March 16, 2022

Improving Document Retention Through Data Management Dashboards

Taking our Planning Tools and Expertise to the Next Level

CDM Smith

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Welcome and Agenda

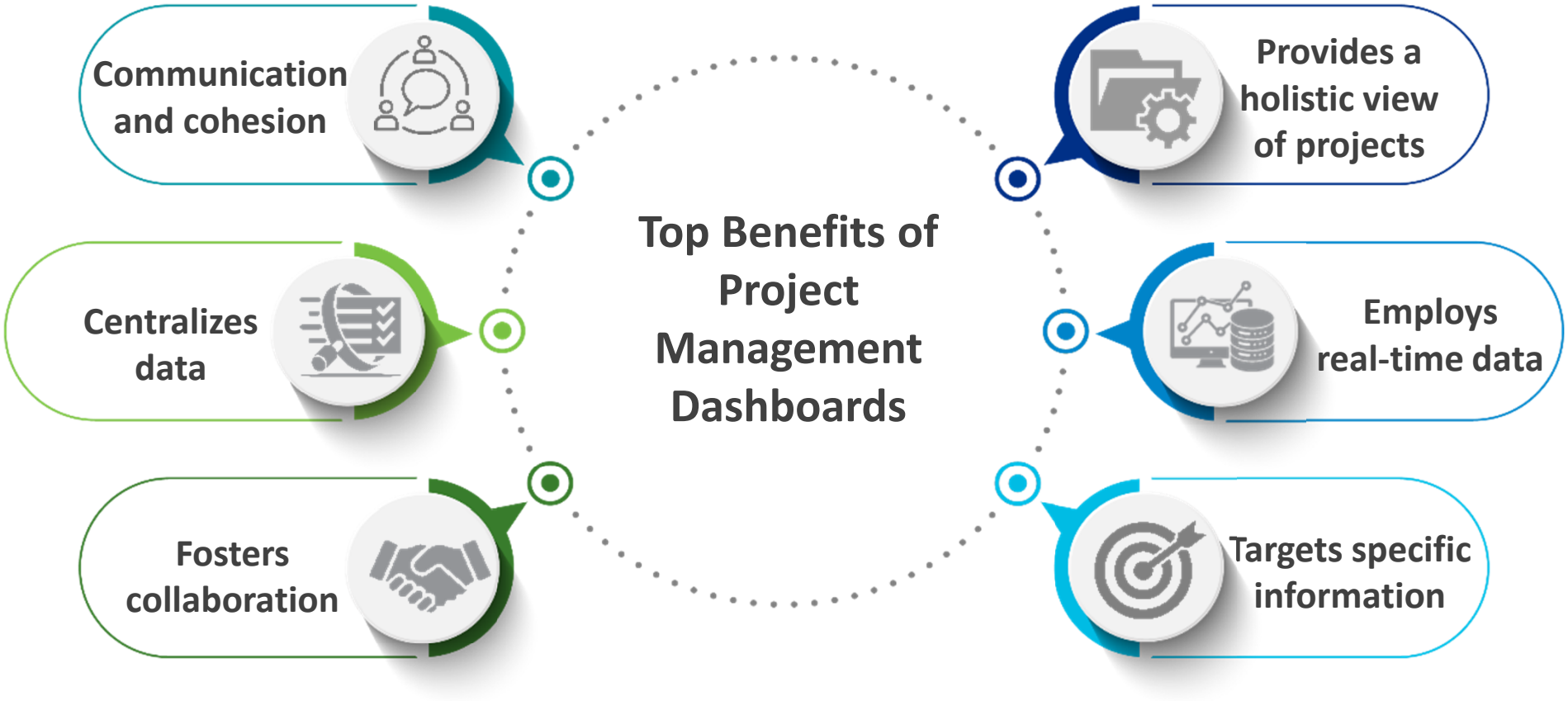
- What is a Data Management Dashboard?
- Benefits of a Data Management Dashboard
- Considerations when Developing Dashboards
- Project Examples
- Linking It All Together
- Q&A / Discussion

What Is a Data Management Dashboard?

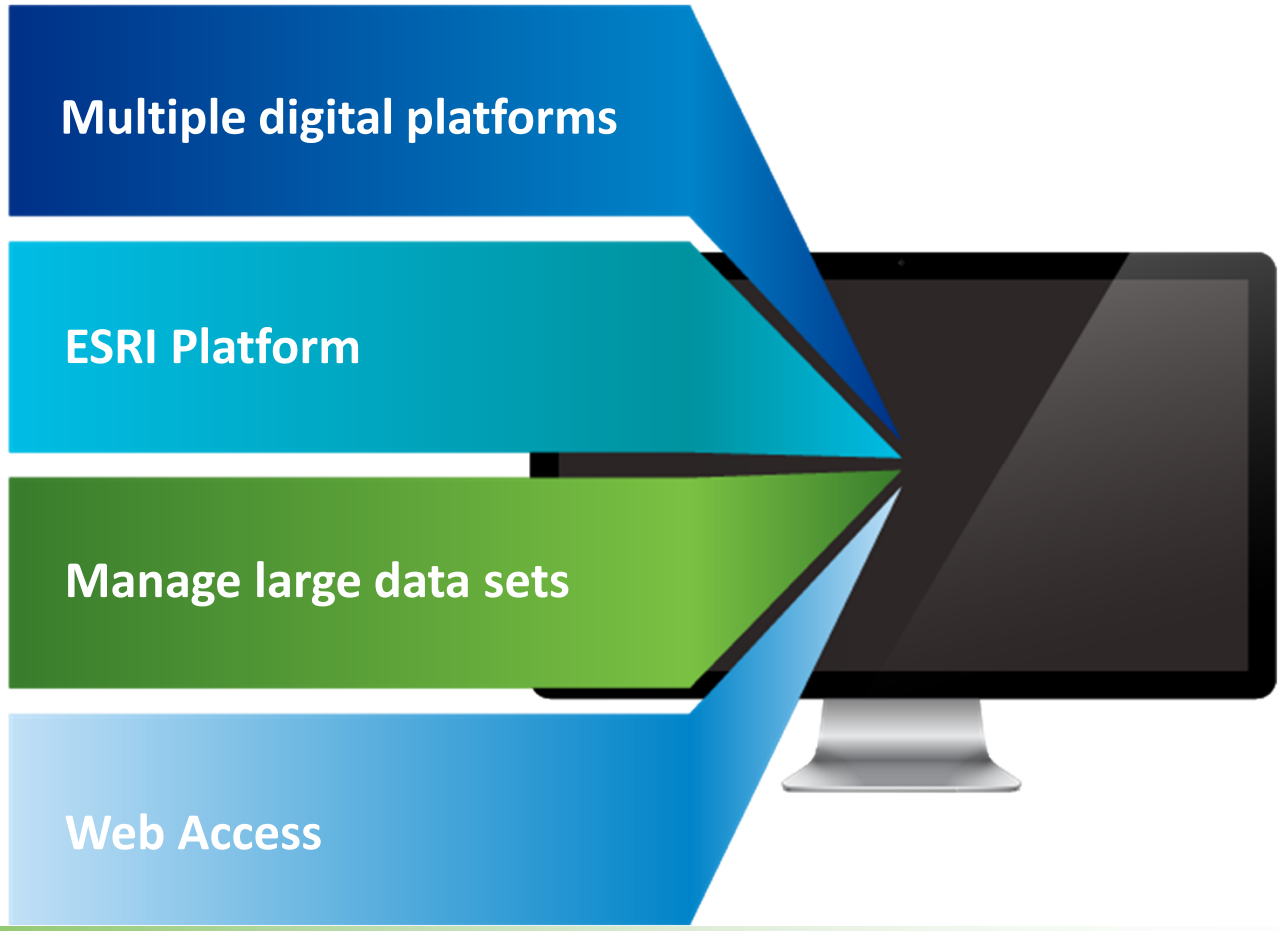
A digital platform that presents a large amount of data as an interactive visualization tool on a single screen.

- Real-time project updates
- 24/7 information
- Schedules
- Budgets
- Online mapping
- Document retention
- Visualize trends

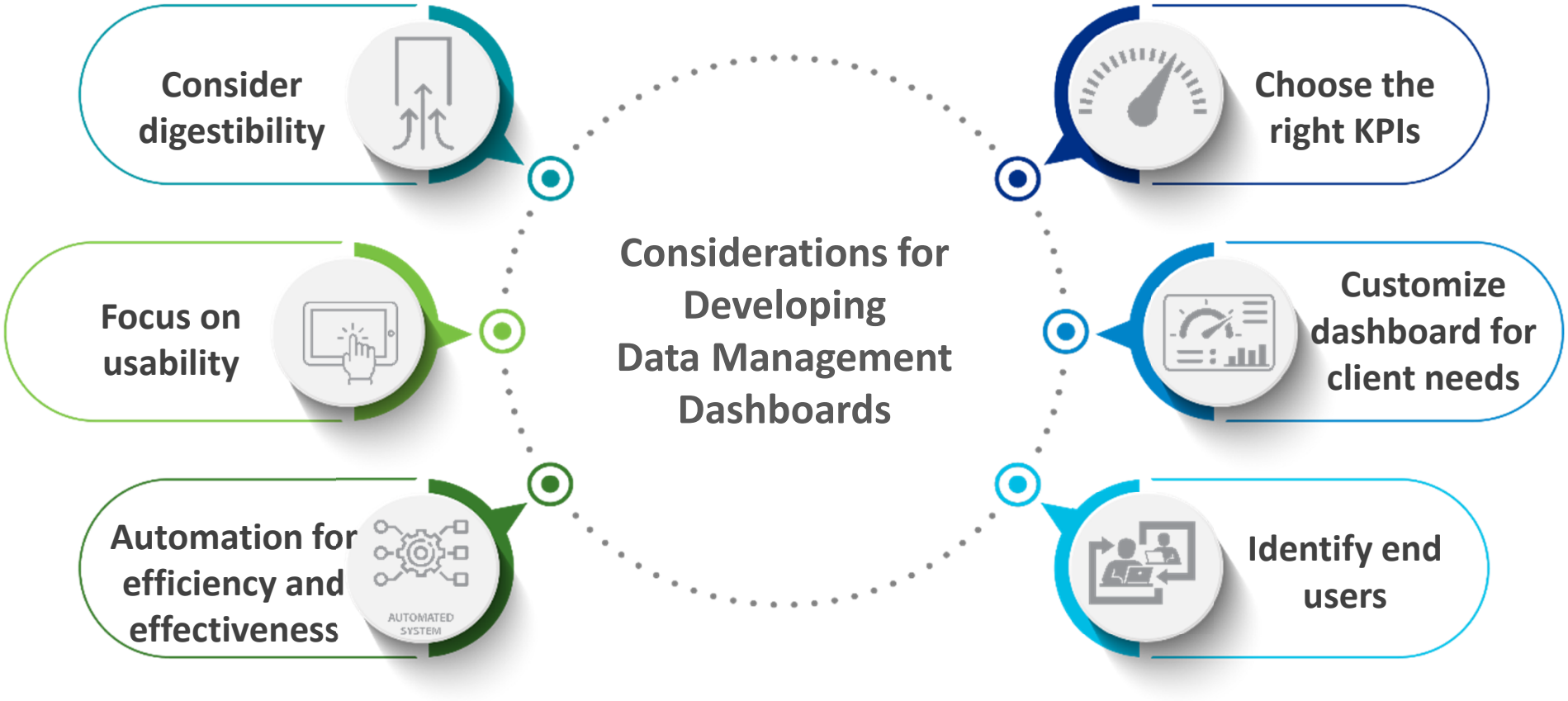
Benefits of Project Management Dashboards



Technical Benefits of Data Management Dashboards



Considerations for Developing Dashboards



Case Studies – Dashboard Examples

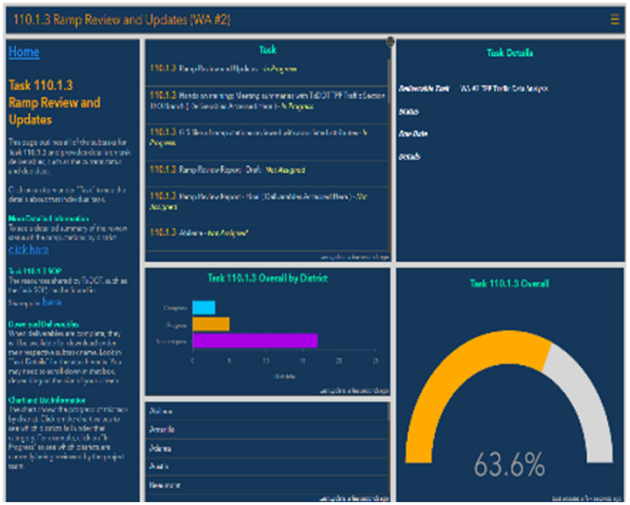
Transportation Planning & Programming, TxDOT

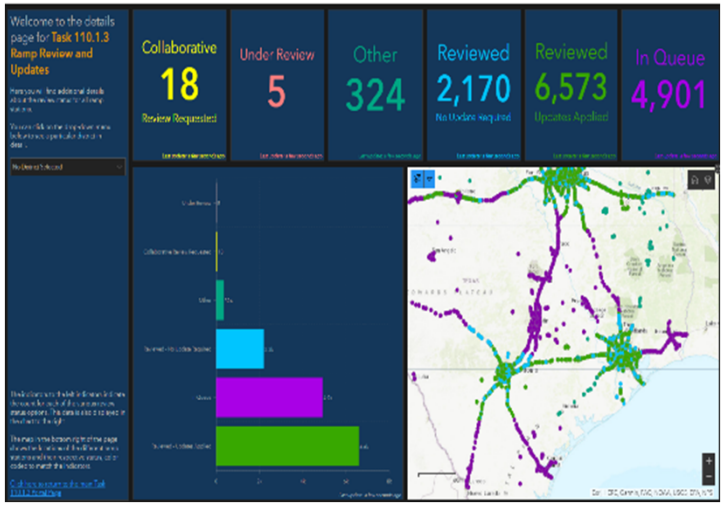
Mark Clark Expressway Supplemental EIS, SCDOT

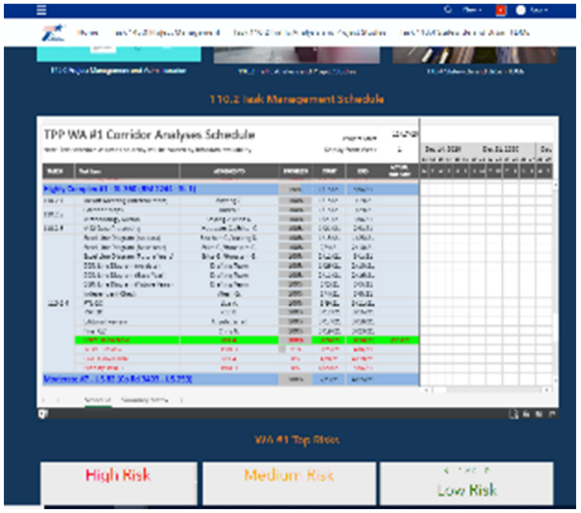
Bridge Scour Assessment and Management System, SCDOT

I 95 Section BSR PennDOT

Texas DOT Transportation Planning & Programming

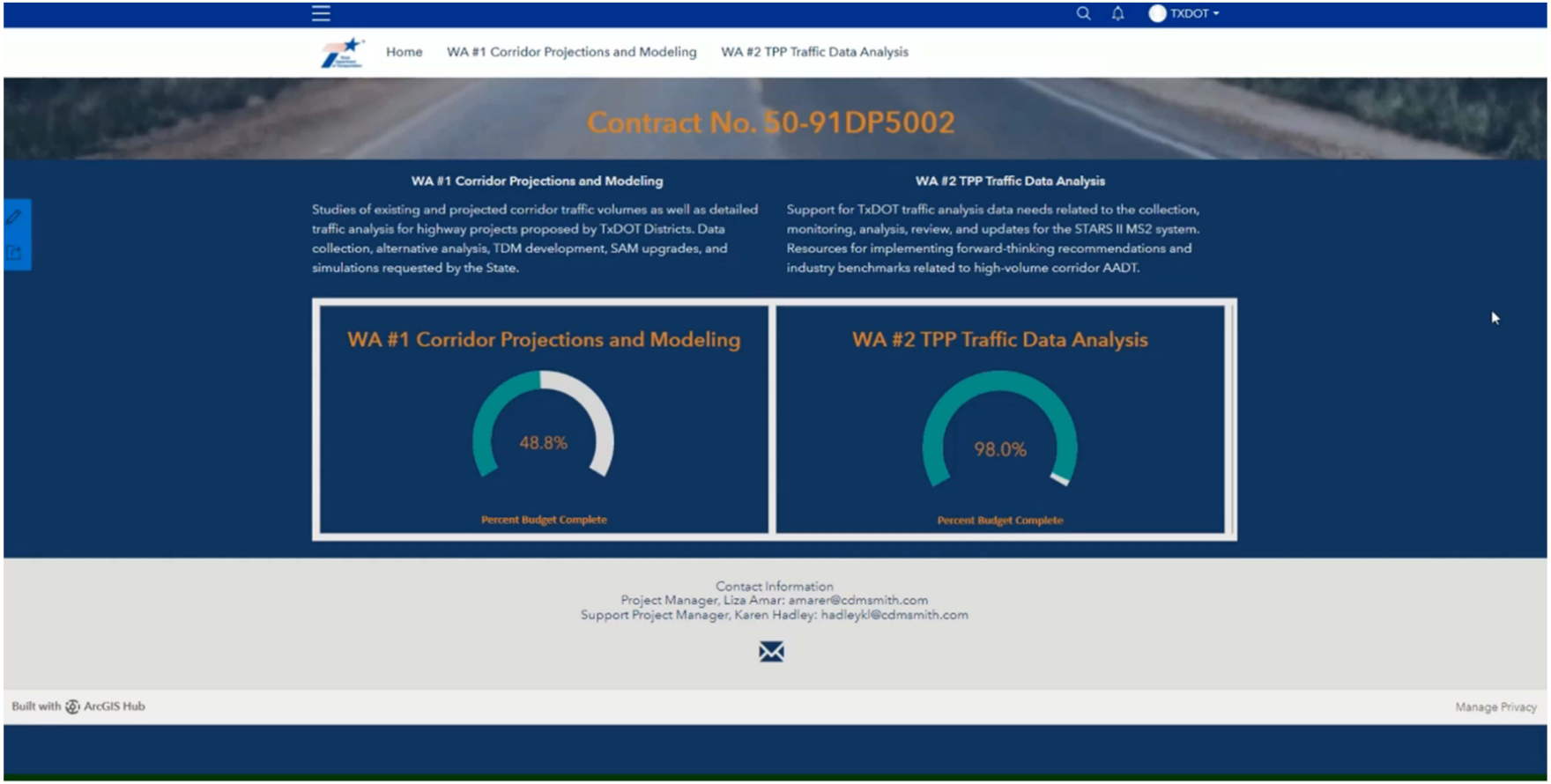






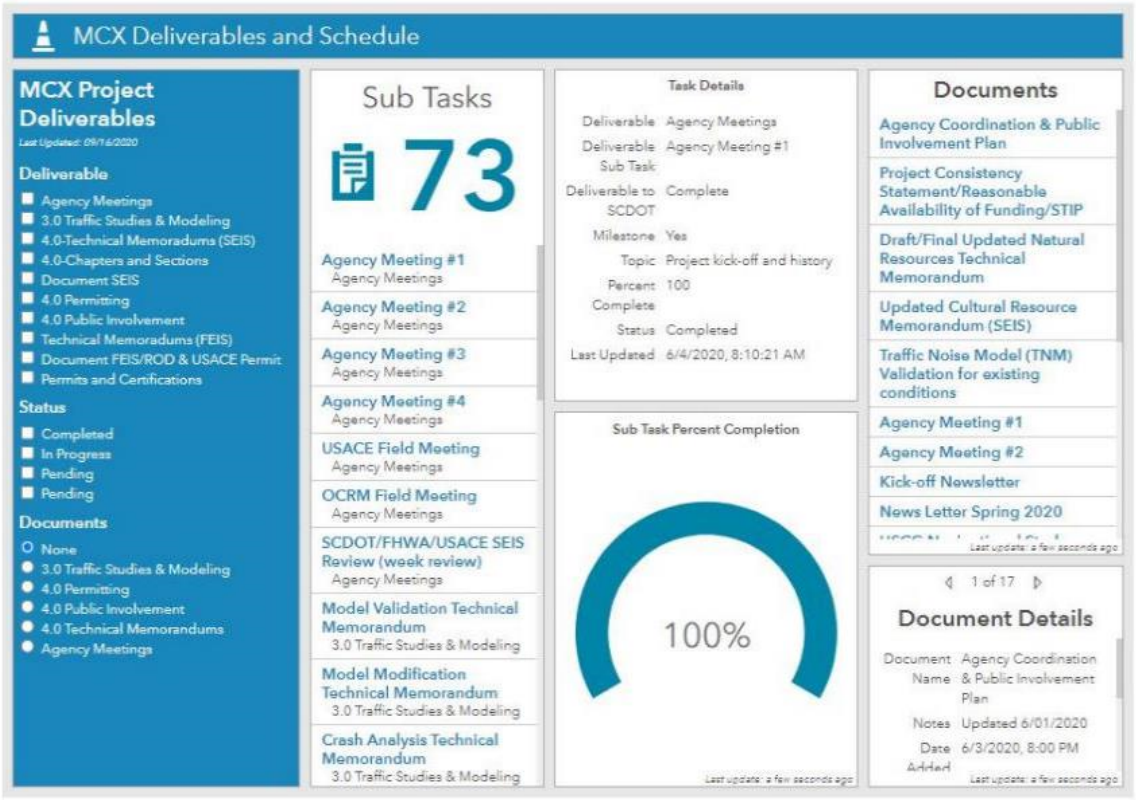
- Available online 24/7
- Up-to-date schedules, milestones, progress reports and deliverables
- Visual display of data

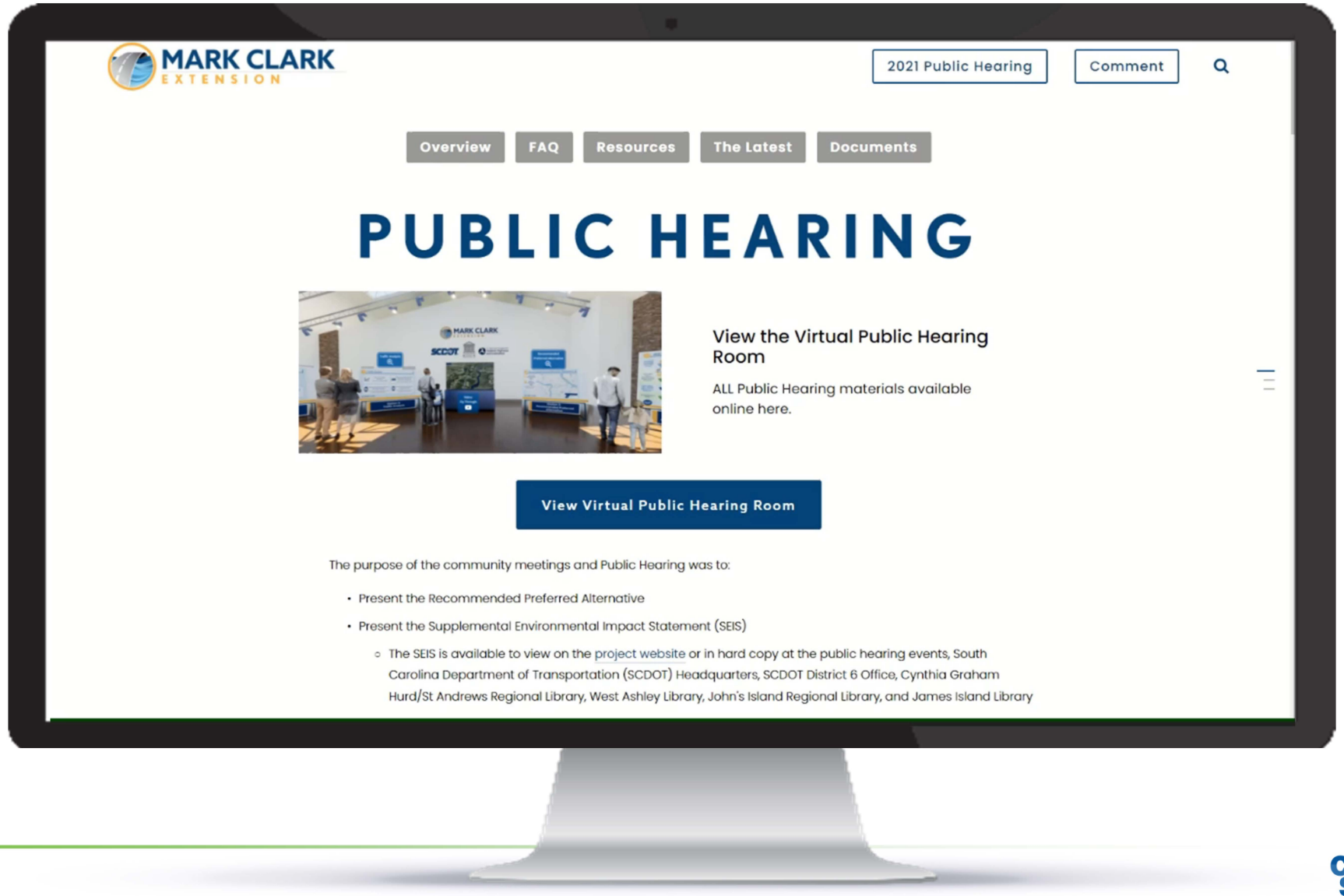
- Online mapping tools
- Project data repository and analysis


TXDOT
Home
WA #1 Corridor Projections and Modeling
WA #2 TPP Traffic Data Analysis
Contract No. 50-91DP5002
WA #1 Corridor Projections and Modeling
Studies of existing and projected corridor traffic volumes as well as detailed traffic analysis for highway projects proposed by TxDOT Districts. Data collection, alternative analysis, TDM development, SAM upgrades, and simulations requested by the State.
WA #2 TPP Traffic Data Analysis
Support for TxDOT traffic analysis data needs related to the collection, monitoring, analysis, review, and updates for the STARS II MS2 system. Resources for implementing forward-thinking recommendations and industry benchmarks related to high-volume corridor AADT.
WA #1 Corridor Projections and Modeling
48.8%
Percent Budget Complete
WA #2 TPP Traffic Data Analysis
98.0%
Percent Budget Complete
Contact Information
Project Manager, Liza Amar: amarer@cdmsmith.com
Support Project Manager, Karen Hadley: hadleykl@cdmsmith.com
Built with ArcGIS Hub
Manage Privacy

Mark Clark Extension EIS Dashboard

- Started out simple
  - Percent complete
  - Deliverables
  - Review tools




MARK CLARK
EXTENSION
2021 Public Hearing
Comment
Overview
FAQ
Resources
The Latest
Documents
PUBLIC HEARING
View the Virtual Public Hearing Room
ALL Public Hearing materials available online here.
View Virtual Public Hearing Room
The purpose of the community meetings and Public Hearing was to:
Present the Recommended Preferred Alternative
Present the Supplemental Environmental Impact Statement (SEIS)
The SEIS is available to view on the project website or in hard copy at the public hearing events, South Carolina Department of Transportation (SCDOT) Headquarters, SCDOT District 6 Office, Cynthia Graham Hurd/St Andrews Regional Library, West Ashley Library, John's Island Regional Library, and James Island Library

SEIS Public Hearing Comments

MARK CLARK EXTENSION

Themes by Count

4: Traffic	729
35: Funding/ Cost	437
39: General Environment	418
41: Timeframe	371
43: Growth/ Development	315
22: Wetlands	238
38: Infrastructure	234
37: Congestion due to Development	185
31: Transit	181
3: Preferred Alternative	156
12: Section 4(f) \ Section 6(f)	149
34: Emergency Evacuations	145
9: Relocations	143
40: Safety	135
44: Quality of Life	121
29: BikePed Lanes	107
5: Proximity	107
19: Floodplains/ Flooding	101
10: Environmental Justice	93
11: Historic Properties	93
36: Secondary Routes	90
7: Noise	86
45: End Location	70
42: Speed Limit	64
20: Terrestrial and Aquatic Habitat	57
18: Water Resources	49
15: Climate Change	45
30: Bus Lanes/ BRT	43
8: Socioeconomics	33
25: Coastal Zone	30
14: Air Quality	25

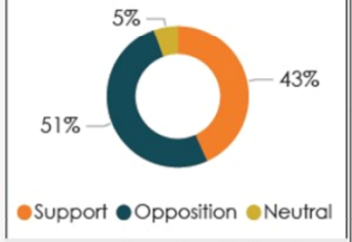
Inputs Received	Count
Public Hearing Website Form	1,179
Website Comment Form	1,084
Email	203
Letters	70
Community Meetings	47
Public Hearing Event	15
Stakeholder Letters	8
Pop-Up Events	7
Agency Letters	5
Total	**2,618**

- *During the public comment period, 2,421 individuals submitted 2,618 comments in total*

Total Comments

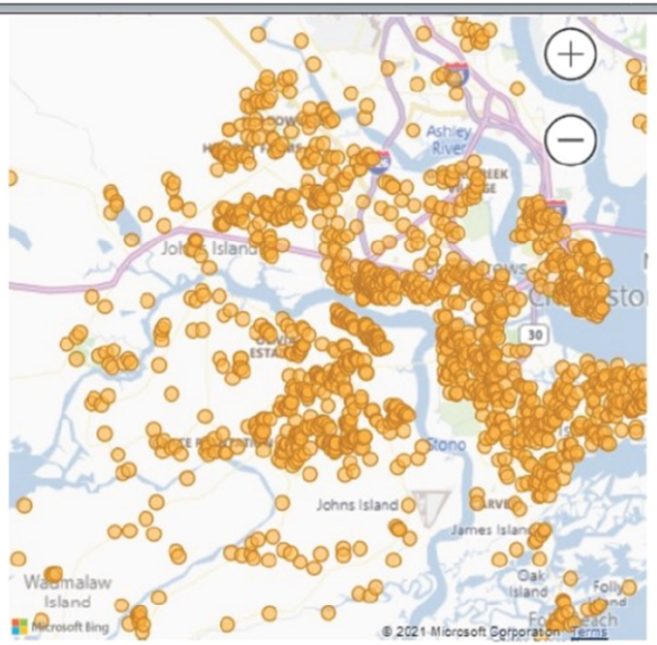
2,618

Project Sentiment

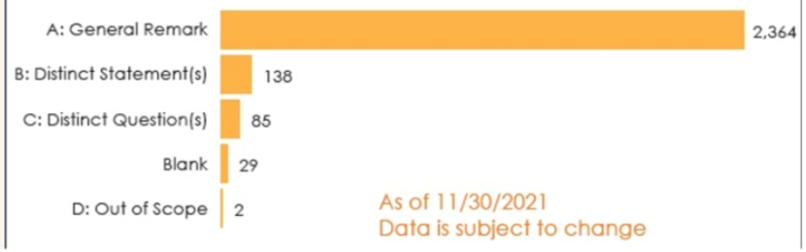


- *The percentages shown for Project Sentiment were calculated from the 2,421 individuals who submitted comments*

Project Sentiment by Area	Support	Oppose	Neutral
Overall	1,047	1,241	133
Study Area	447	339	78
Refined Study Area	86	195	50
County	895	949	105
Regional	928	986	109
In State	936	1098	110
Out of State	6	23	0

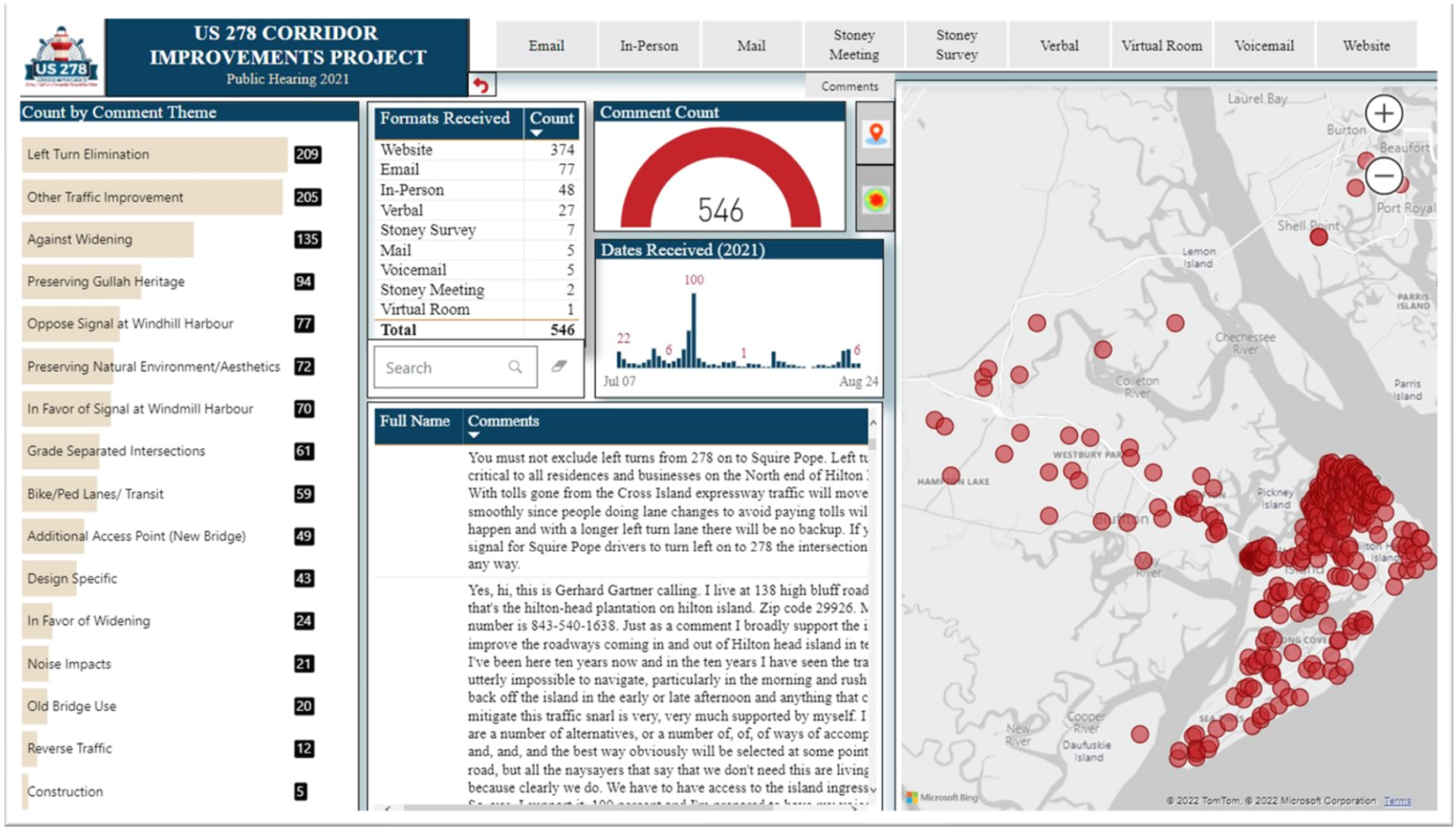


Comment Description



As of 11/30/2021
Data is subject to change

CDM Smith


US 278 CORRIDOR IMPROVEMENTS PROJECT
Public Hearing 2021
Email
In-Person
Mail
Stoney Meeting
Stoney Survey
Verbal
Virtual Room
Voicemail
Website
Comments
Count by Comment Theme
Left Turn Elimination 209
Other Traffic Improvement 205
Against Widening 135
Preserving Gullah Heritage 94
Oppose Signal at Windhill Harbour 77
Preserving Natural Environment/Aesthetics 72
In Favor of Signal at Windmill Harbour 70
Grade Separated Intersections 61
Bike/Ped Lanes/ Transit 59
Additional Access Point (New Bridge) 49
Design Specific 43
In Favor of Widening 24
Noise Impacts 21
Old Bridge Use 20
Reverse Traffic 12
Construction 5
Formats Received | Count
Website 374
Email 77
In-Person 48
Verbal 27
Stoney Survey 7
Mail 5
Voicemail 5
Stoney Meeting 2
Virtual Room 1
Total 546
Search
Comment Count
546
Dates Received (2021)
100
22
6
1
6
Jul 07
Aug 24
Full Name | Comments
You must not exclude left turns from 278 on to Squire Pope. Left tu
critical to all residences and businesses on the North end of Hilton
With tolls gone from the Cross Island expressway traffic will move
smoothly since people doing lane changes to avoid paying tolls wil
happen and with a longer left turn lane there will be no backup. If y
signal for Squire Pope drivers to turn left on to 278 the intersection
any way.
Yes, hi, this is Gerhard Gartner calling. I live at 138 high bluff road
that's the hilton-head plantation on hilton island. Zip code 29926. N
number is 843-540-1638. Just as a comment I broadly support the i
improve the roadways coming in and out of Hilton head island in te
I've been here ten years now and in the ten years I have seen the tra
utterly impossible to navigate, particularly in the morning and rush
back off the island in the early or late afternoon and anything that c
mitigate this traffic snarl is very, very much supported by myself. I
are a number of alternatives, or a number of, of, of ways of accomp
and, and, and the best way obviously will be selected at some point
road, but all the naysayers that say that we don't need this are living
because clearly we do. We have to have access to the island ingress
Laurel Bay
Burton
Beaufort
Port Royal
Shell Point
Lemon Island
PARRIS ISLAND
Chechessee River
Colleton River
Parris Island
WESTBURY PARK
HAMPTON LAKE
Pickney Island
New River
Cooper River
Daufuskie Island
Microsoft Bing
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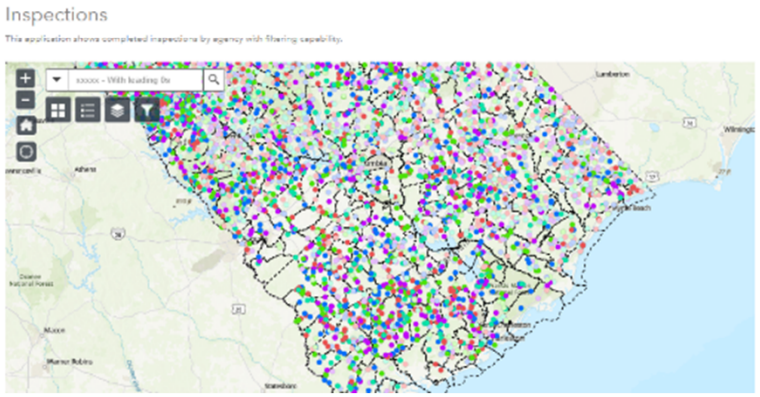
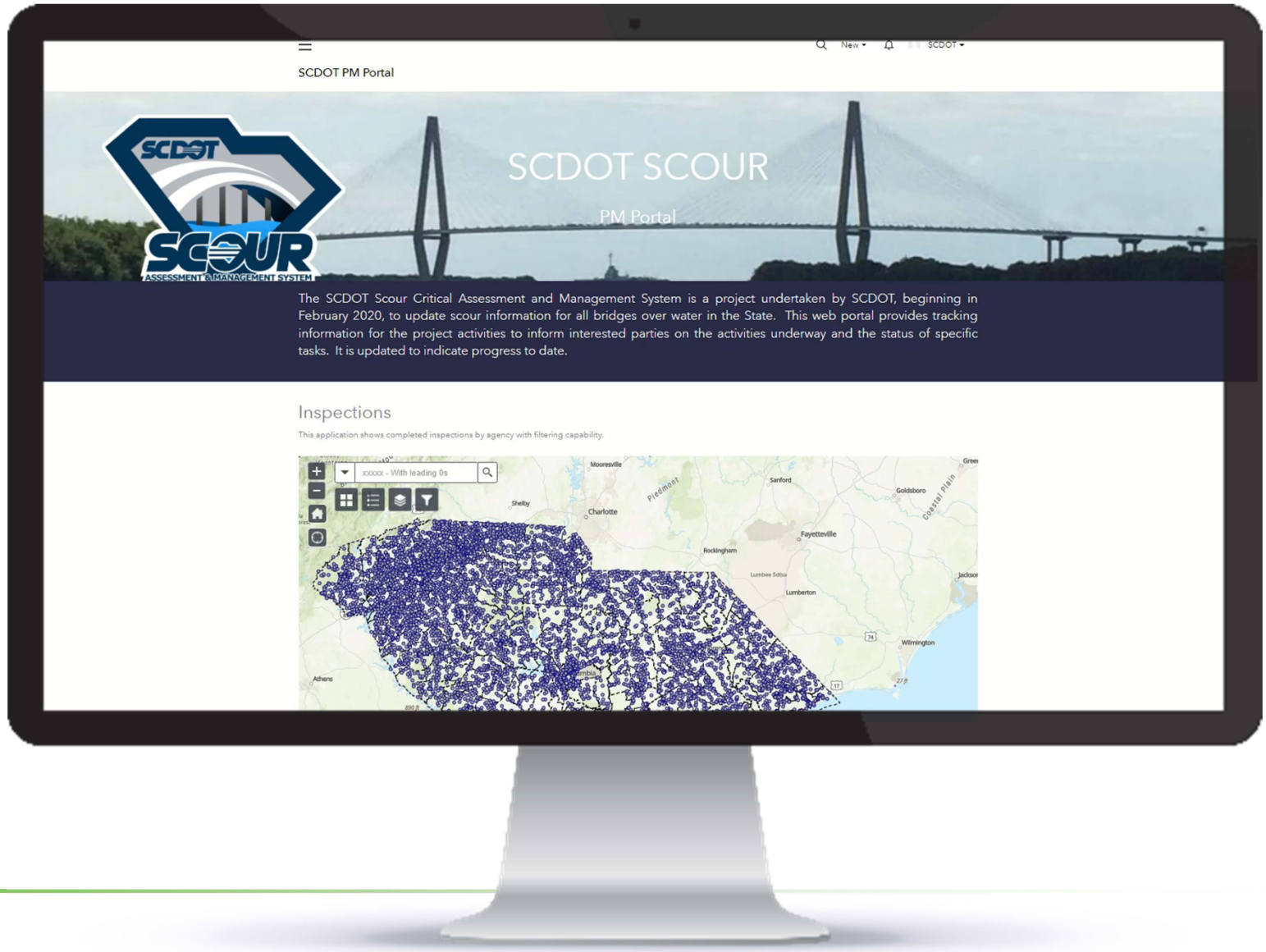
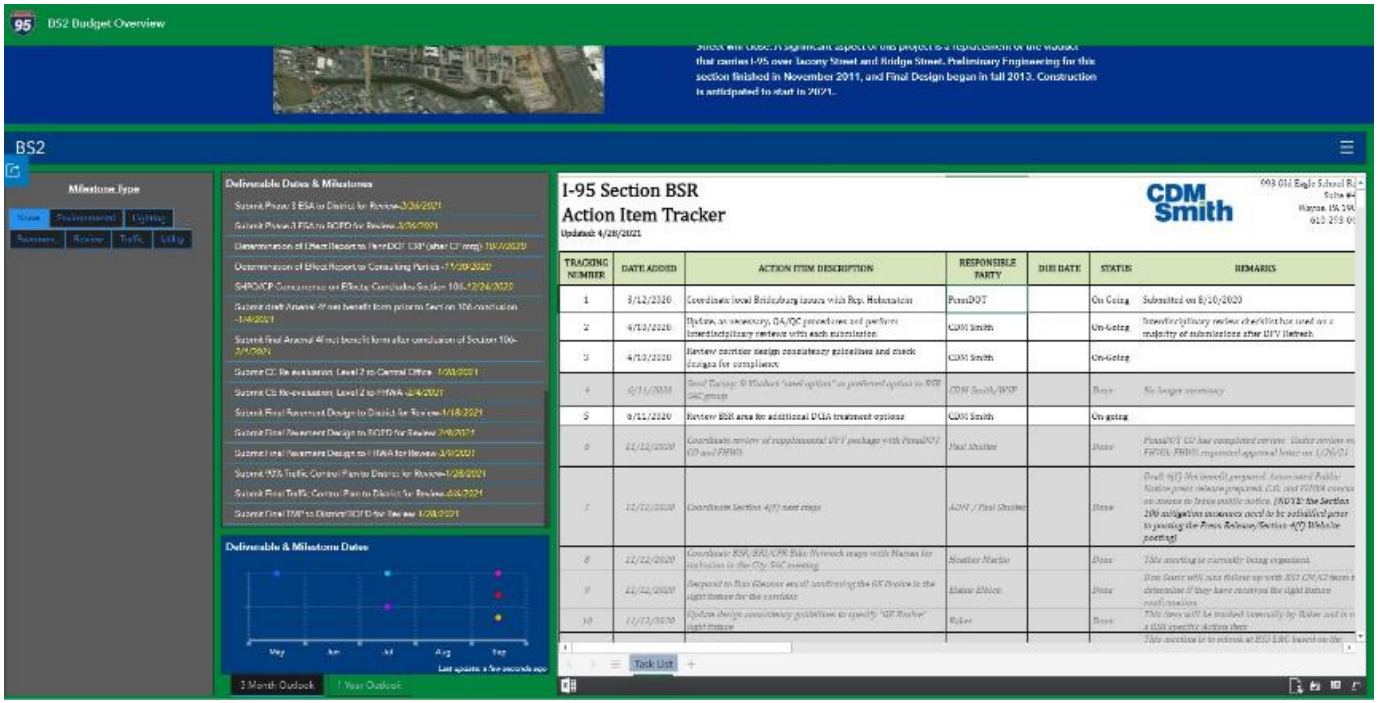
SCDOT Bridge Scour Data Management Dashboard

- Subconsultant tracking
- Document repository
- Project progression
- Data query
- Integrated Applications
  - Survey 123




SCDOT PM Portal
New
SCDOT
SCDOT SCOUR
PM Portal
SCOUR
ASSESSMENT & MANAGEMENT SYSTEM
The SCDOT Scour Critical Assessment and Management System is a project undertaken by SCDOT, beginning in February 2020, to update scour information for all bridges over water in the State. This web portal provides tracking information for the project activities to inform interested parties on the activities underway and the status of specific tasks. It is updated to indicate progress to date.
Inspections
This application shows completed inspections by agency with filtering capability.
xxxxx - With leading 0s
Mooresville
Sanford
Goldsboro
Piedmont
Coastal Plain
Shelby
Charlotte
Fayetteville
Rockingham
Lumbee Sdtsa
Lumberton
Wilmington
Athens

I-95 BSR Project Management Dashboard



- Interactive action item tracking
- Schedules
- Geocoded photologs
- Subconsultant tracking
- Document repository
- Project progression

Project Management
BSR - Bridge Street Interchange
The Reconstruction and Improvements to Interstate 95
From Lefevre/Margaret to Levick Street in Philadelphia.
BSR PROJECT DATA
Coming Soon
BS1 Rebuilding of I-95 at the the Bridge Street Interchange
BS2
BS2 Rebuild I-95 northbound and southbound north of Margaret Street
Coming Soon
BS4 Reconstruct Interchange Ramps West Of Aramingo Ave
BS5
BS5 Extension of Delaware Ave
CDM Smith
CDM Smith Team
A.D. Marble – Environmental
American Engineers Group (AEG) – Geotech – Field Work
American Geotechnical & Environmental Services, Inc. – Geotech – Reports

Bringing It All Together

Thank You!

Questions?

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