



Grant Agreement n°: 311935

Project acronym: BRIGIT

Project Title: New tailor-made biopolymers produced from lignocellulosic sugars waste for highly demanding fire-resistant applications.

Funding scheme: Collaborative project

Start date of project: 01/08/2012

Duration of project: 48 months

Deliverable n° & name: [D9.2: Project Website](#)

Due date of Deliverable: [October 2012](#)

Actual date of Deliverable: [October 2012](#)

Participant responsible: [AIMPLAS](#)

Date of the last version of the Annex I against which the assessment will be made: 11/05/2012

Project coordinator: AIMPLAS

Dissemination Level		
PU	Public	√
PP	Restricted to other programme participants (including the Commission	
RE	Restricted to a group specified by the consortium (including the Commission	
CO	Confidential, only for members of the consortium (including the Commission Services)	

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1. Summary and Objectives

This report corresponds to Deliverable 9.2 from Work Package 9 of the BRIGIT Project.

The main goal of the project is to develop a cost-competitive and environmentally friendly continuous process to produce biopolymers (PHB and PBS) from waste-derived lignocellulosic sugar feedstock liquor of wood sulphite pulping process based on “in-situ” fermentation process and new fermentation culture technology without alteration of the quality of current lignosulphonates.

The goal of the WP9 is to carry out the technology transfer, exploitation and dissemination of knowledge generated in the project.

The aim of this report is to give some information about the project’s website and the possibilities that it offers to partners and to a wider audience external to the Project.

2. The WEBSITE

The website for a project is a very useful tool for communication; the partners can share documents and publish interesting information. Also it is a window to the general public to generate an interest for the project and to disseminate the work done and the results achieved.

The internet domain “.eu”, has been considered to be the most adequate for an European project. The website URL is: **www.brigit-project.eu**

The website is organized into **6 key areas**: Home, About the Project, Partners, Intranet, Technological Watch (TW) Service and Contact.

Home directs the Internet user to the main page (Figure 1) and it displays the main information about the Project:

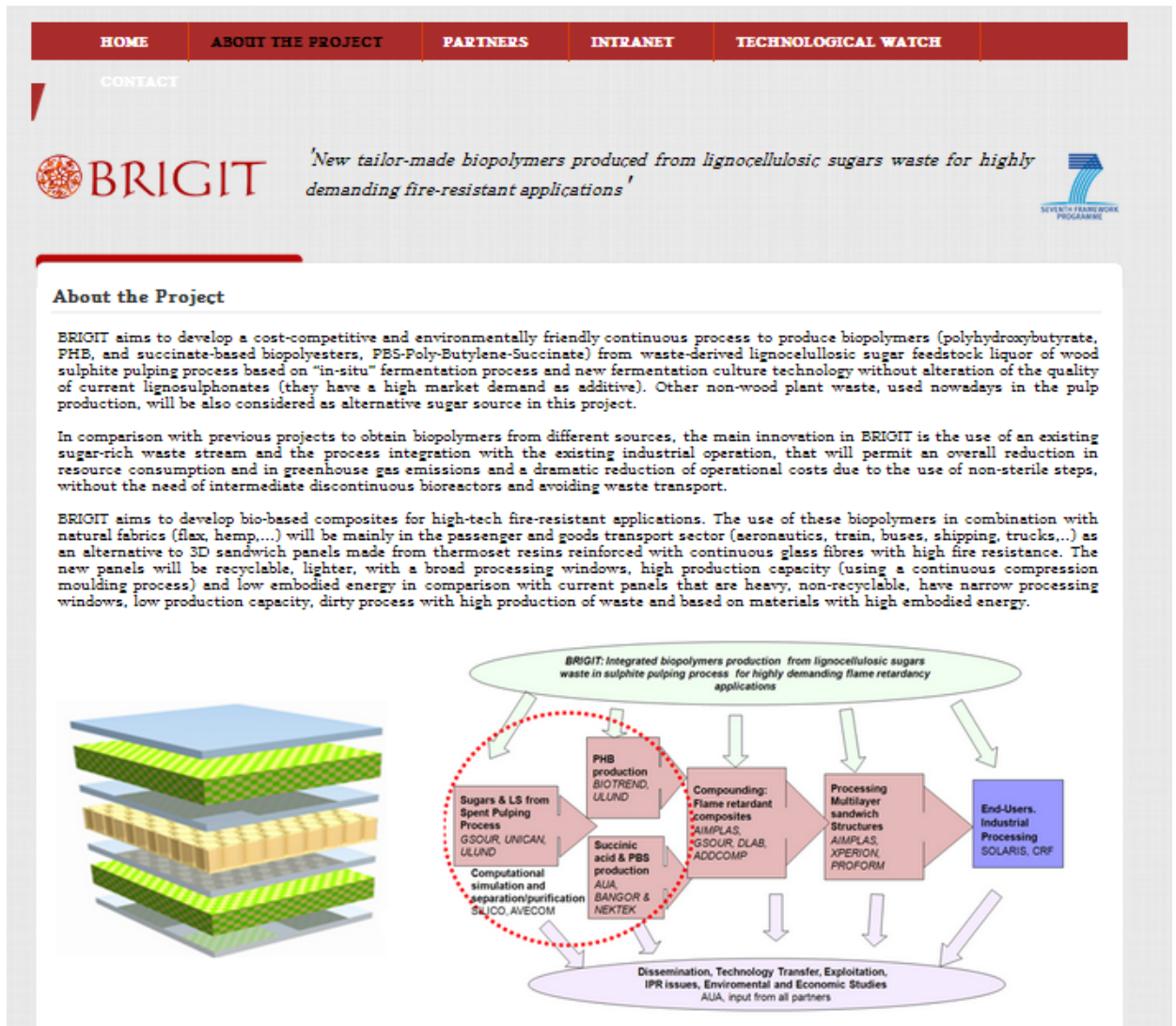
- Aim and contractual data of the project.
- Project objectives.
- Updated news about the Project progress.
- News related to the Project topic.
- Short partners' information.



The screenshot shows the BRIGIT home page with a navigation bar at the top containing: HOME, ABOUT THE PROJECT, PARTNERS, INTRANET, and TECHNOLOGICAL WATCH. The main content area features a large banner with the heading "BRIGIT OBJECTIVES" and a description: "To develop a cost-competitive and environmentally friendly continuous process for biopolymers (PHA and succinic-based biopolyesters) production from...". Below the banner, there are sections for "Welcome to BRIGIT" (describing the project's goal to produce biopolymers from waste-derived lignocellulosic sugar feedstock), "New Publications" (listing three items: Official Doc, Publication 1, and Publication 2), and "Technological Watch" (listing several news items about packaging solutions, TenCate and BASF collaborations, and material synthesis). A "Partners" section displays logos for AIMPLAS, UC, biotrend, SILICOLIFE, Avecom, BC, NEXTEK, Daren Labs, GREEN, and ADDCOMP. A central box highlights the "Grant Agreement n°: KBBE-2012-6-311035" and the project title "KBBE2012.3.4-02: Biotechnology for novel biopolymers".

Figure 1.- BRIGIT home page.

About the Project (Figure 2) contains a brief overview of the BRIGIT project.



HOME **ABOUT THE PROJECT** **PARTNERS** **INTRANET** **TECHNOLOGICAL WATCH**

CONTACT

BRIGIT *'New tailor-made biopolymers produced from lignocellulosic sugars waste for highly demanding fire-resistant applications'*

About the Project

BRIGIT aims to develop a cost-competitive and environmentally friendly continuous process to produce biopolymers (polyhydroxybutyrate, PHB, and succinate-based biopolyesters, PBS-Poly-Butylene-Succinate) from waste-derived lignocellulosic sugar feedstock liquor of wood sulphite pulping process based on "in-situ" fermentation process and new fermentation culture technology without alteration of the quality of current lignosulphonates (they have a high market demand as additive). Other non-wood plant waste, used nowadays in the pulp production, will be also considered as alternative sugar source in this project.

In comparison with previous projects to obtain biopolymers from different sources, the main innovation in BRIGIT is the use of an existing sugar-rich waste stream and the process integration with the existing industrial operation, that will permit an overall reduction in resource consumption and in greenhouse gas emissions and a dramatic reduction of operational costs due to the use of non-sterile steps, without the need of intermediate discontinuous bioreactors and avoiding waste transport.

BRIGIT aims to develop bio-based composites for high-tech fire-resistant applications. The use of these biopolymers in combination with natural fabrics (flax, hemp,...) will be mainly in the passenger and goods transport sector (aeronautics, train, buses, shipping, trucks,...) as an alternative to 3D sandwich panels made from thermoset resins reinforced with continuous glass fibres with high fire resistance. The new panels will be recyclable, lighter, with a broad processing windows, high production capacity (using a continuous compression moulding process) and low embodied energy in comparison with current panels that are heavy, non-recyclable, have narrow processing windows, low production capacity, dirty process with high production of waste and based on materials with high embodied energy.

BRIGIT: Integrated biopolymers production from lignocellulosic sugars waste in sulphite pulping process for highly demanding flame retardancy applications

Sugars & LS from Spent Pulping Process
GSOUR, UNICAN, ULUND

PHB production
BIOTREND, ULUND

Succinic acid & PBS production
AUA, BANGOR & NEXTEK

Computational simulation and separation/purification
SILICO, AVECOM

Compounding: Flame retardant Composites
AIMPLAS, GSOUR, DLAB, ADDCOMP

Processing Multilayer sandwich Structures
AIMPLAS, XPERION, PROFORM

End-Users, Industrial Processing
SOLARIS, CRF

Dissemination, Technology Transfer, Exploitation, IPR issues, Environmental and Economic Studies
AUA, input from all partners

Figure 2.- About the Project.

The **Partners** area includes a short description of each Project partner and how they are linked to each other. Figure 3 shows an image of this part of the website.



Figure 3.- Partners.

Intranet (Figure 4a.): This is the private area where all the private documents related to the BRIGIT project (i.e. deliverables, milestones, etc.) can be found. Access to the intranet is gained by using your user name and your password. There is a password reminder, if needed.



Figure 4a.- Intranet

The **Intranet** area comprises the following three sections (showed in Figure 4b):

- “Project Plan” where the Project deliverables and milestones can be easily uploaded;
- “Project Files” where from all reports can be downloaded, being also able to upload all the Project reports in their corresponding folder; and
- “Bibliography” where partners can exchange all the documents they find interesting for the Project progress.

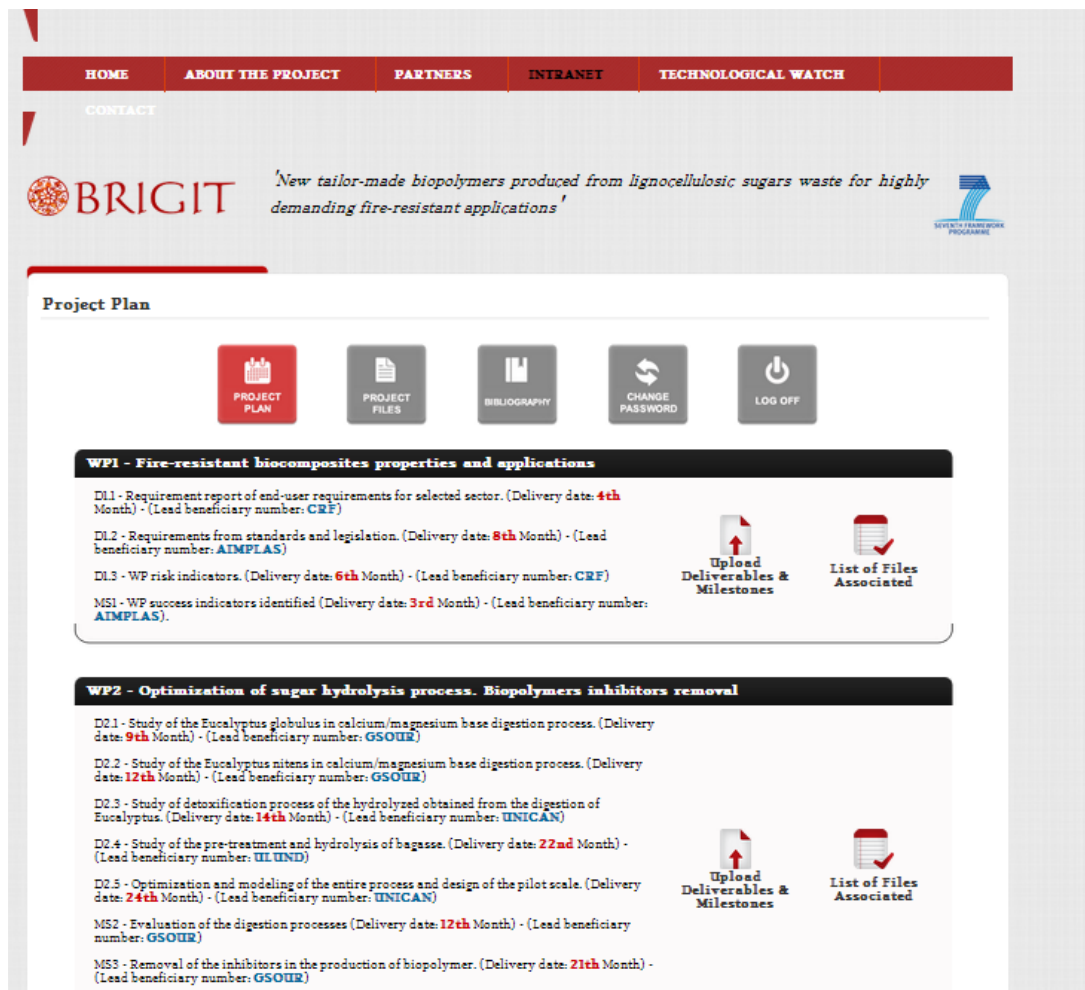
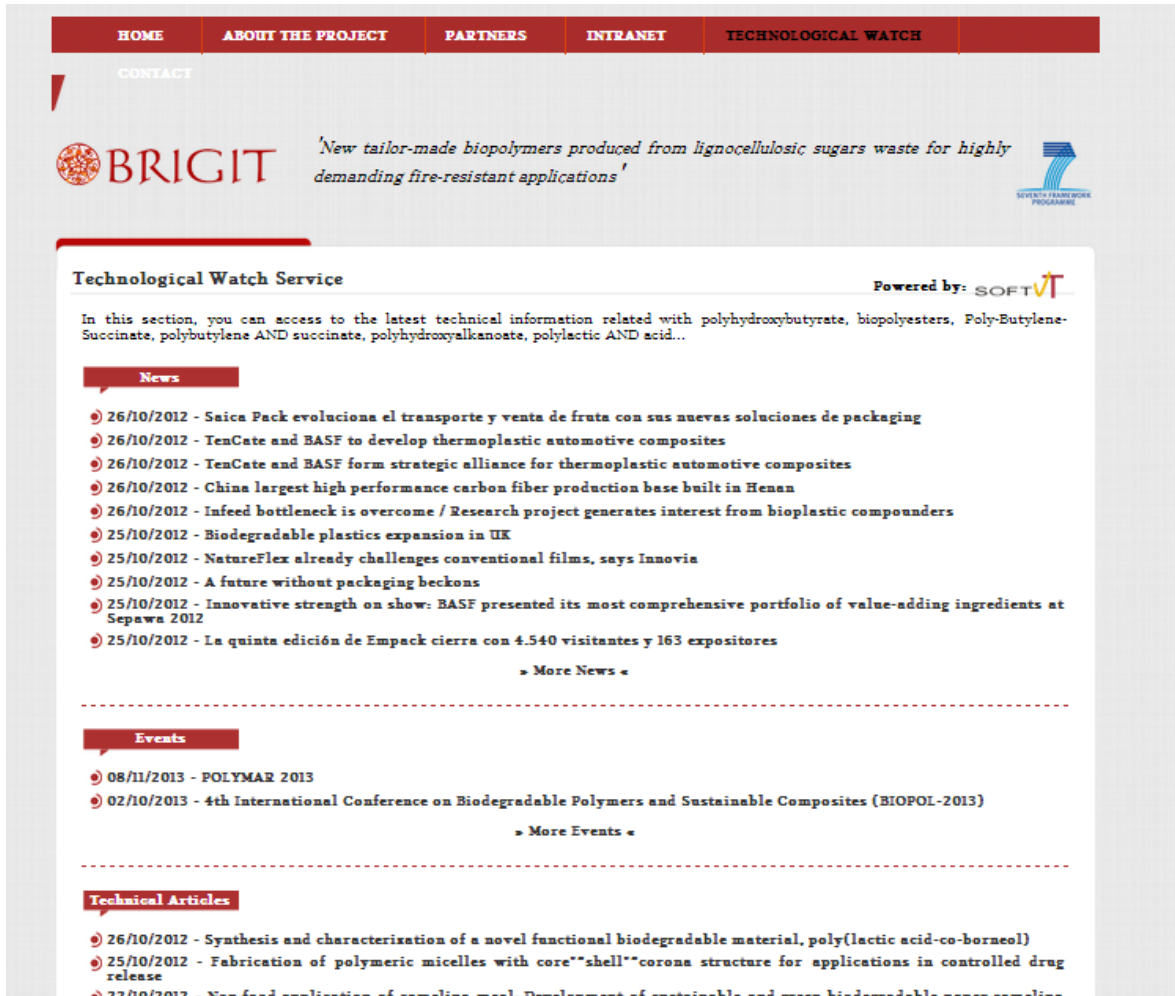


Figure 4b.- Inside the Intranet

TW Service (Figure 5) is the Technological Watch Service that sends registered people all the latest technical information related to the BRIGIT project, including: News, Events, Articles, Grants, and Patents. You can also be redirected to this site directly from the Home page.



HOME ABOUT THE PROJECT PARTNERS INTRANET TECHNOLOGICAL WATCH

CONTACT

BRIGIT *'New tailor-made biopolymers produced from lignocellulosic sugars waste for highly demanding fire-resistant applications'*

SEVENTH FRAMEWORK PROGRAMME

Technological Watch Service Powered by: **SOFTVT**

In this section, you can access to the latest technical information related with polyhydroxybutyrate, biopolyesters, Poly-Butylene-Succinate, polybutylene AND succinate, polyhydroxyalkanoate, polylactic AND acid...

News

- 26/10/2012 - Saica Pack evoluciona el transporte y venta de fruta con sus nuevas soluciones de packaging
- 26/10/2012 - TenCate and BASF to develop thermoplastic automotive composites
- 26/10/2012 - TenCate and BASF form strategic alliance for thermoplastic automotive composites
- 26/10/2012 - China largest high performance carbon fiber production base built in Henan
- 26/10/2012 - Infeed bottleneck is overcome / Research project generates interest from bioplastic compounders
- 25/10/2012 - Biodegradable plastics expansion in UK
- 25/10/2012 - NatureFlex already challenges conventional films, says Innovia
- 25/10/2012 - A future without packaging beckons
- 25/10/2012 - Innovative strength on show: BASF presented its most comprehensive portfolio of value-adding ingredients at Sepawa 2012
- 25/10/2012 - La quinta edición de Empack cierra con 4.540 visitantes y 163 expositores

» More News «

Events

- 08/11/2013 - POLYMAR 2013
- 02/10/2013 - 4th International Conference on Biodegradable Polymers and Sustainable Composites (BIOPOL-2013)

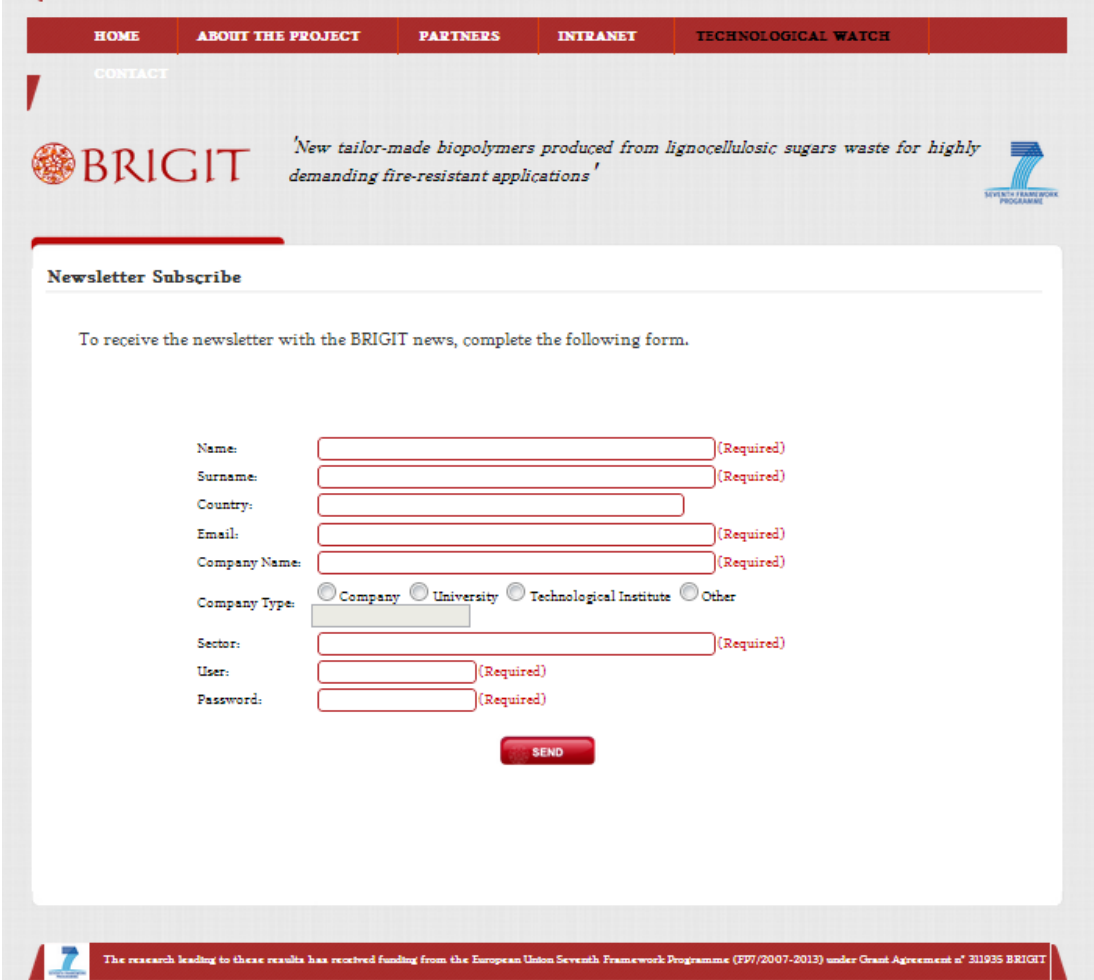
» More Events «

Technical Articles

- 26/10/2012 - Synthesis and characterization of a novel functional biodegradable material, poly(lactic acid-co-borneol)
- 25/10/2012 - Fabrication of polymeric micelles with core-shell-corona structure for applications in controlled drug release
- 22/10/2012 - Non-food application of camelina meal: Development of sustainable and green biodegradable paper-camelina

Figure 5.- TW Service

If somebody accessing to the BRIGIT website wants to subscribe to the Project Newsletter, it is possible by clicking on **Newsletter Subscribe** in the home page and submitting a minimum of information (Figure 6). The users of this service will receive a monthly updated summary of both the Project and the TW Service News.



HOME ABOUT THE PROJECT PARTNERS INTRANET TECHNOLOGICAL WATCH

CONTACT

 *'New tailor-made biopolymers produced from lignocellulosic sugars waste for highly demanding fire-resistant applications'*



Newsletter Subscribe

To receive the newsletter with the BRIGIT news, complete the following form.

Name: (Required)

Surname: (Required)

Country:

Email: (Required)

Company Name: (Required)

Company Type: Company University Technological Institute Other

Sector: (Required)

User: (Required)

Password: (Required)

 The research leading to these results has received funding from the European Union Seventh Framework Programme (FP7/2007-2013) under Grant Agreement n° 311935 BRIGIT

Figure 6.- Newsletter Subscribe submission data required.

In the **Contact** section (see Figure 7 below), the Coordinator contact data, such as address, telephone and email, are displayed.



Figure 7.- Contact section

3. Deviations and Corrective Actions

There are no deviations or corrective actions.

4. Conclusions

The **project website** has been designed, developed and launched.

The site serves as both a dissemination tool and a project management tool and therefore consists of corresponding public and private areas.

The **public area** promotes the project, allows the dissemination of non-confidential results and allows the public to contact the coordinator and the partners.

The **private area**, accessible via a login, includes confidential and project management documents and helps the partners to share information and communicate more effectively.