

Project Screening Tool (PST)



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Background

- To better integrate NEPA into the Transportation Decision-making, SCDOT has started preparing an Advanced Project Planning Report (APPR) for most projects.
- SCDOT's Office of Planning and Environmental, in cooperation with various resource agencies and the FHWA, prepares the APPR.
- The APPR assists with:
 - ➤ Providing MPOs and COGs information for determining a project's benefit and its impact to the human and natural environment.
 - Aids the SCDOT's Regional Production Groups (RPG) with identifying human and environmental issues of concern at preconstruction level.
 - Provide cost estimates.





PST Application Drivers

- Improve the APPR Process by allowing project input via internet
- Provide easy access to GIS data
- Allow uploads and downloads of project files
- Allow comments from agencies and public
- Share customized analysis with other users via online database
- Show project impacts on map
- Improve communication tool during transportation planning





Development

- To improve the (APPR) process Project Screening Tool (PST) was developed.
 - Web based tool.
 - Allows project comments to be added through the website.
 - Incorporates GIS data (provided by resource agencies) to aid in identifying impacts to a project.
 - Maps can be redlined in order to add or document comments.
- Impacts assigned to four categories (with maps):
 - Natural Resources
 - Environmental/DHEC Resources
 - Cultural Resources
 - and Socioeconomic/Other Resources





Development

- GIS data organized and assigned to each category.
- User selects one or all of the categories of interest to view the features on the map.
- PST allows non-GIS users to use spatial data easily.
- Additional Improvements with future phases.





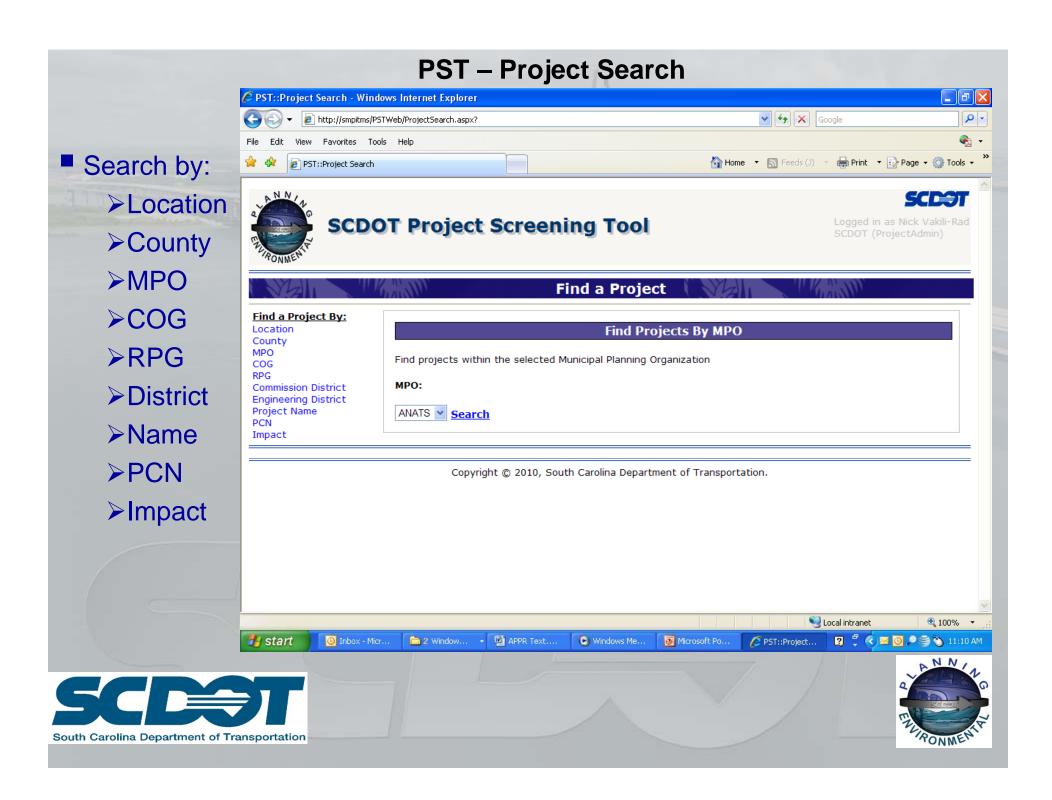


- Credentialed login
- Provides:
 - ➤ Base map
 - > Project search
 - ➤ Project review
 - ➤ Project files
- Outside agencies can search and comment

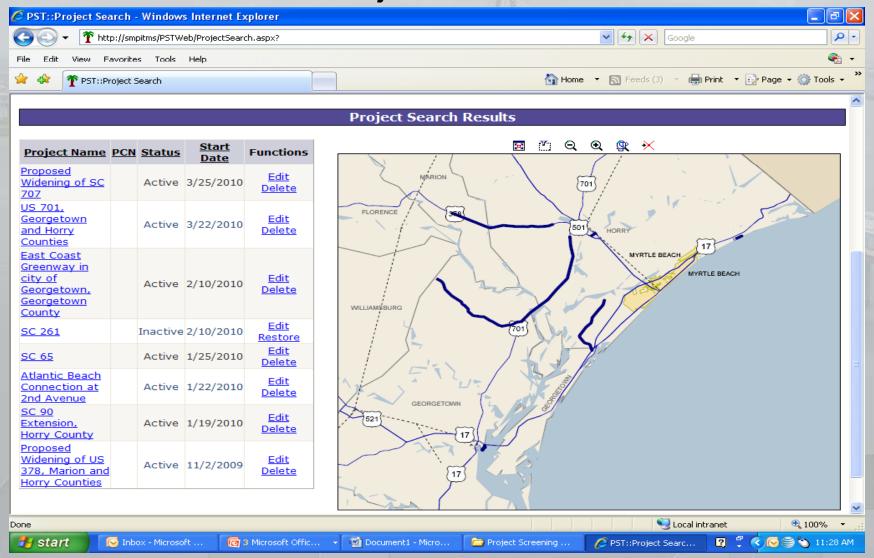








PST – Project Search Results







PST – Project Data

- Provides:
- >General details
- **≻**Description
- ➤ Purpose & Need
- **≻**Milestones
- ➤ Impact summary
- ➤ Link to project file
- > Alternatives
- ➤ Projected AADT
- >Functional Class
- ➤ Study Area

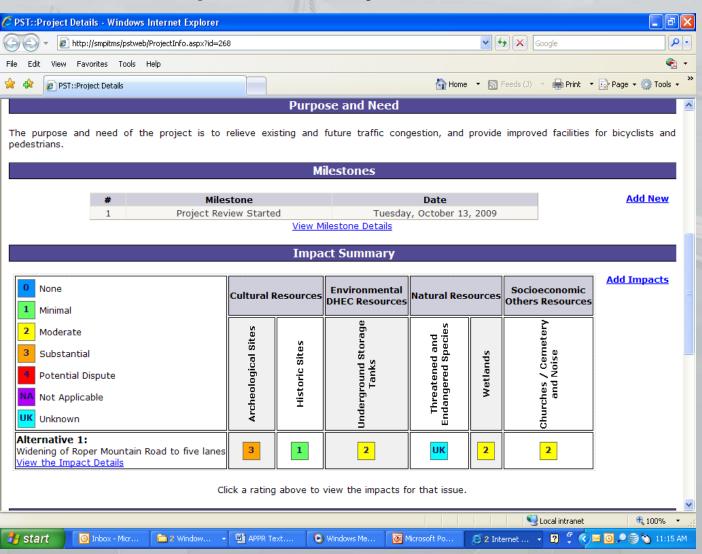






PST – Impact Summary

- Assign impact rating for:
 - ➤ Community/
 Socioeconomic
 - **≻**Cultural
 - > Environmental
 - ➤ Natural Resources

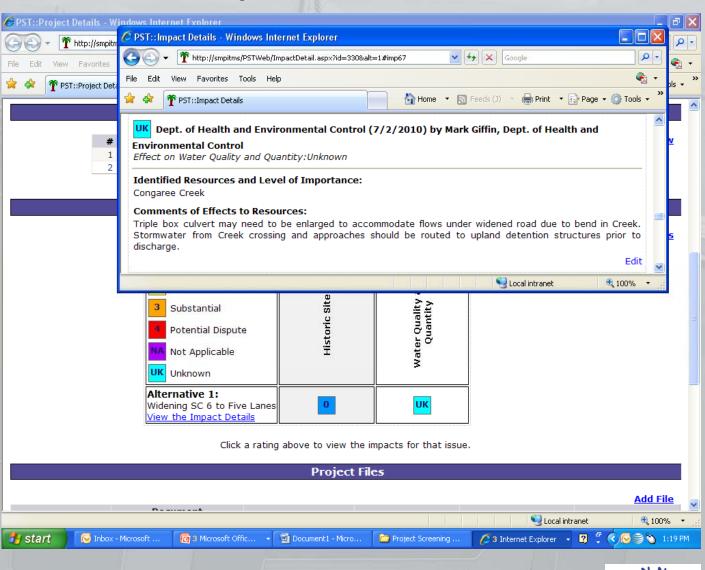






PST – Impact Details

Review of ProjectComments

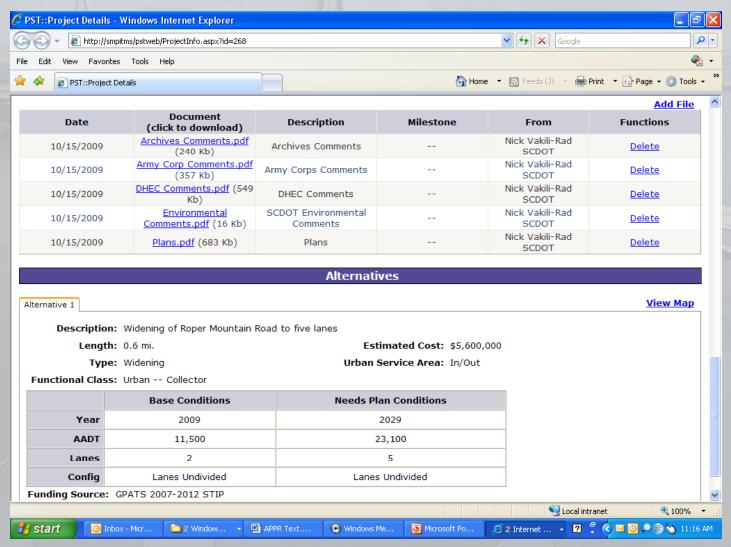






PST – Project Files and AADT Projections

Ability to upload and download project files

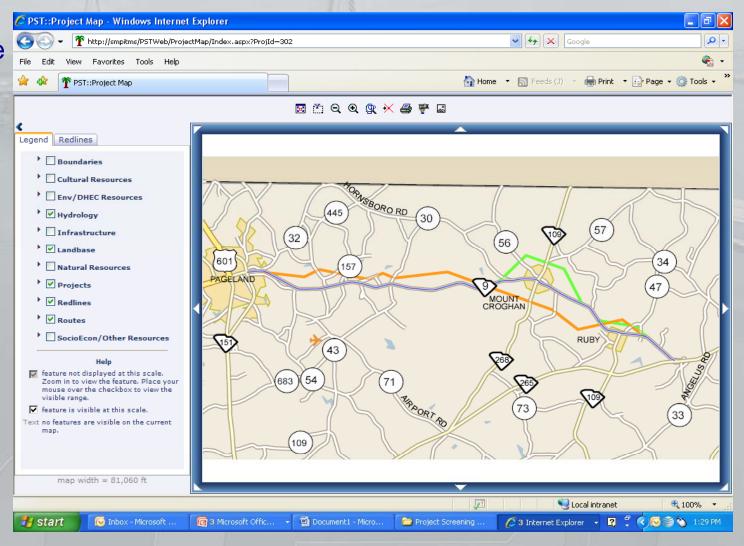






PST – Evaluating Alternatives

- Ability to create& evaluatealternatives
- View map of alternative

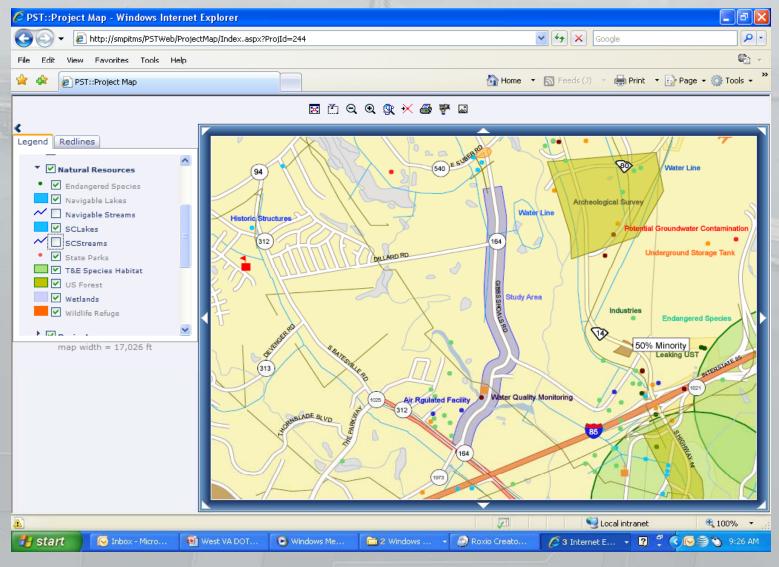






PST – Location of Resources

Identifying Impacts at planning stage

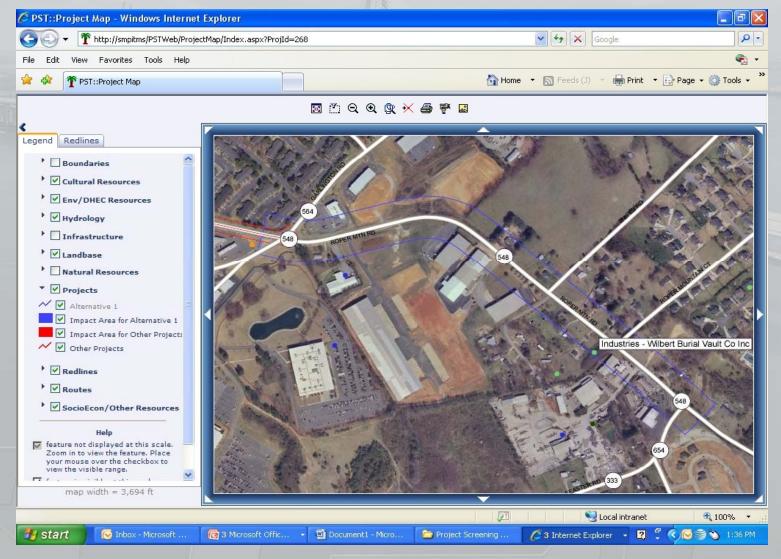






PST - Aerials

Resources or Impacts within the study area from Aerial Photos

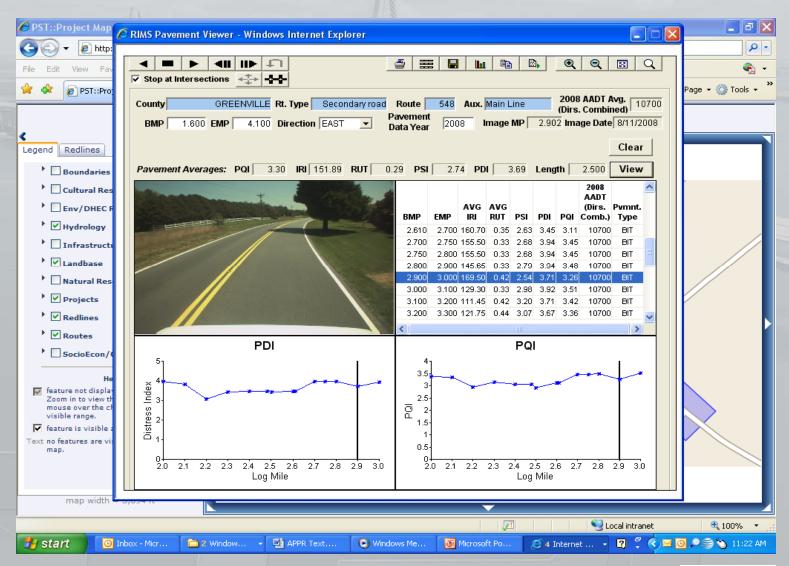






PST – Pavement Data

EvaluatingExistingPavementConditions







Summary

The PST provides SCDOT the following benefits:

- Enhances the level of detail during the planning process for Project Development.
- Provides the Preconstruction unit with useful information to expedite project development.
- ldentifies "show stoppers" early on during the planning phase to reduce delay and save money.
- ➤ Creates a tool to engage Resource and Federal agencies early on in the planning process.
- Provides a GIS application for non-technical staff.
- ➤ Enhances the STIP process by providing a pre NEPA screening prior to obligating Federal funds.





