

Railway Environmental Analysis and Compliance through ArcGIS Online (AGOL)





What is Southeast High Speed Rail?



 Washington, D.C. to
 Richmond
 Southeast High
 Speed Rail

• "DC2RVA"

http://www.dc2rvarail.com



Corridor Overview

123-mile corridor

•Follows CSX's rail line

 Shared freight rail and passenger rail corridor

 Amtrak provides intercity passenger rail service

Virginia Railway
 Express provides
 commuter rail
 service



Project Purpose & Need







Increase System Capacity





Tier II Environmental Impact Statement

Tier II Environmental Impact Statement (EIS)



Summarize broader issues discussed in the Tier I Study.

Focus on site-specific impacts and mitigation for individual elements of the larger study.



Incorporate further public/agency input.



Quantify impacts and analyze potential mitigation measures.

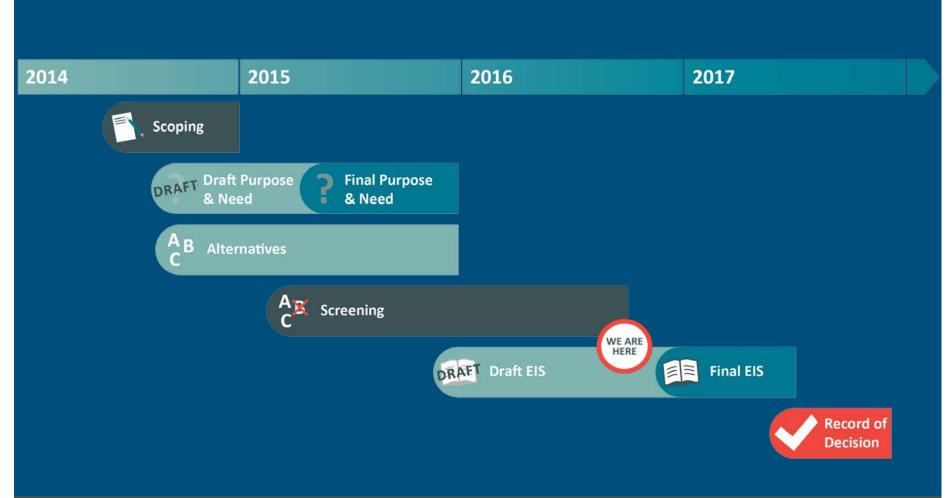


Documentation and decisions lead to permitting, final design, right-of-way acquisition, and construction.





Accelerated Timeline



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Draft EIS Evaluation Criteria & Screening Process

- Purpose and Need
- Natural/environmental
 - Wetlands
 - Air Quality
 - Noise
- Social
 - Cultural Resources
 - Environmental Justice
 - Title VI
 - Public Safety
- Economic
 - Annual O&M Costs
 - Infrastructure Costs
 - Ridership

Stage I Screening - Direct Impacts/Feasibility

Stage II Screening - Order of Magnitude Impacts

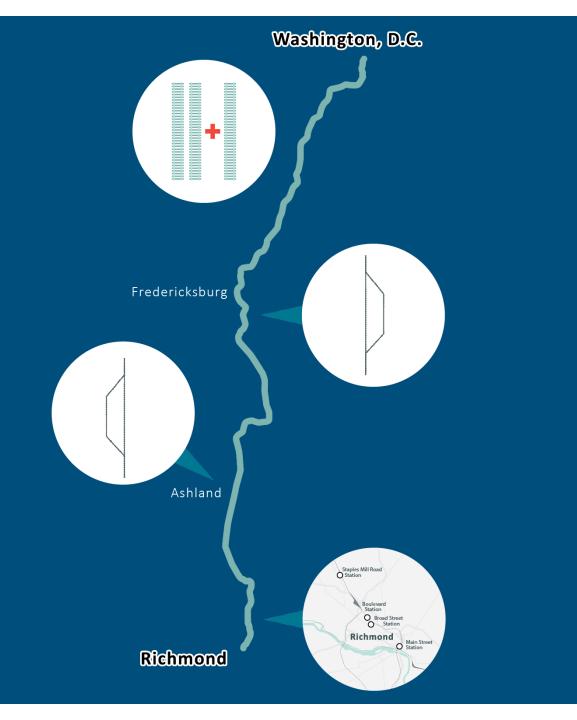
Stage III Screening - Infrastructure Constraints

Stage IV Screening - Area Options





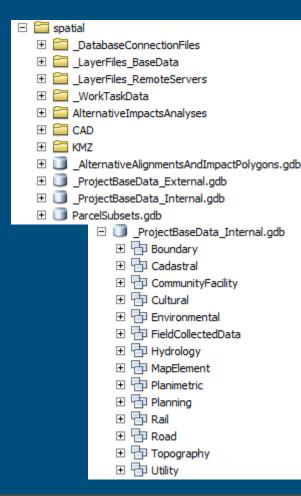
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Summary of Alternatives Carried Forward



Data: Creation, Acquisition, Organization



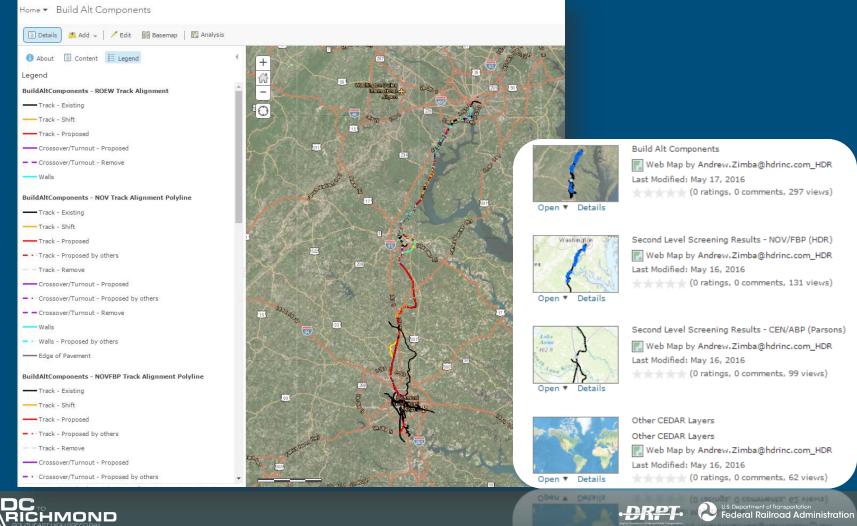
12 Counties

- 22 Project Segments
- Alternative Iterations
- Internal Data
- External Data
- Nomenclature, Archiving





Online Mapping Solution

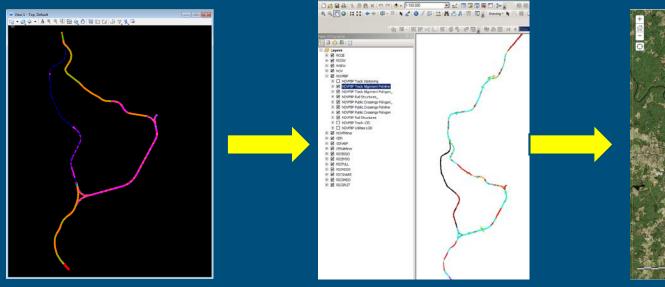


Other CEDAR Layers

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Online Adaptability

Engineering Team Review conceptual alternatives Review impact analyses Modify alignments













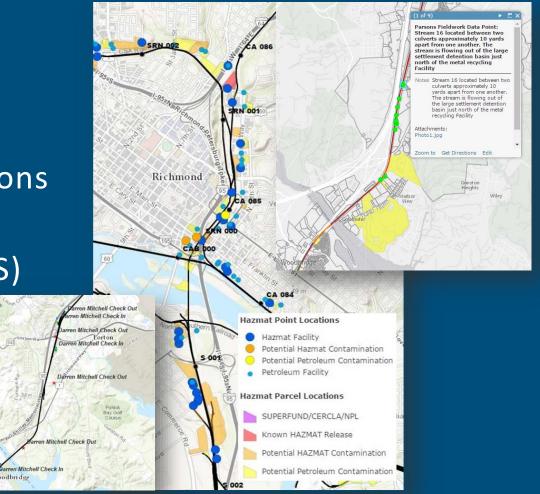


Staged Screening Impacts



Continued Environmental Project Support

- Resources Review
- Technical Memos
- Fieldwork
- Stakeholder Presentations
- Draft Environmental Impact Statement (DEIS)



U.S. Department of Transportation

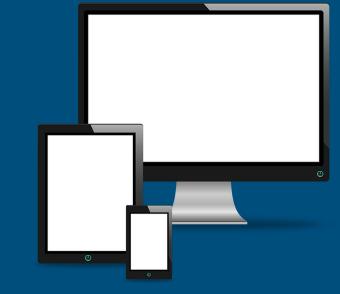
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Conclusion: Benefits Realized

Data Review
Collaborative
Dynamic
Interactive
Accessible



Versatility Mobility

User Interface/ User Experience

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Thank you!



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