

# Florida Department of Transportation State Safety Office (SSO): Florida Traffic Safety Portal Enterprise 24x7 Inc. Project Summary

## Overview

The [Florida Traffic Safety Portal](#) was designed to serve as a gateway to accessing pertinent traffic safety data, information, and tools relevant for the Florida traffic safety community. The portal includes both public and restricted areas. The public areas are accessible to the general public and serve as a public information portal. The restricted areas are password-protected and will provide access to authorized users only to application and information used by the State, District, County and Local Safety Engineers.

The ten main web pages are accessible via a standard menu panel displayed on the left side of the screen. If a main page contains multiple subpages, the links to the subpages will be listed on the main page and a brief description will be provided to introduce each subpage. Clicking on a subpage link will open a new page. Each subpage may further include multiple subpages. The user may click the Back button of the browser to return to the previous page or click on the main menu to return to the main page. Wherever applicable, buttons are provided on a floating panel so that they are easily reachable by the user within the current screen view.

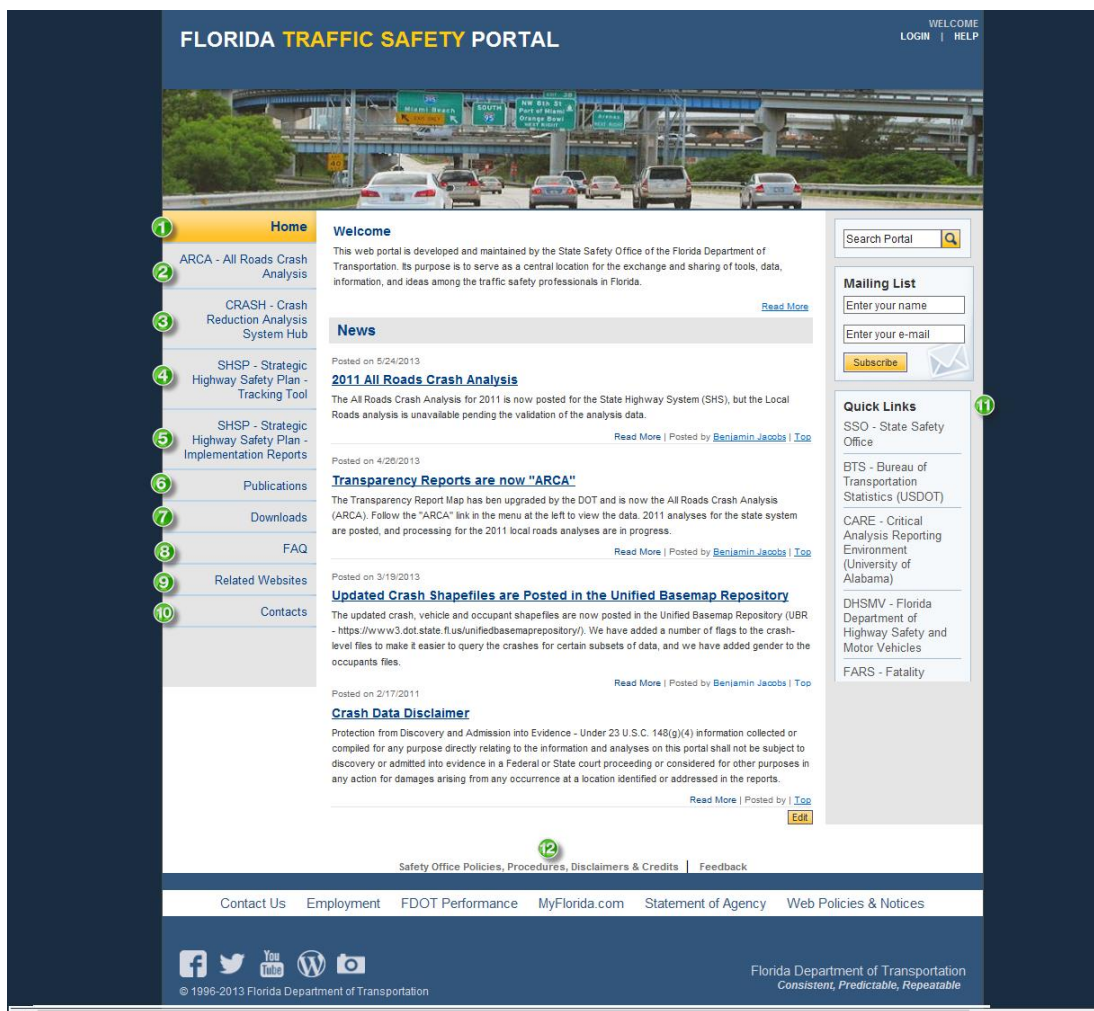


Figure 1 Florida Traffic Safety Portal

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## System Components

**Homepage:** The Homepage is the first page loaded. It provides the following four functionalities as shown in Figure 2:

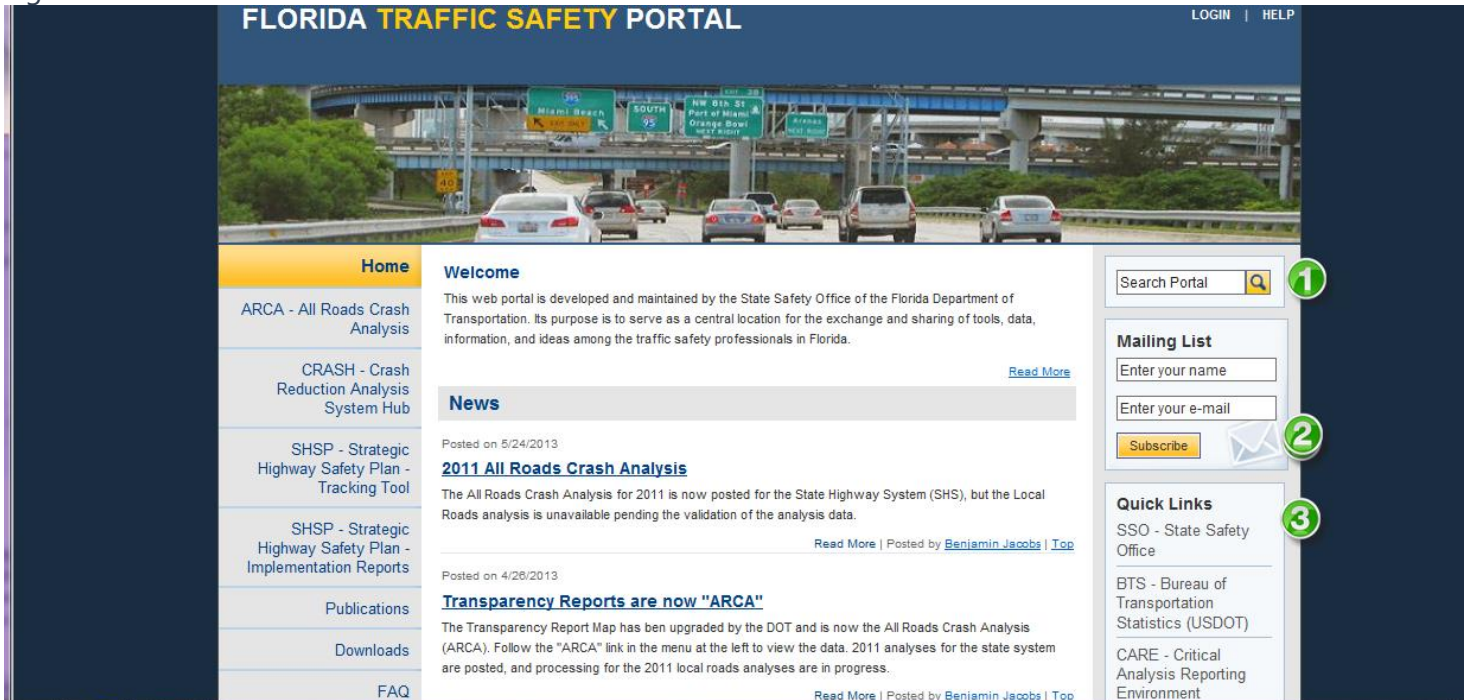


Figure 2 Homepage

- **Search:** Allows the user to search the Safety Portal using key words.
- **Mailing List subscription:** After entering his/her name and email address in the right-hand fields and clicking Subscribe, the user will receive an email confirmation. The user will then be added to the mailing list and become a subscriber only after he/she clicks on a link provided in the confirmation email.
- **Accessing Quick Links:** Provides all users with a list of Traffic Safety related Quick Links located in the right-hand column, to the most relevant safety websites and information.
- **Posting news and events:** Allows authorized FDOT-SSO users to post news and events to the home page and update prior postings.
  - A number of the web pages are designed to allow authorized users to add new entries (i.e. postings) to a page. To access this feature, click Edit. Once access is granted, the authorized user may Edit, Delete or Add a New Post, as shown in Figure 3.



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Title	Posted by	First Posted	Last Modified	Edit	Delete
Welcome to the Florida Traffic Safety Portal	Joseph Santos	1/23/2009	9/25/2009	Edit	Delete
Welcome!	Joseph Santos	9/11/2009	9/28/2009	Edit	Delete

**Figure 3 Post Management Screen**

- The name and email of the user (i.e., poster) along with the posting date and time will be displayed together with each post. After clicking Add a New Post, the screen for composing a new post is shown (see below). Click Post to confirm and Cancel or Back to return to the previous page. To edit a post, select Edit to display a similar screen which allows changes to be made to a previous post. The user may then click Save to confirm these changes. Users may only edit posts which they have authored.
- The user can also choose to automatically notify subscribers on the mailing list. Subscribers who receive an email notification are then able to click on a link embedded in the notification email to view the new posting. Subscribers may choose to unsubscribe from the mailing list by clicking on a link in the notification email.

**Enterprise 24x7 Inc. was contracted to create a project to manage and complete the following tasks:**

- Migrate the original Portal developed by the Florida International University (FIU) into the FDOT Intranet and Internet sites, adhering to the DOT-IT Standards for the Web-Application development, and modify the FIU code as required by the formal and informal .NET Code review, Form 508 review, Web-Application review, database review and SQL/PLSQL review. The University which originally developed the application, failed several attempts to migrate the application due to incompatibility of the Application code with the DOT requests.
- Coordinate with FDOT Rapid Technology Support (RTS), Business Systems Support Office (BSSO) and other assigned web developers to complete the final web portal migration into production.
  - Review the Web Portal Code and the review notes.
  - Participate with RTS and other assigned web developers to complete the outstanding efforts raised during User Acceptance Testing (UAT) for the Web Portal

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- Revise, as needed, all the necessary scripts to create/modify the Application objects
- Participate in the final data migration for the implementation of the web portal
- Conduct UNIT and SYSTEM testing. Address issues noted during the UNIT and SYSTEM testing. Address issues noted during the UAT testing.
- Assist in the migration into PRODUCTION.
- Attend any required OIS migration meetings/correspondence/interactions,
- Draft migration package for final PRODUCTION transfer.
- Revise, as needed, the final migration documentation.
- Revise, as needed, all the necessary scripts to create/modify the database objects
- Provide support during PRODUCTION Migration
- Final production verification
- Develop further enhancements, updates and fixes to the Portal as determined by the SSO
- Added new application: ARCA to the application
- Upgraded the GIS interface (ArcIMS)
- Created new ArcGIS interface and application (SSOGis) leveraging the agency map tool

#### E24X7INC Services

The **Senior Web Applications Developer (AD)** developed, maintained, and supported applications for the organization's Internet/Intranet sites. The AD gathered and analyzed the web portal requirements and the FDOT IT standards. The AD programmed all of project scoped components of Web portal and the SSOgis outerframe. The AD documented components and the developed applications. The AD developed automation techniques to enable end-user content publishing; programed, tested and implemented mapped graphic images, forms in HTML, .NET pages. The AD handled client browser support inquiries; maintained links to external sites and accuracy on internal links while ensuring up-to-date information. The AD researched, evaluated and recommended newer Internet tools and components for use in assigned development responsibilities. The senior level Web Applications Developer had experience in a variety of the more challenging Web tools and languages and was responsible for coordinating with the three groups involved in the final tasks required to deploy the web CRASH application to Production. The AD worked with RTS & BSSO assigned web developers to implement desired enhancements for web portal and the map interface as identified by the project sponsor and responded to issues identified during UAT and post-production issues.

The Expert Business Analyst (**BA**) served as a liaison between the business community and the IT organization to provide technical solutions that met the user stated needs. The BA possessed expertise in the business unit(s) supported, as well as, an understanding of the IT organization's systems and capabilities. The BA analyzed the FIU application and database code to understand their strengths and weaknesses to determine opportunities to streamline processes and functions during the re-engineering to Oracle and .NET. The BA assisted in the business process redesign and documentation as needed to move to the new technology. The BA translated high level business requirements into functional specifications for the IT organization and

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managed approved changes to such specifications. The BA negotiated design agreements and commitments by facilitating communication between business units and IT governance teams from initial requirements to final implementation. The BA possessed an understanding of technological trends and used this knowledge to bring solutions to business units to enhance and streamline their internal processes. The solution was aligned with business and IT strategies of the Agency and comply with the organization's architectural standards. The BA was involved in the full life cycle of the application development, testing and implementation.

The **Project Manager (PM)** was responsible for overall coordination, status reporting and stability of the complex and cross-functional project-oriented work efforts. The PM managed multiple FDOT-SSO projects simultaneously, including the Florida Traffic Safety Portal. The PM established and implemented project management processes and methodologies for the FDOT-SSO to ensure the projects were delivered on time, within budget, adhered to high quality standards and met customer expectations. The PM was responsible for tracking key project milestones and adjusting project plans and/or resources to meet the needs of customers. The PM partnered with senior management of the FDOT-SSO to identify and prioritize opportunities for utilizing IT to achieve the goals of the section. The PM possessed extensive knowledge and expertise in the use of Project Management methodologies and tools and understood human resources policies and practices as well as change management techniques. The PM was a liaison between the Technical team, the client and the company. This individual created a Statement of Work and a Project Plan for each project, defined project deliverables, identified project risks, reviewed monthly billings versus worked hours, verified time-sheet versus assigned tasks, created and updated spread-sheet with billings to date, remaining amount, and remaining hours. The PM ensured the project operated within the budget and communicated with the client and the team regarding delays, risks and issues as quickly as possible.

### Technologies Leveraged

- .NET
- Java
- ArcIMS
- SilverLight
- MSAccess
- Oracle Database
- Source Safe
- ArcGIS
- SharePoint
- NavTeq
- C#
- SQL/PLSQL
- VB
- MSProject
- SharePoint