



Project no: 015981

tOSSad

towards Open Source Software adoption and dissemination

Coordination Action
Information Society Technologies
Integrating and Strengthening the European Research Area

Final Activity Report

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Project coordinator name: Kaan Erkan

Project coordinator organisation name: TUBITAK - UEKAE

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1. Project execution

1.1. Introduction

Europe, as a whole, has a stake in improving the usage of F/OSS in all branches of IT and public life, in general. Although there is a committed open source community in IT-strong countries of Europe, there is lot more to be done. F/OSS communities throughout Europe can achieve better results through co-ordination of their research activities/programmes that reflect the current state-of-the-art.

The main objective of the tOSSad project was to start integrating and exploiting already formed methodologies, strategies, skills and technologies in F/OSS domain in order to help governmental bodies, educational institutions and SMEs to share research results, establish synergies, build partnerships and innovate in an enlarged Europe.

More precisely, the tOSSad project aimed at improving the outcomes of the F/OSS communities throughout Europe through supporting the coordination and networking of these communities by means of state-of-the-art studies, national program initiations, usability cases, curriculum development and the development of collaborative information e-bays and web-based groupware.

By conducting these actions on an international European level with inclusion of the ACC and NMS countries, the tOSSad project created momentum for a general acceptance and coordinated boost of F/OSS development.

1.2. Objectives of the project and state of the art

The main objective of the tOSSad project was to start integrating and exploiting already formed methodologies, strategies, skills and technologies in F/OSS domain in order to help governmental bodies, educational institutions and SMEs to share research results, establish synergies, build partnerships and possibly innovate in an enlarged Europe.

F/OSS faces more barriers in some regions of Europe that include mostly ACC and NMS because of various social, political, economical, and technical factors. On the other hand, F/OSS appears to be a big opportunity for such countries, by enabling rapid and affordable deployment of information technology, skills development, cheaper solutions for education and public administrations, thus impacts the development of national and regional economies.

There have been various European programmes and initiatives with the objectives of raising public awareness in this field and through demonstrations of positive uses of F/OSS. For example, in FP5 and FP6 there have been many projects related to, or based on F/OSS.¹

¹ F/OSS projects,
http://europa.eu.int/information_society/activities/opensource/european_activities/text_en.htm

However, these efforts have not had any major positive influences on F/OSS usage in some regions of Europe. Also the F/OSS communities of MS have had almost no effective communication with the communities in ACC+NMS, in general, resulting in a lack of co-operation. Moreover, there are many unnecessary technological and methodological repetitions in software industry that causes unproductivity. F/OSS, by its nature, fosters software development and dissemination, and expands the software industry and technology with the help of virtual projects and interest groups which will benefit from software reuse.

There is a need to fill in these gaps through cooperation and networking.

The detailed objectives of the project are given below:

- To give a clear picture of the current status of F/OSS related to technical and social barriers, opportunities and threats.
- To build the basis to start up national programmes for improved usage of F/OSS in "F/OSS target countries".
- To integrate current applied research activities in Europe in the field of usability and accessibility.
- To develop and revise F/OSS training standards and help form the infrastructure and standardization of training documents.
- To disseminate the results of all CA activities.

To reach these goals, the tOSSad project has performed various activities and created several deliverables within the following six work-packages:

- **WP1 - F/OSS study:** The objective for this work-package was to give a clear picture of the current status (usage, implementation, adoption, penetration, government policies, etc.) of F/OSS, related to the technical and social barriers that hinder F/OSS usage in a larger scale, current and future trends and opportunities.
- **WP2 - F/OSS in National Programmes:** The aim of the work-package was to start up national programmes for improved usage of F/OSS in some (at least one) of the "F/OSS target countries" and develop guidelines that will be used for F/OSS adoption in the public sector.
- **WP3 - F/OSS Usability Study:** The main goal of TOSSAD F/OSS usability work-package was to share usability aspects and requirements among expert usability specialists in order to help developers complete their F/OSS projects on time and under budget, resulting in increased market competitiveness in Europe, by producing how-tos, tutorials, guidelines and carrying out F/OSS usability tests.
- **WP4 - F/OSS Curriculum Development:** The main goal of this work-package was to evaluate the educational needs of industry to enhance the qualifications in F/OSS, as well as to develop, revise and enhance adaptive and flexible F/OSS training standards and curriculum.

- **WP5 – Dissemination and Exploitation:** This work-package was made up of activities with the aim of communicating, integrating, knowledge sharing and disseminating activities.
- **WP6 – Management and Coordination Activities:** The goal of this WP was to drive daily management issues, carry on administration issues and resolve conflicts.

1.3. Results

In its first year, the project has performed the following activities:

- **The project portal:** The tOSSad portal includes news and events from the project, along with documents presenting the project progress. Visitors of the portal can get in contact with the tOSSad community and participate in the forums. The project portal is based on the open source content management system eZ content management system. Visit www.tOSSad.org for more information.
- **Newsletters:** Every three months the project published newsletters. These newsletters contain information and news from the project as well as from the F/OSS world. The newsletters are available for download from the project portal.
- **Dissemination materials:** These are printed dissemination materials which are also available electronically. Fliers and posters were used by project partners in all their dissemination activities.
- **F/OSS usability workshop:** The project organized a workshop on the usability, accessibility and testing of F/OSS in St. Augustin, Germany. The results of this workshop were published in a deliverable called the F/OSS Usability Workshop Report.
- **F/OSS national programme workshop:** The project organized a F/OSS national programme workshop to determine practices, requirements, and obstacles, and to discuss the requirements and obstacles for the adoption of F/OSS in national programs. The event took place as a part of the 2nd Open Source World Conference - Open Knowledge World Meeting in Mérida, Extremadura province, Spain on 25th and 26th of October, 2005. The results of the workshop were delivered as a report.
- **F/OSS National Programme Start-up Roadmap report:** The project published a proposal for a roadmap to ensure that governments exploit the benefits that F/OSS can offer more systematically both by using available F/OSS solutions and by contributing to further F/OSS development.
- **Economical and Social Benefits of F/OSS report:** This deliverable serves to study the efficiency of F/OSS tools for both private and public organizations.
- **1st F/OSS Curriculum Workshop Report:** The project organized a workshop on F/OSS curriculum development on 14-15 November 2005, Heerlen, The Netherlands, as a part of the Open Source for Education in Europe Conference. The outcomes of this workshop were published as a deliverable.
- **Training Needs Analysis for F/OSS Questionnaire:** The consortium partners produced a questionnaire to take a clear picture of the training needs for the F/OSS among organizations involved in software.

- **Methodology implementation report and tutorial to build a Linux laboratory in a high school/K-12 and university environment:** This report discusses the methodology for building a F/OSS laboratory for different kinds of F/OSS curriculum and gives a step-by-step tutorial for the implementation of the proposed approaches.

In the second year, the project has performed the following activities:

- **Usability test results report:** Partners have developed and executed a usability test in order to analyse the usability issues of open source office suite OpenOffice.org 2.0. The test methodology and results have been compiled in a test report.
- **2nd F/OSS Curriculum workshop report:** The project consortium organized the 2nd F/OSS Curriculum workshop on 10 June 2006 in Como, Italy, in the context of the 2nd International Conference on Open Source Systems, OSS2006. The main objective of this workshop was to revise, to integrate, and to plan further development of a vendor neutral F/OSS curriculum, designed to fit the needs of educational institutes and of firms using F/OSS at various levels.
- **F/OSS Design for usability workshop report:** The project consortium organized the “F/OSS Usability Workshop” in CINECA, Italy on December 15, 2007. The theme of the workshop was “Empowering F/OSS applications with a usability focus: designing for a successful project”. The main goals of the workshop were set as follows:
 - To have an understanding of the current relationship between F/OSS and usability, together with problems, barriers and actions taken.
 - To understand how F/OSS and usability will cooperate across the organization or a project.
 - To have the ability to integrate the developer's refreshed usability skills and the project they are involved.
- **Current Status of F/OSS in the target countries report:** The main aim of this study was to give a clear picture of the current status of F/OSS in the partner countries, focusing on the the technical and social barriers and opportunities. The report also includes some success stories that provide pointers for overcoming the barriers.
- **Usability Guideline:** The project consortium produced a guideline for achieving usability within geographically distributed development projects. Problems slowing down the F/OSS development and usability process were investigated, and recommendations for involving usability experts in development phase were provided.
- **F/OSS Usability report, Part B:** This report focuses on the usability aspects of F/OSS solutions for mobile devices.
- **F/OSS Curriculum:** This document reports on the tOSSad project's efforts towards the development of F/OSS Curricula suitable for delivery in a range

of educational settings. The report discusses how to overcome shortage of workforce skilled in F/OSS and lack of components for basic knowledge on F/OSS in current curricula, and provides educational models for the study of F/OSS.

- **F/OSS Adoption in public sector guideline:** This report identifies roles public administrations can play in using and promoting F/OSS. It outlines several levels of adoption and a non-aggressive migration strategy for different platforms and scenarios.

Throughout its second year, the tOSSad project aimed to raise political and social awareness for F/OSS and decrease the fragmentation of research efforts both in technical and socio-economical terms. The project outcomes will help countries with relatively low F/OSS adoption to realize the benefits and opportunities offered by F/OSS. With respect to this, tOSSad will raise the awareness of the European software industry and public administration on F/OSS as a whole. The project will also create new opportunities for educational institutions from K12 to HEIs (Higher Education Institutions), to benefit from F/OSS offerings. Being a coordination action project, tOSSad gave extensive attention to dissemination activities. Moreover, sustainability of the project will be ensured throughout established contacts, and continued.

All project outcomes have been published on the tOSSad Web site (www.tOSSad.org). The complete collection of documents, comprising over 600 pages, sheds light on the general economic and social benefits of Free and Open Source Software (F/OSS). The reports propose ways to overcome national barriers of F/OSS adoption, discuss how to improve the usability of F/OSS, outlines a F/OSS curriculum for educational purposes and offer hands-on tips on setting up a Linux laboratory for schools.

At the date of publishing of all final deliverables, tOSSad issued a press release with the following statement:

“Free and Open Source Software is right on track in Europe”, says Kaan Erkan, Project Coordinator of tOSSad. “The time is ripe for mass adoption of F/OSS. Within our surveys and workshops we experienced many successful examples of F/OSS solving critical problems in entering the mass market. There is still a need for the continued improvement of usability and a better understanding of how to sell F/OSS to public administrations. In this respect the tOSSad reports provide in-depth information and useful guidelines for daily use. We welcome others to pick up on our suggestions and to help foster the use of Free and Open Source Software in Europe.”

All tOSSad reports are available for download from www.tOSSad.org/publications. A readers guide provides a brief summary of the most important reports: www.tOSSad.org/publications/highlights.

1.4. Consortium

The list of 19 tOSSad partners ranges from well-known scientific institutions to F/OSS companies and organizations from all over Europe.

Participant Number	Participant Name	Participant Short Name	Country
1	TUBITAK / UEKAE	UEKAE	Turkey
2	PDA Communication Srl	PDA	Italy
3	XLAB d.o.o	XLAB	Slovenia
4	DIEE University of Cagliari	UCA	Italy
5	eZ Systems	EZ	Norway
6	Ukrainian Institute for Business Informatics	ULIBIN	Ukraine
7	Tallinn University of technology	TUT	Estonia
8	CONSEN (EEIG)	CONSEN	Spain
9	Viewrope	VIE	Sweden
10	Knownet	KNOWNET	UK
11	FTZ	FTZ	Malta
12	Internet Society Bulgaria	BIS	Bulgaria
13	FUNDECYT	FUNDECYT	Spain
14	Fraunhofer FIT	FHG/FIT	Germany
15	Public Voice Lab	PVL	Austria
16	IOTA	IOTA	Turkey
17	Trinity College Dublin	TCD	Ireland
18	Intesi Group Belgium	IGB	Belgium
19	University of Stuttgart	IAT	Germany

Specific information about each partner is available at <http://www.tOSSad.org/about/partners>.

2. Dissemination and use

2.1. Exploitable knowledge and its use

Being in line with its 'co-ordination action' type project instrument, the prior objective of the tOSSad project was to start integrating and exploiting already formed methodologies, strategies, skills and technologies in Free/Open Source Software (F/OSS) domain in order to help governmental bodies, educational institutions and SMEs to share research results, establish synergies, and build partnerships.

The tOSSad project followed common practices and philosophy of F/OSS collective development process, where publicly available knowledge results, solutions, methodologies are exploited in order to develop over and to contribute back to that corpora of common knowledge. As such, all results of the project, which are listed in Section 2 and Section 3, are licensed under either the GNU General Public License, version 2 or later², or the Creative Commons Attribution License, version 2.0 or later³ to make it available and exploitable by aforementioned groups.

Other than activities aforementioned, the consortium does not have any exploitable industrial products or services.

2.2. Dissemination of knowledge

The dissemination of knowledge generated has been conducted and planned through different means as listed below:

- Presenting papers in the appropriate session of a relevant conference
- Organising specific session(s) on tOSSad deliverables or outcomes
- Organising standalone panel or workshop on a relevant subject
- Printing and publishing workshop proceedings contributed both by consortium partners and world wide researchers, academicians and practitioners
- Giving talks in a relevant event such as a seminar, a workshop or a conference
- Presenting a poster session in an exhibition booth
- Disseminating approved deliverables of the consortium through project Web portal
- Collaborating with non-consortium members to disseminate and publish project related activities

² <http://www.gnu.org/licenses/gpl.html>

³ <http://creativecommons.org>

- Actively participating in relevant workshops, seminars, and special working group meetings to convey consortium views.

Planned dates	Type	Type of audience	Countries addressed	Size of audience	Partner responsible
M1-M24	Press release	General public	All	Large scale	All
M1-M24	Exhibition	General public	All	Large scale	All
M1-M24	Workshops	General Public, Professionals	All	At the average workshop participation	All
M1-M24	Publications	Details are given below			
M1-M24	Talks	Details are given below			
M1-M24	Conferences	Details are given below			
M1-M24	Project portal	Details are given below			
M1-M24	Posters	Details are given below			

2.2.1. Publications

- Bülent Özel, "Perceptual Barriers at Software Adoptions at Public Administrations" Submitted to eChallenges 2007 Conference.
- Bülent Özel, Uros Juvanovic, Beyza Oba, and Manon van Leeuwen, "Perceptions on F/OSS adoption", to be published within Proceedings of The Third International Conference on Open Source Systems, Springer Verlag, IFIP 2.13.
- Bülent Özel, Manon van Leeuwen, and Uros Juvanovic "Barriers Against wider F/OSS Adoption: Views of European Public Administrators" to be published within Proceedings Free Software World Conference 3.0.
- Bülent Özel, Can Burak Çilingir, Kaan Erkan (eds.) "Towards Open Source Software Adoption: Educational, Public, Legal, and Usability Practices". Proc. of OSS 2006 tOSSad Workshop, ISBN: 975-403-373-0.

- Bülent Özel, Kaan Erkan, and Görkem Çetin, “Towards open source software adoption and dissemination. A collaborative network of FLOSS competency centers” by is published in Proc. of Encuentro Internacional sobre Conocimiento Libre”, I.S.B.N.: 84-689-65551-0, 2005, pp. 494-499
- Bülent Özel, Julia Velkova, Brian Restall, Jaka Mocnik, Kaan Erkan and Gorkem Cetin, "FLOSS-CC: A collaborative Network of FLOSS competency centers towards open source software adoption and dissemination" is published in proceedings of II Open Source World Conference in Malaga 15-17 February, 2006, pp.79-83.
- Michele Marchesi, Graham Attwell, Kaan Erkan, Selahattin Kuru, and Enn Ounapuu, and Oleksandr Ulybin. “Helping to develop an Open Source Curriculum: the case of tOSSad EU funded project”, in Proceedings of Open Source for Education in Europe 2005, Heerlen - The Netherlands.
- Uros Juvanovic, Damiano Verzulli and Görkem, “F/OSS usability: a tOSSad case study” in Proceedings of tOSSad 2006 Workshop, Como, Italy.
- Bülent Özel, Julia Velkova, and Manon van Leeuwen, “F/OSS in European National Programmes”, in Proceedings of tOSSad 2006 Workshop, Como, Italy.
- Görkem Çetin, Sandra Frings and Damiano Verzulli “F/OSS usability: a tOSSad case” in Proceedings of National Academic Computing Conference 2006 between 9-11 February 2006, Denizli, Turkey.
- Bülent Özel, Mehmet Gencer, and Chris Stephenson, “An MSc Programme in Open Source Information Systems”, in Proceedings of tOSSad 2006 Workshop, Como, Italy.
- Manon van Leeuwen, Julia Velkova, and Bülent Özel, “How to avoid the transformation of barriers to OSS adoption in Public Administration into barriers for regional development”, in Proceedings of eChallenges 2006, Barcelona, Spain.

2.2.2. Organized workshops, panels and seminars

- “tOSSad Panel” at Free Software World Conference 3.0. Badajoz, Spain, February 7, 2007.
- “F/OSS Usability Workshop”, December 15, 2006, Bologna, Italy.
- “tOSSad 2006 Workshop” at The Second International Conference on Open Source Systemes, Como, Italy on June 10, 2006. See the publishable results for more information.
- “tOSSad Panel” at 4th Open Source Conference at Istanbul Bilgi University, Istanbul, Turkey on February 24, 2006
- “F/OSS National Programme Workshop” at Encuentro Internacional sobre Conocimiento Libre, in Mérida Extremadura (SPAIN), 25-26 October, 2005

- “F/OSS Adoption Barriers Focus Group Workshop”, at Encuentro Internacional sobre Conocimiento Libre, in Mérida Extremadura (SPAIN), 25-26 October, 2005
- “Curriculum Development Workshop” at Open Source for Education in Europe 2005 conference, in Heerlen, The Netherlands, November 15-16, 2005

2.2.3. Talks given

- Bülent Özel, “eZ Publish in tOSSad Project” at eZ Systems Conference, Skien, Norway, June 2006.
- Bülent Özel, “Major Economic Benefits and Disadvantages of OSS Web Technologies within Public Administration” at WebTech 2006, July 1, 2006, Sofia, Bulgaria.
- Bülent Özel, “Master programs on FLOSS in the Higher Educational Institutions” at Free and Open Source Software in South-Eastern Europe Workshop organized by FLOSSWORLD, March 24, 2006, Sofia Bulgaria.
- Graham Attwell, “tOSSad Project” at Open Culture Conference: accessing and sharing knowledge - scholarly production and education in the digital age, Milan, Italy June 2005.
- Julia Velkova, “tOSSad Project” at e-government conference in Ust-Kamenogorsk, Kazakhstan, July 2006.
- Peter Steur, “tOSSad Project” at Linuxwochen's Community Day, Wien Austria ,27 May, 2005.

2.2.4. Networking conferences and events

- UEKAE has attended “First Concertation Meeting of ERA Coordination Projects in IST” organized by CISTRANA project in Brussels, February 15, 2005
- UEKAE, CONSEN and XLAB have attended “Workshop on Key Challenges for Software and Services Research” organized by the EU Commission in Brussels, April 21, 2005
- WP1 and WP2 partners have attended OSS2005 held in Genova, Italy between 11-15 July 2005.
- IAT and BIS have attended FP6 Concentration Meeting of Software Technologies on 12 July 2005 in Brussels focusing a target group of researchers.
- UEKAE has attended “IST ERA Meeting” organized by CISTRANA project in Brussels, December 1, 2005
- UEKAE has attended FLOSS World conference in Brussels, April 26-28, 2006

- UEKAE has attended “Web Technology Conference” in Sofia, Bulgaria, 30 June-1 July 2006
- UEKAE has attended IST 2006 Conference in Helsinki and manned a joint ERA projects stand arranged by CISTRANA, 21-23 November 2006

2.2.5. Project web site (portal)

The portal is an essential resource for dissemination. It has been used as the most updated and the most detailed source of information. The basic site map for the portal is given below.

- **Home Page:** This is the start point for the portal navigation. All of the below links site map components will be places on this page. In addition, the home page will display the project news and an introductory note.
- **News:** tOSSad project and related news are published here.
- **About:** This part gives general information about the project: What tOSSad is, what it serves, mission and accomplishments, together with contact point.
- **Projects:** This section gives brief information about the 5 workpackages of the tOSSad project.
- **Publications:** This part includes publicized project deliverables and all other dissemination materials such as papers, presentations, newsletters and brochures.
- **Press:** This section includes news about tOSSad in the press
- **Events:** This section includes a list of F/OSS related seminars, organizations, conferences and workshops. There's also an “upcoming events” and “past events” section.

The portal has public parts available to everyone and private parts only serving the consortium members, thus it incorporates a user management system.

2.2.6. tOSSad brochures, posters and roll-ups

Brochures and posters are important support materials for project dissemination. As printed materials, they have been used for visibility in conferences, workshops and fairs. The flyers have given general information about the project aims and vision. An electronic version of these leaflets and brochures have been distributed via the web portal and e-mails.

Brochures and posters have been produced and distributed during the events attended by the partners. Moreover, many brochures have been posted to main mailing lists and web sites for visibility and PR issues. tOSSad booth has been established during attended major events.

2.2.7. tOSSad newsletters

8 newsletters have been produced and distributed to the target groups via web every three months. The newsletters have provided information on the progress of the project with news and events information. The newsletter have also included information related to the project’s area of interest. The major ingredients of the newsletter have consisted of news from the project, news from areas within the project’s interest, events from other related projects, events that the project has taken part, project status and partner information.

2.2.8. tOSSad logo

The project logo has been an important factor in creating the project identity. The logo reflects the main objectives of the project. The logo has been used in all dissemination materials.

2.2.9. Future activities of tOSSad

The table below tabulates future activities of tOSSad after the ending of contracted project lifetime.

Planned dates	Type	Type of audience	Countries addressed	Size of audience	Partner responsible
June 2007	Paper presentation at OSS 2007, The Third International Conference on Open Source Systems	General public and experts	All	Large scale	UEKAE
October 2007	Paper presentation at eChallenges 2007	General public and experts	All	Large scale	UEKAE
2005 - 2010	Project web-site	All	All	Large scale	UEKAE, eZ

2.3. Publishable results

Publishable summary of major exploitable results (deliverables)⁴ of the project produced and reviewed has been tabulated below.

⁴ Licensed under either the GNU General Public License, version 2 or later, or the Creative Commons Attribution License, version 2.0 or later.

ID	Name	Short Summary	Target Audience
D03	Project newsletter	<p>8 newsletters have been produced and distributed to the target groups via web every three months. The newsletters have provided information on the progress of the project with news and events information. The newsletter have also included information related to the project's area of interest. The major ingredients of the newsletter have consisted of news from the project, news from areas within the project's interest, events from other related projects, events that the project has taken part, project status and partner information.</p> <p>http://www.tossad.org/press/newsletters</p>	General audience
D04	F/OSS Usability Workshop Report	<p>This workshop is intended to discuss on future usability requirements of F/OSS software</p> <p>http://www.tossad.org/publications/f_oss_usability_workshop_report</p>	Software developers, HCI specialists
D05	Printed dissemination material	<p>Brochures and posters are important support materials for project dissemination. As printed materials, they have been used for visibility in conferences, workshops and fairs.</p> <p>http://www.tossad.org/press/brochures</p>	General audience
D06	F/OSS national programme workshop report	<p>This deliverable reports workshop results which has aimed to determine and discuss the requirements and obstacles for national programs. The report also examines similarities and non-transferrables of various experiences along with a focus on best practices and success stories of F/OSS use in the public sector.</p> <p>http://www.tossad.org/publications/f_oss_national_programme_workshop_report</p>	Public administration decision takers
D07	F/OSS national programme start-up roadmap report	<p>This deliverable of tOSSad project includes the start-up roadmap report towards F/OSS adoption in national programs. Driving upon recent studies, findings of other related EU funded studies, and experiences from both governmental and non governmental establishments, the report proposes methods, options, and criteria</p>	Public administration decision takers

ID	Name	Short Summary	Target Audience
		<p>towards Free/Libre/Open Source Software adoption in public institutions.</p> <p>http://www.tossad.org/publications/f_oss_national_programme_start_up_roadmap_report</p>	
D09	Economical and social benefits of F/OSS report	<p>This report examines the major benefits of the F/OSS adoption within Public Administrations. It highlights the economic basis for such government decisions and whether F/OSS provides cost effective solutions to Public Administration's current reliance on proprietary software (PS). The report argues that F/OSS offers benefits beyond economic interests towards an open society reducing as well the digital divide.</p> <p>http://www.tossad.org/publications/economical_and_social_benefits_of_f_oss_report</p>	Public administration decision takers
D10	F/OSS usability report, Part A	<p>This report gives an overview of F/OSS usability projects and initiatives and includes the results of the usability survey conducted. The survey covered questions on OpenOffice.org, Firefox and Linux.</p> <p>http://www.tossad.org/publications/f_oss_usability_report_part_a</p>	F/OSS developers, interface designers
D11	1 st F/OSS curriculum workshop report	<p>The report gathers information, reports discussions and elaborations on the F/OSS training needs and on existing courses and curricula, in order to provide a solid foundation for students in high school with grade 10-12 and university students (year 1-4).</p> <p>http://www.tossad.org/publications/1st_f_oss_curriculum_workshop_report</p>	F/OSS curriculum developers for K12s and universities
D12	Methodology, implementation report and tutorial to build a F/OSS lab	<p>This report discusses the methodology for building a F/OSS laboratory for different kinds of F/OSS curriculum and gives a step-by-step tutorial for the implementation of the proposed approaches.</p> <p>http://www.tossad.org/publications/methodology_implementation_report_and_tutorial_</p>	K12s and Universities

ID	Name	Short Summary	Target Audience
D15	Usability test results report	<p>to_build_a_f_oss_laboratory</p> <p>In this report partners have tested 28 subjects (the focus group) in order to analyse the usability issues of the open source office suite, OpenOffice.org 2.0. Our work has focused on interviewing and timing the test subjects as they complete a predefined given test schema. Analysis of the data has allowed a more complete picture of user interactions with the OpenOffice.org software suite to be presented.</p> <p>http://www.tossad.org/publications/f_oss_usability_test_results_report</p>	F/OSS developers, interface designers
D16	2 nd F/OSS Curriculum workshop report	<p>The Second Workshop of tOSSad on F/OSS Curriculum Development was held on 10 June 2006 in Como, Italy, in the context of the 2nd International Conference on Open Source Systems, OSS2006.</p> <p>The main objective of the tOSSad WP4 workshop at the OSS 2006 meeting was to revise, to integrate, and to plan further development of a vendor neutral F/OSS curriculum, designed to fit the needs of educational institutes and of firms using F/OSS at various levels.</p> <p>http://www.tossad.org/publications/2nd_f_oss_curriculum_workshop_report</p>	K12s and universities
D17	F/OSS Design for usability seminar report	<p>The tOSSad project has held the “F/OSS Usability Workshop” in CINECA, Italy on December 15, 2007. The theme of the workshop was “Empowering F/OSS applications with a usability focus: designing for a successful project”.</p> <p>http://www.tossad.org/publications/f_oss_usability_workshop_report_1</p>	F/OSS developers, interface designers
D18	Current status of F/OSS in the target countries report	<p>The main aim of this study was to give a clear picture of the current status of F/OSS in the partner countries, focusing on the the technical and social barriers and opportunities. The report also includes some success stories that provide pointers for overcoming the barriers.</p>	Public administration decision takers

ID	Name	Short Summary	Target Audience
		http://www.tossad.org/publications/current_status_of_f_oss	
D19	Usability guideline	<p>In this report, tOSSad partners try to answer the question “How can we achieve more usability within geographically distributed projects?”. We've first defined the basic characteristics of a F/OSS project and investigated the problems that slow down the usability process and F/OSS development.</p> <p>http://www.tossad.org/publications/usability_involvement_in_f_oss_projects</p>	F/OSS developers, interface designers
D20	F/OSS usability report, Part B	<p>In order to improve the state of F/OSS mobile applications, we need to identify the current problems. We have gathered three groups of data, in which we outline the problems, solutions to the problem and correlation of the problem to the target group. First, we correlate usability and F/OSS with mobile devices, then usability and mobile devices with F/OSS and finally F/OSS and mobile devices with usability.</p> <p>We conclude the report with requirements and best usability practices that should be followed in order to improve the quality of mobile applications. These requirements are complemented with an overview of the current state-of-the-art in combination with Web 2.0 and "push technology".</p> <p>http://www.tossad.org/publications/f_oss_usability_report_part_b</p>	F/OSS developers, interface designers
D22	F/OSS Curriculum	<p>This document reports on the tOSSad project's efforts towards the development of F/OSS Curricula suitable for delivery in a range of educational settings. The report discusses how to overcome shortage of workforce skilled in F/OSS and lack of components for basic knowledge on F/OSS in current curricula, and provides educational models for the study of F/OSS.</p> <p>http://www.tossad.org/publications/f_oss_curriculum_report</p>	K12s and universities

ID	Name	Short Summary	Target Audience
D23	A Guideline for F/OSS Adoption in Public Sector	<p>This report identifies roles public administrations can play in using and promoting F/OSS. It outlines several levels of adoption and a non-aggressive migration strategy for different platforms (server, desktop, etc.) and scenarios (health system, education, etc.).</p> <p>http://www.tossad.org/publications/a_guideline_for_f_oss_adoption_in_public_sector</p>	Public administration decision takers