



BrM 5.2.3 Optimization

Network Optimization

Inspection

Inspector
Recommendation


Reverse Calculation

Network Programs

Program
Optimization

Scenarios

Dashboards

 USER, PONTIS



- BRIDGES
- REPORTS
- ADMIN
- INSPECTION
- CONDITION
- NEW INSPECTION
- APPRAISAL
- INVENTORY
- SCHEDULE
- WORK
- MULTIMEDIA
- ASSESSMENTS
- GATEWAY
- ANALYSIS
- PROJECTS
- PROGRAMS

Bridge

Facility Carried (007): I-84 (SR-84) EBL

Inspection: Type: Regular NBI

☐ Metric ☒ English

Condition

Condition Ratings

Deck (058):

Superstructure (059):

Substructure (060):

Channel (061):

Culvert (062):

Waterway (071):

Unrepaired Spalls: (SF)

NBI Converter Profile:

Calculate NBI

Element Conditions

- All Structures -

☒ Quantity ☐ Percent

AASHTO Bridge Elements

Add Defect

Add New Element

Edit Element

Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4
12	1	Mod. (3)	Re Concrete Deck	11906	sq.ft	6310.00	2024.00	3572.00	0.00
510	1		Wearing Surfaces	13078	sq.ft	12816.0	131.000	131.000	0.000
107	1	Mod. (3)	Steel Opn Girder/Beam	1414	ft	849.000	565.000	0.000	0.000
515	1		Steel Protective Coating	17724	sq.ft	0.000	0.000	0.000	17724.0
205	1	Low (2)	Re Conc Column	9	each	4.000	0.000	5.000	0.000
215	1	Low (2)	Re Conc Abutment	123	ft	92.000	31.000	0.000	0.000
234	1	Low (2)	Re Conc Pier Cap	173	ft	173.000	0.000	0.000	0.000
300	1	Mod. (3)	Strip Seal Exp Joint	65	ft	0.000	65.000	0.000	0.000
311	1	Low (2)	Moveable Bearing	20	each	10.000	10.000	0.000	0.000
313	1	Low (2)	Fixed Bearing	5	each	0.000	5.000	0.000	0.000
321	1	Mod. (3)	Re Conc Approach Slab	2022	sq.ft	0.000	2022.00	0.000	0.000
331	1	Mod. (3)	Re Conc Bridge Railing	627	ft	0.000	0.000	627.000	0.000

Inspection Notes



Inspection

Inspector
Recommendation

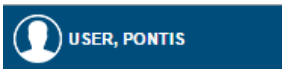
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WORK CANDIDATES

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Bridge 2C 475

Facility Carried (007): I-84 (SR-84) EBL

Inspection: 2014-08-01 (EEUF) Type: Regular NBI

Metric English

Work Candidates

Work

Add New

Show All Show Open

Candidate ID	Action	Date Recommended	Target Year	Estimated Cost	Status	Work Assignment	Priority	Structure Unit	Date Completed	Description
5F0C572-241A-031116-9910EEA44B	Paint-Structural	8/12/2014	2016		Unknown	0	Medium	Structure Unit / Type = M		

Type of Work

Candidate ID: 5F0C572-241A-031116-9910EEA44B

Structure Unit: Structure Unit / Type = M

Action: Paint-Structural

Date Recommended: 8/12/2014

Priority: Medium

Date Completed:

Target Year: 2016

Assigned: No

Work Assignment: Agency

Status: Unknown

Work Estimates

Estimated Quantity:

Cost per unit:

Calculate

Estimated Cost (\$):

Generated by user "pontis" on 3/11/2016

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REVERSE CALCULATION
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Bridge: 2C 475 Name: Facility Carried (007): I-84 (SR-84) EBL Feature Intersected (006A): I-80 (SR-80) EBL & W Metric English

Bridge Analysis

Sel.	Work Candidate	Action	Base Utility	Utility (Change)	Condition (Change)	Mobility (Change)	Cost	Benefit / Cost (\$k)	Cost (\$k) / Benefit	Target Year	Repeat Interval
	Selected Work Candidates		40.4	40.40 (0.00)	56.12 (0.00)	18.24 (0.00)	\$40,000			2018	
<input checked="" type="checkbox"/>	5F0C572-241A-031116-9C5D480237	Paint-Structural	40.4	40.40 (0.00)	56.12 (0.00)	18.24 (0.00)	\$40,000			2018	30

1

Page size: 101 items in 1 pages

Add to New ProjectAdd New Group

General Chart

Element Chart

Effects on Each Element

Year: 2018 (4 years after inspection)
Show Changed: ☐

Element	Str. Unit	Env.	Quantity	Units	Condition	Effect
(12) Re Concrete Deck	1.0	Mod.(3.0)	11,906.00	sq.ft	<div></div>	<div></div>
(107) Steel Opn Girder/Beam	1.0	Mod.(3.0)	1,414.00	ft	<div></div>	<div></div>
(515) Steel Protective Coating	1.0		17,724.00	ft	<div></div>	<div></div>
(205) Re Conc Column	1.0	Low(2.0)	9.00	each	<div></div>	<div></div>
(215) Re Conc Abutment	1.0	Low(2.0)	123.00	ft	<div></div>	<div></div>
(234) Re Conc Pier Cap	1.0	Low(2.0)	173.00	ft	<div></div>	<div></div>
(300) Strip Seal Exp Joint	1.0	Mod.(3.0)	65.00	ft	<div></div>	<div></div>
(311) Moveable Bearing	1.0	Low(2.0)	20.00	each	<div></div>	<div></div>
(313) Fixed Bearing	1.0	Low(2.0)	5.00	each	<div></div>	<div></div>
(321) Re Conc Approach Slab	1.0	Mod.(3.0)	2,022.00	sq.ft	<div></div>	<div></div>
(331) Re Conc Bridge Railing	1.0	Mod.(3.0)	627.00	ft	<div></div>	<div></div>

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Bridge2C 475

Name: _

Facility Carried (007): I-84 (SR-84) EBL

Feature Intersected (006A): I-80 (SR-80) EBL & W

MetricEnglish

Reverse Calculation

Sel.	Action	Base Utility	Utility (Change)	Condition (Change)	Mobility (Change)	Cost	Benefit / Cost (\$)	Cost (\$)/ Benefit	Target Year	Repeat Interval
	Selected Actions	44.94	52.46 (7.52)	76.74 (12.86)	18.24 (0.00)		\$68,324	.1101	\$9	2016
<input type="checkbox"/>	Paint-Structural	44.94	44.94 (0.00)	63.88 (0.00)	18.24 (0.00)	\$602,616			2016	
<input checked="" type="checkbox"/>	Joints-Rehabilitate	44.94	50.09 (5.15)	72.70 (8.82)	18.24 (0.00)	\$4,355	1.1825	\$1	2016	
<input checked="" type="checkbox"/>	Deck-Place Overlay	44.94	47.11 (2.17)	67.59 (3.71)	18.24 (0.00)	\$20,079	.1081	\$9	2016	
<input type="checkbox"/>	Bridge-Rehab	44.94	52.66 (7.72)	77.08 (13.20)	18.24 (0.00)	\$182,067	.0424	\$24	2016	
<input type="checkbox"/>	Deck-Rehab	44.94	45.44 (0.50)	64.75 (0.87)	18.24 (0.00)	\$73,602	.0068	\$147	2016	
<input type="checkbox"/>	Substructure-Rehab	44.94	45.13 (0.19)	64.22 (0.34)	18.24 (0.00)	\$40,219	.0047	\$212	2016	
<input checked="" type="checkbox"/>	Bridge Rail-Repair	44.94	45.13 (0.19)	64.21 (0.33)	18.24 (0.00)	\$43,890	.0043	\$231	2016	
<input type="checkbox"/>	Beams Rehab	44.94	45.01 (0.07)	64.01 (0.13)	18.24 (0.00)	\$320,621	.0002	\$4,580	2016	

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Page size: 10

8 items in 1 pages

Add to New Project

Add New Group

Charts

General Chart

Bridge

Health Index (%)

Year

WorkOriginal

Element Chart

(12) Re Concrete Deck

Health Index (%)

Year

WorkOriginal

Effects on Each Element

Year: 2016 (2 years after inspection)

Show Changed:

Element	Str. Unit	Env.	Quantity	Units	Condition	Effect
(12) Re Concrete Deck	1.0	Mod.(3.0)	11,906.00	sq.ft		
(107) Steel Opn Girder/Beam	1.0	Mod.(3.0)	1,414.00	ft		
(205) Re Conc Column	1.0	Low(2.0)	9.00	each		
(215) Re Conc Abutment	1.0	Low(2.0)	123.00	ft		
(234) Re Conc Pier Cap	1.0	Low(2.0)	173.00	ft		
(300) Strip Seal Exp Joint	1.0	Mod.(3.0)	65.00	ft		
(311) Moveable Bearing	1.0	Low(2.0)	20.00	each		
(313) Fixed Bearing	1.0	Low(2.0)	5.00	each		
(321) Re Conc Approach Slab	1.0	Mod.(3.0)	2,022.00	sq.ft		
(331) Re Conc Bridge Railing	1.0	Mod.(3.0)	627.00	ft		

Inspector Recommendation

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USER, PONTIS

Bridge: 2C 475 Name: - Facility Carried (007): I-84 (SR-84) EBL Feature Intersected (006A): I-80 (SR-80) EBL & W Metric English

LCCA

LCCA Activity Profile ?

Index	Date	Year	Action Name	Orig. Cost	NPV Cost	Prior Action H.I.	After Action H.I.
1	2016	2	Joints-Rehabilitate, Deck-Place Overlay, Bridge Rail-Repair	\$68,324	\$68,324	71.13	80.39
2	2018	4	Paint-Structural	\$600,000	\$554,734	76.84	76.84
3	2033	19	Beams Rehab	\$323,501	\$166,077	53.38	56.67
4	2045	31	Beams Rehab	\$302,614	\$97,034	41.01	43.78
5	2046	32	Bridge-Replacement	\$0	\$0	42.64	100.00
6	2059	45	Paint-Structural	\$460,109	\$85,198	73.66	73.66
7	2072	58	Paint-Structural	\$460,109	\$51,167	52.59	52.59
8	2080	66	Beams Rehab	\$231,992	\$18,851	42.39	45.60
9	2092	78	Beams Rehab	\$302,471	\$15,351	32.52	35.25

Remaining Life: 18 years

Page size: 10
14 items in 2 pages

Charts ?

General Chart

Bridge Health Index

Charts ?

Element Chart

Bridge Health Index

Effects on Each Element ?

Year: 2016

Element	Str. Unit	Env.	Quantity	Units	Starting Conditions	Effect	Ending Conditions
(12) Re Concrete Deck	1.0	Mod.(3.0)	11,906.00	sq.ft	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>
(107) Steel Opn Girder/Beam	1.0	Mod.(3.0)	1,414.00	ft	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>
(205) Re Conc Column	1.0	Low(2.0)	9.00	each	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>
(215) Re Conc Abutment	1.0	Low(2.0)	123.00	ft	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>
(234) Re Conc Pier Cap	1.0	Low(2.0)	173.00	ft	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>
(300) Strip Seal Exp Joint	1.0	Mod.(3.0)	65.00	ft	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>
(311) Moveable Bearing	1.0	Low(2.0)	20.00	each	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>
(313) Fixed Bearing	1.0	Low(2.0)	5.00	each	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>
(321) Re Conc Approach Slab	1.0	Mod.(3.0)	2,022.00	sq.ft	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>
(331) Re Conc Bridge Railing	1.0	Mod.(3.0)	627.00	ft	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>	<div style="width: 100%; height: 10px; background: linear-gradient(to right, green, yellow, orange, red);"></div>

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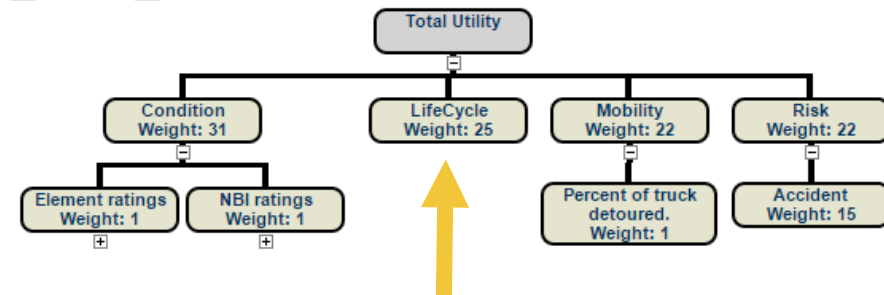
ADVANCED
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DATA DICT.

Utility

Components



Total Utility

No editable details to display.

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Network Policies

Policy Details

Policy Name:

Actions

▼ 0. Deck Rehab
(Do Nothing)

▼ 1. Super Rehab
(Do Nothing)

1.1. Sub Rehab

1.2. Sub Replace

▼ 2. Super Replace
(Do Nothing)

2.1 Sub Rehab

2.2 Sub Replace

3. Sub Rehab

4. Sub Replace

Super Rehab Details

Action:

Additional Actions:

▾ ✕

▾ ✕

▾ [Add Additional](#)

Conditional Statement

Consider this policy if:

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BrM Version 5.2.3(Alpha Build) [Build Date: Friday January 22, 2016]
<https://aashtoware.org> | [AASHTO Publications](#)

Network Policy:

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Program: Maintenance Program

Create New Program

Copy Program

Create/Edit Program

?

Performance Measures | Funding Allocation | Program Planning | Program Results | Executive Summary

Program Details

Program ID: 2235-5234-19

Program Alternate ID: 2235-5234-19

Program Start Year: 2015

Program Name: Maintenance Program

Program Status: Active

Program End Year: 2025

Program Objective: State defined objective

Program URL: http://state.dot.us/program

Program Description:

Program Notes

Program Category

Program Category: Custom Program Category

Custom Program Category Details

Eligible Project Categories: Maintenance Projects
Rehabilitate Projects
Replace Projects

Open Selected Category

Open All Categories

Utility Weights Profile

Utility Profile: Custom Utility Profile

Custom Utility Profile's Weights

Total Utility

Condition (31 → 15)

Life Cycle (25 → 35)

Mobility (22 → 10)

Risk (22 → 32)

Accident (50 → 75)

Scour (50 → 25)

Open Selected Utility Profile

Open All Utility Profiles

Program Subdivision Profile

Subdivision Profile: District + On/Off Subdivision

District + On/Off Subdivision's Segments

Table Name	Field Name
BRIDGE	DISTRICT
BRIDGE	ON_OFF_SYS

Open Selected Subdivision Profile

Open All SubdivisionProfiles

Filter Segments

DISTRICT

All

District 1

District 2

District 3

District 4

District 5

District 6

District 7

District 8

District 9

District 10

ON_OFF_SYS

All

On System

Off System

Resulting Combinations

Ind.	Segment	Nr. of Bridges
1.	District 1, On System	100
2.	District 1, Off System	50
3.	District 3, On System	50
4.	District 3, Off System	40
5.	District 10, On System	30
6.	District 10, Off System	40
Total		310

Cancel

Save & Close

Save

Delete Program

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Program: Maintenance Program

Scenario: Scenario 1

Create New Program

Copy Program

Performance Measures

Performance Measures | Funding Allocation | Program Planning | Program Results | Executive Summary

Select Performance Measures

Performance Measure	
Avg. Utility	
Avg. Health Index	X
Pct. Good/Fair	X

Add New

Performance Constraints by Segment

Segment	Avg. Utility (Max)		Avg. Health Index (Max)		Pct. Good/Fair (Max)
District 1, On System	Min: <input type="text"/>	Target: <input type="text"/>	Min: <input type="text"/> 50	Target: <input type="text"/> 75	Target: <input type="text"/> 80
District 1, Off System	Min: <input type="text"/>	Target: <input type="text"/>	Min: <input type="text"/> 50	Target: <input type="text"/> 75	Target: <input type="text"/> 85
District 3, On System	Min: <input type="text"/>	Target: <input type="text"/>	Min: <input type="text"/> 50	Target: <input type="text"/> 80	Target: <input type="text"/> 90
District 3, Off System	Min: <input type="text"/>	Target: <input type="text"/>	Min: <input type="text"/> 50	Target: <input type="text"/> 80	Target: <input type="text"/> 80
District 10, On System	Min: <input type="text"/>	Target: <input type="text"/>	Min: <input type="text"/> 50	Target: <input type="text"/> 78	Target: <input type="text"/> 90
District 10, Off System	Min: <input type="text"/>	Target: <input type="text"/>	Min: <input type="text"/> 50	Target: <input type="text"/> 80	Target: <input type="text"/> 80

Cancel

Save & Close

Save

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Program: Maintenance Program

Scenario: Default

Create New Program

Copy Program

Funding Allocation

Performance Measures | Funding Allocation | Program Planning | Program Results | Executive Summary

Funding Sources

Funding Source	Amount	Date	Notes	
Maintenance Funds	84,517,278	2015		
State Bridge Budget	84,517,278	2015		
Capital Plan	118,460,162	2016		
Capital Plan	56,406,234	2017		
Capital Plan	135,275,000	2018		
Capital Plan	130,042,073	2019		

Add New

Budget Distribution

Total Budget: \$609,268,025

	2015	2016	2017	2018	2019
Identified annual funds:	\$169,034,556	\$118,460,162	\$56,406,234	\$135,275,000	\$130,042,073
Additional funds:	10,000	10,000	10,000	10,000	10,000
Total annual budget:	\$169,044,556	\$118,470,162	\$56,416,234	\$135,285,000	\$130,052,073

Distribute

Budget distribution by program's segments:

Input method: ☐ Actual Budget Value ☒ Percentage of Annual Budget

Segment	Current Utility	Current Health Index	Current Pct. Good/Fair	Total budget per segment	Pct. overall budget	2015	2016	2017	2018	2019
District 1, On System	80	50%	50%	\$105,757,440	17%	20	20	15	15	15
District 1, Off System	82	50%	80%	\$105,757,440	17%	20	20	15	15	15
District 3, On System	65	47%	62%	\$83,510,072	14%	10	10	15	15	20
District 3, Off System	64	48%	79%	\$83,510,072	14%	10	10	15	15	20
District 10, On System	70	40%	65%	\$123,793,229	20%	25	20	20	20	15
District 10, Off System	75	42%	64%	\$106,889,774	18%	15	20	20	20	15

Cancel

Save & Close

Save

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Program: 2017 Preservation Program Scenario: Scenario 1

Create New ProgramCopy Program

Program Planning

Performance Measures | Funding Allocation | Program Planning | Program Results | Executive Summary

Optimize Program

Optimization Method: ☒ Maximize Utility ☐ Minimize Cost

Run Optimization

Keep assigned projects: ☒ Yes ☐ No

Progress: 75% Complete

Assigned Projects

Segment: District 10, On System Year: 2017

	Project Name	Project ID	Category	Automatically Generated	Cost	Utility Change	Benefit /Cost (\$k)	Cost (\$k) / Benefit	Year	Treatment	Status
<input checked="" type="checkbox"/>	PRJ - Rehab - 04 30234	2235-5234-19	Rehab	Yes	\$2,786,139	2.95	0.00106	944	2017		Proposed
<input checked="" type="checkbox"/>	PRJ - Replace - 05 30233	2235-5234-20	Replace	Yes	\$13,786,324	14.57	0.00106	946	2017	Year Frozen	Proposed
<input checked="" type="checkbox"/>	PRJ - Rehab - 04 23234	2235-5234-27	Rehab	No	\$4,786,139	7.62	0.00159	628	2017	Year Frozen	Proposed
<input checked="" type="checkbox"/>	PRJ - Rehab - 15 30234	2235-5234-30	Rehab	No	\$5,786,139	8.74	0.00151	662	2017		Proposed
<input checked="" type="checkbox"/>	PRJ - Maint - 26 30734	2235-5234-50	Maintenance	Yes	\$1,786,139	1.87	0.00104	955	2017	Program/Year Frozen	Proposed
<input checked="" type="checkbox"/>	PRJ - Replace - 27 30734	2235-5234-52	Replace	Yes	\$14,786,324	20.74	0.00140	712	2017	Program Frozen	Proposed
<input checked="" type="checkbox"/>	PRJ - Maint - 87 30734	2235-5234-62	Maintenance	Yes	\$1,986,139	2.27	0.00114	875	2017	Program Frozen	Proposed
<input checked="" type="checkbox"/>	PRJ - Maint - 50 30734	2235-5234-70	Maintenance	No	\$1,586,139	2.40	0.00151	661	2017	Program/Year Frozen	Proposed
<input checked="" type="checkbox"/>	PRJ - Rehab - 37 30734	2235-5234-80	Rehab	No	\$3,786,139	5.47	0.00144	692	2017		Proposed

Selected Projects

Assign to Program: 2017 Preservation Program

Assign to Year: 2017

Set status: Proposed

Freeze: ☒ Year ☐ Program

Cancel

Save & Close

Save

Delete Program

Inspection

Inspector
Recommendation

Reverse Calculation

Network Programs

Program
Optimization

Scenarios

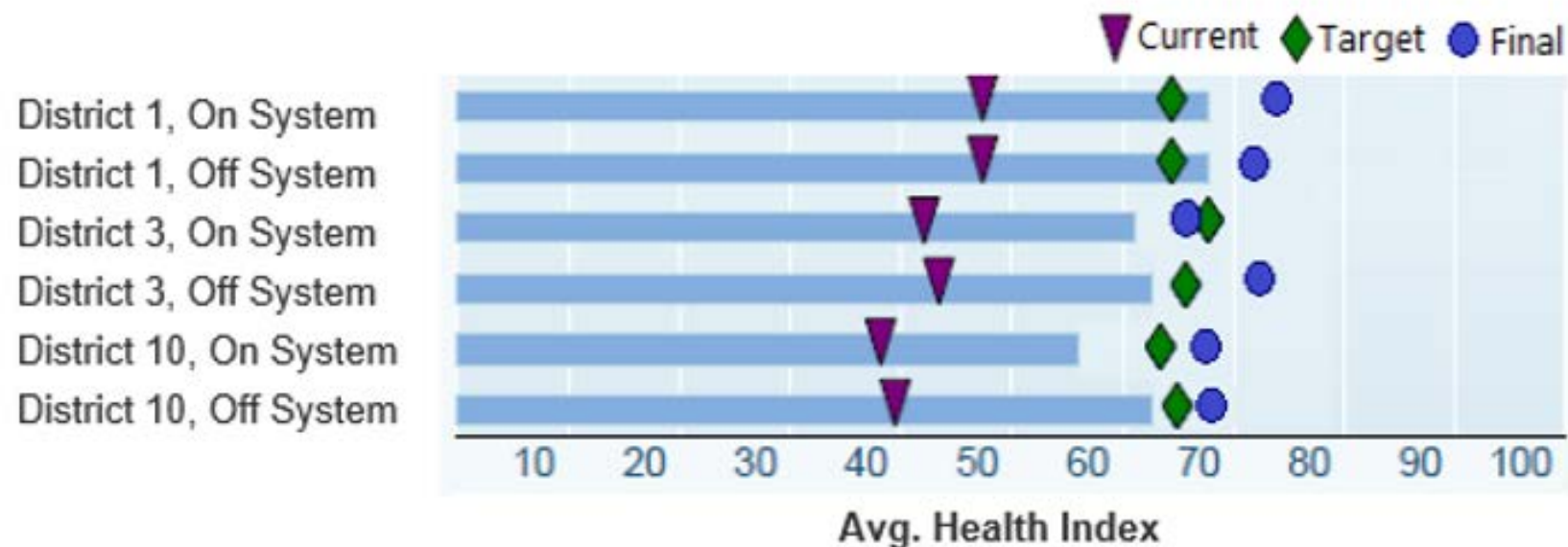
Dashboards



Future Performance by Segment

Performance : Avg. Health Inde: ▼

Year: 2017 ▼



Inspection

Inspector
Recommendation

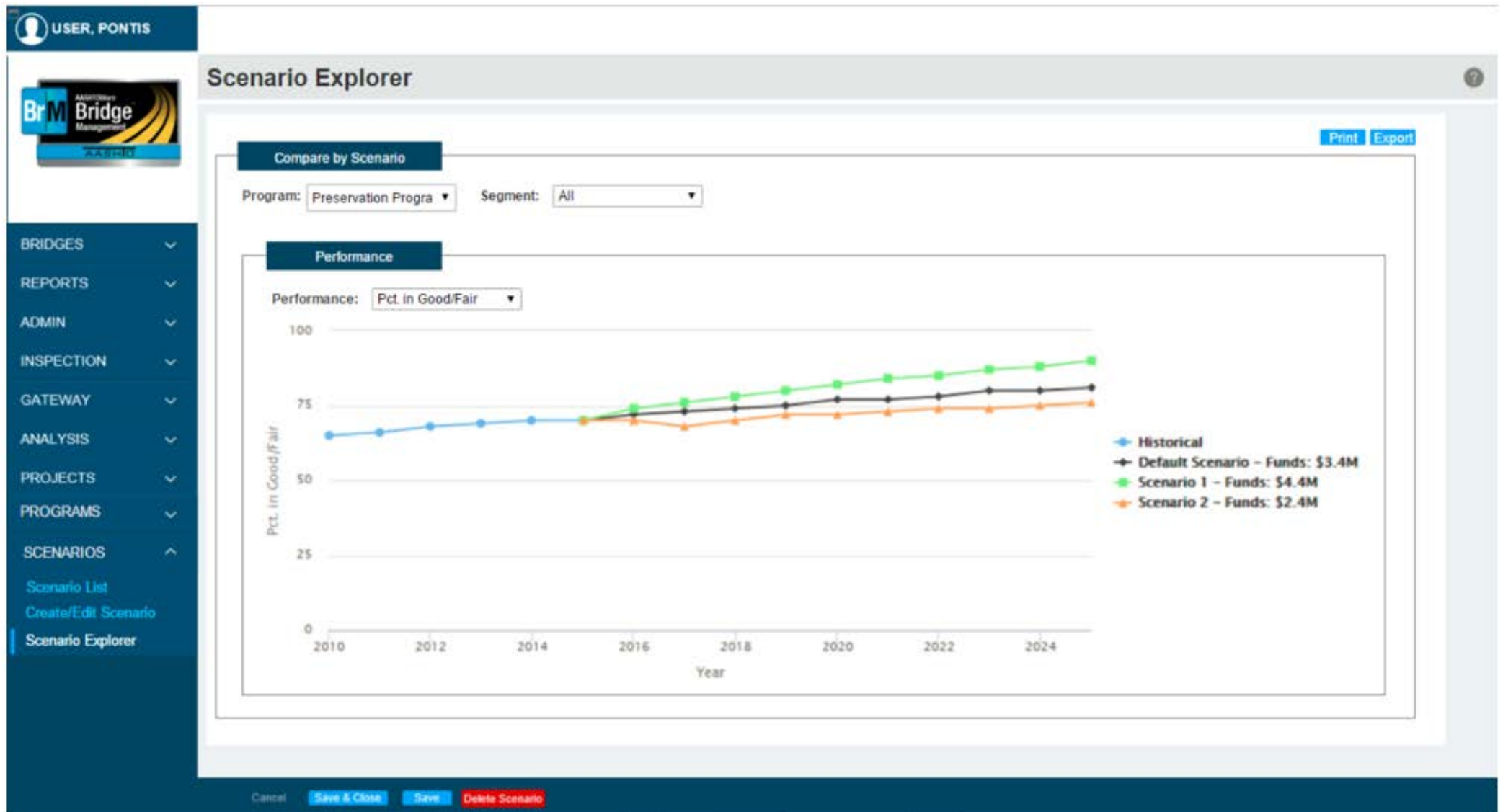
Reverse Calculation

Network Programs

Program
Optimization

Scenarios

Dashboards



Inspection

Inspector Recommendation

Reverse Calculation

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Program Optimization

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Dashboards



Inspection

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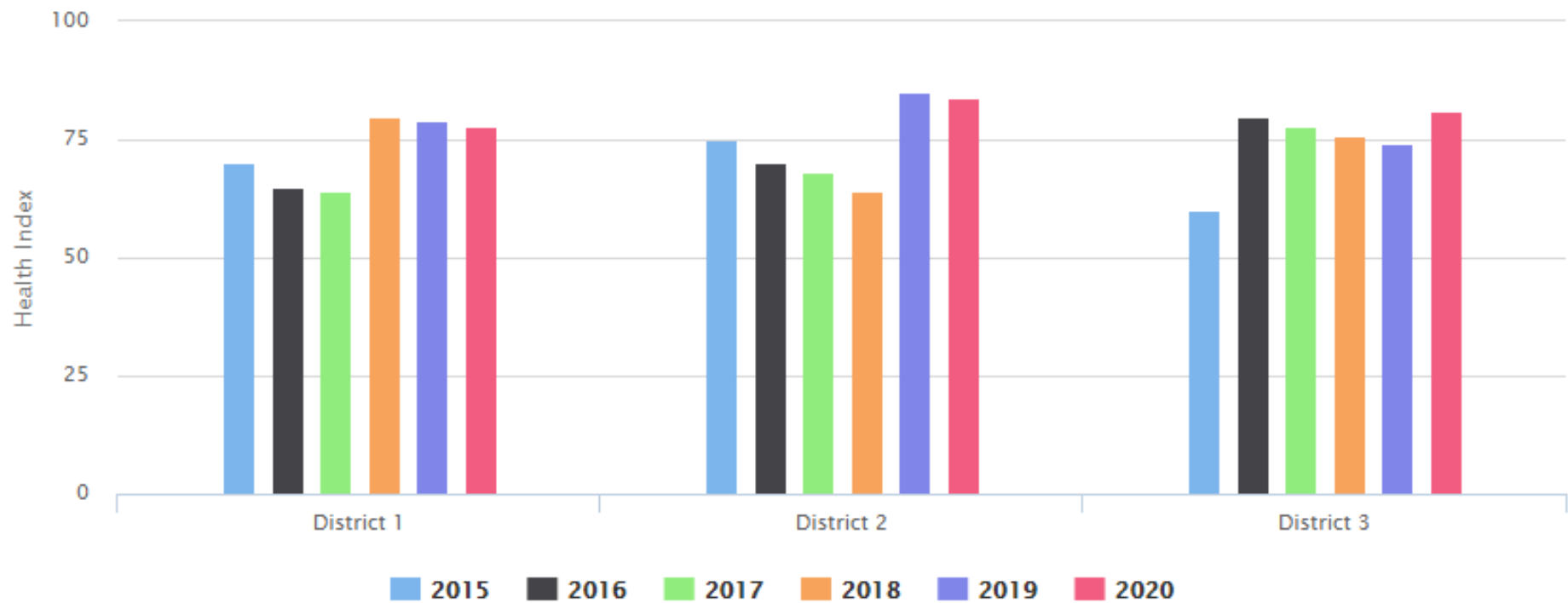
Reverse Calculation

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