

Project: **TERAFLUX** - Exploiting dataflow parallelism in Teradevice Computing  
Grant Agreement Number: **249013**  
Call: FET proactive 1: Concurrent Tera-device Computing (ICT-2009.8.1)



**SEVENTH FRAMEWORK PROGRAMME**  
**THEME**  
**FET proactive 1: Concurrent Tera-Device Computing (ICT-2009.8.1)**



**PROJECT NUMBER: 249013**

**TERAFLUX**

**Exploiting dataflow parallelism in Teradevice Computing**

**D1.1 – Project Web Site**

Due date of deliverable: June 30th, 2010

Actual Submission: June 30th, 2010

Start date of the project: January 1<sup>st</sup>, 2010

Duration: 48 months

**Lead contractor for the deliverable: UNISI**

**Revision:** See file name in document footer.

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<b>Dissemination Level: RE</b>	
<b>PU</b>	Public
<b>PP</b>	Restricted to other programs participant (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)

Deliverable number: **D1.1**

Deliverable name: **Project web site (UNISI)**

File name: TERAFLUX-D1.1-R1-v1.doc Page 1 of 23

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### **Change Control**

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### **Release Approval**

<b>Name</b>	<b>Role</b>	<b>Date</b>
<b>Gabriele Cecchetti</b>	<b>Originator</b>	<b>30.06.2010</b>
<b>Roberto Giorgi</b>	<b>WP Leader</b>	<b>30.06.2010</b>
<b>Roberto Giorgi</b>	<b>Project Coordinator for formal deliverable</b>	<b>30.06.2010</b>

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Deliverable number: **D1.1**

Deliverable name: **Project web site (UNISI)**

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## **Glossary**

CMS – Content Management System

HTTP – Hypertext Transfer Protocol

RSS – Real Simply Syndications

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## **Executive summary**

This deliverable presents a comprehensive description of Project Web site (<http://teraflux.eu> ), describing the public space, the intranet web site (<http://wiki.teraflux.eu> ), and the other web based collaborative tools.

An assessment of the project web site has been conducted checking the site against the FET FP7 Quick Communication Guidelines.

# 1 Introduction

## 1.1 Document structure

In this document we will describe the teraflux.eu website. In particular:

- section 2 describes in details the website, its generation process, and the software needed;
- section 3 describes the intranet space dedicated to the collaboration among project partners;
- section 4 describe the mailing lists web sites;
- section 5 tells about the compliance of the teraflux.eu website to the FET FP7 quick communication guidelines;
- section 6 come to the conclusion of this deliverable.

At the end of this document a glossary is provided to help out with some acronyms and terms used in this deliverable.

## 1.2 Relation to other deliverables

This deliverable and in particular the public part of the teraflux.eu project website are used for dissemination purposes. The dissemination plan is illustrated in the D1.2 deliverable.

## 1.3 Activities referred by this deliverable

The objectives of this work package are:

- to provide the infrastructure for partners communication and collaboration;
- to enhance the visibility of the project and support the partners for dissemination purposes.

These objectives have been reached by carrying out several activities belonging to Task 1.1, during the period lasting from month 1 until month 6.

The main purpose of this task is to kick-off the TERAFLUX project and to set up the infrastructure.

The second goal of Task 1.1 is to create a web site for the TERAFLUX project. The site contains a public part that will serve as a point of visibility for people outside the consortium to make enquiries about the project and to obtain publicly available documentation (see section 2).

In addition to the public part, the web site has a part with controlled access, where only partners in the project will be allowed to enter. This part contains deliverables and reports that have restricted dissemination level, and drafts of deliverable that are being prepared (see section 3).

Three mailing lists have been created purpose of exchanging information: one for the members of the executive board, one for technical discussion and one for administrative and financial issues. Other mailing lists will be created on consortium request.

## 2 The Teraflux.eu website

The website has been deployed about one month before the starting date to the project. Its internet address is [teraflux.eu](http://teraflux.eu) but other aliases are [www.teraflux.eu](http://www.teraflux.eu) and [teraflux.org](http://teraflux.org) may be used to reach the same page.

### 2.1 Hardware used.


The web site runs on hardware based at the Department of Information Engineering at University of Siena. The hardware is a platform based on Intel Core 2, with 4GB of memory and an SSD disk. High Availability platform is planned to be used in the future.

### 2.2 Software used.

Linux OS is running on this hardware. The software used to serve http protocol is the well known Apache [1] server. The website has been built on the Drupal [2] CMS framework. See references to find more information about these software.

The CMS software allow to easily insert new content by different people avoiding the hassle of taking care of the technical web structure or different languages or dynamic services. So after the initial set-up, and creation of an original style website appearance, we were immediately active to publish new contents.

#### 2.2.1 Website description

The main web page presents the project logo at the top and focuses on the main content part which is expected to be placed at the center of the user browser window. Above the main content there is a menu for reaching the different parts of the website. The banners, the RSS icon  and the legal information are placed on the bottom.

The menu items are: HOME, NEWS, MEDIA/PRESS, DELIVERABLES, PUBLICATIONS, LINKS, PARTNERS, CALLS, CONTACT, and PARTNER ACCESS.

##### 2.2.1.1 Home

The home page gives the visitor an overview of the project. In particular it has been developed to be useful for non technical audience as well the Computer Architecture community. By using real world terminology, the home page tells “what is TERAFLUX about”, “the TERAFLUX stack”, “who is TERAFLUX”, and then it gives a brief introduction to the TERAFLUX. The visitor can retrieve more information about the TERAFLUX project following the “read more” link, where “main objectives” of the project are described. It also presents the “expected impact” and the “technical approach and key issues”.

Figure 1 shows the actual status of this page at the time of writing, while Figure 2 shows the bottom of the same page. Looking at both the figures you can notice the presence of FP7 Cooperation logo, FET logo and a FET banner: all these items are required by Quick FET FP7 Communication guidelines (see section 5).



The screenshot shows the top part of the TERAFLUX website. At the top left is the TERAFLUX logo. To the right are two small logos: one of a tree and another with the word 'COOPERATION'. Below these is a navigation menu with links: HOME, NEWS, MEDIA/PRESS, DELIVERABLES, PUBLICATIONS, LINKS, PARTNERS, CALLS, CONTACT, and PARTNER ACCESS. The main content area is titled 'TERAFLUX: Exploiting Dataflow Parallelism in Teradevice Computing'. It contains three sections: 'What is TERAFLUX about?' with a bulleted list of features (Multi-cores, Multithreaded Execution, Programming Models, Reliability); 'Who is TERAFLUX?' with a list of partners and project details; and 'Brief Introduction to TERAFLUX' with a paragraph about the project's goals. A 'Read more' link is provided. On the right side of this section is a diagram titled 'The TERAFLUX Transformation Hierarchy' which is a funnel-shaped diagram with seven levels: WP2 APPLICATIONS; WP3 Programming Model (Source code); WP4 Compilation Tools (Threads); WP5 Abstraction Layer and Reliability Layer; WP6 Virtual CPUs; and WP7 Teradevice hardware (simulated) (1,000-10,000 cores...).

Figure 1 - teraflux.eu homepage (top part)

This screenshot shows the bottom part of the TERAFLUX homepage. It includes a 'Read more' link, a copyright notice: 'Copyright © 2009-2014 TERAFLUX Consortium. All Rights Reserved. Designed and maintained by Gabriele Cechetti. W3C XHTML 1.0 | W3C CSS 2.0', and a logo for 'FUNDING OPPORTUNITIES from the FUTURE & EMERGING TECHNOLOGIES scheme' with the European Union flag.

Figure 2 - teraflux.eu homepage (bottom part)

## 2.2.1.2 News

In Figure 3 we show the News page. Such a page is automatically generated whenever a new news item is inserted. The RSS feed is then updated. For each news a summary is presented then the visitor can follow the “read more” link to get the full details.

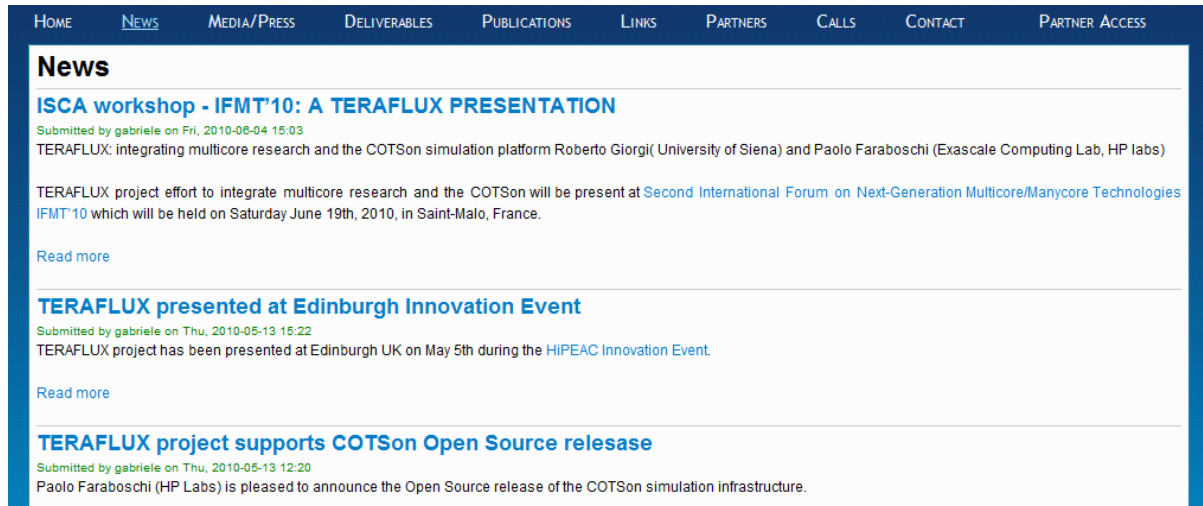


Figure 3 - teraflux.eu main part of the news page

### 2.2.1.3 Media/Press

In Figure 4 we show the press releases, the publicity material available and the poster showed at TERAFLUX related seminars.

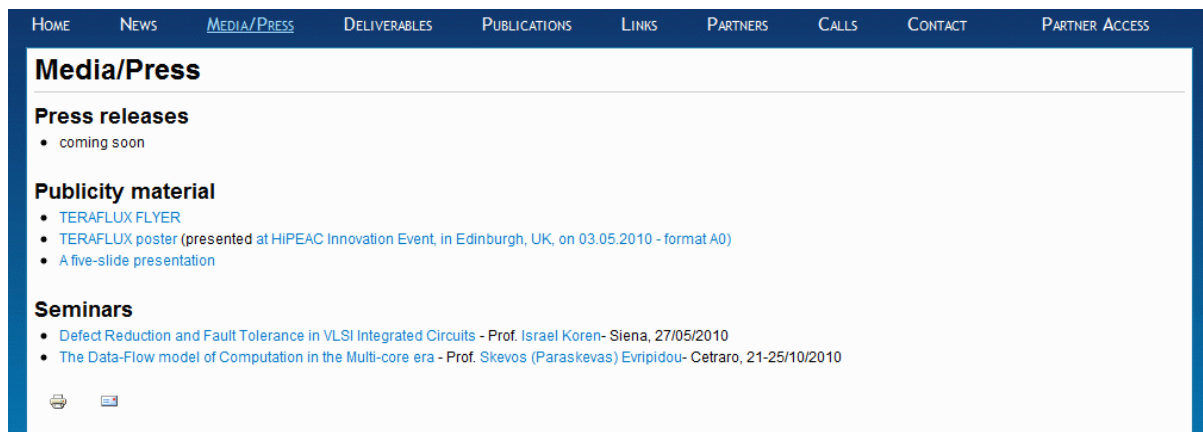


Figure 4 - teraflux.eu main media/press page

### 2.2.1.4 Deliverables

In Figure 5 we show a page that is used to publish the deliverables produced during the project.

For each deliverable its number is reported along with the title and the month of the project when it is due.

Deliverable number: **D1.1**

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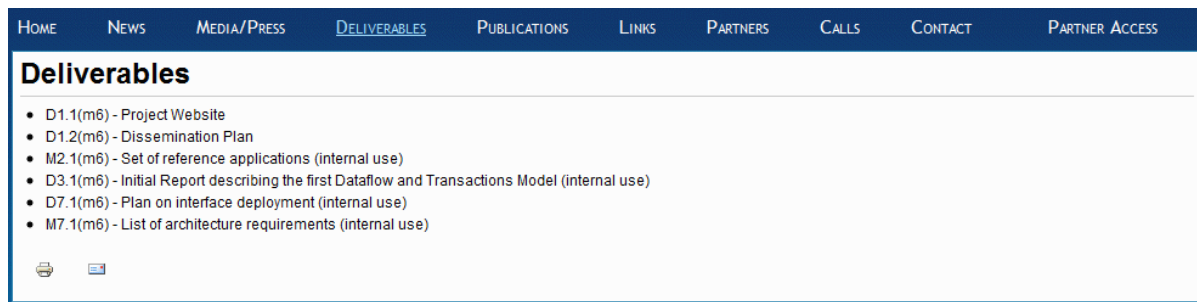


Figure 5 - teraflux.eu deliverables page

## 2.2.1.5 Publications

In Figure 6 the list of publications produced by the project are shown.

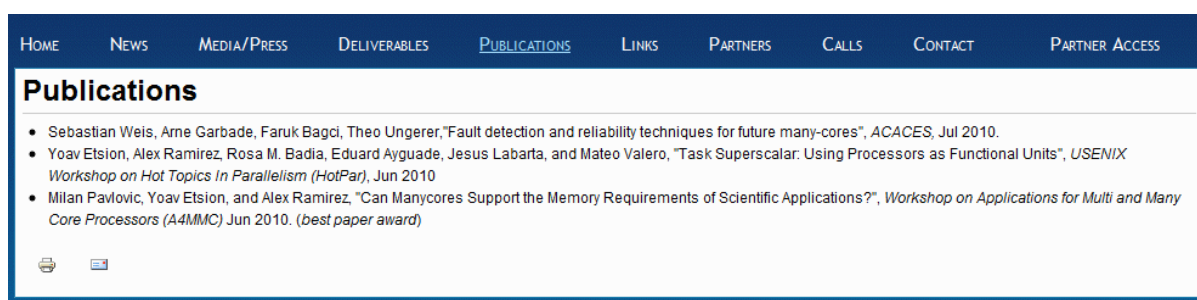


Figure 6 - teraflux.eu publications page

## 2.2.1.6 Links

Figure 7 shows the page where interesting links and links to other projects are listed. Here in particular the visitor finds in the first group the European websites related to the European projects while in the second group he/she will find some information about the other TERACOMP projects: EURETILE, SOOS and TRAMS.

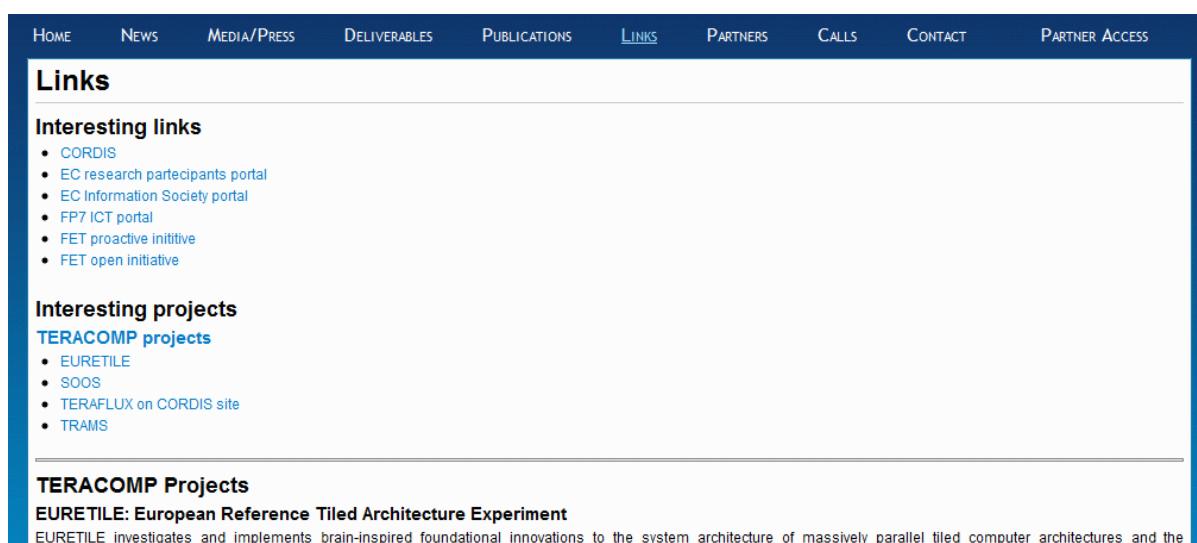


Figure 7 - teraflux.eu links page

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### 2.2.1.7 Partners

Figure 8 illustrates a part of the “Partners” page. For each partner of TERAFLUX consortium the logo is shown, then the partner name along with the information about town, country and key persons involved into the projects are reported. Hyperlinks are inserted whenever available for each of these items.

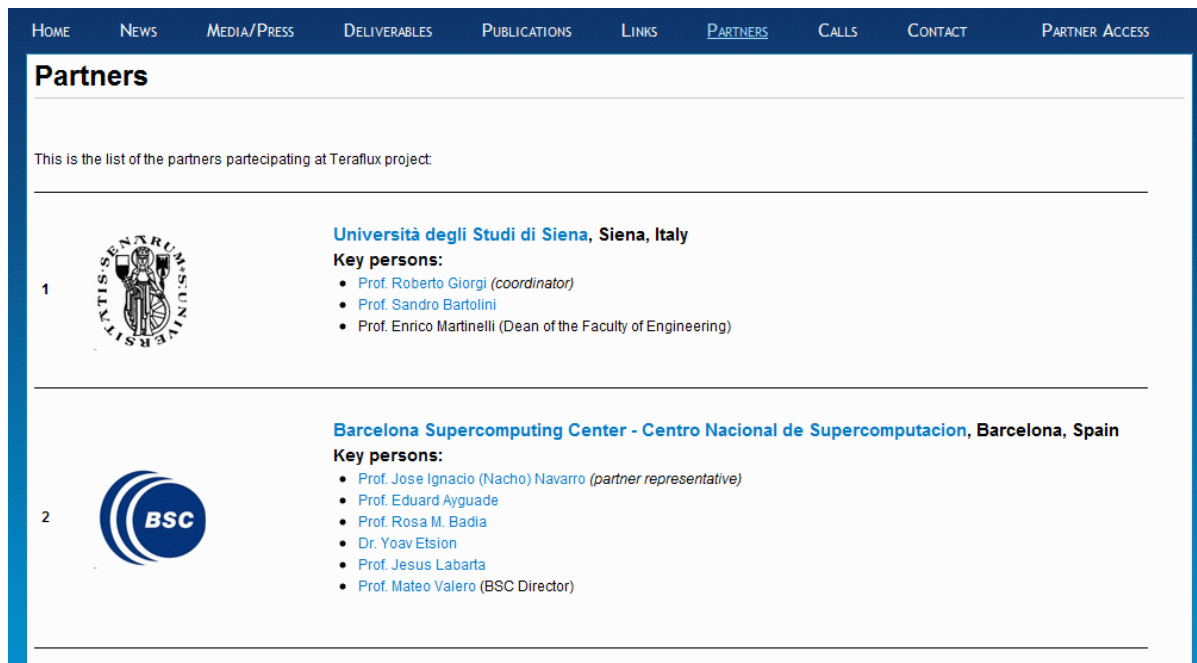


Figure 8 - teraflux.eu partners page

### 2.2.1.8 Calls

This page, shown in Figure 9, is used to present calls, jobs or open position in the TERAFLUX project.



Figure 9 - teraflux.eu calls page

### 2.2.1.9 Contact

The Figure 10 shows the “Contact” page.



Figure 10 - teraflux.eu contact page

### 2.2.1.10 Partner Access

This is a link to the intranet web space accessible only to project partners (see section 15).

## 2.3 Access statistic for teraflux.eu

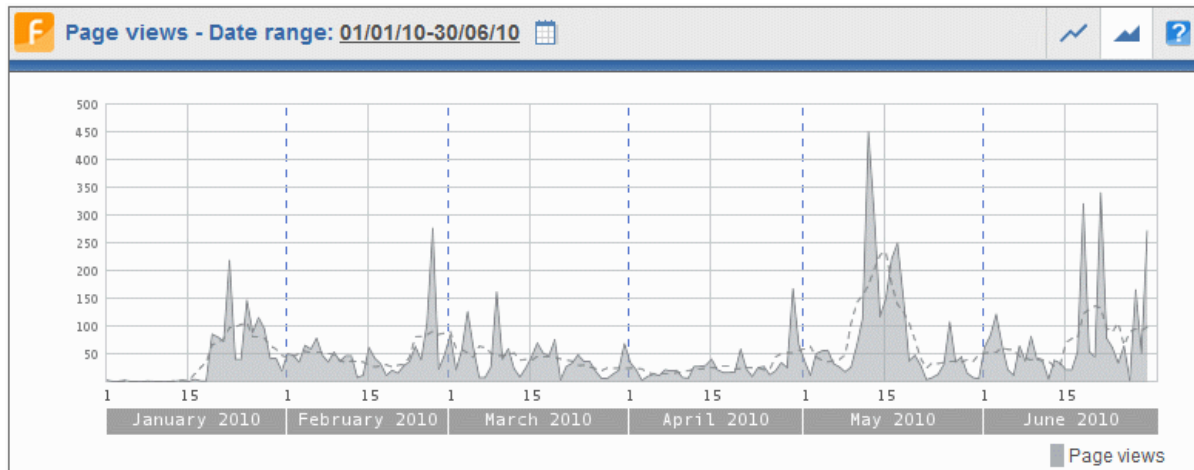
We collected some statistic for the public part of teraflux.eu by means of “ShinyStat” service.

During the first 6 months of life, the project web site has collected the following statistics:

	Total	Daily visits Monday to Friday	Daily visits Saturday and Sunday
Page Visits	9734	64	27
Unique Visitors	2916	20	8

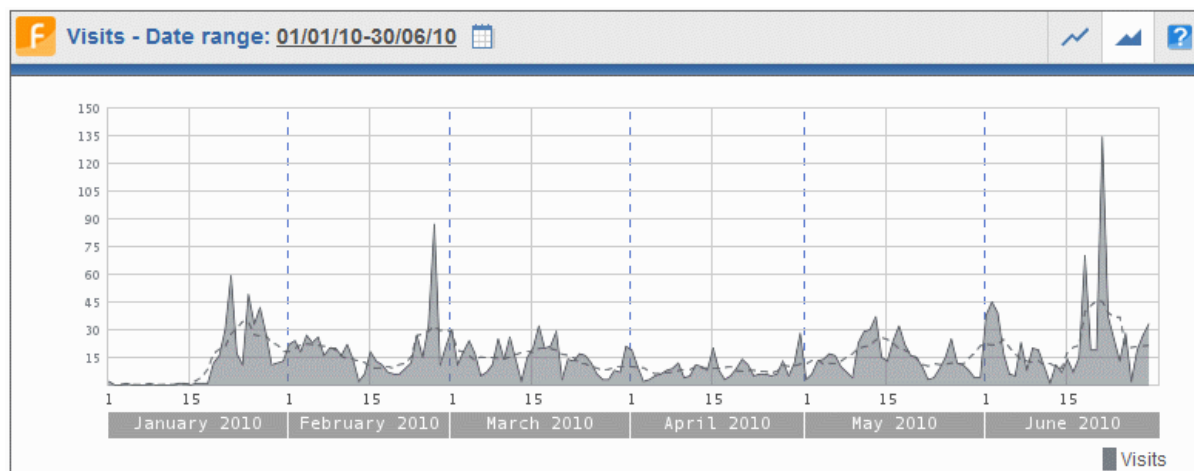
Table 1 - Access statistic for public web of teraflux.eu

The following pictures show these stats represented through graph available on *ShinyStat* website.



Month	Page views	Monthly Change	Month	Page views	Monthly Change
<a href="#">January 2010</a>	1,095		<a href="#">April 2010</a>	821	-36.9% ▼
<a href="#">February 2010</a>	1,410	+28.8% ▲	<a href="#">May 2010</a>	2,504	+205.0% ▲
<a href="#">March 2010</a>	1,301	-7.7% ▼	<a href="#">June 2010</a>	2,603	+4.0% ▲

Figure 11 - Page views access statistic during the first 6 months of project.



Month	Visits	Monthly Change	Month	Visits	Monthly Change
<a href="#">January 2010</a>	342		<a href="#">April 2010</a>	268	-42.2% ▼
<a href="#">February 2010</a>	531	+55.3% ▲	<a href="#">May 2010</a>	451	+68.3% ▲
<a href="#">March 2010</a>	464	-12.6% ▼	<a href="#">June 2010</a>	860	+90.7% ▲

Figure 12 - Visits access statistic during the first 6 months of project.

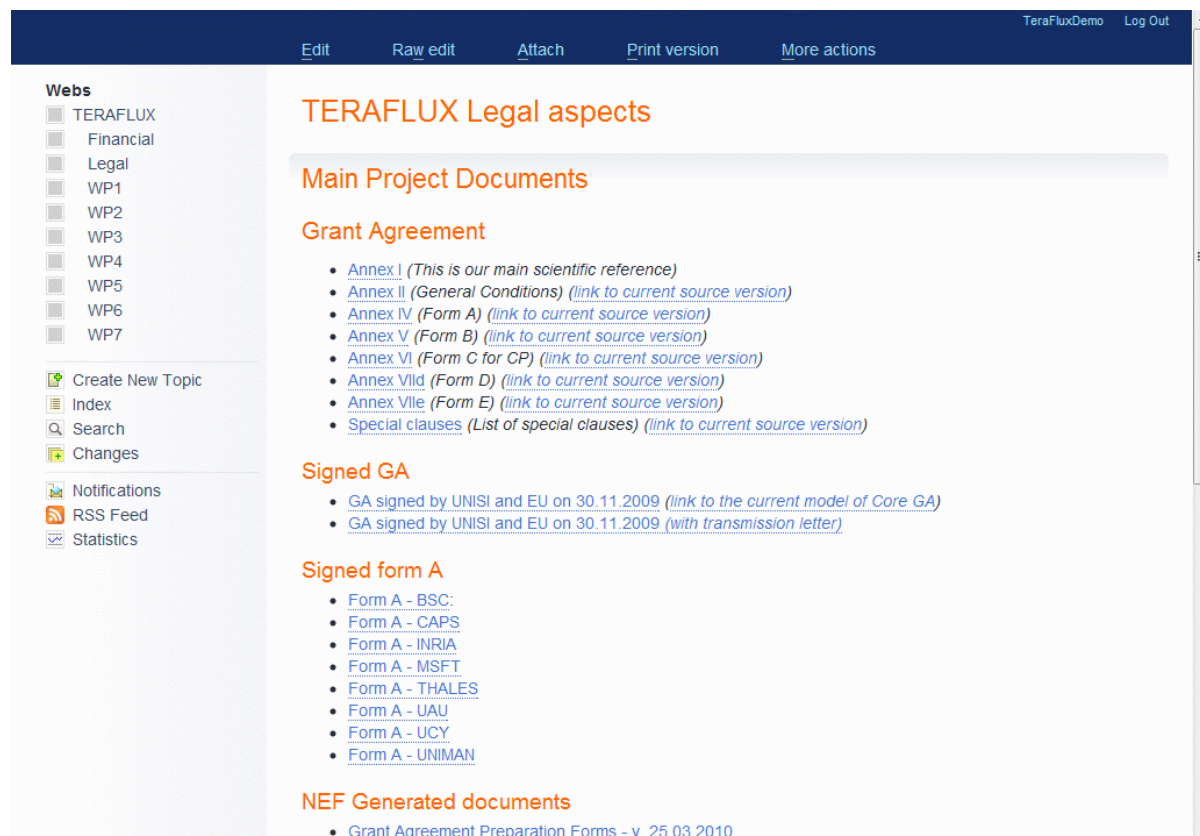
### 3 The Intranet space

This section describes the intranet space which is access restricted to project partners. Its address is: <http://wiki.teraflux.eu> . This space has been designed using a wiki tool to improve the collaboration among the partners. In Figure 13 we show the main page of this site.



Figure 13 – wiki.teraflux.eu main page

The wiki web site has been divided in several content spaces: TERAFLUX (the main one), Financial, LEGAL, WP1, WP2, WP3, WP4, WP5, WP6 and WP7. Other content spaces may be created on demand. The next pictures, Figure 14, Figure 15 and Figure 16, show parts of LEGAL, WP1 and WP7 wiki pages.



**Figure 14 - Legal topics on wiki.teraflux.eu**

In the LEGAL space the partners will find all the Legal documents used for the projects as the Grant Agreement, the Consortium Agreement, the NET documents, as well official communications received by the Project Officer.

In the Financial space the partners will find all the Financial documents used during the project, Guidelines and other tools useful for financial administration of the project.

WP1 is used for the management of the project: here the partners find useful material for dissemination, meetings, mailing, board composition, etc.



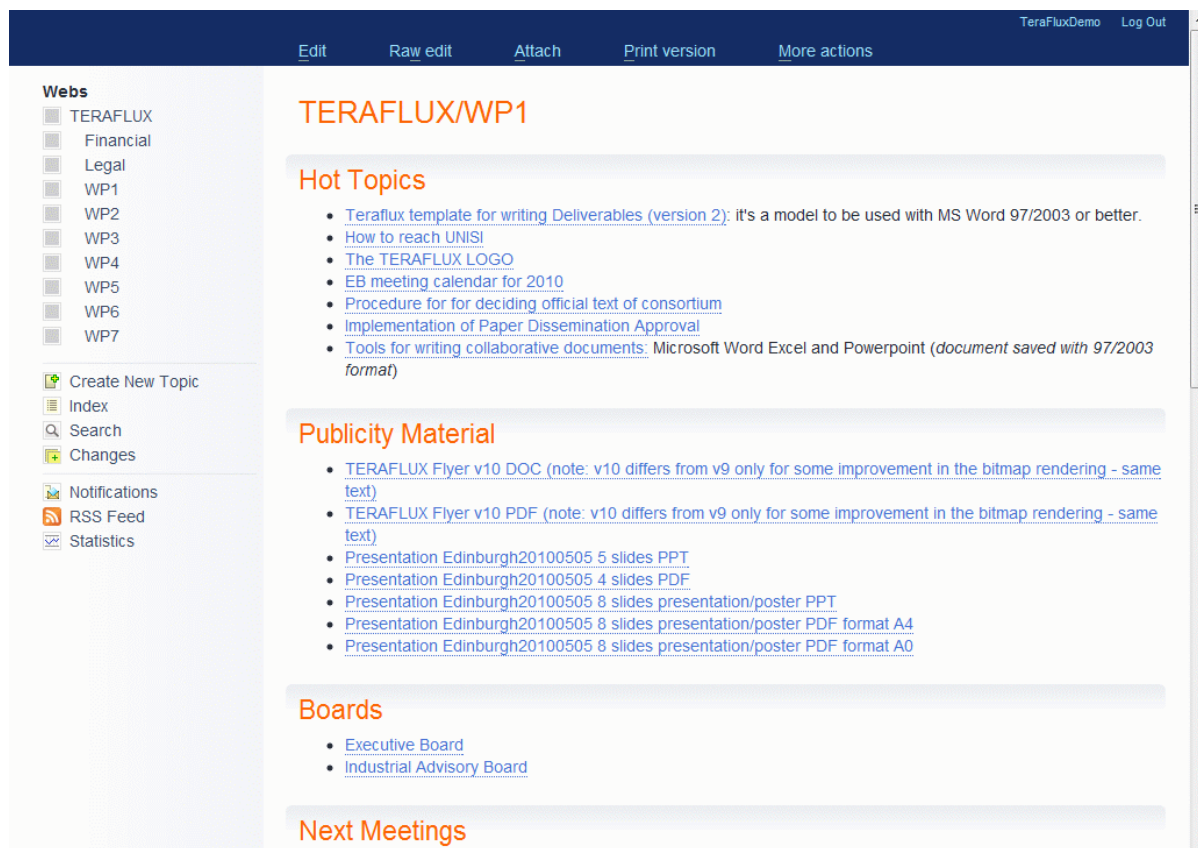


Figure 15 - WP1 space on wiki.teraflux.eu

WP2 – WP7 are dedicated to the scientific work and collaboration of partners: in each of those project spaces Partners can find deliverables, milestones, scientific papers and draft. Every page can be edited by any user allowed to access the wiki to insert new content, modify existing content or add comments to content inserted by someone else.

**TERAFLUX/WP7**

### Deliverables and Milestones

- [D7.1 \(due M6\) - Plan on interface deployment \(internal use\)](#)
- [M7.1 \(due M6\) - List of Architectural Features](#)

### Hot Topics (discussion needed)

- [Defining the COTSon/WPx interface](#)
- [Questions on COTSon deployment in TERAFLUX](#)
- [Defining the TERAFLUX Baseline Machine \(TBM\)](#)
- [Defining the TERAFLUX Architecture Abstraction Layer \(TAAL\)](#)
- [COTSon Messaging Experiments](#)
- [Transactional memory implementation on TERAFLUX](#)
- [Teraflux OS](#)

### For Your Reference

- [How to setup a BabyCotson](#)
- [Information on the COTSon Simulator](#)

### State of the Art

- [NEW PARA-VIRTUALIZATION without pain \(talk from Gelato group\) \(local copy\)](#)
- [NEW vNUMA](#)
- [The MIT Graphite Simulator](#)

### WP7 meetings

- [WP7 Confcall 20100226 minutes](#)

Figure 16 - WP7 space on wiki.teraflux.eu

## 4 Mailing lists and their web sites

Three mailing has been created purpose of exchanging information: one for the members of the executive board, one for technical discussion and one for administrative and financial issues.

The mailing lists are the following:

- [teraflux-tech@dii.unisi.it](mailto:teraflux-tech@dii.unisi.it) – this list is open to every people belonging to a project partner: it is focused on technical and scientific issues of TERAFLUX project;
- [teraflux-eb@dii.unisi.it](mailto:teraflux-eb@dii.unisi.it) – this list is open only to members of Executive Board and to the Project Management Team and it is used to discuss items related to the project management and steering decisions as defined by the Consortium Agreement;
- [teraflux-adm@dii.unisi.it](mailto:teraflux-adm@dii.unisi.it) – this list is open only to administrative and financial personnel of TERAFLUX partners and it is used to discuss administrative and financial aspects of TERAFLUX project.

Valid alias of these mailing list are [teraflux-tech@teraflux.eu](mailto:teraflux-tech@teraflux.eu), [teraflux-eb@teraflux.eu](mailto:teraflux-eb@teraflux.eu) and [teraflux-adm@teraflux.eu](mailto:teraflux-adm@teraflux.eu) respectively. Other mailing list will be created on consortium request.

For each mailing list a web site is available for administering it, for managing user options and to browse archives of every message sent using these mailing lists (see Figure 17).

### June 2010 Archives by thread

- Messages sorted by: [\[ subject \]](#) [\[ author \]](#) [\[ date \]](#)
- [More info on this list..](#)

Starting: Tue Jun 15 16:48:44 CEST 2010  
Ending: Wed Jun 30 23:22:42 CEST 2010  
Messages: 20

- [\[Teraflux-eb\] New teraflux-eb mailing list - Please reply to this mail](#) Gabriele Cecchetti
- [\[TERAFLUX-EB\] Request of the names of the people working in the various WPs](#) Roberto Giorgi
  - [\[TERAFLUX-EB\] Confidentiality, security and Teraflux](#) Faraboschi, Paolo (HP Labs)
    - [\[TERAFLUX-EB\] Confidentiality, security and Teraflux](#) Roberto Giorgi
  - [No subject](#)
  - [\[TERAFLUX-EB\] our project manager Gabriele Cecchetti has resigned](#) Roberto Giorgi
- [\[TERAFLUX-EB\] WP7 planning - PLEASE READ + EXPRESS DOODLE PREFERENCE](#) Roberto Giorgi
  - [\[TERAFLUX-EB\] WP7 planning - PLEASE READ + EXPRESS DOODLE PREFERENCE](#) Faraboschi, Paolo (HP Labs)
  - [\[TERAFLUX-EB\] WP7 planning - PLEASE READ + EXPRESS DOODLE PREFERENCE](#) Albert Cohen
    - [\[TERAFLUX-EB\] WP7 planning - PLEASE READ + EXPRESS DOODLE PREFERENCE](#) Avi Mendelson
- [\[TERAFLUX-EB\] Reminder: Re: WP7 planning - PLEASE READ + EXPRESS DOODLE PREFERENCE](#) Roberto Giorgi
  - [\[TERAFLUX-EB\] Reminder: Re: WP7 planning - PLEASE READ + EXPRESS DOODLE PREFERENCE](#) Albert Cohen
    - [\[TERAFLUX-EB\] Reminder: Re: WP7 planning - PLEASE READ + EXPRESS DOODLE PREFERENCE](#) Roberto Giorgi
    - [\[TERAFLUX-EB\] Teraflux Deliverable template](#) Gabriele Cecchetti
    - [\[TERAFLUX-EB\] Teraflux Deliverable template](#) Daniel Goodman
    - [\[TERAFLUX-EB\] Reminder: Re: WP7 planning - PLEASE READ + EXPRESS DOODLE PREFERENCE](#) Albert Cohen
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    - [\[TERAFLUX-EB\] Reminder: Re: WP7 planning - PLEASE READ + EXPRESS DOODLE PREFERENCE](#) Avi Mendelson
    - [\[TERAFLUX-EB\] Reminder: Re: WP7 planning - PLEASE READ + EXPRESS DOODLE PREFERENCE](#) Albert Cohen
- [\[TERAFLUX-EB\] Deliverable/Milestone Date](#) Roberto Giorgi

Last message date: Wed Jun 30 23:22:42 CEST 2010  
Archived on: Wed Jun 30 23:21:10 CEST 2010

- Messages sorted by: [\[ subject \]](#) [\[ author \]](#) [\[ date \]](#)
- [More info on this list..](#)


Figure 17 - An example of TERAFLUX mailing list archive

## 5 Conformance to the FET FP7 projects quick communication guidelines

This section we reports about the conformance of the teraflux.eu to the project website section of the FET FP7 projects quick communication guidelines available at the internet address:

[ftp://ftp.cordis.europa.eu/pub/fp7/ict/docs/fet-proactive/press-19\\_en.pdf](ftp://ftp.cordis.europa.eu/pub/fp7/ict/docs/fet-proactive/press-19_en.pdf)

REQUESTED	VERIFY
<b>DOMAIN NAMES:</b>	
<ul style="list-style-type: none"> <li>Use a .eu domain name for your project's website. (If a .org, .net or .com domain name has already been registered, please also register the .eu version and use a "301 redirect" to direct traffic from the other domain(s) to the .eu domain).</li> </ul>	<p>teraflux.eu is used. A previously registered domain named teraflux.org has been redirected to teraflux.eu using a 301 http protocol status code.</p>
<ul style="list-style-type: none"> <li>It is strongly recommended that the domain is registered for at least 2 years beyond the project's end date. Domain registration charges can be charged to the project budget.</li> </ul>	<p>teraflux.eu and teraflux.org are currently registered until July 2016.</p>
<b>THE PROJECT'S WEBSITE SHOULD:</b>	
<ul style="list-style-type: none"> <li>Provide a unified view of the project and be established no later than one month after the start of the project.</li> </ul>	<p>teraflux.eu is online with meaningful web pages before the start of the project.</p>
<ul style="list-style-type: none"> <li>Present an initial visitor with an overview of the project that will make sense to a "technically literate" party outside your immediate community. Grounded in real world language, the home page should tell a "project story" (outline real world scenario or real world benefits expected of the research).</li> </ul>	<p>The teraflux.eu homepage is described in section 2. It gives an overview of the project outlining a real world scenario which will highlights the benefits expected from the research.</p>
<ul style="list-style-type: none"> <li>Acknowledge the source of funding</li> </ul>	<p>Homepage reports the source of the grant and its amount.</p>
<ul style="list-style-type: none"> <li>Use the FET logo, available from <a href="http://cordis.europa.eu/fp7/ict/fet-proactive/images/fet-tree.zip">http://cordis.europa.eu/fp7/ict/fet-proactive/images/fet-tree.zip</a>.</li> </ul>	<p>FET logo is present. Also a FET banner was inserted.</p>
<ul style="list-style-type: none"> <li>Use the FP7 "Cooperation" logo, available from: <a href="http://ec.europa.eu/research/fp7/index_en.cfm?pg=logos">http://ec.europa.eu/research/fp7/index_en.cfm?pg=logos</a>.</li> </ul>	<p>FP7 cooperation logo is present.</p>
<ul style="list-style-type: none"> <li>Ensure the FET logo links to the FET site (<a href="http://cordis.europa.eu/fet-proactive/">http://cordis.europa.eu/fet-proactive/</a>)</li> </ul>	<p>FET logo links to the FET site.</p>
<ul style="list-style-type: none"> <li>Ensure the FP7 logo links to the ICT site (<a href="http://cordis.europa.eu/fp7/ict/">http://cordis.europa.eu/fp7/ict/</a>)</li> </ul>	<p>FP7 logo links to the ICT site.</p>

<ul style="list-style-type: none"> <li>Have content that is proof read by a mother tongue English speaker before publication.</li> </ul>	The public part of the teraflux.eu website has been checked by the British partner of the consortium (UNIMAN).
<ul style="list-style-type: none"> <li>Avoid EU contract jargon like 'work packages' or "D2.1" or "Technical Annex".</li> </ul>	Contract jargons are not present.
<ul style="list-style-type: none"> <li>Avoid placing the contract number (e.g. "IST-2006-12345") in a visible position (this number is meaningless to anybody but project and commission administrators).</li> </ul>	Project contract number is not present in a visible position.
<ul style="list-style-type: none"> <li>Have a clearly visible and regularly updated RSS feed (updated at least once a month).</li> </ul>	RSS feed of the project is present in the home page and in the news page. It is represented by the well-known symbol  . It's updated automatically by the CMS software whenever a new news item is inserted on the website.
<ul style="list-style-type: none"> <li>Have a blog (or blogs): Set up a project blog (blogging rights assigned to one or more key technical people in the project). Alternatively if a key figure in the project already has a personal blog they use it to regularly discuss project activities.</li> </ul>	The intranet part of the project website (wiki.teraflux.eu) is structured as a wiki site. In this way each person involved in the project has the opportunity to insert new pages, new terms or comments any page of this website, as if it was a collection of blogs.
<ul style="list-style-type: none"> <li>Each page should have a unique title tag (in the Header section of the page's HTML code). This benefits greatly the ranking of project web pages in search engines.</li> </ul>	Each page has a unique title tag.
<ul style="list-style-type: none"> <li>Websites of all project partners should link to the project's website.</li> </ul>	Most of partner websites links to the project website.
<b><i>PRESENCE ON WIKIPEDIA:</i></b>	
<ul style="list-style-type: none"> <li>IPs, NoEs and Coordination Actions should also establish and maintain a dedicated page about their project on Wikipedia (www.wikipedia.org). Create a network of hyperlinks (e.g. from other relevant Wikipedia pages and partner websites) that point to the Wikipedia page.</li> </ul>	<u>A Wikipedia page has been created, and is now being populated:</u> <u>As soon as the content will be approved, the term TERAFLUX European Project will appear on en.wikipedia.org.</u>

Items checked with green background full satisfy the communication guidelines. The last two items, with yellow and orange background, are not yet completed. It's planned to complete those items before the end of the first reporting period.

Project: **TERAFLUX** - Exploiting dataflow parallelism in Teradevice Computing

Grant Agreement Number: **249013**

Call: FET proactive 1: Concurrent Tera-device Computing (ICT-2009.8.1)

## **6 Conclusion**

This deliverable presented a comprehensive description of Project Web site, showing the public space, and the intranet web site used as a powerful collaborative tool.

The website will be kept maintained and updated for the whole duration of the project to disseminate the project ideas and the project life, and it will be constantly will be used as for day to day task and interactions between partners.

The project website is complaint with the “FET FP7 Quick Communication Guidelines”.

## References

1. The Apache Software Foundation website <http://www.apache.org/>
2. The Drupal website <http://drupal.org/>
3. Wiki definition from the Wikipedia website <http://en.wikipedia.org/wiki/Wiki>
4. TWiki - the Open Source Enterprise Wiki and Web 2.0 Application Platform <http://twiki.org/>
5. FP7 Quick Communication Guidelines:  
[ftp://ftp.cordis.europa.eu/pub/fp7/ict/docs/fet-proactive/press-19\\_en.pdf](ftp://ftp.cordis.europa.eu/pub/fp7/ict/docs/fet-proactive/press-19_en.pdf)