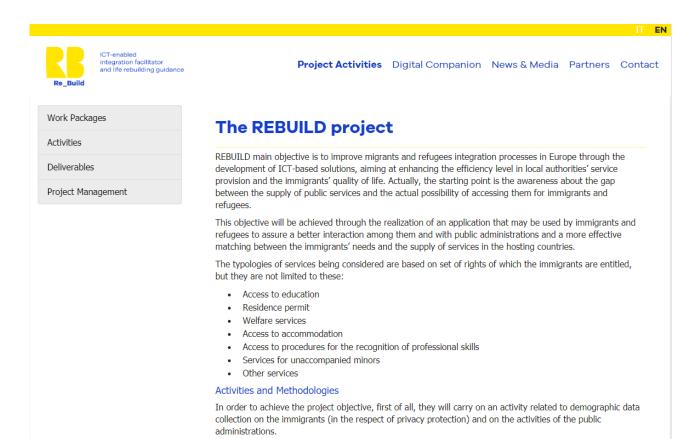


Figure 18 - REBUILD Website - Project activities

4.2.2.1 Work Packages

This area includes a list of all the work packages with their respective objectives.

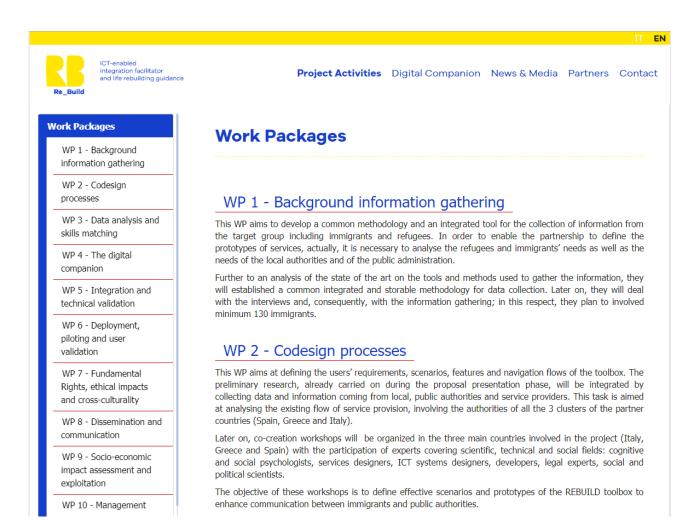


Figure 19 - REBUILD Website - WP Description



4.2.2.2 Activities

This area includes the details of all activities of each work package, including detailed descriptions, involved partners and partner in charge, the list of deliverables connected to the activities.

The status of the activities is highlighted by a color: red for activities in their initial phase (0-50%), orange for activities for activities in an advanced phase (50-80%), and green for activities in their concluding phase (80-100%).

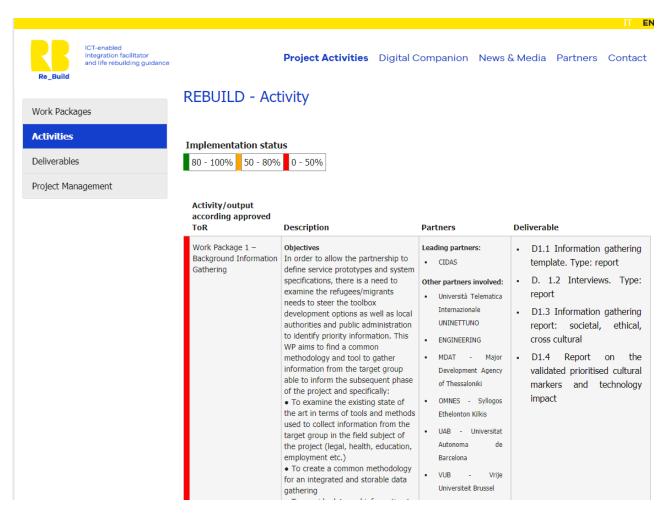


Figure 20 - REBUILD Website - Activities



4.2.2.3 Deliverables

In this area there is a list of all the deliverables including, for each one, which activity it is the result of, the partner in charge of the deliverable and the month by which it should be completed. E colored table highlights the project status: red for the deliverable that should be realized, orange for those already in progress, green for the completed ones

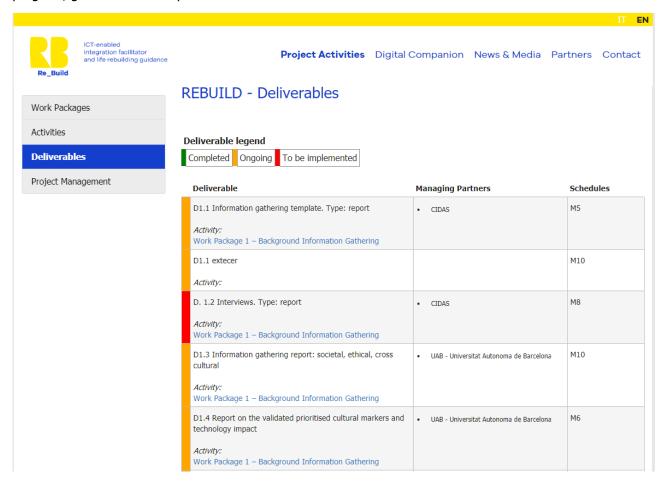


Figure 21 - REBUILD Website - Deliverables



4.2.2.4 Project Management

This area of the website is aimed at the project management and it is described in the Deliverable 10.1 Management Website.

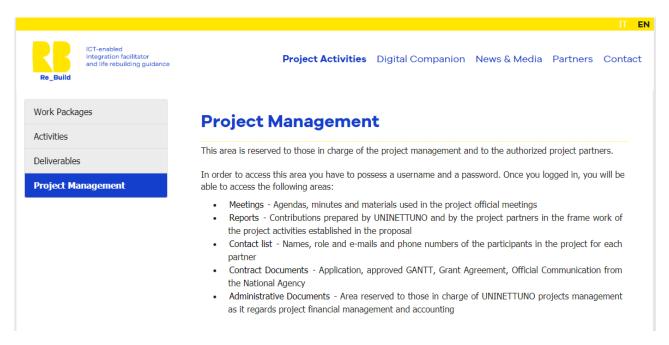


Figure 22 - REBUILD Website - Project Management

4.2.3 Digital Companion

A chatbot service will be at the core of the Digital Companion, which will have the task of supporting a more effective communication between the Public Administrations and the immigrants. A customized interaction will enhance the way in which information is supplied to the user depending on his needs and skills.

EN



Project Activities Digital Companion News & Media Partners Contact

Data Analysis

Digital Companion - Chat Bot

A rule based chatbot service will be the core of the digital companion, as a set of tools that will support the effective communication between PAs and migrants on the benefit of both. The personalized interaction will enhance the way information is fed to user according to the needs and capacity.

A basic vocabulary will be defined, respecting existing standards and common knowledge, to provide an efficient tool for communication. In parallel to the designed visual language, the English language and/or the national (locally spoken) language will be available as an extra tool that helps in the faster integration.

Short audio and visual information that is available online in multiple languages, to help illiterate people learn their new society and guide their way to interact with the public authorities and public or private services.

The rule-based chatbot will be able to reply to common questions from migrants and authorities and reply with data coming from the analysis modules. A routing component will be developed and will be responsible to hand-off discussions to community members, volunteers or integrated migrants, which the chatbot can't manage

A self-learning system for improving service customization based on a self-adaptive process, which can learn not only from user's interaction but also from other user's experience by means of innovative statistical methods.

The digital companion will also be responsible to provide fact-based information to enhance the public perception of migration. The companion will give information to any interested party, local citizens or any other who is interested for the impact of migration at a local and a national level. To do this, except for the commonly asked data related questions, the digital companion will automatically create infographics based on previous questions and existing data.

Figure 23 - REBUILD Website - Digital Companion - Chat Bot



4.2.4 News & Media

In this area, news and information for the media are available. We realized the following forms:

- News
- · Press Review
- · Press Release
- Events

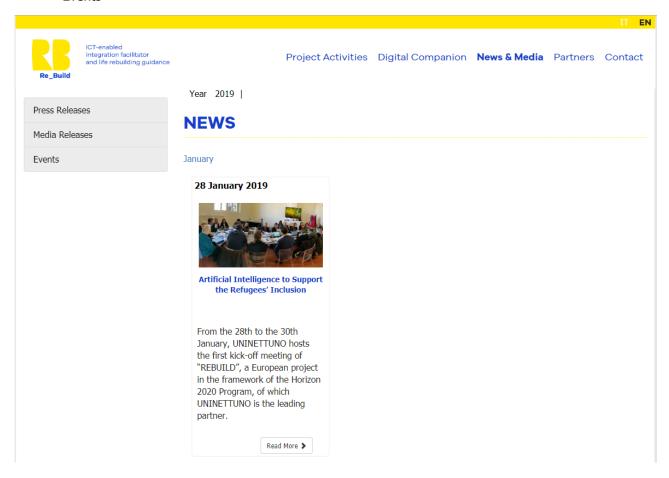


Figure 24 - REBUILD Website - News & Media

4.2.5 Partners

This area includes all the project partners.

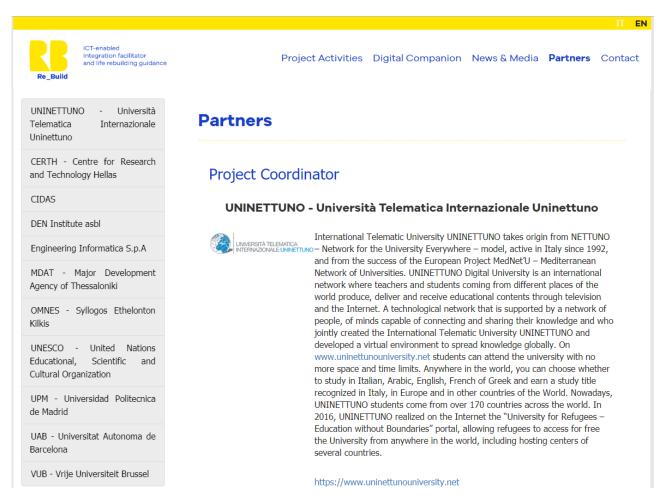


Figure 25 - REBUILD Website - Partners



4.2.6 Contacts

This area includes a contact form allowing anybody navigating the website (including non-registered / anonymous users) to get in touch with the REBUILD project team by sending an e-mail using the form posted in this page.



Project Activities Digital Companion News & Media Partners Contact

Contact

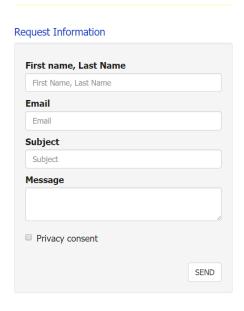


Figure 26 - REBUILD Website - Contacts



REBUILD

ICT-enabled integration facilitator and life rebuilding guidance

Deliverable: D.8.1 Development of project website



This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 822215.