



Self -Learning



D7.1

# Project Website and Knowledge Forum

WP 700

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**Dissemination Level**

<b>PU</b>	Public	<b>X</b>
<b>PP</b>	Restricted to other programme participants (including the Commission Services)	
<b>RE</b>	Restricted to a group specified by the consortium (including the Commission Services)	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	

**Change History**

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0.3	Update of content	04.03.2010

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## Public Executive Summary

The document contains a brief description of the deliverable D7.2, the initial version of the Self-Learning project Website.

As basic dissemination activity in the Self-Learning project, the Self-Learning beneficiaries created a Website at the project start and are maintaining it continuously. It is used to present the project's main results, but also as a tool for communication and information exchange within the consortium.

This document presents the Website's address, current features and main sections (Project Overview, News, Consortium, Information with sub-sections for Downloads and the consortium Wiki, Links, Publications and Legal Notice). Furthermore future updates of the Website are presented.

The project intends to establish Knowledge Forum to enable industry to 'meet' RTD partners and establish a Community working on crucial research challenges related to service-based self-learning production systems. This is of high importance since Self-Learning aims at a generic approach and services to be effectively combined with a wide range of production systems.

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## Abbreviations

ACL	Agent Communication Language	OEE	Overall Equipment Effectiveness
ADF	Agent Developing Framework	OMG	Object Management Group
AI	Artificial Intelligence	OOM	Object Oriented Models
AmI	Ambient Intelligence	OPC	Object Linking and Embedding for process control
BC	Business Case	OWL	Web Ontology Language
BSD	Berkeley Software Distribution	PE	Project End
DCM	Device Context Model	PS	Project Start
DiffServ	Differentiated Services	QoS	Quality of Services
DPWS	Devices Profile for Web Services	RDF	Resource Description Framework
e.g.	exempli gratia (engl. = for example)	RFID	Radio Frequency Identification
EA	Enterprise Architecture	RSVP	Resource Reservation Protocol
EB	Executive Board	RT	Real-Time
EC	European Commission	RTD	Research and Technological Development
EE	Extended Enterprise	SME	Small and medium sized enterprise
EP	Early Prototype	SOA	Service Oriented Architecture
ERA	European Research Area	SOAP	Simple Object Access Protocol
ERP	Enterprise Resource Planning	SotA	State-of-the-Art
FIPA	Foundation for Intelligent Physical Agents	S/T	Scientific and/or technical
FMS	Flexible Manufacturing System	STC	Scientific/Technical Committee
FP	Full Prototype	SW	Software
HTTP	HyperText Transfer Protocol	TC	Technical Committee
i.e.	id est (engl. = that is to say)	TOGAF	The Open Group Architecture Framework
ICT	Information and Communication Technology	UDDI	Universal Description, Discovery and Integration
IP	Internet Protocol	UML	Unified Modelling Language
JADE	Java Agent Development Framework	w.r.t.	with respect to
JAF	Java Agent Framework	WP	Work Package
KF	Knowledge Forum	WS	Web Service
KM	Knowledge Management	WSDL	Web Service Description Language
KQML	Knowledge Query and Manipulation Language	WSIG	Web Service Integration Gateway
LE	Large Enterprise	WSMO	Web Service Modelling Ontology
Mx	Month x	XML	eXtensible Markup Language
MAS	Multi Agent System		
MB	Model Based		
MDA	Model Driven Architecture		
MES	Manufacturing Execution System		
MILS	Multiple Independent Levels of Security/ Safety/ Separation		
MIMOSA	Machinery Information Management Open Systems Alliance		
MLS	Multi Level Secure		
MS	Milestone		
OEM	Original Equipment Manufacturers		

## 1 Introduction

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The document contains a brief description of the deliverable D7.2, the initial version of the Self-Learning project Website.

As basic dissemination activity in the Self-Learning project, the Self-Learning beneficiaries created a Website at the project start and are maintaining it continuously. It is used to present the project's main results, but also as a tool for communication and information exchange within the consortium.

This document is structured as follows:

Section **2.1** presents the Website's address, current features and main sections (Project Overview, News, Consortium, Information with sub-sections for Events, Downloads and the consortium Wiki, Links, Publications and Imprint). For each section, a concise description of the content to be found is given in the sub-chapters.

Section **3** indicates future updates of the Website.

The sections 4 and 5 present screenshots of the main pages in the website's structure, as well as the knowledge forum's structure for easier reference.

## 2 Self-Learning Project Website and Knowledge Forum

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### 2.1 Overview

The Self-Learning project Website (accessible at <http://www.selflearning.eu>) has been created at the beginning of the project, in November 2009.

The Website is used as one of the main vectors for disseminating the project's ideas and results. It also offers a communication channel within the Self-Learning consortium through the internal Knowledge (this is made as a Wiki page and therefore also referred to as Wiki in the text), which will be in a latter phase opened for wider industrial and RTD community.

The Website is structured as follows:

- Project Overview
- News
- Consortium
- Information
  - Wiki
  - Downloads
- Links
- Publications
- Legal Notice

It is being continuously updated with new content, especially in the News, Information, Publications and Links sections.

### 2.2 Website contents

This section describes the contents of the Self-Learning project Website pages. Also see 4 - Annex 1 – Website Screenshots for actual screenshots of the main pages.

The **Project Overview** page presents the main objectives and vision of the project, as well as a few general facts and gives an overview about the newest Events and News of the project.

On the **News** page, a short description of the most recent project activities can be found. Also the most important events and future activities such as conferences, meetings, workshops and symposia where consortium partners have participated or plan to participate, which correlate and are relevant to the IntelLEO project, are listed.

The **Consortium** page provides the list of the partners including their full names, logos and location. Furthermore, links to each partner's Website, if applicable, are provided.

From the **Information** page, four specific sources of information can be accessed:

- The **Login** provides access to the internal Management System of the Website
- The **Wiki** link leads to the project Knowledge Forum, only accessible by the consortium in this phase, which will be in a latter phase opened to other industrial and RTD organisations.



- The **Downloads** page lists downloadable (public) Self-Learning materials as soon as they are available.

The **Links** page lists a compilation of web addresses relevant to the Self-Learning project.

The **Publications** page lists published papers of the consortium members which are available.

Finally, the **Legal Notice** page presents project and law relevant data like the disclaimer, general contact information and the project coordinator information.

### 3 Future Updates

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The initial version of the Website will be continuously updated during the whole duration of the project. The main foreseen updates are:

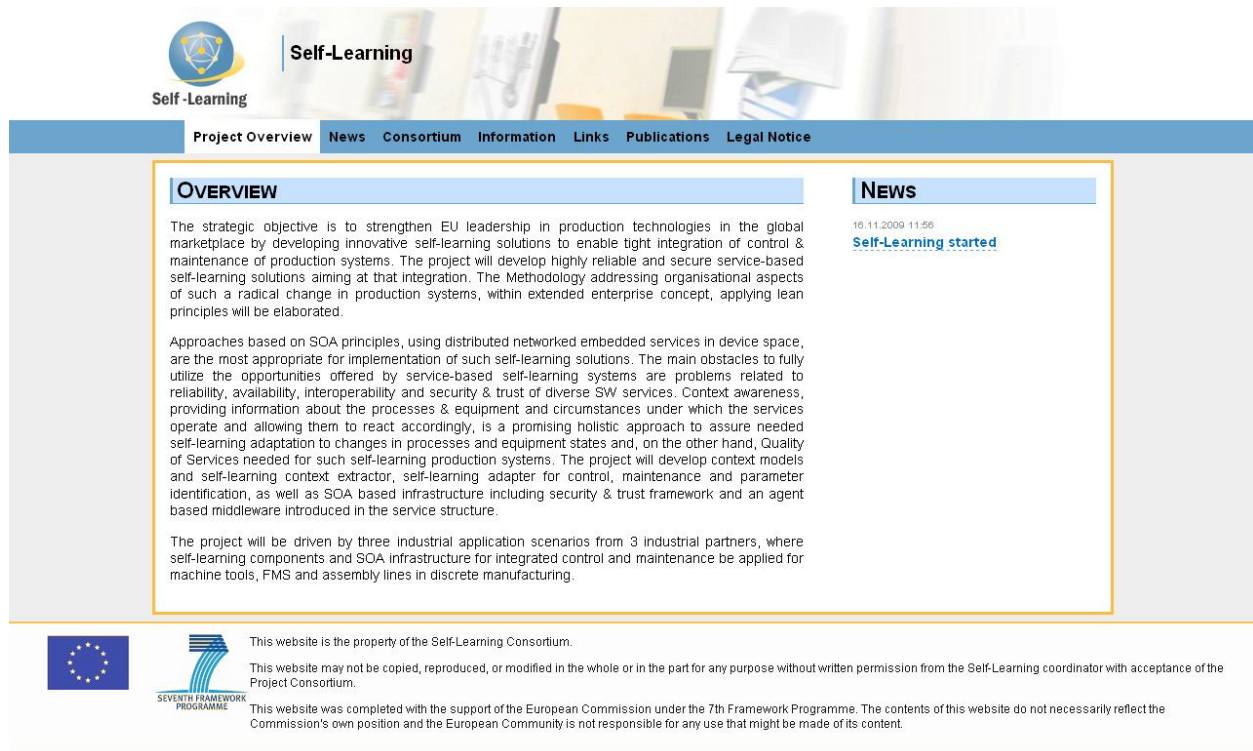
- Continuous updates of **News** (besides the announcement of the meetings and relevant general relevant news, each partner will continuously provide available information on regional, national or international events relevant for Self-Learning).
- Adding publically available documents to **Downloads**; this will include all public reports of the project, once accepted by the EC, but also other documents, e.g.:
  - The Self-Learning Project Presentation will be put on the Downloads page as soon as it is available.
- **Links** will be constantly added to refer to project relevant sites
- Published papers will be made available for downloading through the **Publications** page
- **The Knowledge Forum** will be opened for wider industrial and RTD audience. The Knowledge Forum will be continuously updated as it is currently used as working platform by the project partners.

Additional updates according to the projects process and results will also been added dynamically to the Website.

## 4 Annex 1 – Website Screenshots

This Annex presents screenshots of the main pages of the project Website's structure as of January 2010.

### Start page



The screenshot shows the 'Start page' of the Self-Learning website. The page features a navigation menu with 'Project Overview' selected. The main content area is titled 'OVERVIEW' and contains the following text:

The strategic objective is to strengthen EU leadership in production technologies in the global marketplace by developing innovative self-learning solutions to enable tight integration of control & maintenance of production systems. The project will develop highly reliable and secure service-based self-learning solutions aiming at that integration. The Methodology addressing organisational aspects of such a radical change in production systems, within extended enterprise concept, applying lean principles will be elaborated.

Approaches based on SOA principles, using distributed networked embedded services in device space, are the most appropriate for implementation of such self-learning solutions. The main obstacles to fully utilize the opportunities offered by service-based self-learning systems are problems related to reliability, availability, interoperability and security & trust of diverse SW services. Context awareness, providing information about the processes & equipment and circumstances under which the services operate and allowing them to react accordingly, is a promising holistic approach to assure needed self-learning adaptation to changes in processes and equipment states and, on the other hand, Quality of Services needed for such self-learning production systems. The project will develop context models and self-learning context extractor, self-learning adapter for control, maintenance and parameter identification, as well as SOA based infrastructure including security & trust framework and an agent based middleware introduced in the service structure.

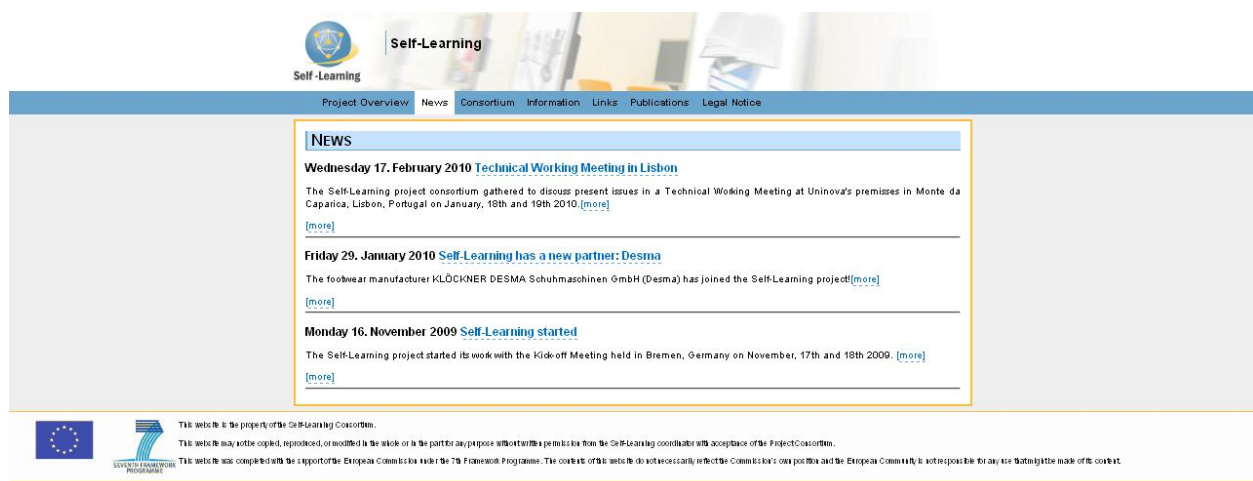
The project will be driven by three industrial application scenarios from 3 industrial partners, where self-learning components and SOA infrastructure for integrated control and maintenance be applied for machine tools, FMS and assembly lines in discrete manufacturing.

On the right side, there is a 'News' section with a date '16.11.2009 11:59' and a link 'Self-Learning started'.

At the bottom, there are logos for the European Union and the Seventh Framework Programme, along with a disclaimer: 'This website is the property of the Self-Learning Consortium. This website may not be copied, reproduced, or modified in the whole or in the part for any purpose without written permission from the Self-Learning coordinator with acceptance of the Project Consortium. This website was completed with the support of the European Commission under the 7th Framework Programme. The contents of this website do not necessarily reflect the Commission's own position and the European Community is not responsible for any use that might be made of its content.'

Figure 1 - Project Overview and Start page

### News



The screenshot shows the 'News' page of the Self-Learning website. The navigation menu is the same as in Figure 1, but 'News' is selected. The main content area is titled 'NEWS' and lists three news items:

- Wednesday 17. February 2010 Technical Working Meeting in Lisbon**  
The Self-Learning project consortium gathered to discuss present issues in a Technical Working Meeting at Uninova's premises in Monte da Caparica, Lisbon, Portugal on January, 18th and 19th 2010. [\[more\]](#)
- Friday 29. January 2010 Self-Learning has a new partner: Desma**  
The footwear manufacturer KLÖCKNER DESMA Schuhmaschinen GmbH (Desma) has joined the Self-Learning project! [\[more\]](#)
- Monday 16. November 2009 Self-Learning started**  
The Self-Learning project started its work with the Kick-off Meeting held in Bremen, Germany on November, 17th and 18th 2009. [\[more\]](#)

At the bottom, there are logos for the European Union and the Seventh Framework Programme, along with the same disclaimer as in Figure 1.

Figure 2 - Project News



# Consortium

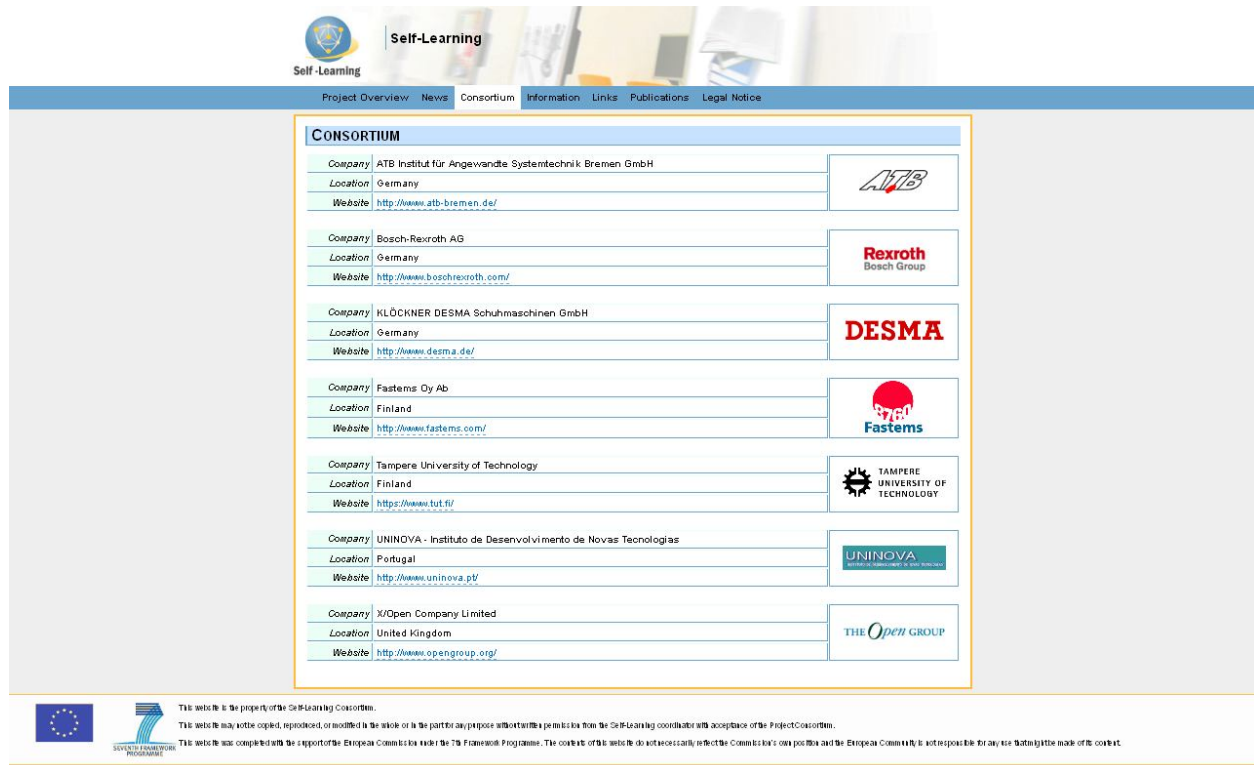


Figure 3 - The Consortium

# Information

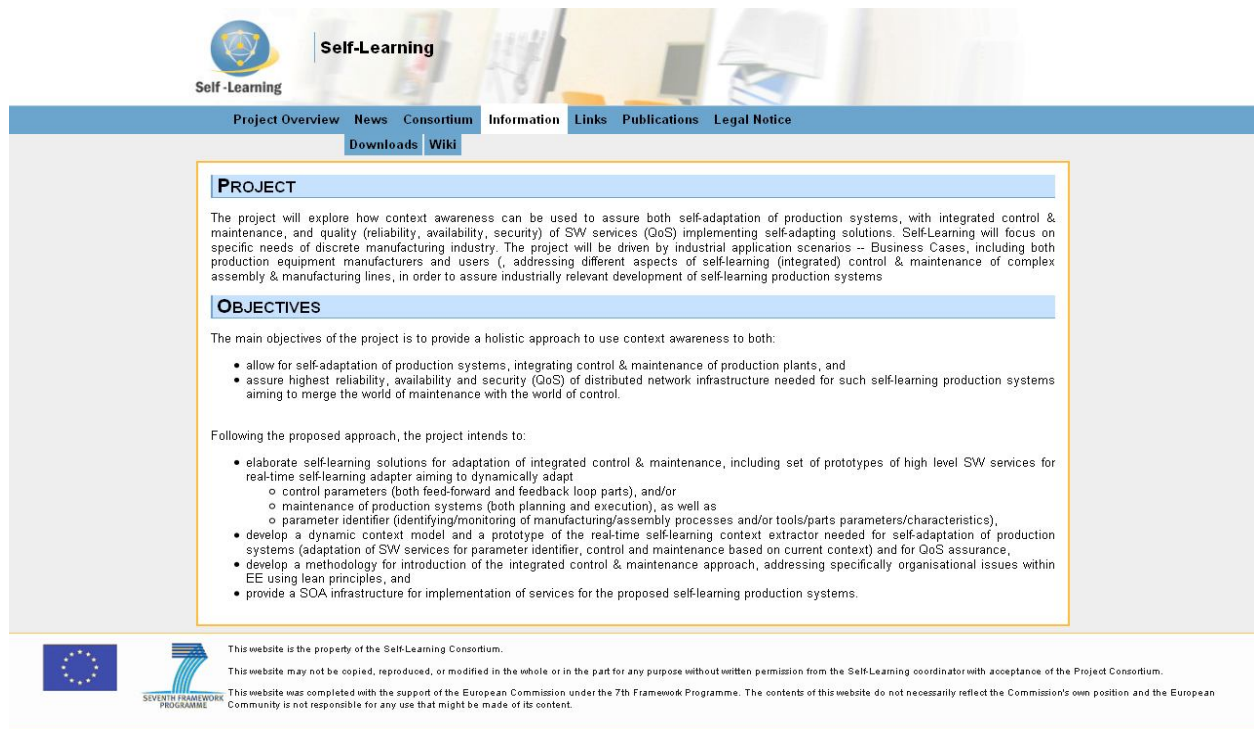


Figure 4 - Information page - Further sectioned



## Downloads

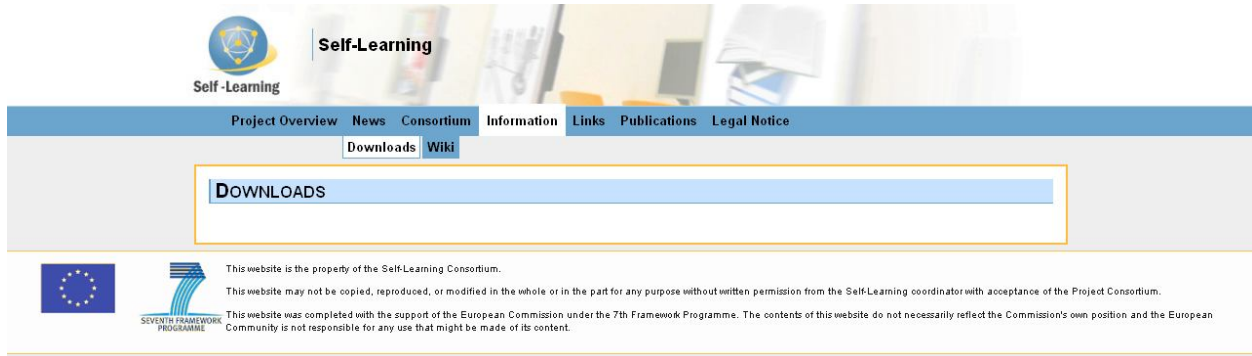


Figure 5 - Downloads will be added as soon as they become available

## Links

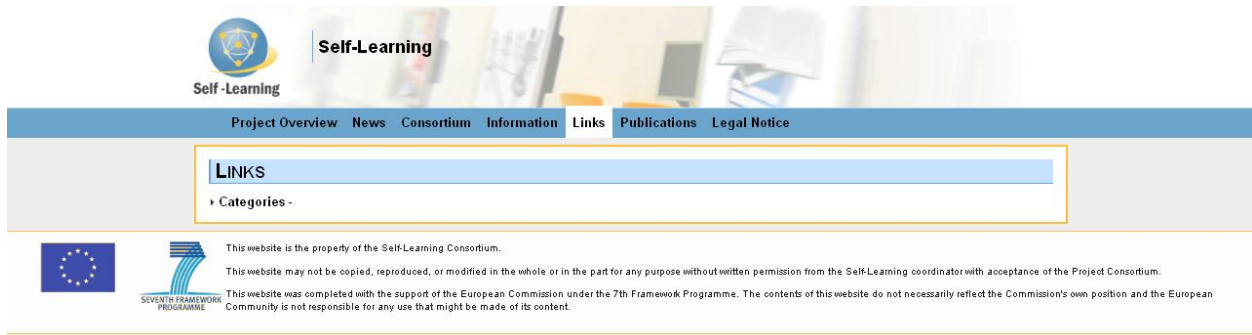


Figure 6 - Links will be constantly added as needed

## Publications



Figure 7 - Publications will be added as soon as they become available



# Legal Notice

**Self-Learning**

Project Overview News Consortium Information Links Publications Legal Notice

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**LEGAL NOTICE**

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 Place of Organisation: Bremen  
 Tax number.: 71-60709019  
 Purchase VAT-ID-Nr.: DE114447622

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You can download our general terms and conditions as [.pdf](#).

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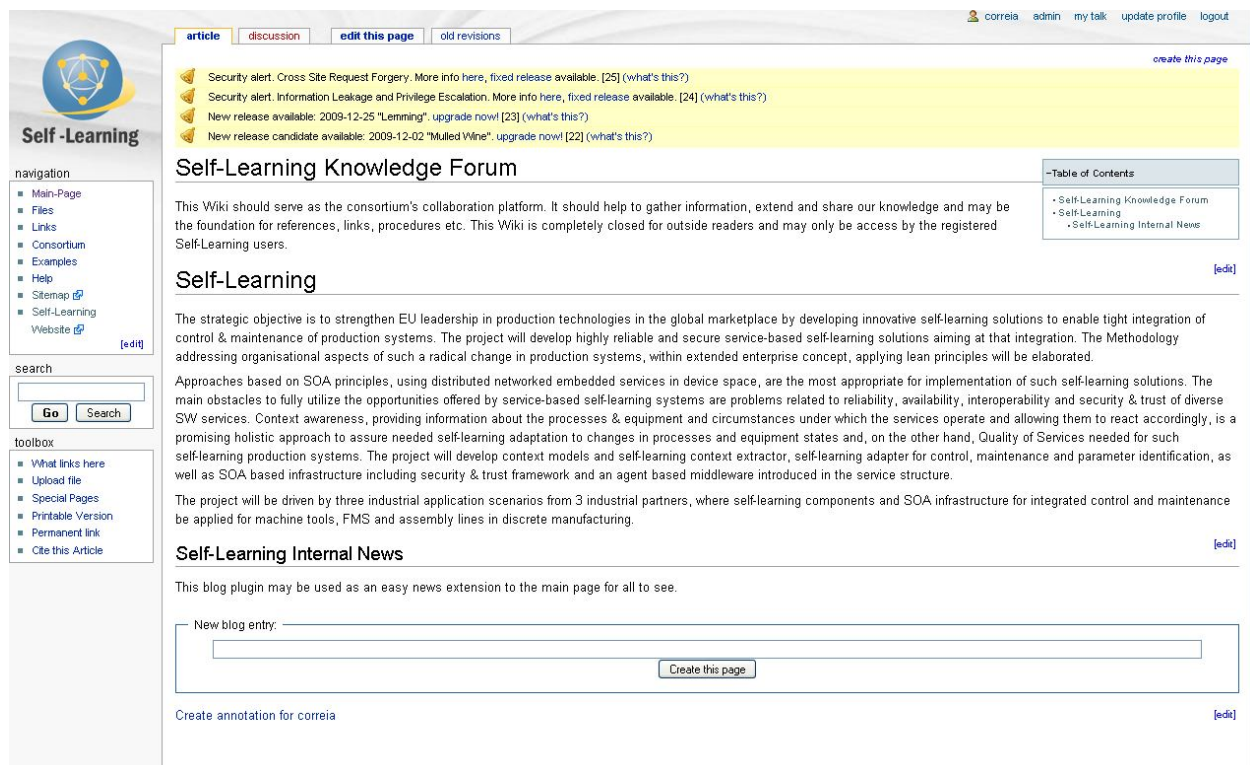
Figure 8 – Legal Notice

## 5 Annex 2 – Knowledge Forum Screenshots

This Annex presents screenshots of the main pages of the project Knowledge Forum’s structure as of January 2010.

The Knowledge Forum can be accessed through the menu point “Wiki” in the Information page of the Self-Learning website (see Figure 4). This is currently a private area for the consortium members and therefore can only be accessed with a user login and password. In latter phase it will be opened to other industrial and RTD organisations.

### Start page



The screenshot shows the start page of the Self-Learning Knowledge Forum. At the top, there is a navigation bar with tabs for 'article', 'discussion', 'edit this page', and 'old revisions'. A user profile for 'correia' is visible in the top right corner. Below the navigation bar, there are several security alerts and news items, each with a 'what's this?' link. The main content area is titled 'Self-Learning Knowledge Forum' and contains a paragraph explaining the forum's purpose: 'This Wiki should serve as the consortium's collaboration platform. It should help to gather information, extend and share our knowledge and may be the foundation for references, links, procedures etc. This Wiki is completely closed for outside readers and may only be access by the registered Self-Learning users.' Below this, there is a section for 'Self-Learning' with a paragraph describing the project's strategic objective: 'The strategic objective is to strengthen EU leadership in production technologies in the global marketplace by developing innovative self-learning solutions to enable tight integration of control & maintenance of production systems...' Another paragraph follows, discussing SOA principles and distributed networked embedded services. Below that, a paragraph mentions the project's drivers: 'The project will be driven by three industrial application scenarios from 3 industrial partners...' To the right of the main content, there is a 'Table of Contents' box with links to 'Self-Learning Knowledge Forum', 'Self-Learning', and 'Self-Learning Internal News'. At the bottom of the main content area, there is a 'Self-Learning Internal News' section with a paragraph stating 'This blog plugin may be used as an easy news extension to the main page for all to see.' Below this, there is a 'New blog entry' form with a text input field and a 'Create this page' button. On the left side of the page, there is a sidebar with a 'navigation' menu (Main-Page, Files, Links, Consortium, Examples, Help, Sitemap, Self-Learning, Website) and a 'toolbox' menu (What links here, Upload file, Special Pages, Printable Version, Permanent link, Cite this Article). There is also a search box with 'Go' and 'Search' buttons.

Figure 9 – Knowledge forum start page