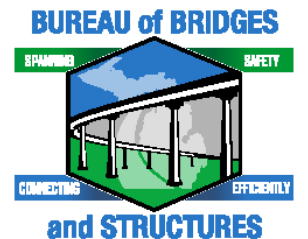


MDOT BrM Enhancement



PRESENTED BY:

JACOB ARMOUR, BRIDGE SYSTEMS ENGINEER



Development Plan



- 25 FDS's
- Dynamic Dashboards
- Audit Tables
- Data Warehouse
- Request for Action Screen/Process
- Enhanced Visual Forms Controls

Dynamic Dashboards

Structure Condition Dashboard

Jurisdiction <County/City/Region>

Structure Inventory Summary		Structure Condition Summary		NBI Condition - Goals Summary	
	Count		Count		Pct.
Total Number of Structures	10	Good (7 or Greater)	10	Good/Fair (5 or Greater)	50.0
Highway Included in the NBI	5	Highway Included in NBI	5	Freeway	75.0
Highway Structures not Included in the NBI	1	Non NBI Structures (<20, RR, Ped, etc.)	5	Non-freeway	25.0
Rail Road Structures (X)	1	Fair (5-6)	10	Poor/Serious/Critical (4 or less)	50.0
Pedestrian Structures (P)	1	Highway Included in NBI	5	Freeway	75.0
Other Non-Highway Structures (V, Plaza)	2	Non NBI Structures (<20, RR, Ped, etc.)	5	Non-freeway	25.0
Additional Bridge Inventory Information		*Structurally Deficient NBI	1	*Good NHS Deck Area	33.3
Posted Structures	1	Poor (4)	10	*Fair NHS Deck Area	33.3
Posting Recommended Structures	1	Highway Included in NBI	5	*Poor NHS Deck Area	33.3
Closed Structures (K)	1	Non NBI Structures (<20, RR, Ped, etc.)	5	*NBI applies only to highway structures ≥ 20'	
Closed Structures (Due to Construction)	1	Serious/Critical (3 or less)	10		
Fracture Critical Structures	1	Highway Included in NBI	5		
Scour Critical Structures	1	Non NBI Structures (<20, RR, Ped, etc.)	5		
Scheduled / Under Construction (S,G)	1	Unrated Structures	10		
		Highway Included in NBI	5		
		Non NBI Structures (<20, RR, Ped, etc.)	5		

- Structure Condition, Load Rating, Asset Management
- Dropdowns to filter by Owner
- Configurable Dashboard in Visual Form Editor
 - SQL for Count
 - SQL for the Grid Layout and Bridges
 - SQL to manage Percent's

<Selected Type>

Select	Structure Number	Bridge ID	Facility Carried	Features Intersected	Structure Name	Region	NBI	Freeway	Insp.Date	Fract Crit	Scour Crit	Deck Rtg
<input type="checkbox"/>	[search]											
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Structure Name	Region	Y	Y	DATE	Y	Y	#
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Structure Name	Region	Y	Y	DATE	Y	Y	#
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Structure Name	Region	Y	Y	DATE	Y	Y	#
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Structure Name	Region	Y	Y	DATE	Y	Y	#
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Structure Name	Region	Y	Y	DATE	Y	Y	#

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Dynamic Dashboards

Request for Action Dashboard

Jurisdiction: <County/City/Region>

NBI Filter: NHS Filter:

Reviewed by: Not Reviewed

Request for Action (RFA) Summary

Request for Action (RFA) Summary	Count
Total No. of Incomplete RFAs	5
Total No. of Complete RFAs	5
RFAs Submitted by Me	5
Incomplete RFAs Assigned to Me	5
Complete RFAs Assigned to Me	5
Critical Findings	5

Priority Level

Priority Level	Count	Count	Count	Count
Level 1	5	5	5	5
Level 2	5	5	5	5
Level 3	5	5	5	5
Level 4	5	5	5	5

Intermediate Action Type

Intermediate Action Type	Complete	In Progress	Reviewed	Not Reviewed
Detailed Inspection	5	5	5	5
Damage Inspection	5	5	5	5
Scour Evaluation	5	5	5	5
Schedule Special Inspection	5	5	5	5
False Decking R&R	5	5	5	5
Load Rating	5	5	5	5
Load Reduction < 20%	5	5	5	5
Temporary Supports	5	5	5	5
PRJ Installation	5	5	5	5
Steel Repairs	5	5	5	5
Concrete Repairs	5	5	5	5
Beam End Repairs	5	5	5	5
Scour Repairs	5	5	5	5
Scale Concrete	5	5	5	5
Other Actions	5	5	5	5
Program Project	5	5	5	5
Joint Repair	5	5	5	5
Railing Repair	5	5	5	5
Sign Repair	5	5	5	5

Critical Finding Type

Critical Finding Type	Complete	Incomplete
Close Bridge	5	5
Close Lane	5	5
Close Shoulder	5	5
Load Reduction ≥ 20%	5	5

<Selected Type, Type>

Select	Structure Number	Bridge ID	Facility Carried	Features Intersected	Structure Name	RFA #	Create Date	Submitted By	Committee Review Date	Current Priority	Scheduled Repair Date
<input type="checkbox"/>	[search]										
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Structure Name	###	DATE	FirstName ###	DATE	DATE	DATE
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Structure Name	###	DATE	FirstName ###	DATE	DATE	DATE
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Structure Name	###	DATE	FirstName ###	DATE	DATE	DATE
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Structure Name	###	DATE	FirstName ###	DATE	DATE	DATE
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Structure Name	###	DATE	FirstName ###	DATE	DATE	DATE

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- Request For Action Dashboard
- Dropdowns by NBI and NHS
- Configurable Dashboard in Visual Form Editor
 - SQL for Count
 - SQL for the Grid Layout and Bridges

- Bridge Summary
- Routine
- Request for Action
- Fracture Critical
- Fatigue Sensitive
- Underwater
- Other Special
- Damage
- Scour Action Plan
- Scour Inspection
- High Flow Event
- QC Inspection
- Load Ratings

Layout:

Event Date	Event Type	Event Created By	Event Modified Date	Event Modified By	Deck Rating	Super Rating	Sub Rating	Culver Rating	Event Frequency
MM/DD/YYYY	Routine	FirstName LastName	MM/DD/YYYY	FirstName LastName	##	##	##	##	##
MM/DD/YYYY	Fracture Critical	FirstName LastName	MM/DD/YYYY	FirstName LastName					##
MM/DD/YYYY	Scour Action Plan	FirstName LastName	MM/DD/YYYY	FirstName LastName					
MM/DD/YYYY	Request for Action	FirstName LastName	MM/DD/YYYY	FirstName LastName					
MM/DD/YYYY	Routine	FirstName LastName	MM/DD/YYYY	FirstName LastName	##	##	##	##	##
MM/DD/YYYY	Load Rating	FirstName LastName	MM/DD/YYYY	FirstName LastName					##
MM/DD/YYYY	Routine	FirstName LastName	MM/DD/YYYY	FirstName LastName	##	##	##	##	##
MM/DD/YYYY	Routine	FirstName LastName	MM/DD/YYYY	FirstName LastName	##	##	##	##	##

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Layout:

Project Name				
Project 1				
Project 2				
Project 3				
Project 4				
Project 5				
Project 6				

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Bridge Summary

- New Page
- Grid Showing all Events
- Grid Showing all Frozen Projects
- Event Folder Structure

My Assignments

My Assignments Dashboard

Inspection Type	Total
All Inspections	##
Routine	##
Fracture Critical	##
Fatigue Sensitive	##
Underwater	##
Other Special	##
Damage	##
Quality Control	##

Assigned <selected type>

Inspection Summary	Prev. Year	Cur. Year
NBI Inspections Completed by Me	##	##
NBI Inspections Completed for Me	##	##
Percent Reviewed (File)	##	##
Percent Reviewed (Field)	##	##

Other Assignments	Total
Scour Action Plans	##
Load Ratings	##
Requests for Action	##
Work Recommendations	##

Unassign Documents **Map** Excel Export

Select	Structure Number	Bridge ID	Facility Carried	Features Intersected	Owner	Latitude	Longitude	Routine	Fracture Critical	Fatigue Sensitive	Underwater	Other Special	Earliest Assigned Inspection
<input type="checkbox"/>	(search)												
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Owner	#####	#####	DATE	DATE	DATE	DATE	DATE	DATE
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Owner	#####	#####	DATE	DATE	DATE	DATE	DATE	DATE
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Owner	#####	#####	DATE	DATE	DATE	DATE	DATE	DATE
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Owner	#####	#####	DATE	DATE	DATE	DATE	DATE	DATE
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Owner	#####	#####	DATE	DATE	DATE	DATE	DATE	DATE
<input type="checkbox"/>	#####	#####	Facility	Features Intersected	Owner	#####	#####	DATE	DATE	DATE	DATE	DATE	DATE

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- Lists show Events assigned logged in user
- Grid showing previous inspections by user
- Map all assigned inspections

User Management

User List							
Role:	<input type="text" value="drop down"/>	Active Status:	<input type="text" value="drop down"/>	<input type="button" value="Export"/>	<input type="button" value="Report Control"/>	<input type="button" value="Report Control"/>	
User ID	First Name	Last Name	Organization Name/Title	Phone Number	Email Address	Group Identifier	Active
<i>Search</i>	<i>Search</i>	<i>Search</i>	<i>Search</i>	<i>Search</i>	<i>Search</i>	<i>Search</i>	<i>Search</i>
UserID123	First Name	Last Name	Organization Name or Title	###-###-####	email@email.com	BOPS	Y
UserID123	First Name	Last Name	Organization Name or Title	###-###-####	email@email.com	BOPS	Y
UserID123	First Name	Last Name	Organization Name or Title	###-###-####	email@email.com	BOPS	Y
UserID123	First Name	Last Name	Organization Name or Title	###-###-####	email@email.com	BOPS	Y
UserID123	First Name	Last Name	Organization Name or Title	###-###-####	email@email.com	BOPS	Y
UserID123	First Name	Last Name	Organization Name or Title	###-###-####	email@email.com	BOPS	Y
UserID123	First Name	Last Name	Organization Name or Title	###-###-####	email@email.com	BOPS	Y
UserID123	First Name	Last Name	Organization Name or Title	###-###-####	email@email.com	BOPS	Y

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Questions

