PROVIS

Interactive Future for West Virginia's Long-Range Transportation Projects

presented to

WVDOT/MPO/FHWA Planning Conference

presented by

Perry McCutcheon, West Virginia Department of Transportation

Kevin Howard, Cambridge Systematics

September 18, 2013

Agenda

- Background
- What is PROVIS?
- Functionality
- Demonstration
- Next Steps
- Q & A

Background

- WVDOT maintains approximately 92% of public roads in West Virginia – 34,509 centerline miles
- WVDOT and 8 West Virginia MPOs prepare separate Long-Range Transportation Plans (LRTP)
- The LRTPs describe projects in sufficient detail to enable the projects to be located geographically
- No formal process for coordinating and integrating projects identified in the LRTPs = time consuming

PROVIS - What is it?

- PROVIS – Interactive Transportation Program Vision
- Central repository for long-range West Virginia transportation projects
- Allows general users to view approved projects
- Allows authorized users (transportation planning staff at West Virginia DOT, TPA and MPOs) to inventory, track and analyze projects
- Provides forum to discuss potential projects

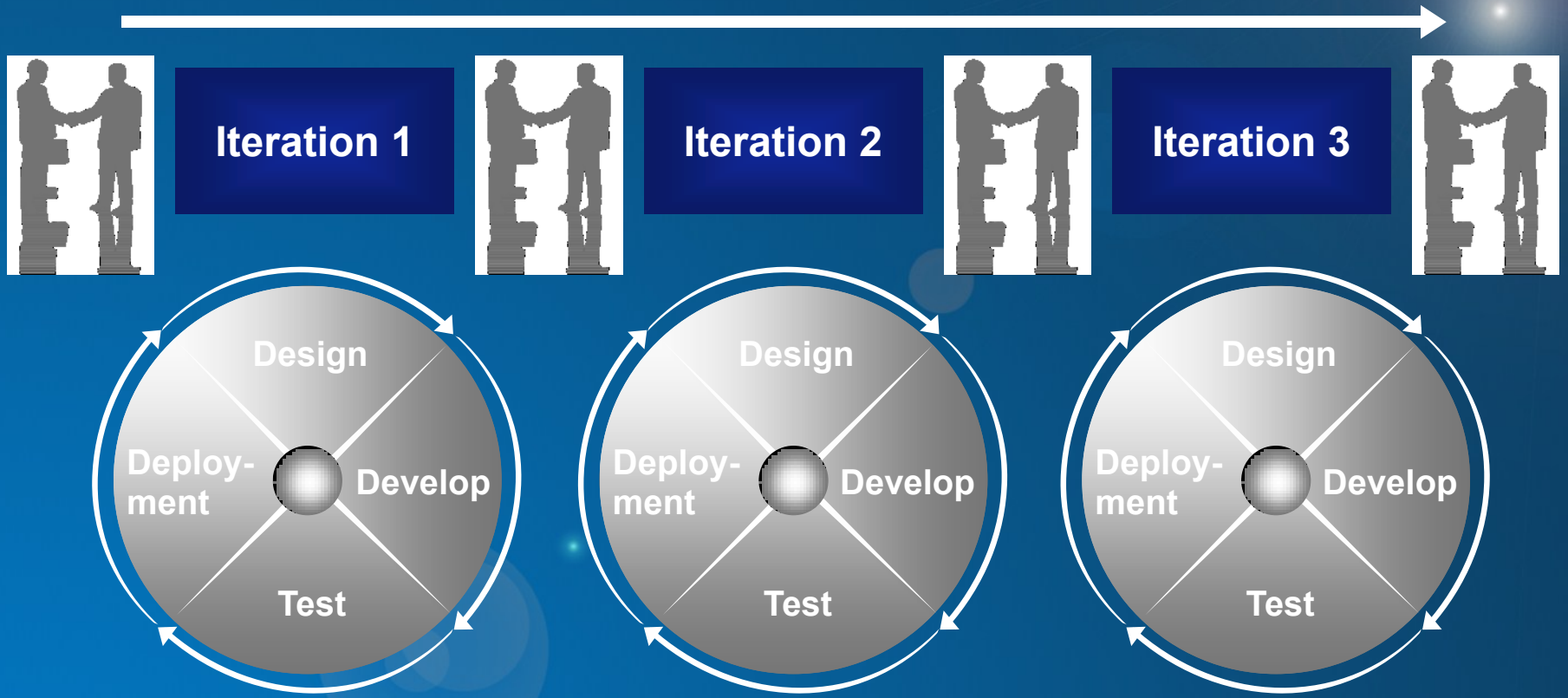
PROVIS - Application

- Web application accessible from desktop and tablets using modern web browsers
- Developed using latest development technologies – HTML5/ExtJS, C#
- Integrates with WVDOT's existing infrastructure – ArcGIS Server, SQL Server, Active Directory
- Will be hosted by West Virginia DOT

Development Approach

- Iterative and incremental process
- User-centered design
- Lightweight documentation
- Clearly defined project leadership roles
- Teamwork, collaboration & open communication
- Accountability at all levels

User-Centered, Iterative Development



Benefits – Transparency, flexibility, & managed risk

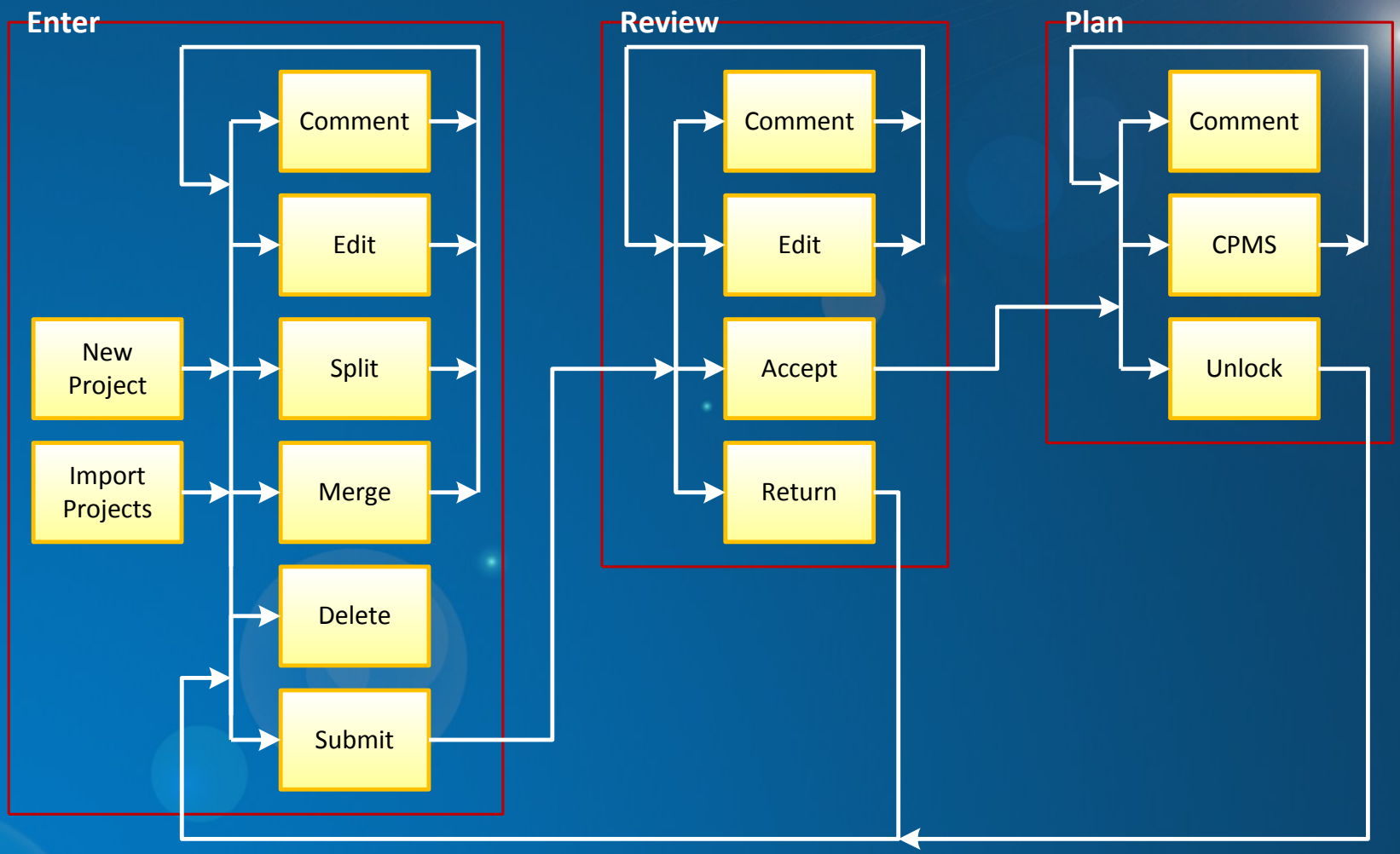
PROVIS – Base Functionality

- Allows all users to:
  - Perform map navigation
  - Overlay additional reference data on the data
  - Identify features on the map
  - Filter and display approved projects on a map and in a table
  - Access public documents associated with the projects

PROVIS – Advanced Functionality

- In addition to base functionality, authorized users can:
  - Filter and display all projects on a map and in a table
  - Display project details and history
  - Access all documents associated with the projects
  - Create, edit, delete, split and merge projects
  - Import projects created using other applications
  - Quality assure (QA) entered projects
  - Highlight and annotate areas interactively on the map
  - Generate reports from the project database

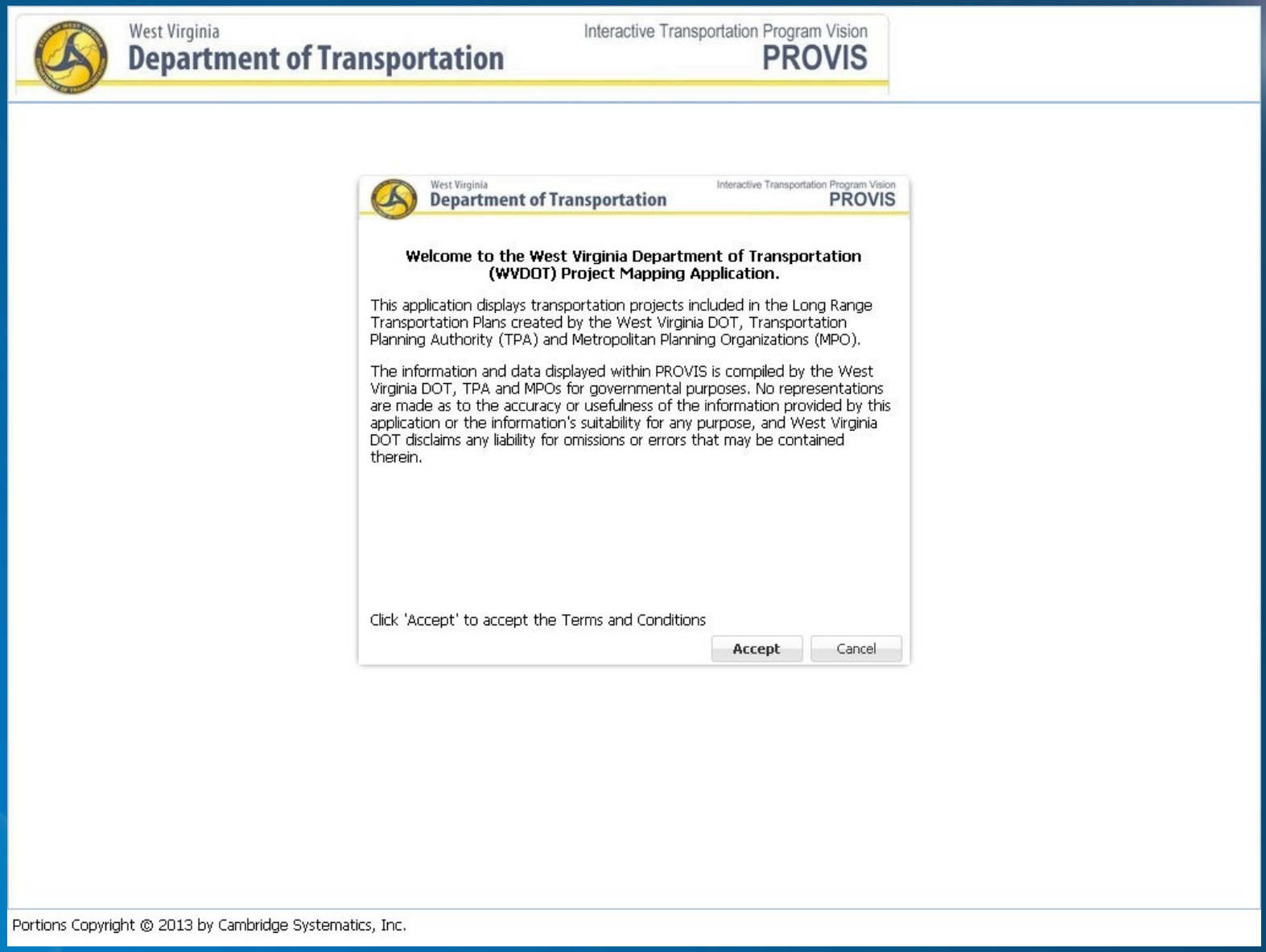
Project Workflow



PROVIS – How to access?

- To access PROVIS, you need:
  - A desktop or tablet (Apple iPad, Android, Windows)
  - An Internet connection
  - A modern Internet web browser – Internet Explorer 9 (or higher), Google Chrome, Firefox, Apple Safari
- To access advanced functionality, you also need
  - A valid Username and Password

PROVIS - Demonstration



Next Steps

- Deploy final application at WVOT November 2013
- PROVIS training December 2013/January 2014

Wrap Up

- Questions?
- Comments?
- Contact:
  - Perry McCutcheon
    (304) 558-9286
    perry.j.mccutcheon@wv.gov
  - Kevin Howard
    (617) 354-0167
    khoward@camsys.com

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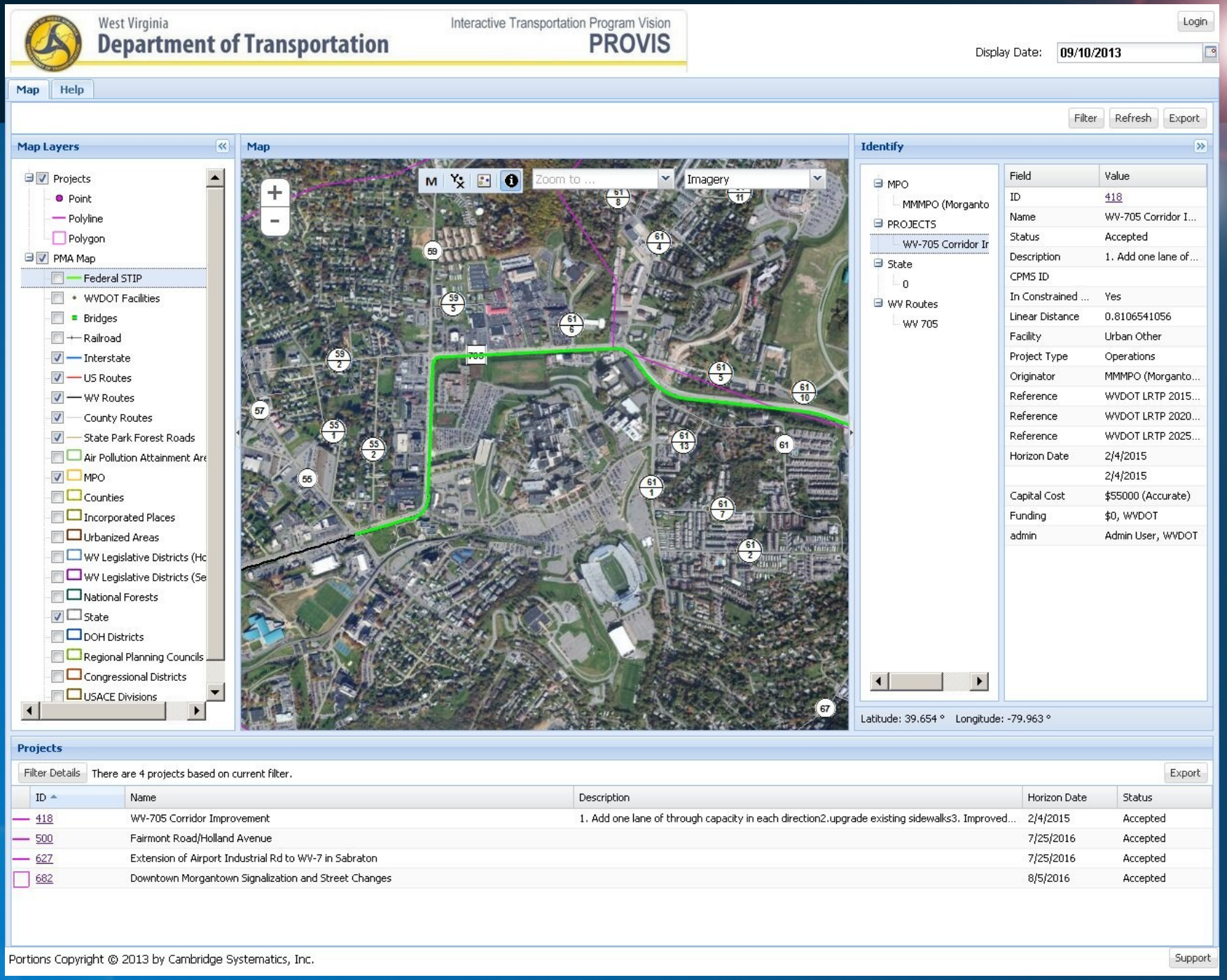
Base Functionality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Linear Distance
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Facility
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WVDOT LRTP 2025...
Horizon Date
2/4/2015
2/4/2015
Capital Cost
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Funding
$0, WVDOT
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Admin User, WVDOT
Latitude: 39.654 °
Longitude: -79.963 °
Projects
Filter Details
There are 4 projects based on current filter.
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ID
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418
WV-705 Corridor Improvement
1. Add one lane of through capacity in each direction2.upgrade existing sidewalks3. Improved...
2/4/2015
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500
Fairmont Road/Holland Avenue
7/25/2016
Accepted
627
Extension of Airport Industrial Rd to WV-7 in Sabraton
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682
Downtown Morgantown Signalization and Street Changes
8/5/2016
Accepted
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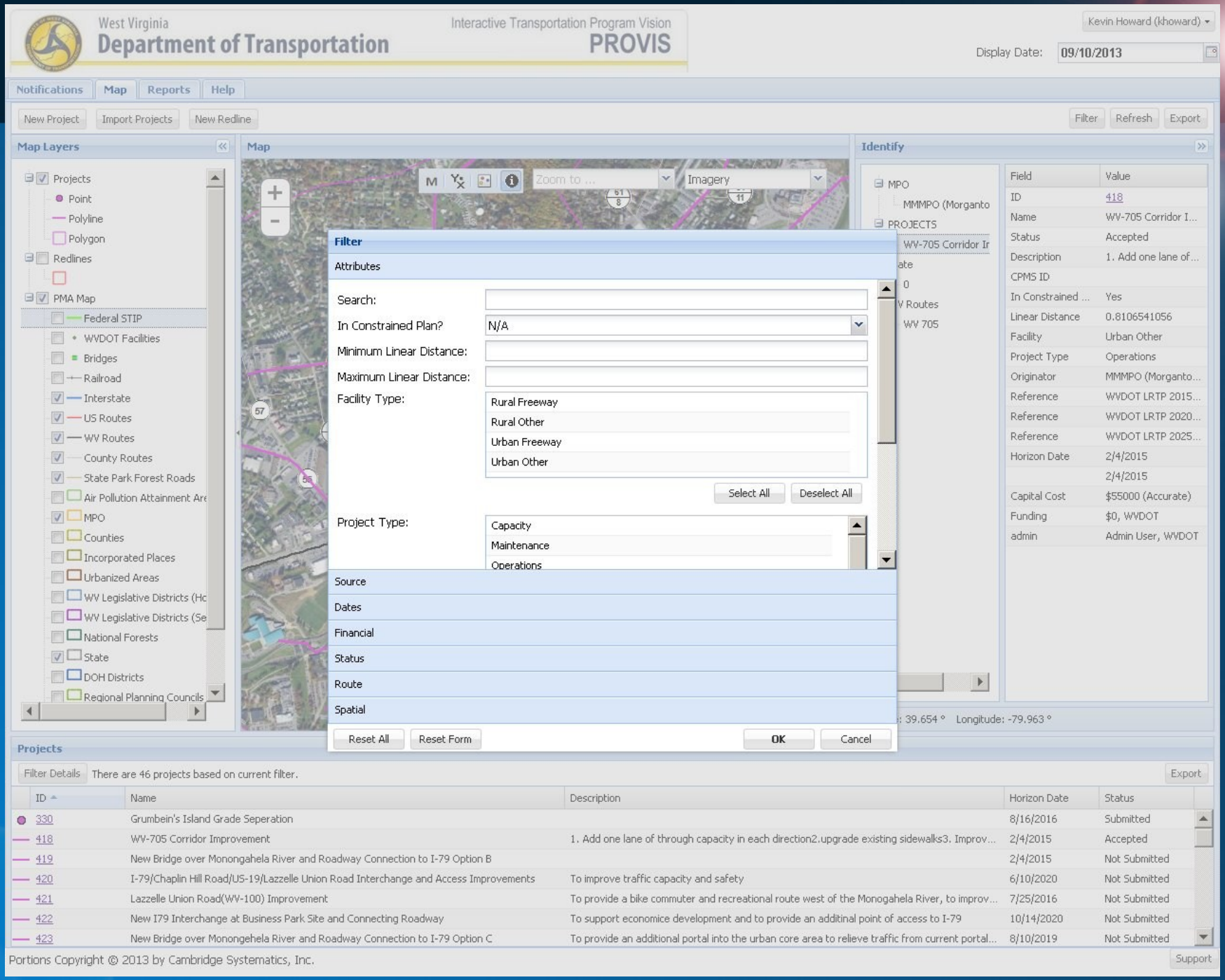
Support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Minimum Linear Distance:
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419
New Bridge over Monongahela River and Roadway Connection to I-79 Option B
2/4/2015
Not Submitted
420
I-79/Chaplin Hill Road/US-19/Lazzelle Union Road Interchange and Access Improvements
To improve traffic capacity and safety
6/10/2020
Not Submitted
421
Lazzelle Union Road(WV-100) Improvement
To provide a bike commuter and recreational route west of the Monogahela River, to improv...
7/25/2016
Not Submitted
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New I79 Interchange at Business Park Site and Connecting Roadway
To support economice development and to provide an additinal point of access to I-79
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423
New Bridge over Monongehela River and Roadway Connection to I-79 Option C
To provide an additional portal into the urban core area to relieve traffic from current portal...
8/10/2019
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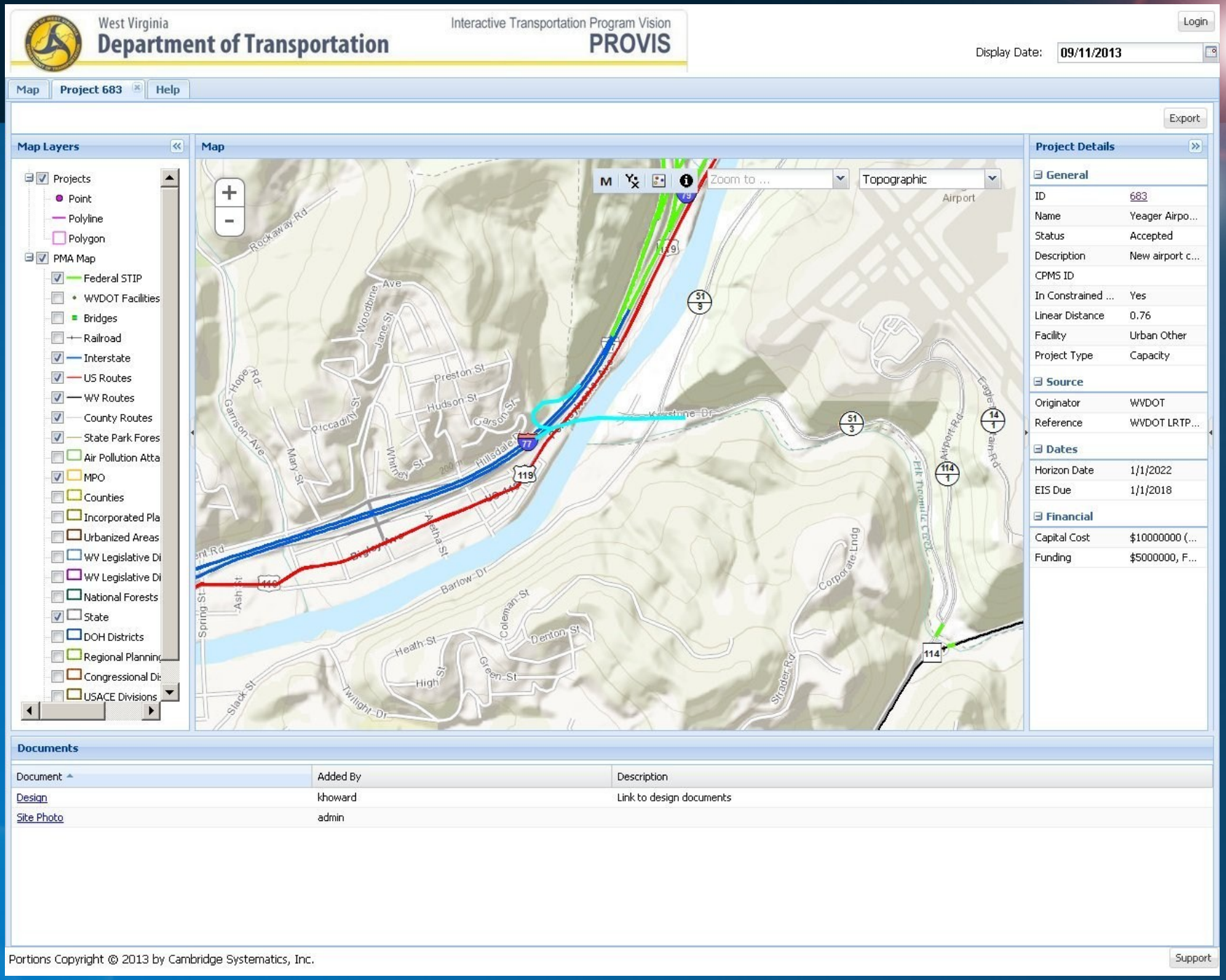
Support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EIS Due 1/1/2018
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Link to design documents
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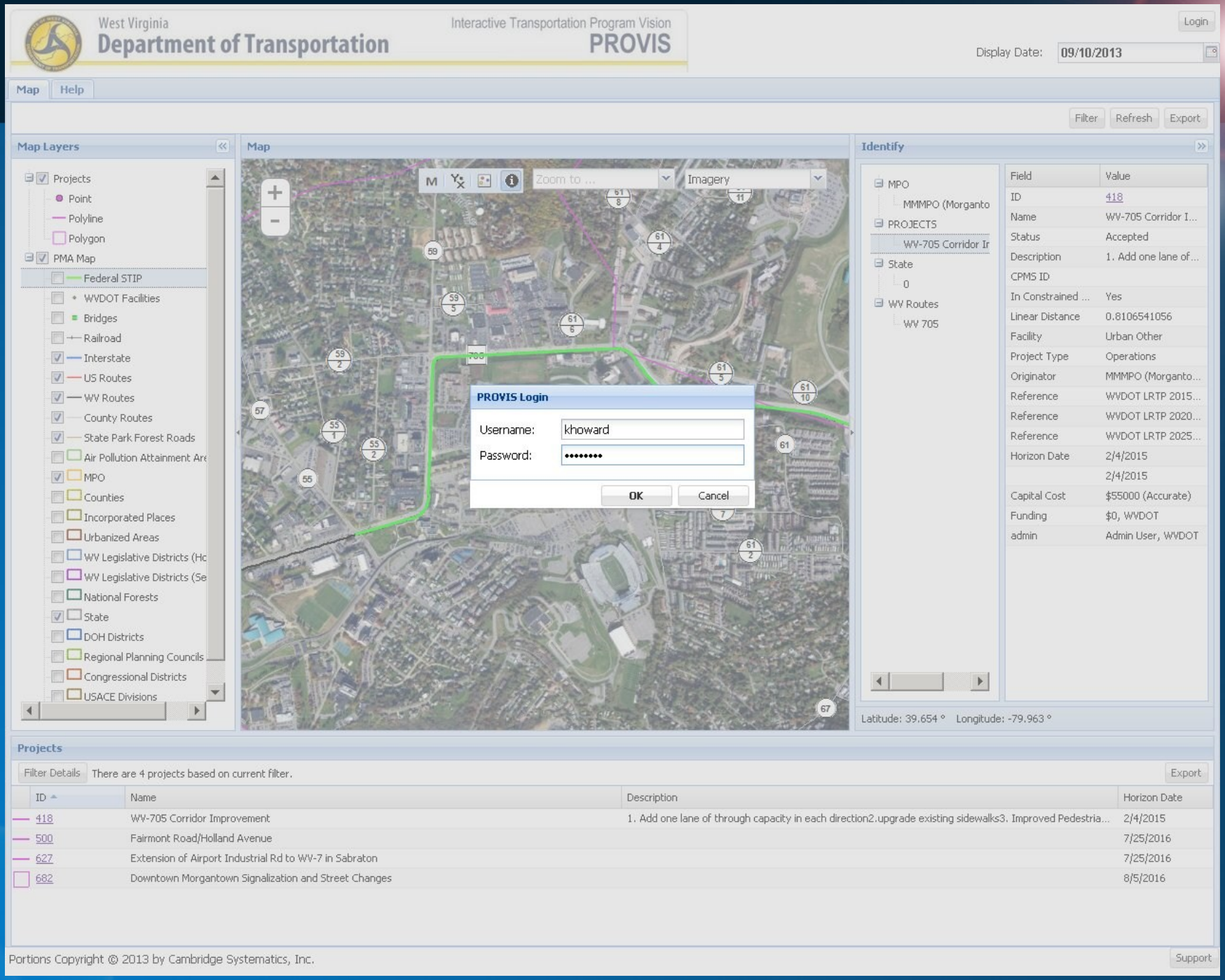
Support

Advanced Functionality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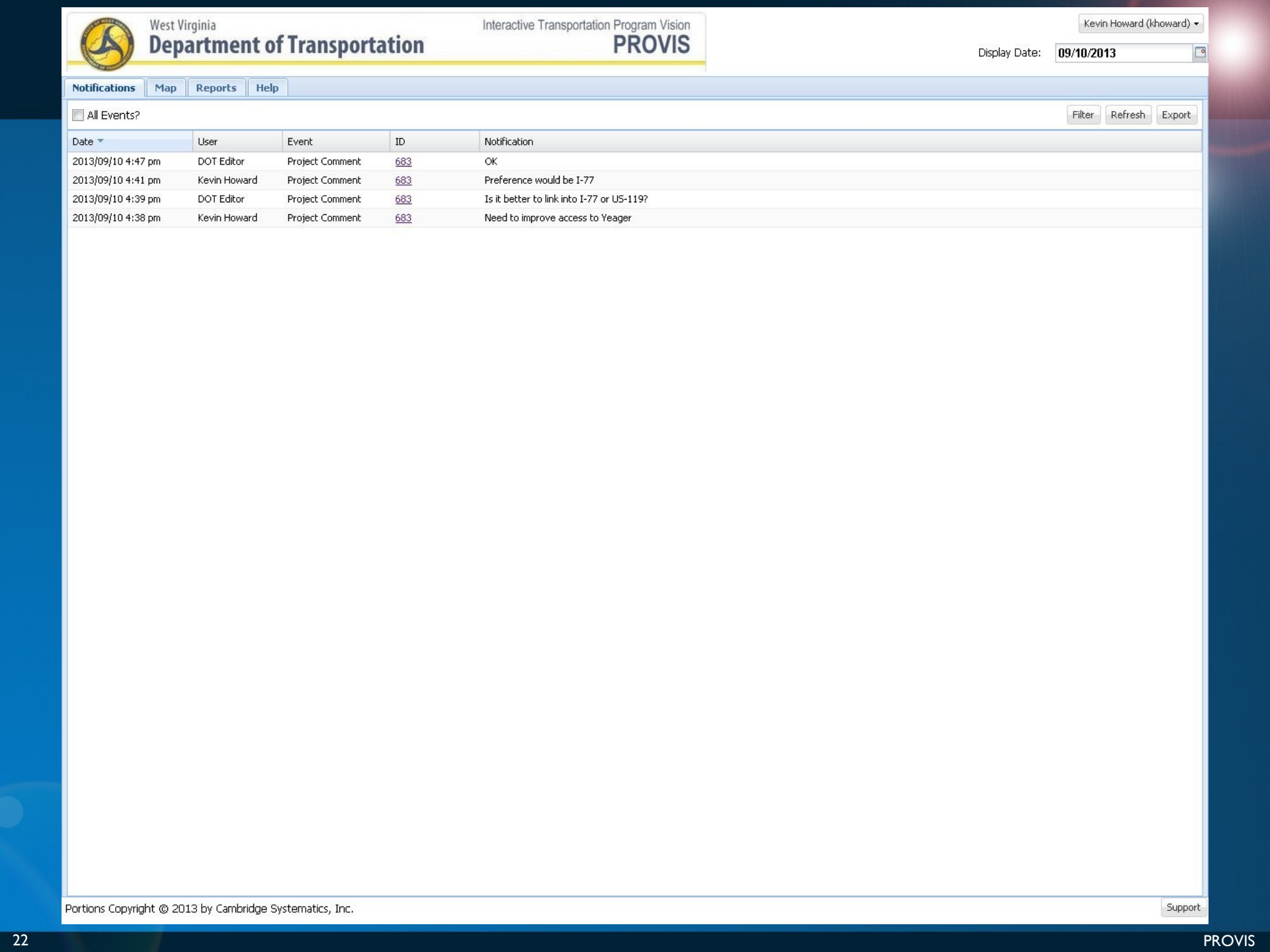
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DOT Editor
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683
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2013/09/10 4:41 pm
Kevin Howard
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2013/09/10 4:39 pm
DOT Editor
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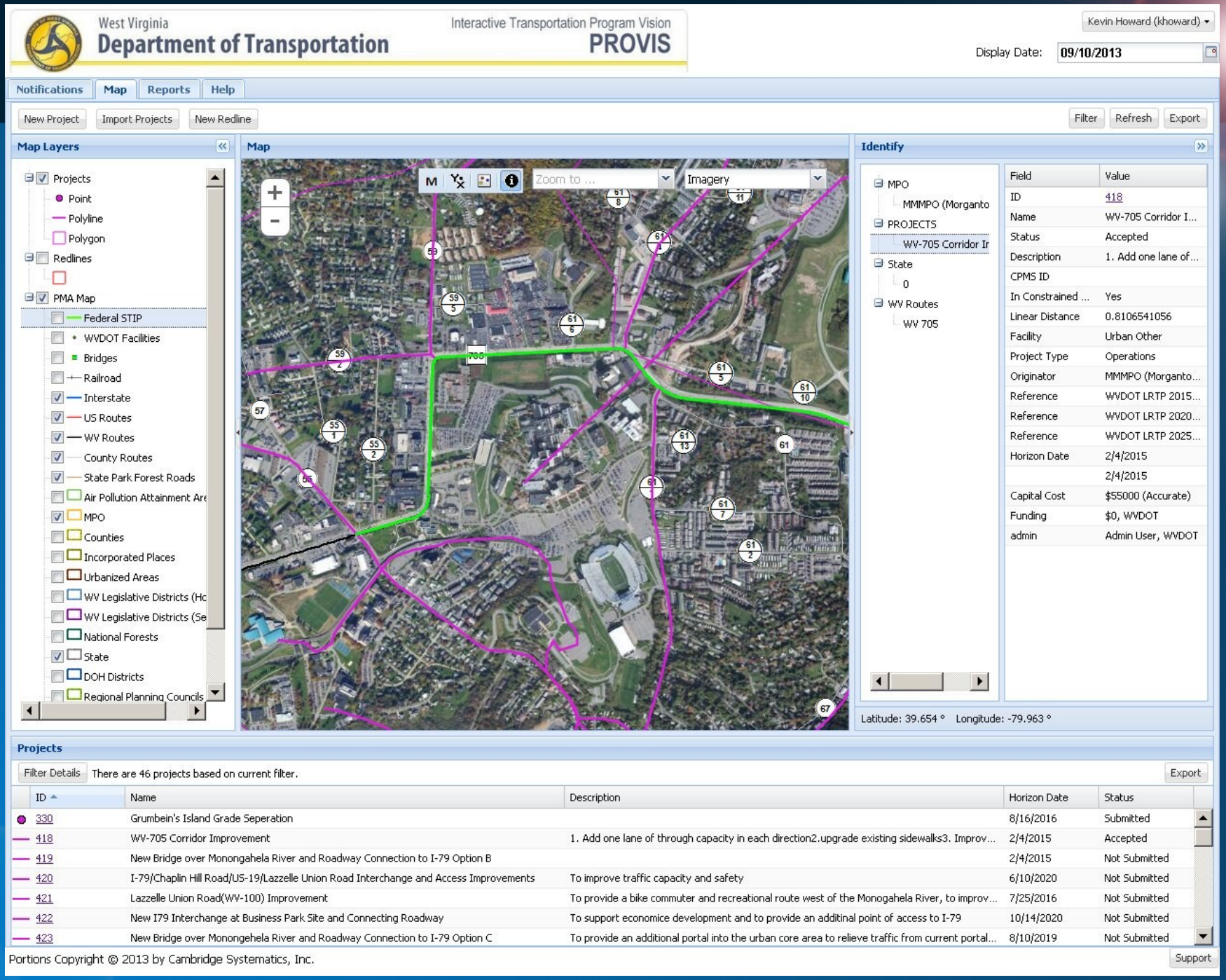
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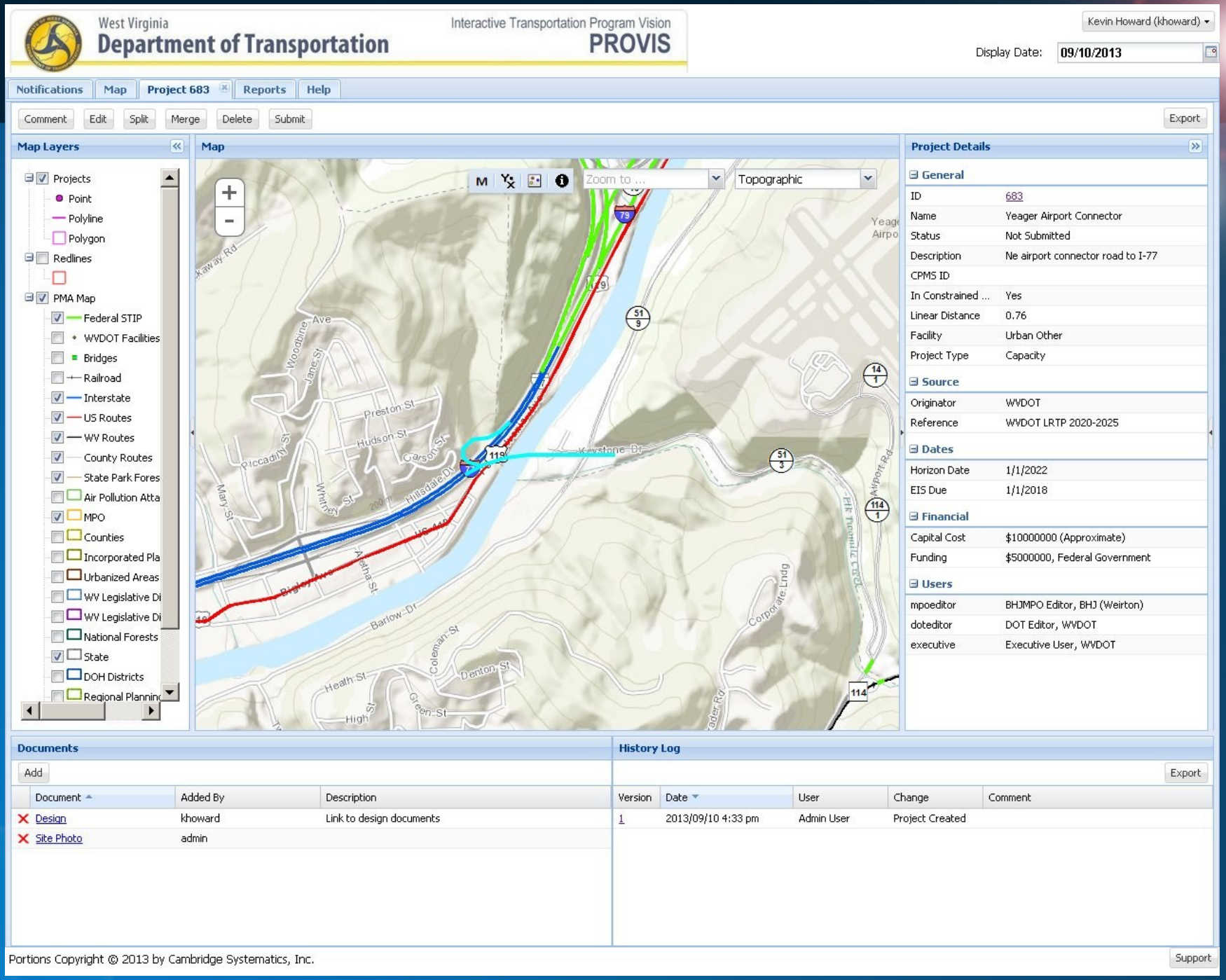
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Project Details
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ID 683
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Facility Urban Other
Project Type Capacity
Source
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Reference WVDOT LRTP 2020-2025
Dates
Horizon Date 1/1/2022
EIS Due 1/1/2018
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Capital Cost $10000000 (Approximate)
Funding $5000000, Federal Government
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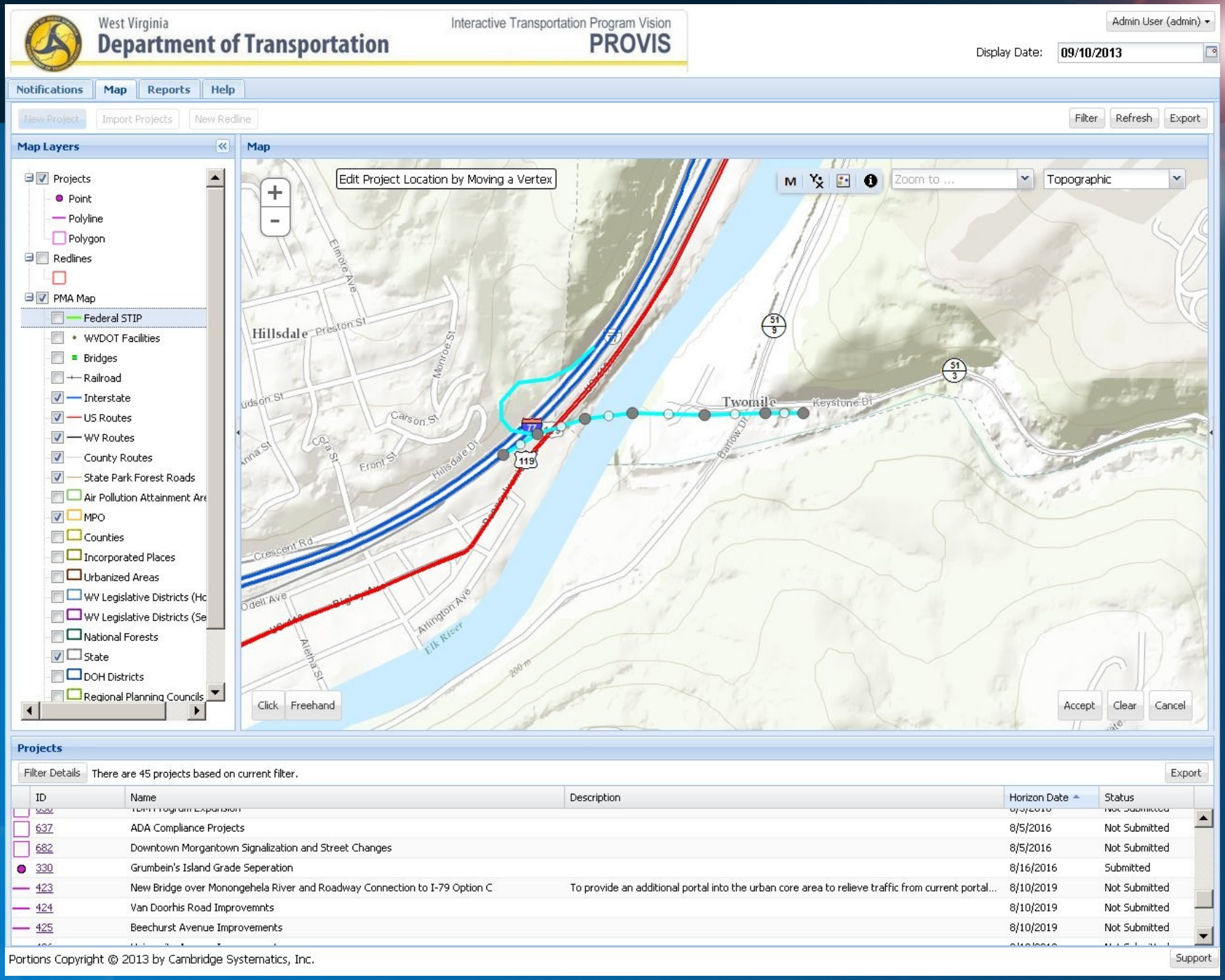
Support

Project Workflow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There are 45 projects based on current filter.
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682 Downtown Morgantown Signalization and Street Changes 8/5/2016 Not Submitted
330 Grumbein's Island Grade Seperation 8/16/2016 Submitted
423 New Bridge over Monongehela River and Roadway Connection to I-79 Option C To provide an additional portal into the urban core area to relieve traffic from current portal... 8/10/2019 Not Submitted
424 Van Doorhis Road Improvemnts 8/10/2019 Not Submitted
425 Beechurst Avenue Improvements 8/10/2019 Not Submitted
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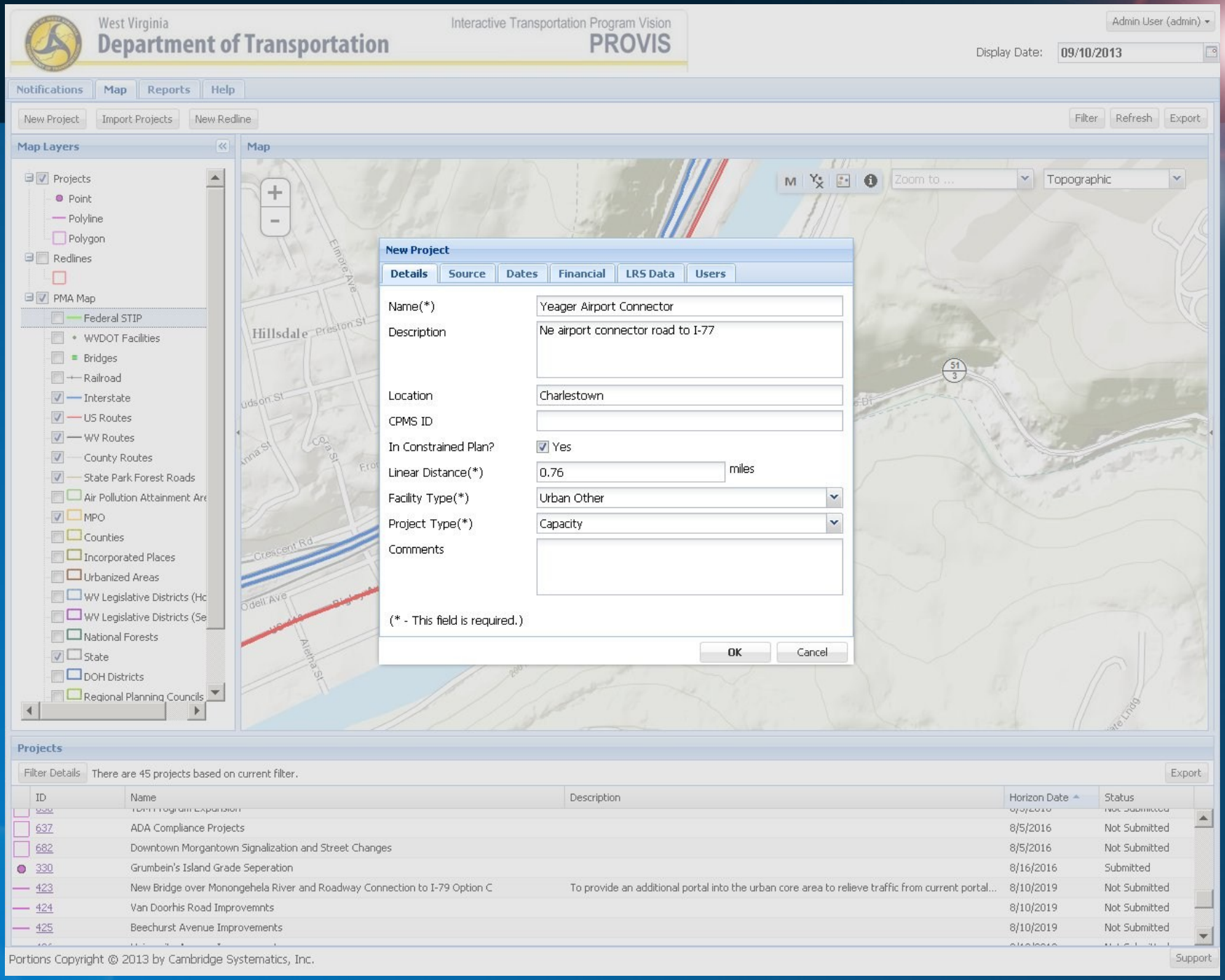
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Yeager Airport Connector
Description
Ne airport connector road to I-77
Location
Charlestown
CPMS ID
In Constrained Plan?
Yes
Linear Distance(*)
0.76
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Facility Type(*)
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Capacity
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OK
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Projects
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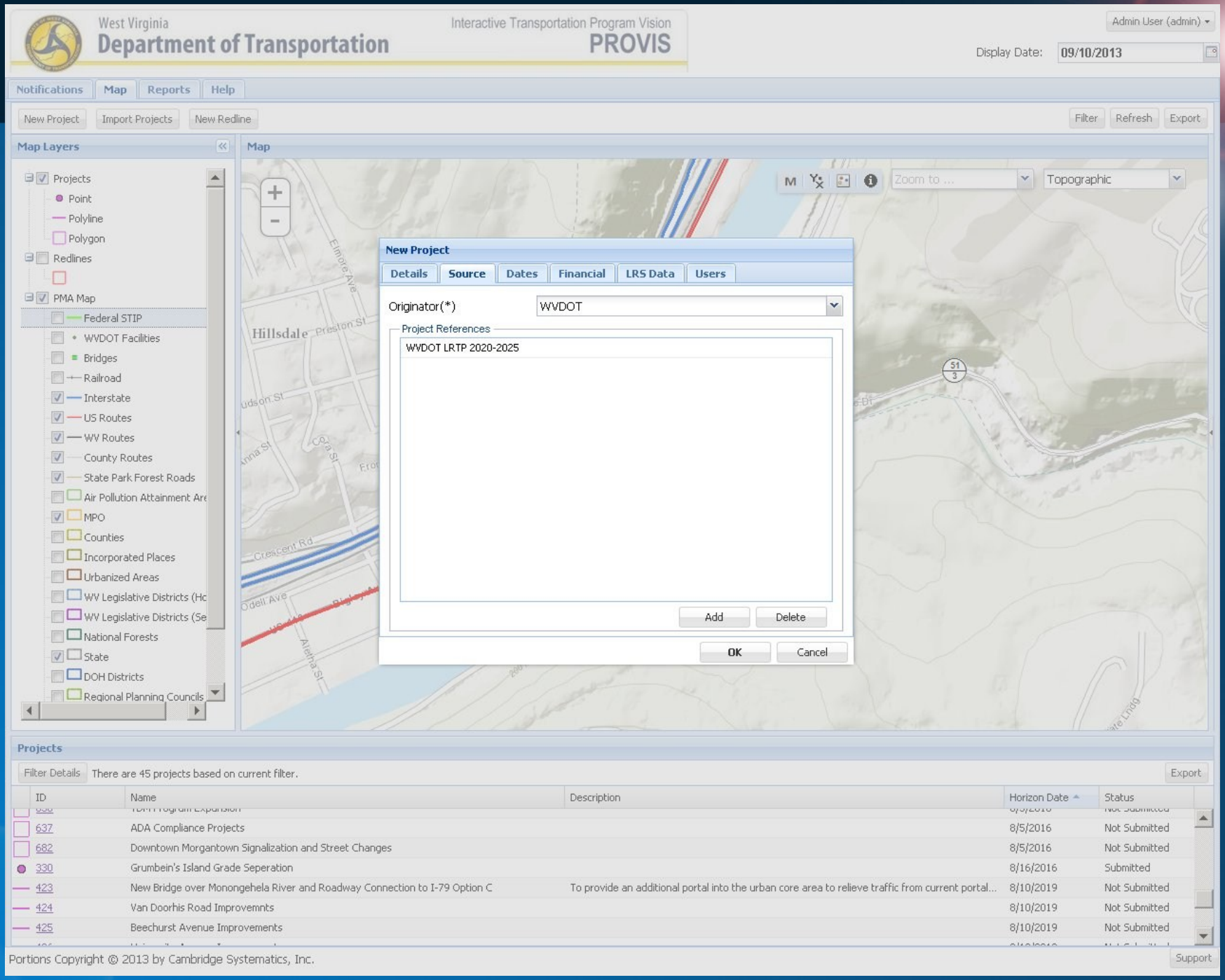
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Department of Transportation
Interactive Transportation Program Vision
PROVIS
Admin User (admin)
Display Date: 09/10/2013
Notifications
Map
Reports
Help
New Project
Import Projects
New Redline
Filter
Refresh
Export
Map Layers
Projects
Point
Polyline
Polygon
Redlines
PMA Map
Federal STIP
WVDOT Facilities
Bridges
Railroad
Interstate
US Routes
WV Routes
County Routes
State Park Forest Roads
Air Pollution Attainment Are
MPO
Counties
Incorporated Places
Urbanized Areas
WV Legislative Districts (Hc
WV Legislative Districts (Se
National Forests
State
DOH Districts
Regional Planning Councils
Map
Zoom to ...
Topographic
Hillsdale
Preston St
Crescent Rd
Odell Ave
New Project
Details
Source
Dates
Financial
LRS Data
Users
Originator(*)
WVDOT
Project References
WVDOT LRTP 2020-2025
Add
Delete
OK
Cancel
Projects
Filter Details
There are 45 projects based on current filter.
Export
ID
Name
Description
Horizon Date
Status
637 ADA Compliance Projects 8/5/2016 Not Submitted
682 Downtown Morgantown Signalization and Street Changes 8/5/2016 Not Submitted
330 Grumbein's Island Grade Seperation 8/16/2016 Submitted
423 New Bridge over Monongehela River and Roadway Connection to I-79 Option C To provide an additional portal into the urban core area to relieve traffic from current portal... 8/10/2019 Not Submitted
424 Van Doorhis Road Improvemnts 8/10/2019 Not Submitted
425 Beechurst Avenue Improvements 8/10/2019 Not Submitted
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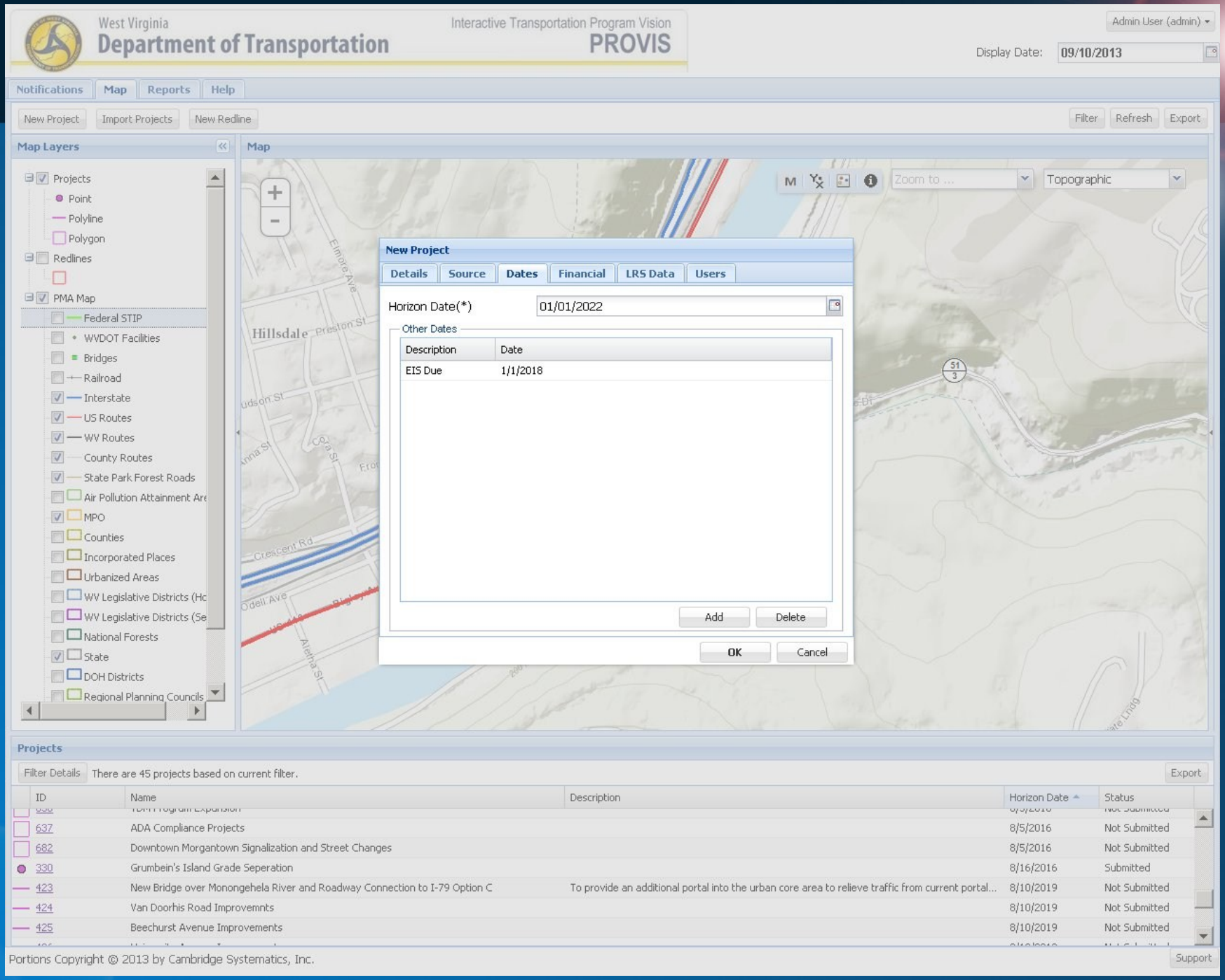
Support


West Virginia
Department of Transportation
Interactive Transportation Program Vision
PROVIS
Admin User (admin)
Display Date: 09/10/2013
Notifications
Map
Reports
Help
New Project
Import Projects
New Redline
Filter
Refresh
Export
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Polyline
Polygon
Redlines
PMA Map
Federal STIP
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Bridges
Railroad
Interstate
US Routes
WV Routes
County Routes
State Park Forest Roads
Air Pollution Attainment Are
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Counties
Incorporated Places
Urbanized Areas
WV Legislative Districts (Hc
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National Forests
State
DOH Districts
Regional Planning Councils
Map
Zoom to ...
Topographic
Hillsdale
Preston St
Crescent Rd
Odell Ave
New Project
Details
Source
Dates
Financial
LRS Data
Users
Horizon Date(*)
01/01/2022
Other Dates
Description
Date
EIS Due
1/1/2018
Add
Delete
OK
Cancel
Projects
Filter Details
There are 45 projects based on current filter.
Export
ID
Name
Description
Horizon Date
Status
637 ADA Compliance Projects 8/5/2016 Not Submitted
682 Downtown Morgantown Signalization and Street Changes 8/5/2016 Not Submitted
330 Grumbein's Island Grade Seperation 8/16/2016 Submitted
423 New Bridge over Monongehela River and Roadway Connection to I-79 Option C To provide an additional portal into the urban core area to relieve traffic from current portal... 8/10/2019 Not Submitted
424 Van Doorhis Road Improvemnts 8/10/2019 Not Submitted
425 Beechurst Avenue Improvements 8/10/2019 Not Submitted
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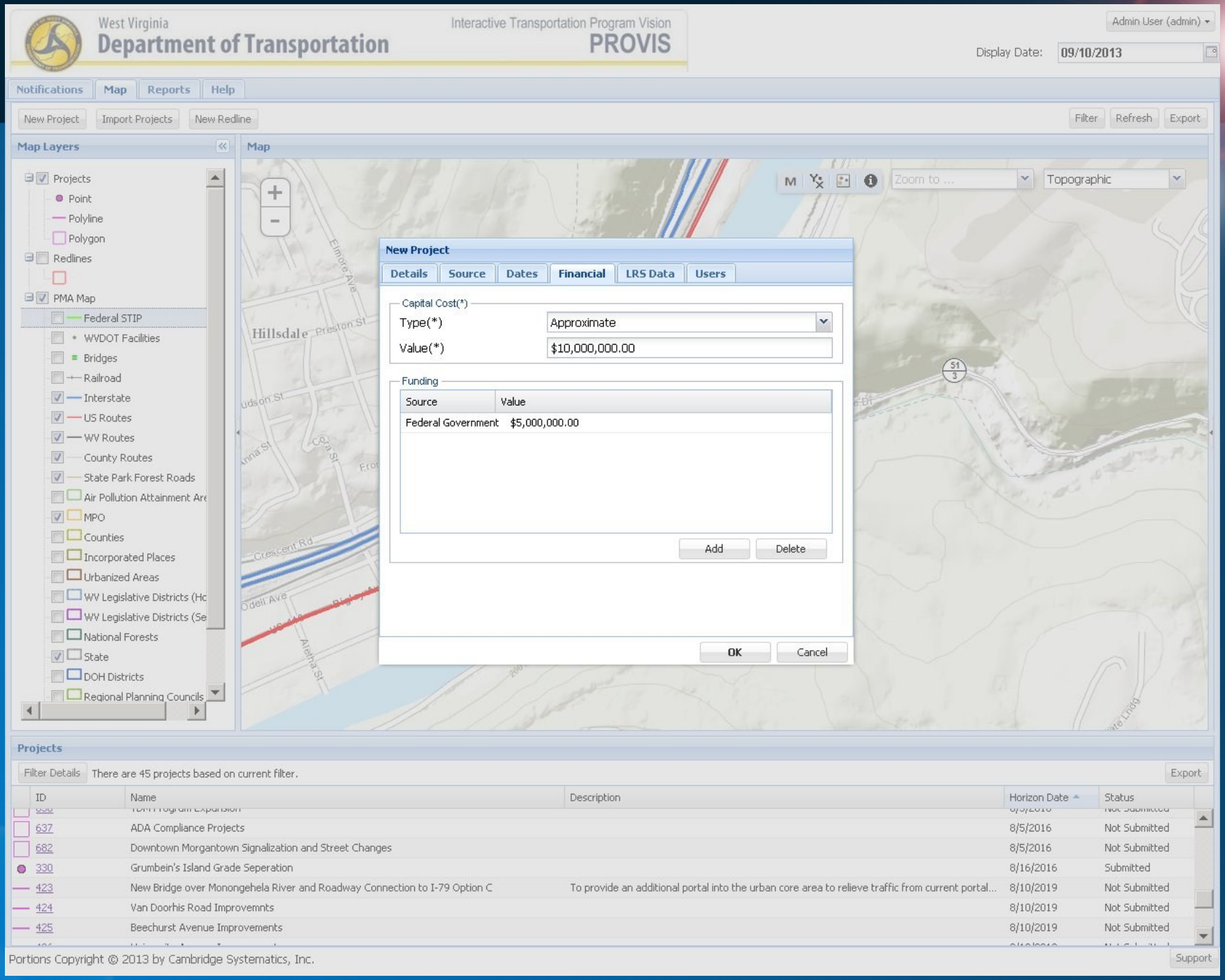
Support


West Virginia
Department of Transportation
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Display Date: 09/10/2013
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Regional Planning Councils
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Topographic
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Source
Dates
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LRS Data
Users
Capital Cost(*)
Type(*)
Approximate
Value(*)
$10,000,000.00
Funding
Source
Value
Federal Government
$5,000,000.00
Add
Delete
OK
Cancel
Projects
Filter Details
There are 45 projects based on current filter.
Export
ID
Name
Description
Horizon Date
Status
637
ADA Compliance Projects
8/5/2016
Not Submitted
682
Downtown Morgantown Signalization and Street Changes
8/5/2016
Not Submitted
330
Grumbein's Island Grade Seperation
8/16/2016
Submitted
423
New Bridge over Monongehela River and Roadway Connection to I-79 Option C
To provide an additional portal into the urban core area to relieve traffic from current portal...
8/10/2019
Not Submitted
424
Van Doorhis Road Improvemnts
8/10/2019
Not Submitted
425
Beechurst Avenue Improvements
8/10/2019
Not Submitted
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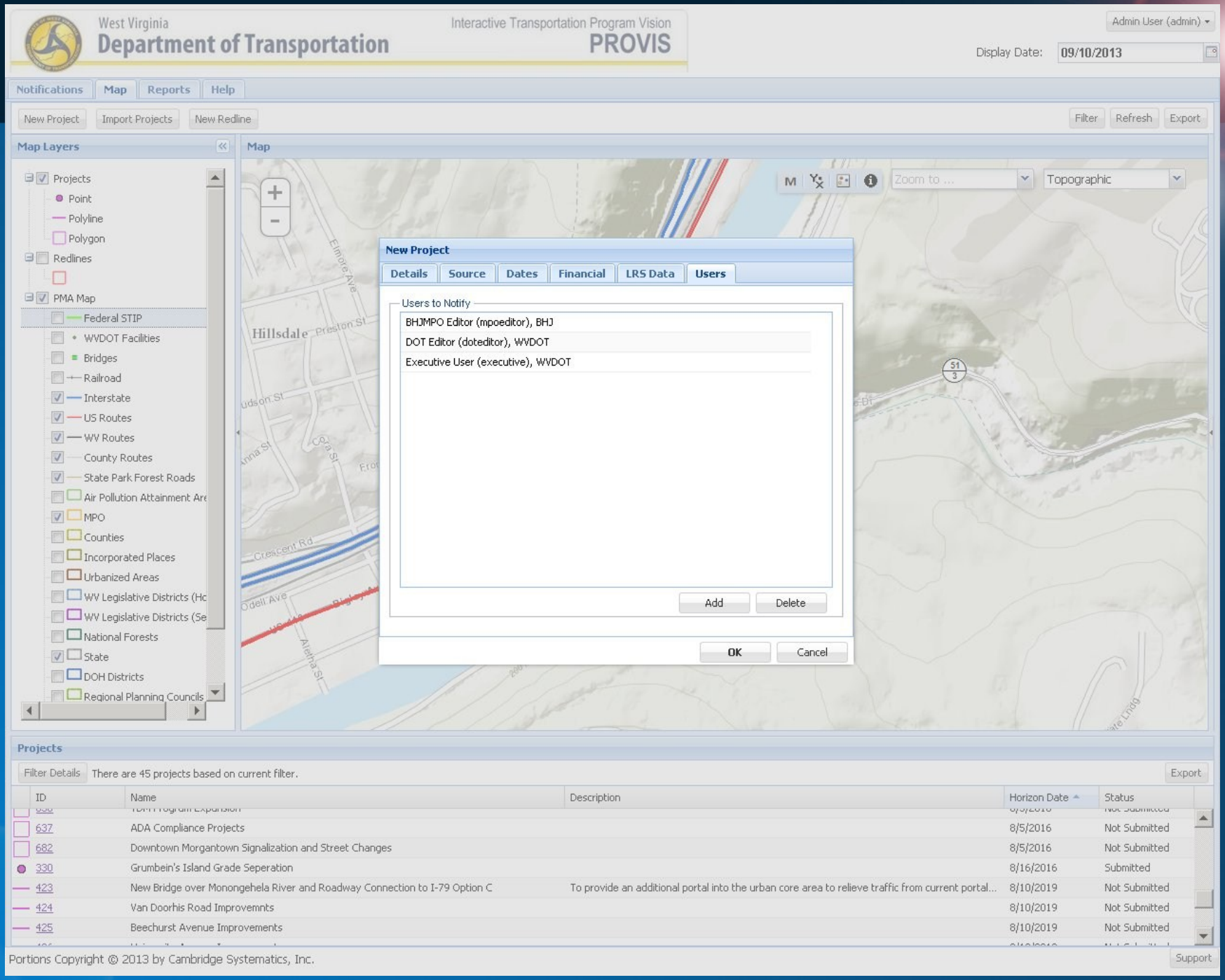
Support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PROVIS
Admin User (admin)
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County Routes
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Air Pollution Attainment Are
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Incorporated Places
Urbanized Areas
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DOH Districts
Regional Planning Councils
Map
Zoom to ...
Topographic
Hillsdale
Preston St
Elmore Ave
Crescent Rd
Odell Ave
Aletha St
New Project
Details
Source
Dates
Financial
LRS Data
Users
Users to Notify
BHJMPO Editor (mpoeditor), BHJ
DOT Editor (doteditor), WVDOT
Executive User (executive), WVDOT
Add
Delete
OK
Cancel
Projects
Filter Details
There are 45 projects based on current filter.
Export
ID
Name
Description
Horizon Date
Status
637 ADA Compliance Projects 8/5/2016 Not Submitted
682 Downtown Morgantown Signalization and Street Changes 8/5/2016 Not Submitted
330 Grumbein's Island Grade Seperation 8/16/2016 Submitted
423 New Bridge over Monongehela River and Roadway Connection to I-79 Option C To provide an additional portal into the urban core area to relieve traffic from current portal... 8/10/2019 Not Submitted
424 Van Doorhis Road Improvemnts 8/10/2019 Not Submitted
425 Beechurst Avenue Improvements 8/10/2019 Not Submitted
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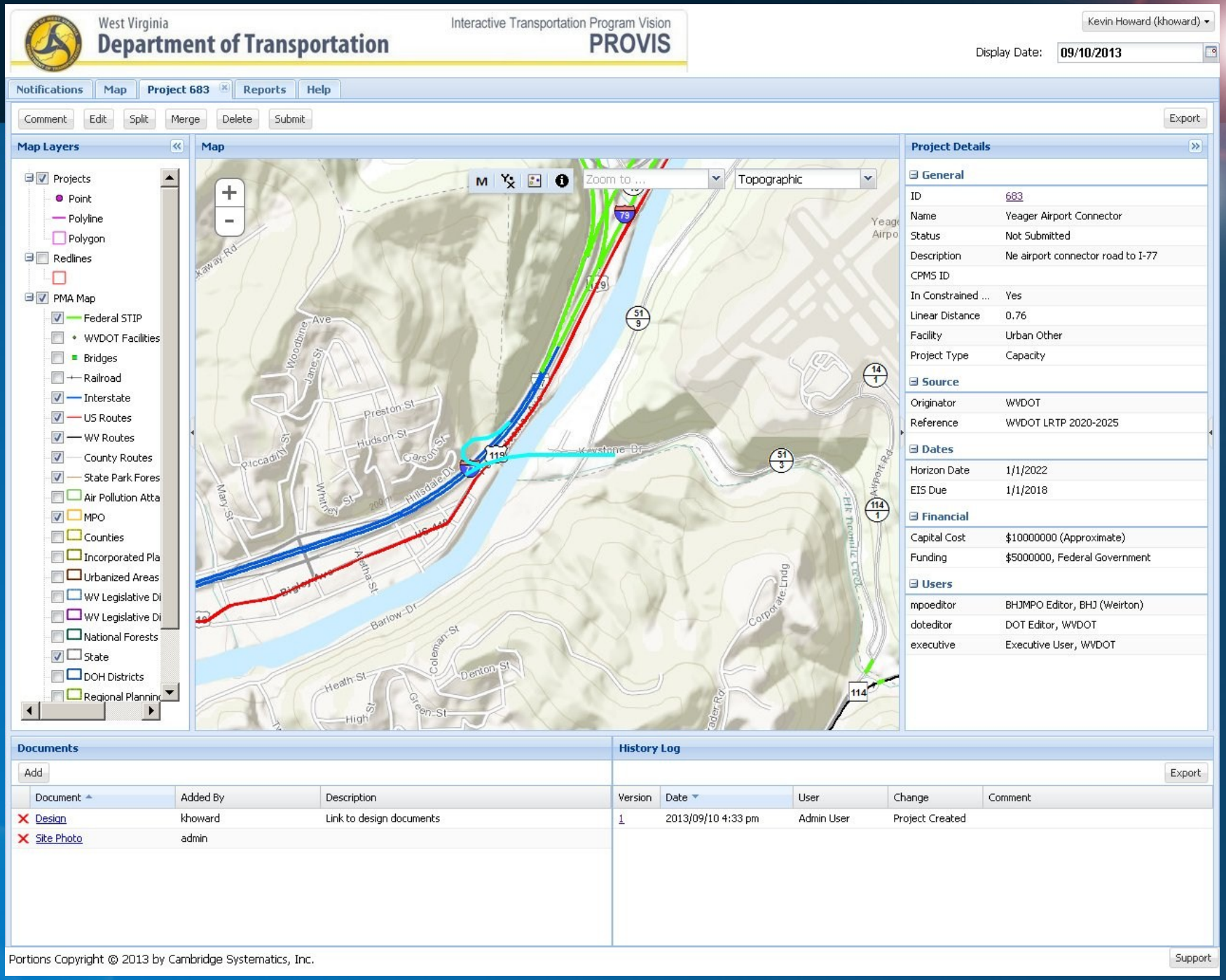
West Virginia
Department of Transportation
Interactive Transportation Program Vision
PROVIS
Kevin Howard (khoward)
Display Date: 09/10/2013
Notifications
Map
Project 683
Reports
Help
Comment
Edit
Split
Merge
Delete
Submit
Export
Map Layers
Projects
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Polyline
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Redlines
PMA Map
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WVDOT Facilities
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WV Routes
County Routes
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Air Pollution Atta
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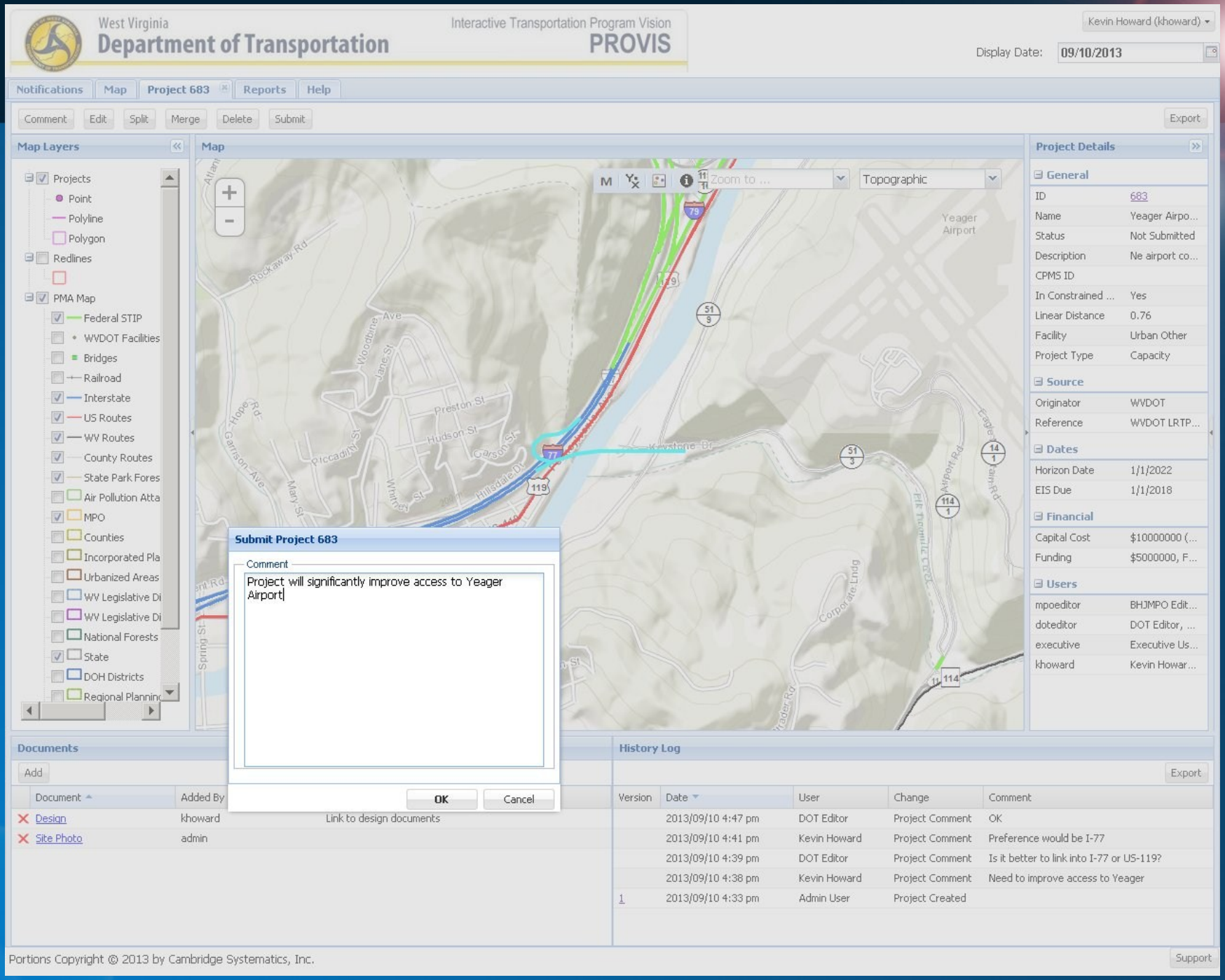
Incorporated Pla
Urbanized Areas
WV Legislative Di
WV Legislative Di
National Forests
State
DOH Districts
Regional Planning
Map
Zoom to ...
Topographic
Project Details
General
ID 683
Name Yeager Airport Connector
Status Not Submitted
Description Ne airport connector road to I-77
CPMS ID
In Constrained ... Yes
Linear Distance 0.76
Facility Urban Other
Project Type Capacity
Source
Originator WVDOT
Reference WVDOT LRTP 2020-2025
Dates
Horizon Date 1/1/2022
EIS Due 1/1/2018
Financial
Capital Cost $10000000 (Approximate)
Funding $5000000, Federal Government
Users
mpoeditor BHJMPO Editor, BHJ (Weirton)
doteditor DOT Editor, WVDOT
executive Executive User, WVDOT
Documents
Add
Document
Added By
Description
Design
khoward
Link to design documents
Site Photo
admin
History Log
Export
Version
Date
User
Change
Comment
1
2013/09/10 4:33 pm
Admin User
Project Created
Portions Copyright © 2013 by Cambridge Systematics, Inc.
Support


West Virginia
Department of Transportation
Interactive Transportation Program Vision
PROVIS
Kevin Howard (khoward)
Display Date: 09/10/2013
Notifications
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Reports
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Edit
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Delete
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State Park Fores
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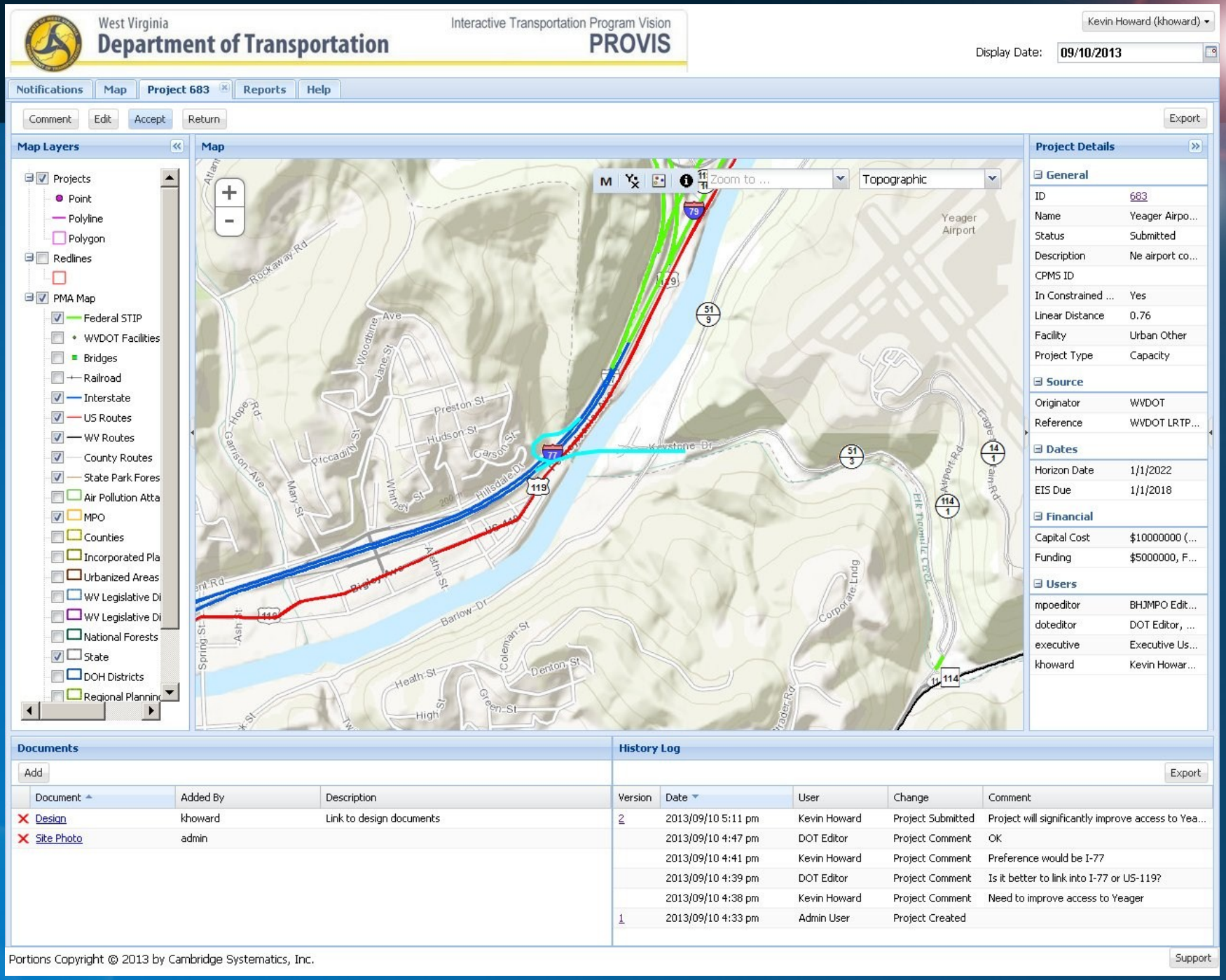
MPO
Counties
Incorporated Pla
Urbanized Areas
WV Legislative Di
WV Legislative Di
National Forests
State
DOH Districts
Regional Planning
Map
Zoom to ...
Topographic
Yeager Airport
Rockaway Rd
Woodbine Ave
Lane St
Preston St
Hudson St
Carson St
Piccadilly St
Hope Rd
Garrison Ave
Mary St
Whitney St
Hillsdale Dr
Keystone Dr
Airport Rd
Eagle Farm Rd
Corporate Lndg
Spring St
Project Details
General
ID 683
Name Yeager Airpo...
Status Not Submitted
Description Ne airport co...
CPMS ID
In Constrained ... Yes
Linear Distance 0.76
Facility Urban Other
Project Type Capacity
Source
Originator WVDOT
Reference WVDOT LRTP...
Dates
Horizon Date 1/1/2022
EIS Due 1/1/2018
Financial
Capital Cost $10000000 (...
Funding $5000000, F...
Users
mpoeditor BHJMPO Edit...
doteditor DOT Editor, ...
executive Executive Us...
khoward Kevin Howar...
Submit Project 683
Comment
Project will significantly improve access to Yeager Airport
OK
Cancel
Documents
Add
Document
Added By
Design khoward Link to design documents
Site Photo admin
History Log
Export
Version
Date
User
Change
Comment
2013/09/10 4:47 pm DOT Editor Project Comment OK
2013/09/10 4:41 pm Kevin Howard Project Comment Preference would be I-77
2013/09/10 4:39 pm DOT Editor Project Comment Is it better to link into I-77 or US-119?
2013/09/10 4:38 pm Kevin Howard Project Comment Need to improve access to Yeager
1 2013/09/10 4:33 pm Admin User Project Created
Portions Copyright © 2013 by Cambridge Systematics, Inc.
Support


West Virginia
Department of Transportation
Interactive Transportation Program Vision
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Kevin Howard (khoward)
Display Date: 09/10/2013
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Reports
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Accept
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Urbanized Areas
WV Legislative Di
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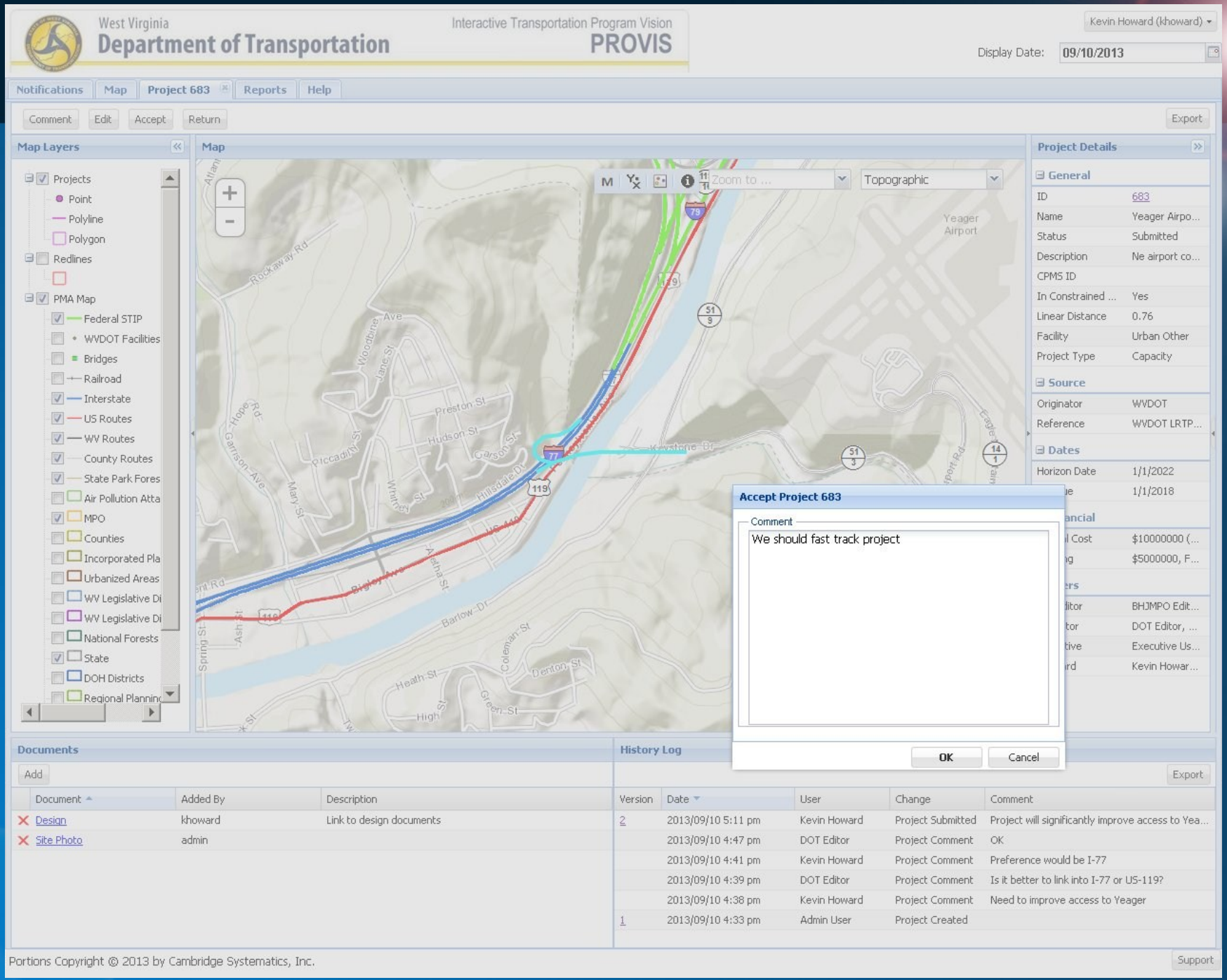
National Forests
State
DOH Districts
Regional Planning
Map
Zoom to ...
Topographic
Yeager Airport
Rockaway Rd
Woodbine Ave
Jane St
Preston St
Hudson St
Carson St
Piccadilly St
Hope Rd
Garrison Ave
Mary St
Whitney St
Hillsdale Dr
Kevstone Dr
Bigley Ave
Aletha St
Barlow Dr
Coleman St
Denton St
Heath St
High St
Green St
Spring St
Ash St
Corporate Lndg
Airport Rd
Eagle Terrain Rd
Elk Tramile Creek
Project Details
General
ID 683
Name Yeager Airpo...
Status Submitted
Description Ne airport co...
CPMS ID
In Constrained ... Yes
Linear Distance 0.76
Facility Urban Other
Project Type Capacity
Source
Originator WVDOT
Reference WVDOT LRTP...
Dates
Horizon Date 1/1/2022
EIS Due 1/1/2018
Financial
Capital Cost $10000000 (...
Funding $5000000, F...
Users
mpoeditor BHJMPO Edit...
doteditor DOT Editor, ...
executive Executive Us...
khoward Kevin Howar...
Documents
Add
Document
Added By
Description
Design
khoward
Link to design documents
Site Photo
admin
History Log
Export
Version
Date
User
Change
Comment
2
2013/09/10 5:11 pm
Kevin Howard
Project Submitted
Project will significantly improve access to Yea...
2013/09/10 4:47 pm
DOT Editor
Project Comment
OK
2013/09/10 4:41 pm
Kevin Howard
Project Comment
Preference would be I-77
2013/09/10 4:39 pm
DOT Editor
Project Comment
Is it better to link into I-77 or US-119?
2013/09/10 4:38 pm
Kevin Howard
Project Comment
Need to improve access to Yeager
1
2013/09/10 4:33 pm
Admin User
Project Created
Portions Copyright © 2013 by Cambridge Systematics, Inc.
Support


West Virginia
Department of Transportation
Interactive Transportation Program Vision
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Kevin Howard (khoward)
Display Date: 09/10/2013
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Counties
Incorporated Pla
Urbanized Areas
WV Legislative Di
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National Forests
State
DOH Districts
Regional Planning
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Zoom to ...
Topographic
Yeager Airport
Project Details
General
ID 683
Name Yeager Airpo...
Status Submitted
Description Ne airport co...
CPMS ID
In Constrained ... Yes
Linear Distance 0.76
Facility Urban Other
Project Type Capacity
Source
Originator WVDOT
Reference WVDOT LRTP...
Dates
Horizon Date 1/1/2022
1/1/2018
$10000000 (...
$5000000, F...
BHJMPO Edit...
DOT Editor, ...
Executive Us...
Kevin Howar...
Accept Project 683
Comment
We should fast track project
OK
Cancel
Documents
Add
Document
Added By
Description
Design
khoward
Link to design documents
Site Photo
admin
History Log
Export
Version
Date
User
Change
Comment
2 2013/09/10 5:11 pm Kevin Howard Project Submitted Project will significantly improve access to Yea...
2013/09/10 4:47 pm DOT Editor Project Comment OK
2013/09/10 4:41 pm Kevin Howard Project Comment Preference would be I-77
2013/09/10 4:39 pm DOT Editor Project Comment Is it better to link into I-77 or US-119?
2013/09/10 4:38 pm Kevin Howard Project Comment Need to improve access to Yeager
1 2013/09/10 4:33 pm Admin User Project Created
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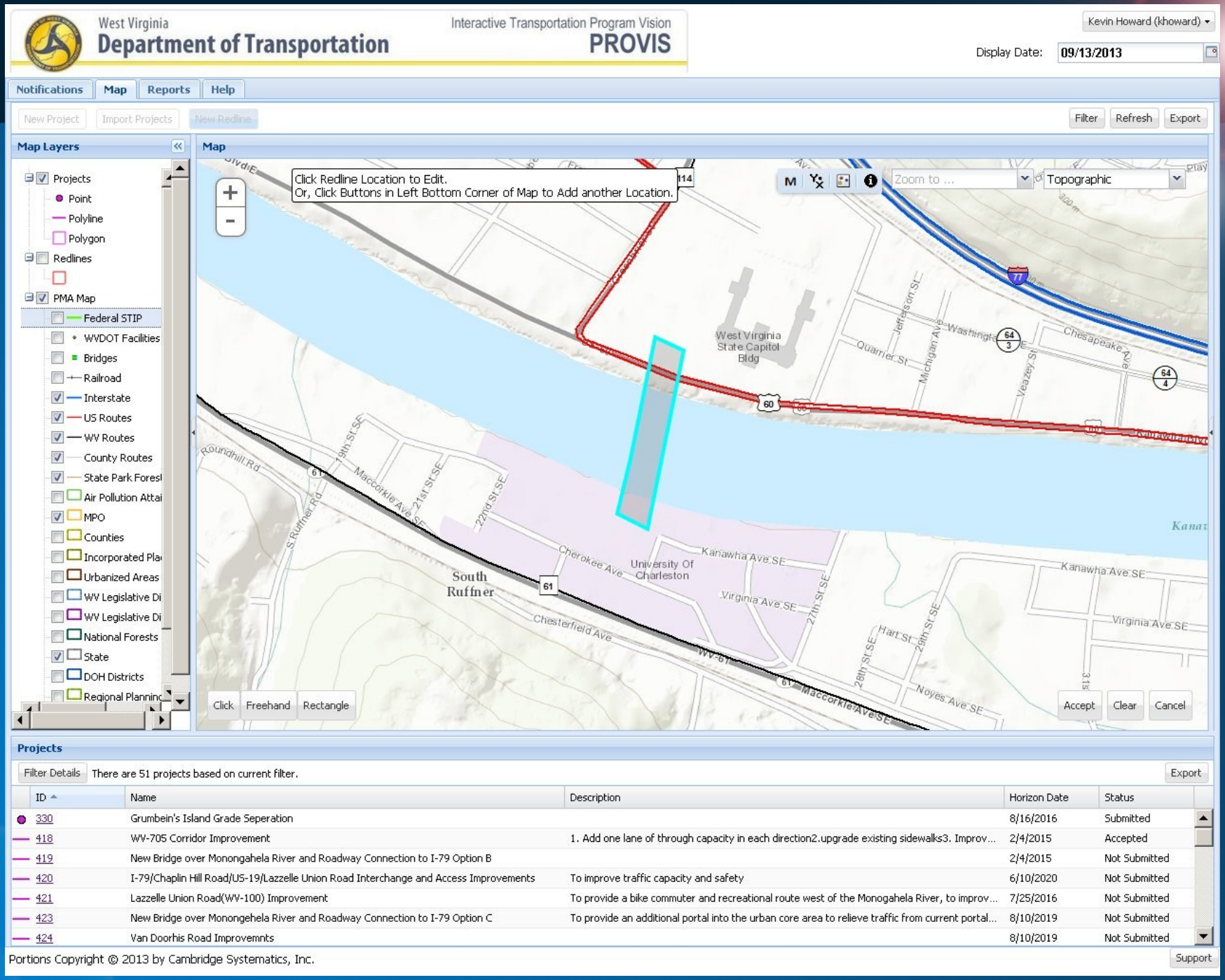
Support

Redline Workflow


West Virginia
Department of Transportation
Interactive Transportation Program Vision
PROVIS
Kevin Howard (khoward)
Display Date: 09/13/2013
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New Project
Import Projects
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County Routes
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Incorporated Pla
Urbanized Areas
WV Legislative Di
WV Legislative Di
National Forests
State
DOH Districts
Regional Planning
Map
Click Redline Location to Edit.
Or, Click Buttons in Left Bottom Corner of Map to Add another Location.
Zoom to ...
Topographic
West Virginia State Capitol Bldg
Quarrier St
Jefferson St
Michigan Ave
Washington Ave SE
Veazey St
Chesapeake
Roundhill Rd
19th St SE
Maccorkle Ave SE
21st St SE
22nd St SE
S Ruffner Rd
South Ruffner
Cherokee Ave
University Of Charleston
Kanawha Ave SE
Virginia Ave SE
27th St SE
28th St SE
Hart St
Noyes Ave SE
31st
Chesterfield Ave
WV-61
Click
Freehand
Rectangle
Accept
Clear
Cancel
Projects
Filter Details
There are 51 projects based on current filter.
Export
ID
Name
Description
Horizon Date
Status
330 Grumbein's Island Grade Seperation 8/16/2016 Submitted
418 WV-705 Corridor Improvement 1. Add one lane of through capacity in each direction2.upgrade existing sidewalks3. Improv... 2/4/2015 Accepted
419 New Bridge over Monongahela River and Roadway Connection to I-79 Option B 2/4/2015 Not Submitted
420 I-79/Chaplin Hill Road/US-19/Lazzelle Union Road Interchange and Access Improvements To improve traffic capacity and safety 6/10/2020 Not Submitted
421 Lazzelle Union Road(WV-100) Improvement To provide a bike commuter and recreational route west of the Monogahela River, to improv... 7/25/2016 Not Submitted
423 New Bridge over Monongehela River and Roadway Connection to I-79 Option C To provide an additional portal into the urban core area to relieve traffic from current portal... 8/10/2019 Not Submitted
424 Van Doorhis Road Improvemnts 8/10/2019 Not Submitted
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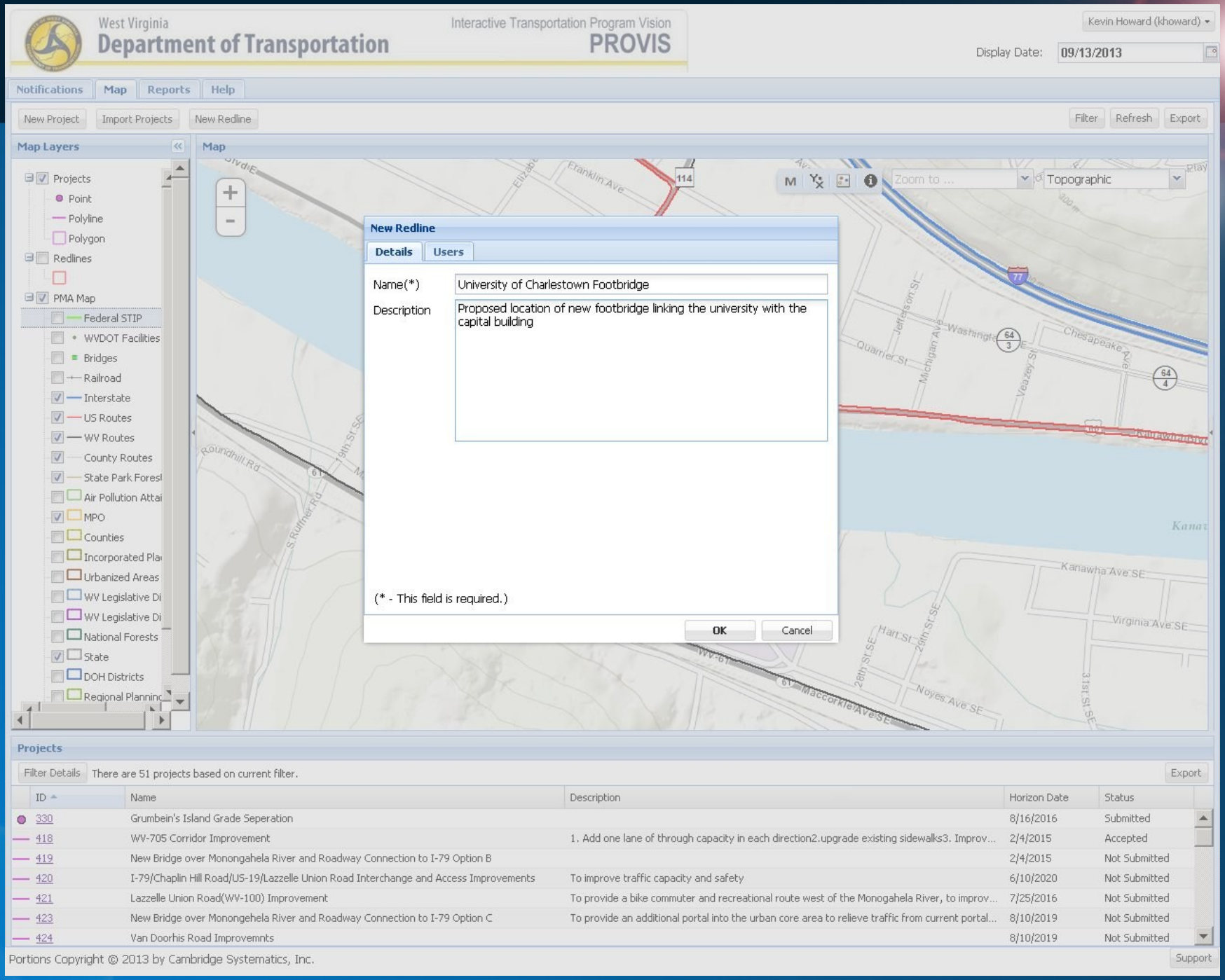
Support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Display Date: 09/13/2013
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New Project
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County Routes
State Park Forest
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Incorporated Pla
Urbanized Areas
WV Legislative Di
WV Legislative Di
National Forests
State
DOH Districts
Regional Planning
Map
Zoom to ...
Topographic
New Redline
Details
Users
Name(*)
University of Charlestown Footbridge
Description
Proposed location of new footbridge linking the university with the capital building
(* - This field is required.)
OK
Cancel
Projects
Filter Details
There are 51 projects based on current filter.
Export
ID
Name
Description
Horizon Date
Status
330 Grumbein's Island Grade Seperation 8/16/2016 Submitted
418 WV-705 Corridor Improvement 1. Add one lane of through capacity in each direction2.upgrade existing sidewalks3. Improv... 2/4/2015 Accepted
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424 Van Doorhis Road Improvemnts 8/10/2019 Not Submitted
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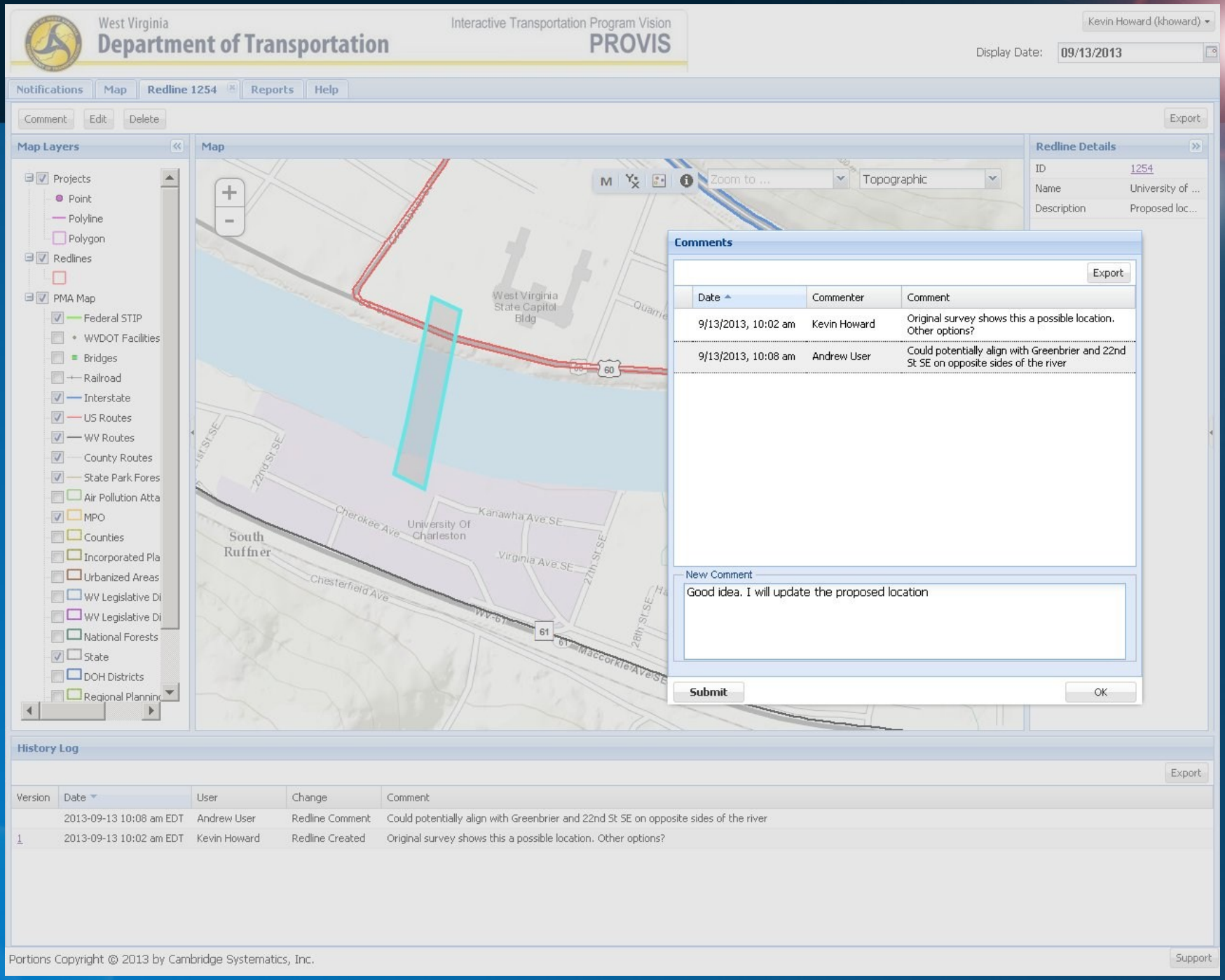
West Virginia
Department of Transportation
Interactive Transportation Program Vision
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Redline 1254
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Comment
Edit
Delete
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Projects
Point
Polyline
Polygon
Redlines
PMA Map
Federal STIP
WVDOT Facilities
Bridges
Railroad
Interstate
US Routes
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Counties
Incorporated Pla
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State
DOH Districts
Regional Planning
Map
Zoom to ...
Topographic
West Virginia State Capitol Bldg
University Of Charleston
South Ruffner
Cherokee Ave
Kanawha Ave SE
Virginia Ave SE
Chesterfield Ave
MacCorkle Ave SE
WV 61
Redline Details
ID 1254
Name University of ...
Description Proposed loc...
Comments
Export
Date
Commenter
Comment
9/13/2013, 10:02 am
Kevin Howard
Original survey shows this a possible location. Other options?
9/13/2013, 10:08 am
Andrew User
Could potentially align with Greenbrier and 22nd St SE on opposite sides of the river
New Comment
Good idea. I will update the proposed location
Submit
OK
History Log
Export
Version
Date
User
Change
Comment
2013-09-13 10:08 am EDT
Andrew User
Redline Comment
Could potentially align with Greenbrier and 22nd St SE on opposite sides of the river
1
2013-09-13 10:02 am EDT
Kevin Howard
Redline Created
Original survey shows this a possible location. Other options?
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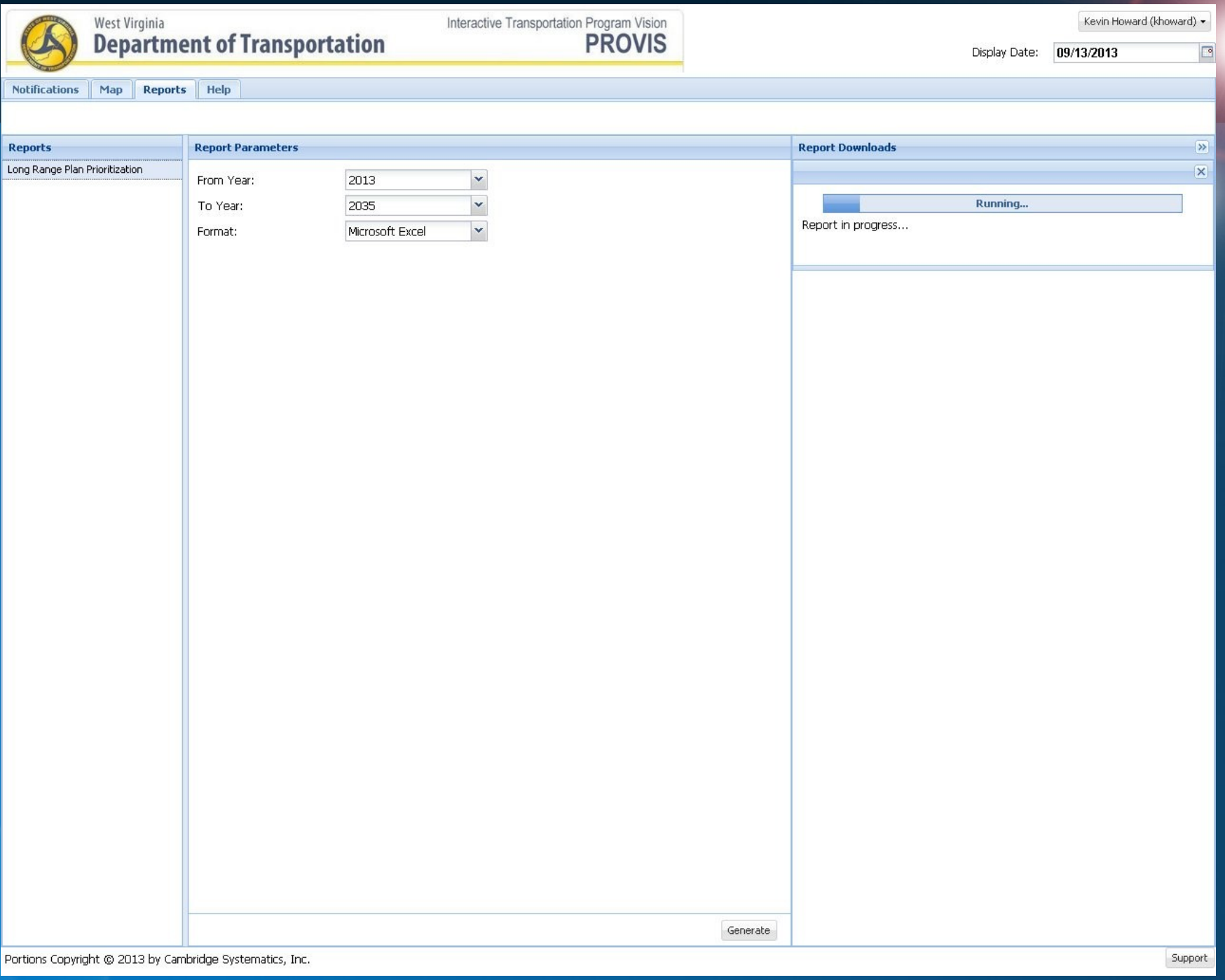
Support

Reports


West Virginia
Department of Transportation
Interactive Transportation Program Vision
PROVIS
Kevin Howard (khoward)
Display Date:
09/13/2013
Notifications
Map
Reports
Help
Reports
Long Range Plan Prioritization
Report Parameters
From Year:
2013
To Year:
2035
Format:
Microsoft Excel
Generate
Report Downloads
Running...
Report in progress...
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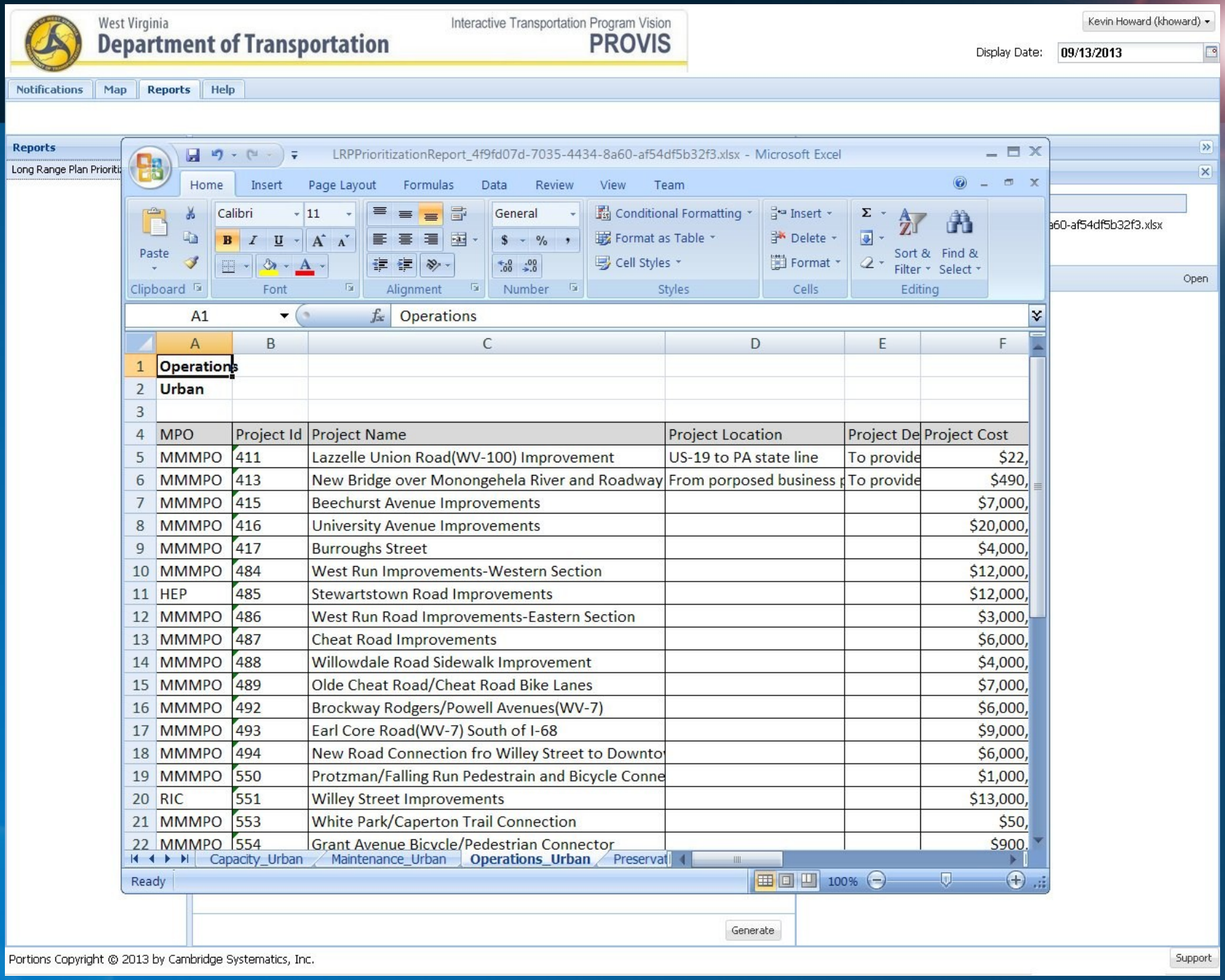
Support



	A	B	C	D	E	F
1	**Operations**					
2	**Urban**					
3						
4	MPO	Project Id	Project Name	Project Location	Project De	Project Cost
5	MMMPO	411	Lazzelle Union Road(WV-100) Improvement	US-19 to PA state line	To provide	$22,
6	MMMPO	413	New Bridge over Monongehela River and Roadway	From porposed business p	To provide	$490,
7	MMMPO	415	Beechurst Avenue Improvements			$7,000,
8	MMMPO	416	University Avenue Improvements			$20,000,
9	MMMPO	417	Burroughs Street			$4,000,
10	MMMPO	484	West Run Improvements-Western Section			$12,000,
11	HEP	485	Stewartstown Road Improvements			$12,000,
12	MMMPO	486	West Run Road Improvements-Eastern Section			$3,000,
13	MMMPO	487	Cheat Road Improvements			$6,000,
14	MMMPO	488	Willowdale Road Sidewalk Improvement			$4,000,
15	MMMPO	489	Olde Cheat Road/Cheat Road Bike Lanes			$7,000,
16	MMMPO	492	Brockway Rodgers/Powell Avenues(WV-7)			$6,000,
17	MMMPO	493	Earl Core Road(WV-7) South of I-68			$9,000,
18	MMMPO	494	New Road Connection fro Willey Street to Downto			$6,000,
19	MMMPO	550	Protzman/Falling Run Pedestrain and Bicycle Conne			$1,000,
20	RIC	551	Willey Street Improvements			$13,000,
21	MMMPO	553	White Park/Caperton Trail Connection			$50,
22	MMMPO	554	Grant Avenue Bicycle/Pedestrian Connector			$900,