Pathways for Planning

A TRANSPORTATION PLANNING TOOL FOR THE COMMONWEALTH OF VIRGINIA

Pathways for Planning (P4P)

A map-app for data driven decisions where transportation professionals View, Edit, and Plan

Purpose

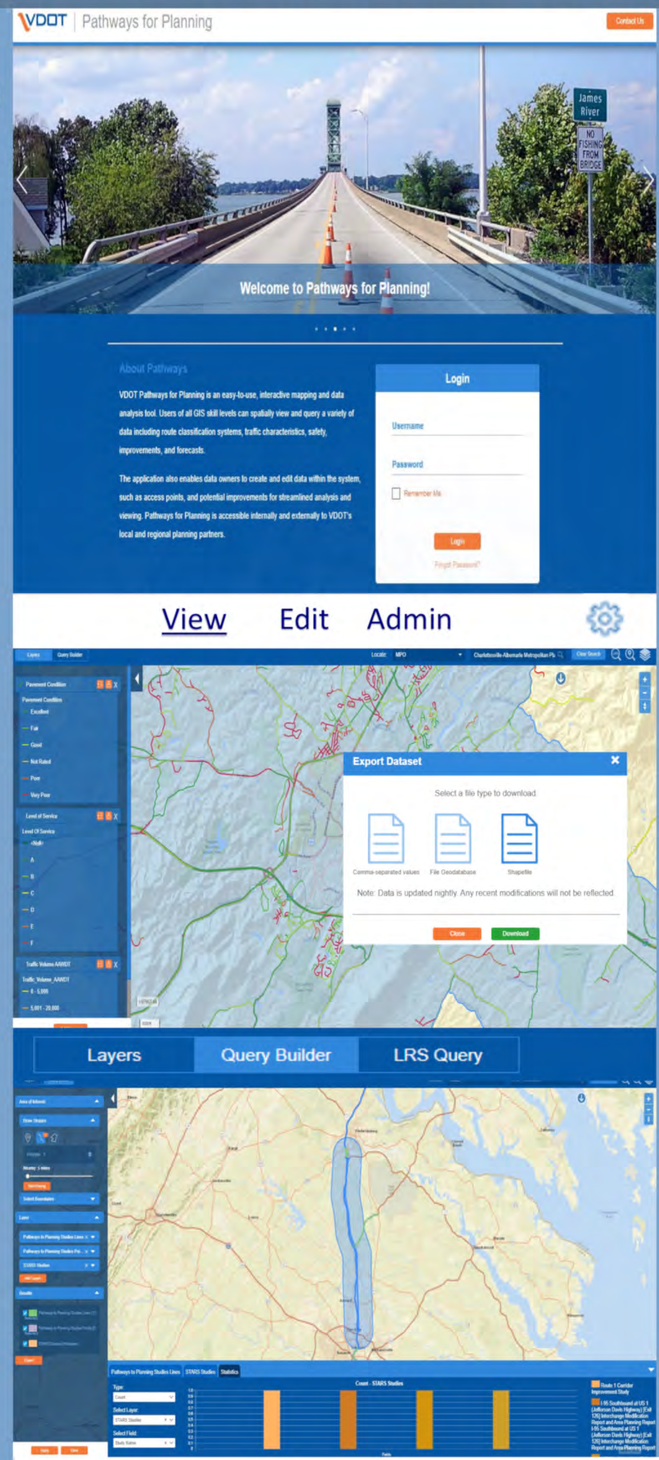
To provide an accessible, easy-to-use application for VDOT and VDOT's external planning partners including localities, PDC's, MPO's, universities, and consultants to view, manage, edit, and query transportation data in order to plan and make informed funding decisions.

View

- Visualize transportation data in an interactive map
- Legend provides visual explanation of symbols
- Ability to export data to CSV, File Geodatabase, or Shapefile

Query Builder

- Request information about the data
- Ability to query data layers
- Ability to query attribute data
- Visualize results in an interactive map
- Visualize results of attribute data
- Statistical graphing
- Export queries

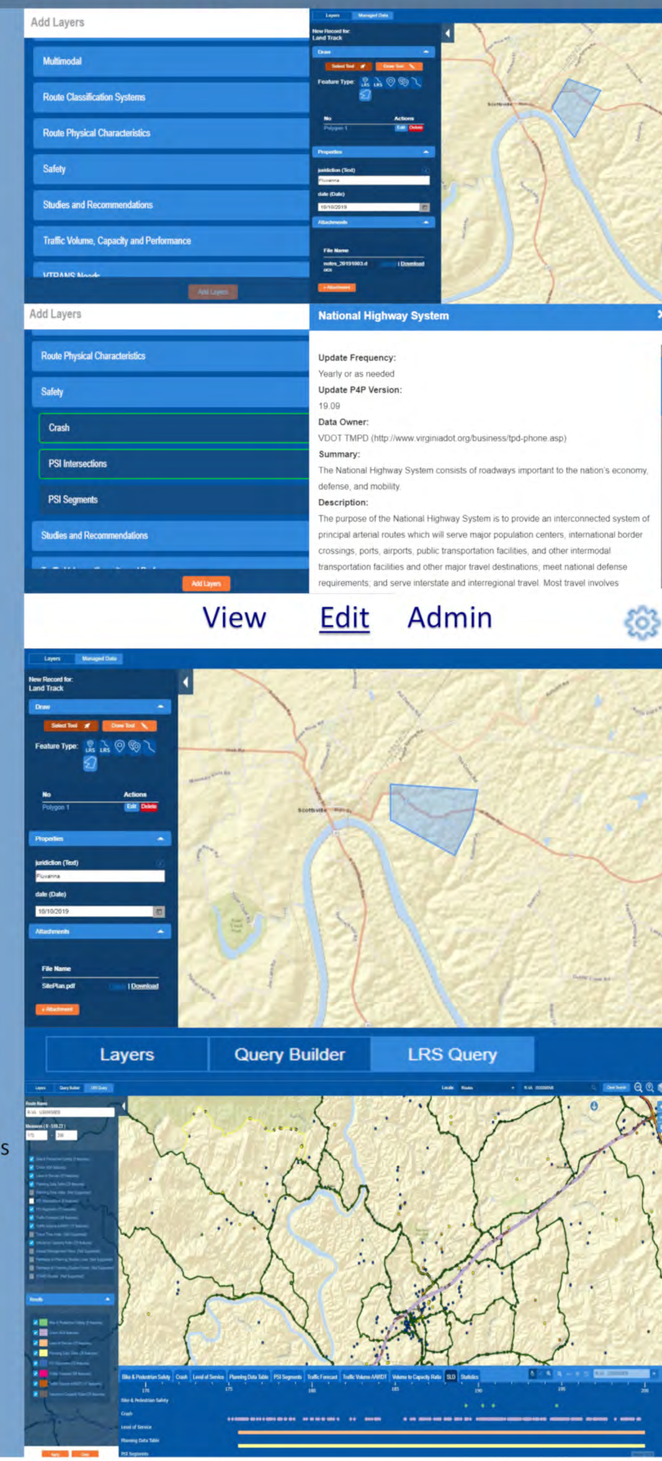


P4P Features

- Map based transportation planning data system
- Accessible to external VDOT business partners
- Permissions based accounts
- Spatial viewing
- Editable data
- Identify
- Spatial query
- **Linear Referencing System (LRS is feature data based on VDOT's roadway inventory)**
- Query builder
- Data export
- Application integration

Integrate

- **Contracts**: Project management for planning efforts
- **SMART SCALE:** Data driven approach to selecting transportation projects
- **SPS** (Statewide Planning System): Provides a variety of useful data to the planning process such as traffic forecasts
- **Entrada**: Interface for air and noise analysis
- **LUA** (Land Use Analysis): Information on land development activities



Types of Data

- Static Data
  - Data provided from within VDOT and external partners
  - Examples:
    - SMART SCALE
    - Crash
- Managed Data
  - Data created within the application to capture and maintain inventories of planning activities
  - Examples:
    - STARS Studies
    - Planning Studies
    - Arterial Preservation Program

Metadata

- Data about the data

Edit

- New feature data created using point, line, polygon, or LRS segment geometry through the user interface
- Ability to add attribute information
- Ability to add attachments

LRS Query

- Request information about data referenced to VDOT's roadway inventory
- Visualize results in an interactive map
- Visualize tabular results of the attribute data
- Graphically visualize the concentration of features through slide line diagram
- Export queries

Moving Forward

We will engage all planning partners to identify system enhancements that benefit transportation planning activities throughout the Commonwealth of Virginia. We plan to form a User Advisory and Steering Committee to guide application development. We plan to establish data governance to ensure data quality.

Virginia Department of Transportation
Transportation and Mobility Planning Division
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Transportation and Mobility Planning

https://vdotp4p.com