New Jersey Department of Transportation e-STIP
(Electronic Statewide Transportation Improvement Program)

Overview

NJDOT’s e-STIP is Internet-based software that implements electronic submission, processing and approval of New Jersey’s State Transportation Improvement Program (STIP). It is designed to streamline STIP development and the processing of amendments and modifications. The STIP contains transportation projects advanced by three New Jersey Metropolitan Planning Organizations (MPOs), and New Jersey Transit. e-STIP is a collaborative tool that allows planners from MPOs and DOT to initiate online requests for changes, and to upload all project related financial information and correspondence. Electronic submission expedites FHWA and FTA’s review time and reduces errors. It also allows for tracking the real-time status of each STIP request.

Money is saved by elimination of paper transactions and mailing costs.

Improved staff productivity across the DOT and MPOs – reduced time for tracking down status of the project.

Improved process efficiency through automatic email notification to the subsequent reviewer whose action is required on a request.

Shared database enables staff to electronically store and retrieve project-related data, documents and correspondence in a central location.

Reduced data redundancy, input errors, and more complete documentation through a streamlined data entry and exchange processes.

Greater accuracy in the project information exchange among the agencies through a shared STIP database.

Integrates DOT’s planning, capital programming and construction staging functions and related software.

Integrates the STIP with the financial and budgeting data sources so that the list of obligated projects is readily available to the MPOs.

Eliminated the need and the costs associated with software compatibility updates and upgrades at the MPOs and NJDOT. The application is installed on a web server and all the users need is an internet browser.

SOFTWARE REQUIREMENTS:
- Java
- Sun One Application Server
- Oracle 9i/10g
- Crystal Reports
- ArcGIS Server

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VENDORS:
NJDOT and NJIT. The e-STIP is an integral part of the TELUS. TELUS is a FHWA market-ready technology and innovation. http://www.fhwa.dot.gov/research/deployment/telus.cfm

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e-STIP Benefits

- Money is saved by elimination of paper transactions and mailing costs.
- Improved staff productivity across the DOT and MPOs – reduced time for tracking down status of the project.
- Improved process efficiency through automatic email notification to the subsequent reviewer whose action is required on a request.
- Shared database enables staff to electronically store and retrieve project-related data, documents and correspondence in a central location.
- Reduced data redundancy, input errors, and more complete documentation through a streamlined data entry and exchange processes.
- Greater accuracy in the project information exchange among the agencies through a shared STIP database.
- Integrates DOT’s planning, capital programming and construction staging functions and related software.
- Integrates the STIP with the financial and budgeting data sources so that the list of obligated projects is readily available to the MPOs.
- Eliminated the need and the costs associated with software compatibility updates and upgrades at the MPOs and NJDOT. The application is installed on a web server and all the users need is an internet browser.
APPROVALS, AMENDMENTS, MODIFICATIONS, RECALLS

For the federally-approved STIP, e-STIP allows MPOs to request amendments (e.g., new project) and modifications (e.g., modification of funding source, amount, or phase, changes in project description, etc.) via an electronic submission request. All necessary financial and technical information including a fiscal constraint chart pertinent to the request is attached in electronic format. Pending STIP amendment and modification requests can also be recalled to make any necessary changes or edits before sending them back in queue for review and approval. Authorized NJDOT and FHWA/FTA staff can then log in to the system online to review and process (approve or disapprove) STIP amendments and modifications with an electronic signature and date stamp.

PUBLIC PARTICIPATION

The public can query projects via several search tools and review the location and status of each project including the authorization data.

TRACKING

Provides for a full historical account of all actions taken by MPOs, NJDOT, and FHWA/FTA on each STIP project during the Submission, Approval, and Amendment/Modification phase.

REPORTS

Creates on-demand real-time pre-formatted professional looking STIP reports in PDF and MS Word formats. The reports can be for individual projects or custom selected group of projects and up to the whole STIP report. Reports can be readily e-mailed or posted on the web page. For amendments, it produces concise Before and After Project Revision Sheets and the reason for modification is clearly stated on a separate page.

VISUALIZATION

Displays interactive (pop-up) geographical map for viewing of STIP projects. The projects can be queried and selected on screen with a link to the detail project review information.

OBLIGATION

e-STIP allows DOT Project Managers to request FHWA’s approval for their projects. FHWA approves the project and obligates the funding. The obligated amount and the date are shown with the remaining funding balance. This yields a list of obligated projects.

FHWA REVIEW AND APPROVAL

Enables FHWA planners/engineers to review, comment, and approve the complete request online.

BUILD STIP

Enables the DOT to upload projects electronically, allocate funding from various state and federal sources to projects and submit them for final approval by the MPO Boards, NJ Assembly and the FHWA/FTA. e-STIP serves as a centralized repository of STIP project related information.

INSTANT STIP ACCESS

Enables state planners, elected officials and the general public to review up-to-the-minute status of the STIP at any time and from any internet-enabled personal computer.

PROJECT SUBMISSION

Easy, instantaneous and electronic online (paperless) submission of projects and related requests via authorized access to the shared system.

Sample STIP Report

Project tracking screen shows the name and date of each action taken on a request for modification or amendment.

Map Viewer screen shows the location of projects.