Deliverable D2.1

Project Repository and Website

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Purpose of Document:	The OpenTox Deliverable Report WP2–D2.1 introduces OpenTox's repository and website (www.opentox.org) and describes the features offered by the site.

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	5 – Updated Version for new web site by Roman Affentranger, Feb 24, 2010

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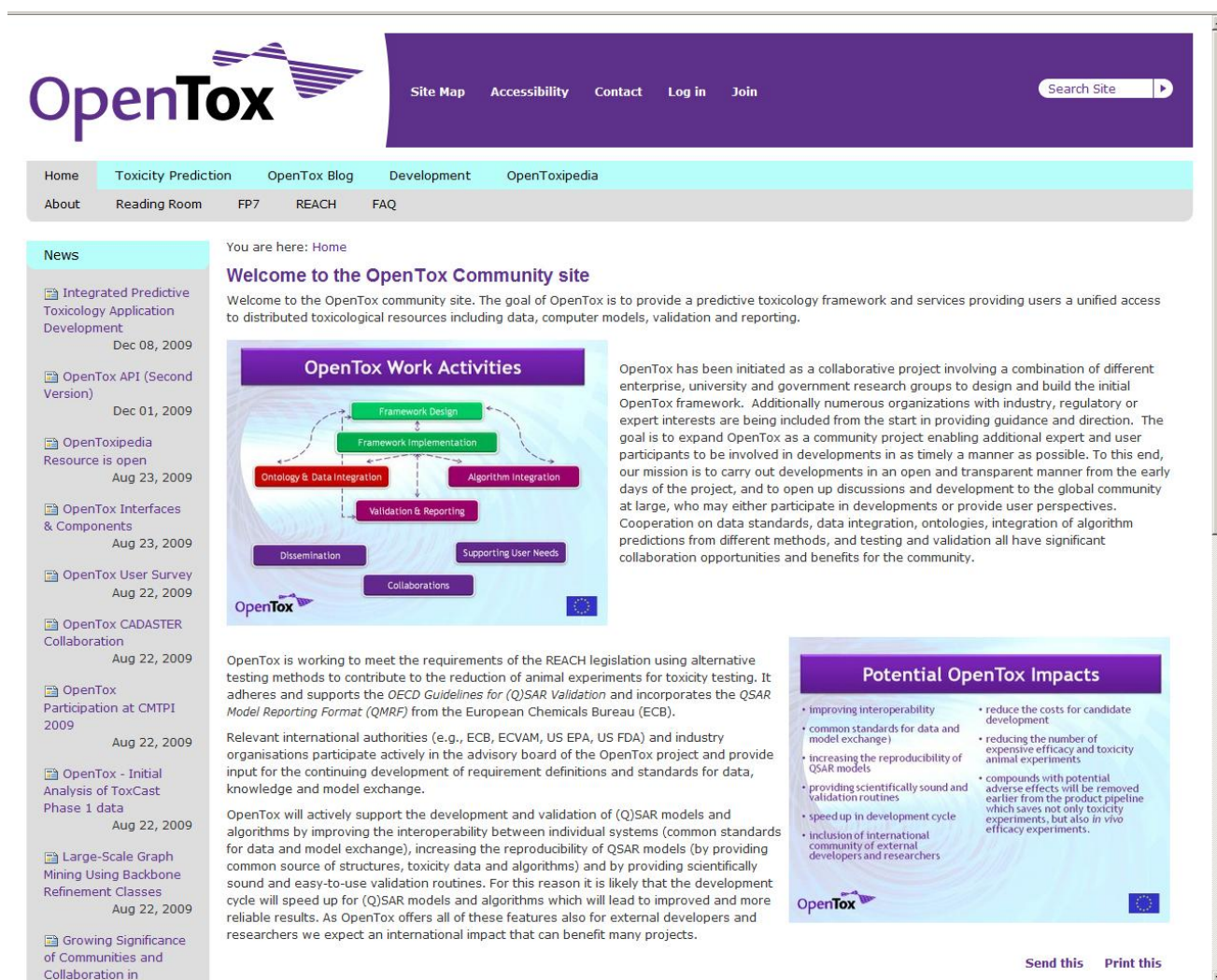
Summary

The OpenTox Deliverable Report WP2-D2.1 introduces OpenTox's repository and website (www.opentox.org) and describes the features offered by these services. The top level public areas of the OpenTox website are used to raise public awareness of the project activities and to provide news on OpenTox developments and applications. The "OpenTox Development" area of the OpenTox website is used to involve users, advisors and other developers in the OpenTox Community approach to development, and to disseminate the project's technical results. The OpenTox website is part of the overall communications system setup for supporting project activities and it is updated regularly. The website together with the mailing lists, document templates and agreed communication rules, as documented in the OpenTox Project Handbook, constitute the overall communication infrastructure of OpenTox.

1. Introduction

The OpenTox website has public sections that are read accessible by anyone with a web browser. The OpenTox Development area is also read and write accessible with a user name/password registration and registration approval. Various levels of access rights have been implemented. All services are accessed from www.opentox.org, the official website of the project. The following is a screenshot of the www.opentox.org home page:

Figure 1: OpenTox Home Page

2. OpenTox portal

The public sections of the OpenTox website are used to involve users, advisors and other developers in the OpenTox Community approach to development, and to disseminate the project's results.

A top level set of information, accessibility and dissemination-oriented pages provide a number of sections, e.g., Site Map (www.opentox.org/sitemap), Accessibility (www.opentox.org/accessibility-info), Contact (www.opentox.org/contact-info), Log in (www.opentox.org/login_form), Join (www.opentox.org/join_form), and News (www.opentox.org/news). Besides News, links to these pages are located in the title bar of the page and are accessible from any page under www.opentox.org.

The main content areas of the web site Toxicity Prediction (www.opentox.org/toxicity-prediction), OpenTox Blog (www.opentox.org/blog), Development (www.opentox.org/dev), and OpenToxipedia (www.opentox.org/opentoxipedia) are also on the site's top level. Links to these areas are placed in a menu bar below the title bar, and are directly accessible from any page under www.opentox.org.

2.1 Site Map

This area provides an overview of the structure of the available content on the website.

2.2 Accessibility

Accessibility options such as text size can be adjusted in this area.

2.3 Contact

Users can contact the site owners through a feedback form.

2.4 Log in

Account owners' log in area.

2.5 Join

This area provides a registration form for requesting an OpenTox account, including options for joining the OpenTox general interest and development mailing lists.

2.6 News

Latest news messages on OpenTox are displayed in this area.

2.7 Home

The Home area contains the additional information-oriented subsections About (www.opentox.org/home/about), Reading Room (www.opentox.org/home/documents), FP7 (www.opentox.org/home/fp7), REACH (www.opentox.org/home/reachlegislation), Mailinglist (www.opentox.org/home/mailinglist, for registered users only) and FAQ (www.opentox.org/home/faq).

2.7.1 About

Under About, the mission of the OpenTox framework is briefly described (with a link to an extended description at www.opentox.org/home/about/more).

2.7.2 Reading Room

The Reading Room provides access to OpenTox-related presentation materials, reports, and guidance documents.

2.7.3 FP7

The OpenTox framework FP7 research project is described on this page. Further, there are subsections listing the profiles of the OpenTox partners, the project collaborations, and the advisory board.

2.7.4 REACH

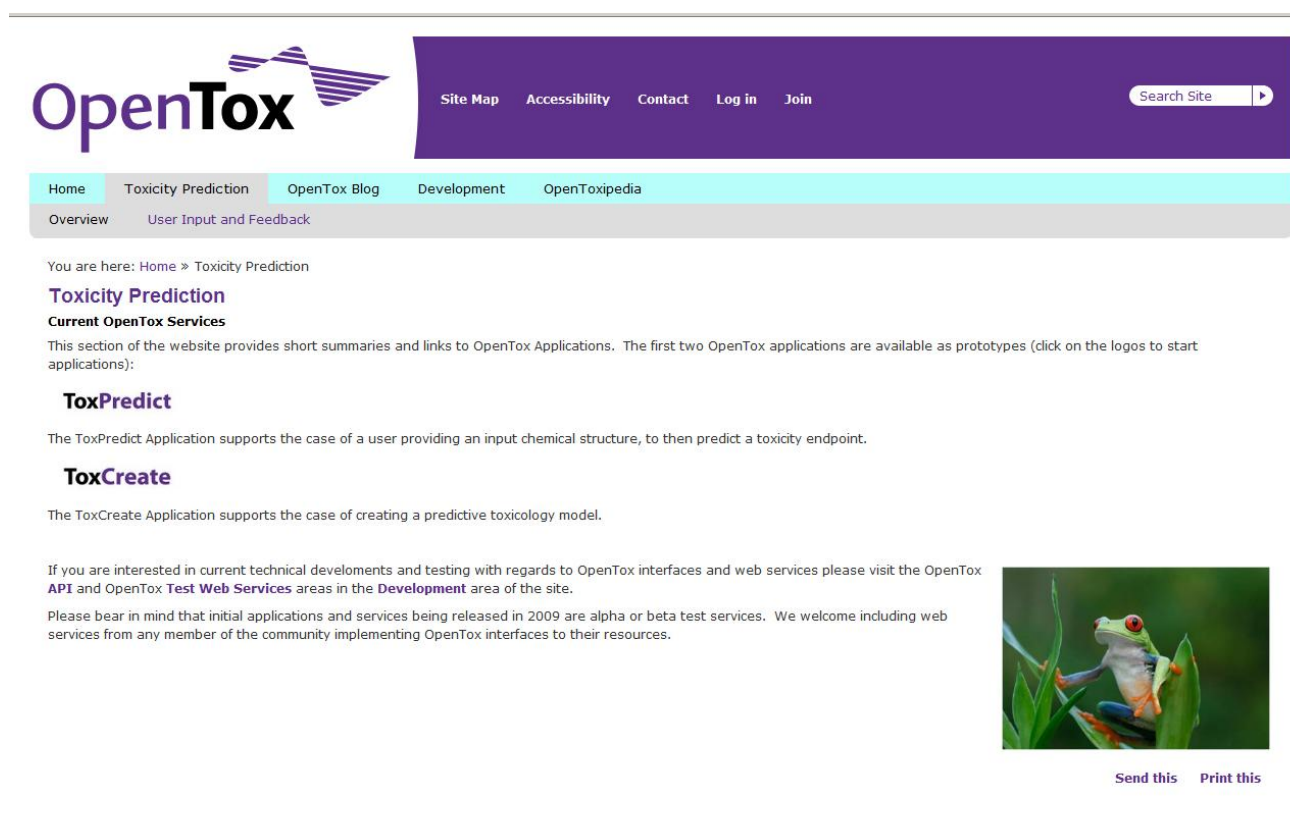This area provides information on the REACH legislation.

2.7.5 Mailing List

This page hosts the OpenTox General Interest mailing list and its searchable web archives (www.opentox.org/home/mailinglist)

2.7.6 FAQ

The FAQ page contains frequently asked questions on OpenTox and on using its website.

2.8 Toxicity Prediction

This section of the OpenTox website provides short summaries and links to OpenTox Applications, and a possibility for user input and feedback through a web survey. See Figure 2.
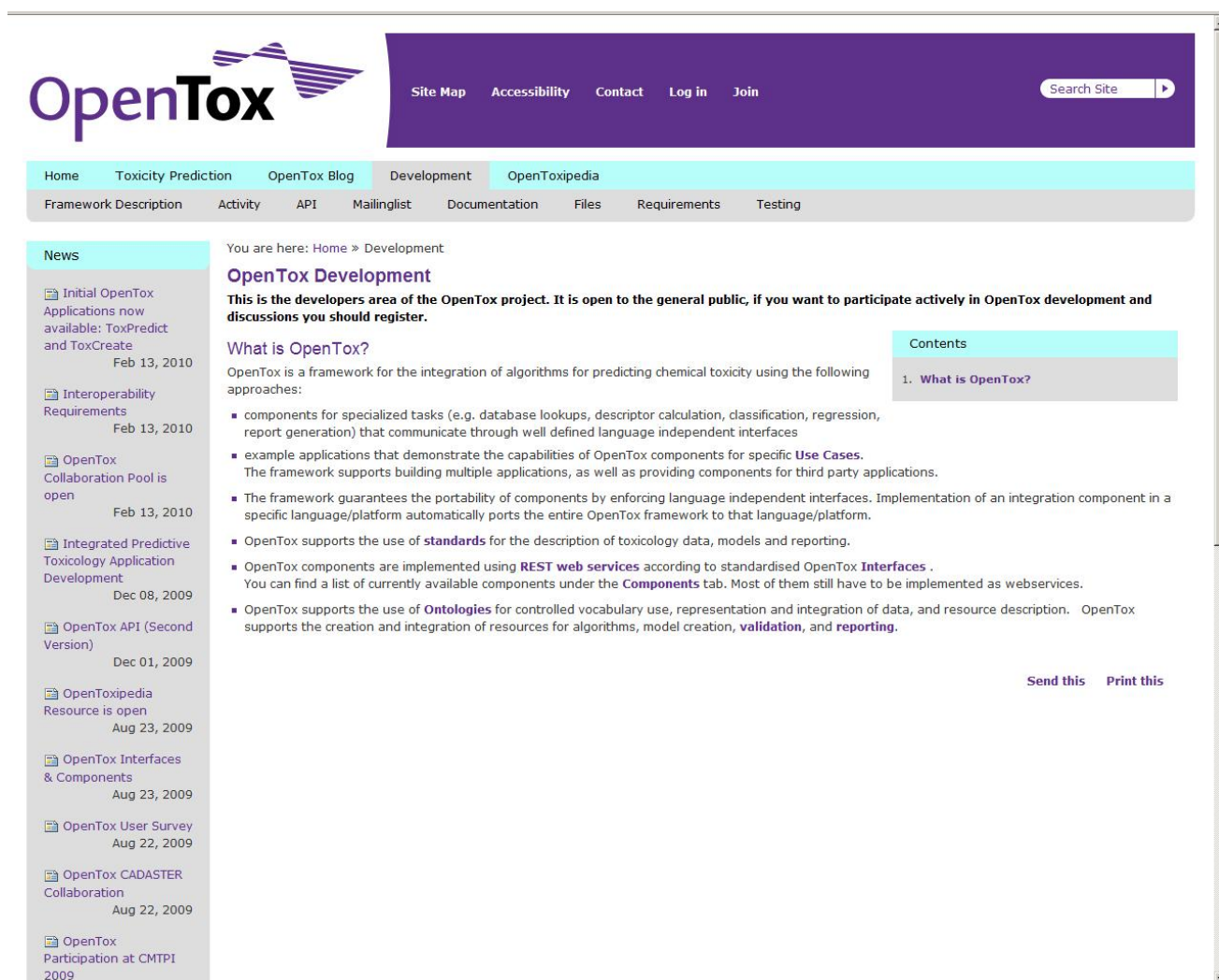

Figure 2: Toxicity Prediction Page

2.9   OpenTox Blog

The OpenTox Blog is a collective open blog for the community to post news, scientific developments and results, comments, opinions, insights, links and discussions related to computer-based predictive toxicology.

2.10 OpenTox Development

This area of the website is used by the OpenTox Development community for knowledge exchange, discussion, documentation of development, and development issues management. The portal entry page to the OpenTox Development community (www.opentox.org/dev, see Figure 3) provides a short description of OpenTox development activities, with internal links to different constituent OpenTox development areas.

The Development area contains the following subsections: Framework Description (www.opentox.org/dev/framework), Activity (www.opentox.org/dev/activity), API (www.opentox.org/dev/apis), Development Mailinglist (www.opentox.org/dev/mailinglist), Documentation (www.opentox.org/dev/documentation), Files (www.opentox.org/dev/documents), Requirements (www.opentox.org/dev/requirements), and Testing (www.opentox.org/dev/testing).

Figure 3: Portal of the OpenTox Developers' Area

2.10.1 Framework Description

This page (see Figure 4) describes in detail the OpenTox framework, with links to constituents (components, interfaces, and use cases), and with subsections for Algorithms, REST web services, Minimum Requirements, Data Resources, Reporting, Ontology, Standards, and Validation.

Figure 4: Framework Design page in the OpenTox Developers' Area

2.10.2 Activity

This area displays all recent changes made on OpenTox development pages including author, date and time of change or addition.

2.10.3 API

This area provides current specifications of OpenTox Application Programming Interfaces (APIs) and discussion and commenting mechanisms.

2.10.4 Mailinglist

Here, the developer's area provides access to an OpenTox Development specific mailing list, including a searchable web archive.

2.10.5 Documentation

This area provides documentation for the individual constituents of the OpenTox framework. As of now, descriptions of current OpenTox components are described.

2.10.6 Files

In the Files area, documents relating to development (e.g., framework design, validation and XML schema) are provided.

2.10.7 Requirements

This section provides information about the different requirements of OpenTox users. Once finalised and peer-reviewed, OpenTox Use Cases are published in this area.

2.10.8 Testing

This section describes the procedures followed in the testing of OpenTox services and provides details on application cases currently undergoing development and testing, as well as summaries on current test cases.

2.11 OpenToxipedia

The OpenToxipedia area (see Figure 5) provides a community-based Vocabulary Resource of toxicology terminology. Registered users can provide entries, suggested definitions edits or add information to entries in the resource. The entries in OpenToxipedia can be browsed alphabetically or by categories. The latest entries are directly accessible through the "Latest Entries" page.

User guidance for adding or editing terms as well as for existing and proposed categories is provided in the OpenToxipedia area (www.opentox.org/opentoxipedia/guidance), together with useful reference resources (www.opentox.org/opentoxipedia/guidance/referenceresources).
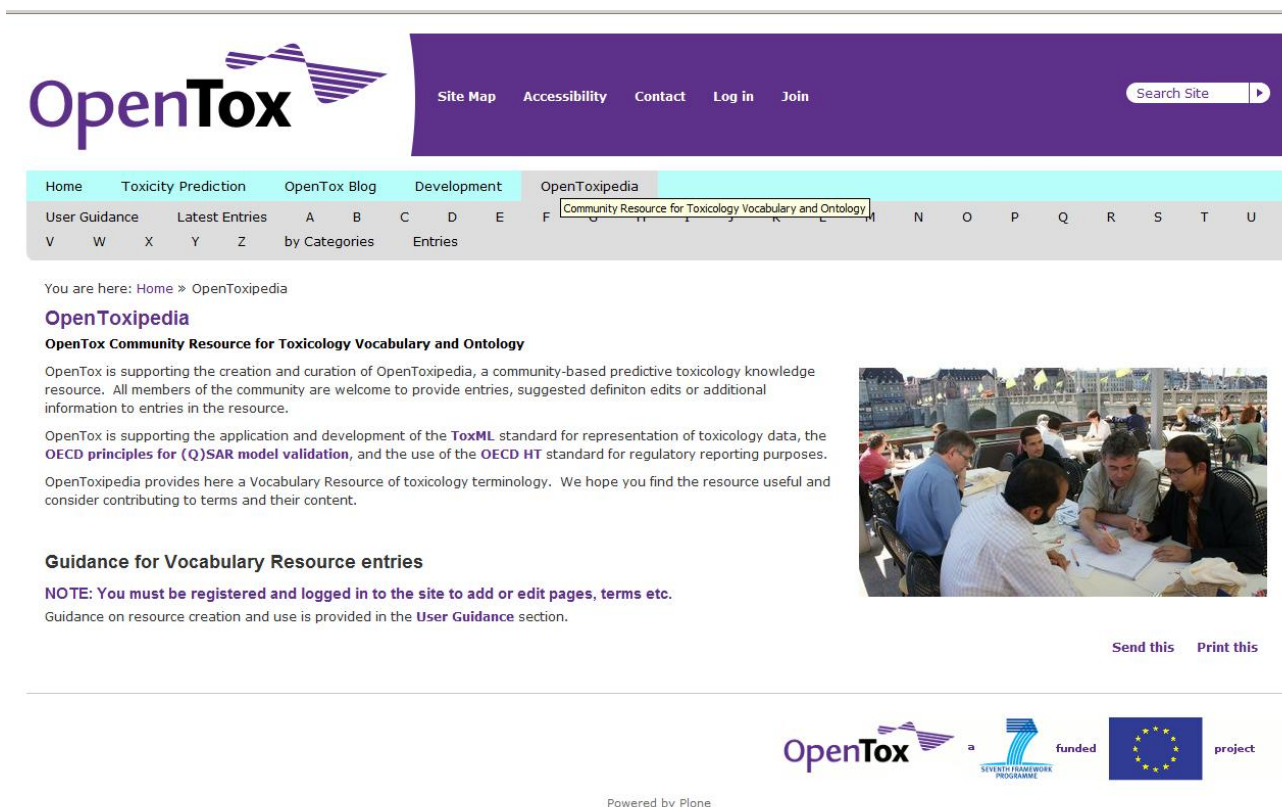

Figure 5: OpenTox OpenToxipedia page.

3. Domains

The DNS domains opentox.org and opentox.net were secured for the OpenTox project, and are currently used to serve the web pages.

4. Server

A DS 3000 CE server has been setup with hosting centre Hetzner Online AG with an IP address used for serving opentox.org and opentox.net of 88.198.47.76 The Linux operating system chosen was Debian 4.0 minimal 32.

5. Mailing Lists

The following public OpenTox mailing lists serving as news and discussion forums are established:

1) Development@OpenTox.org. This list is for communications on technical development aspects of OpenTox, and includes all members of the OpenTox Developer community including partners and external developers. The subject heading of emails to this list commences with [OTDev].

2) Interest@OpenTox.org is a general mailing list providing a signup mechanism for people interested in receiving news and announcements with regards to OpenTox and other developments in the area of predictive toxicology. List members may submit content for consideration for inclusion in a periodic newsletter digest.

Mailing lists have a searchable web archive accessible through the equivalent areas of the website.

6. Conclusions

The first stage of establishing web resources for support of the OpenTox project has been completed with the setup of a server, website, project management infrastructure and mailing lists.