





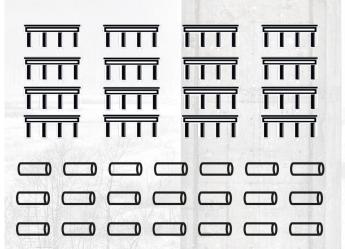


OPTIMIZER OBJECTIVES









NETWORK OF BRIDGES

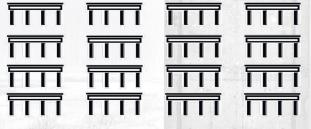


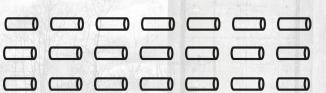
OPTIMIZER OBJECTIVES











NETWORK OF BRIDGES



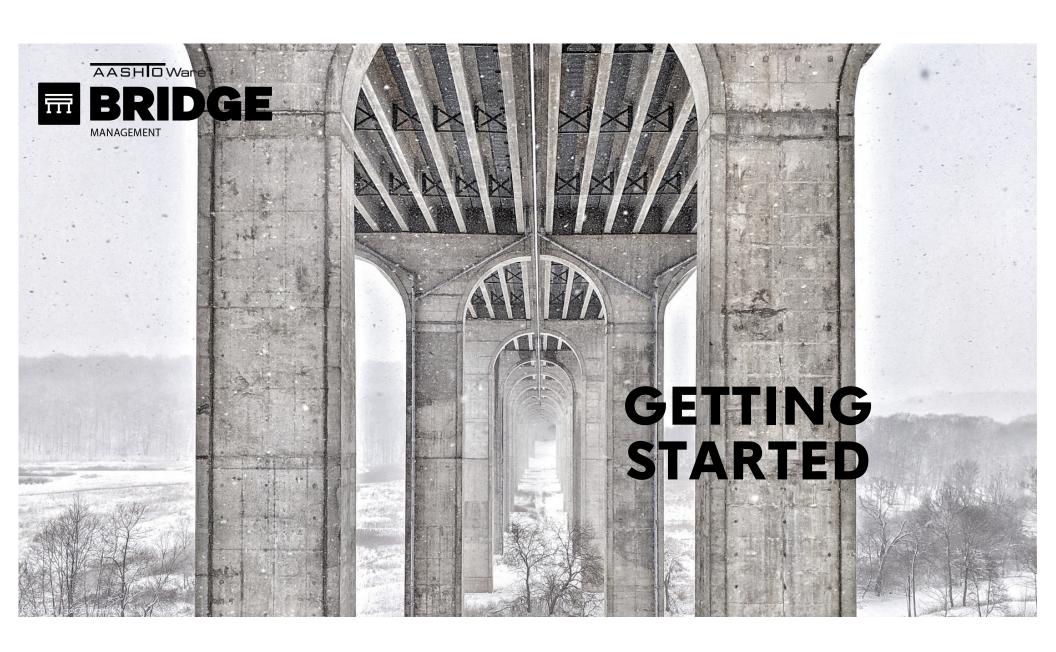
BUDGETS



FIXES



PROJECTIONS





STEP 1: GET YOUR DATA

STEP 2: REVIEW TRAINING

STEP 3: REVIEW PYRAMID



STEP 1: GET YOUR DATA

STEP 2: REVIEW TRAINING

STEP 3: REVIEW PYRAMID

INSPECT WITH AASHTOWARE





SYNC TO AASHTOWARE



DOWNLOAD FROM FHWA







STEP 1: GET YOUR DATA

STEP 2: REVIEW TRAINING

STEP 3: REVIEW PYRAMID

INSPECT WITH AASHTOWARE





SYNC TO AASHTOWARE



DOWNLOAD FROM FHWA







2018 User Group Presentations





STEP 1: GET YOUR DATA

STEP 2: REVIEW TRAINING

STEP 3: REVIEW PYRAMID

YOUTUBE

MAYVUE TRAINING PAST USER GROUP TRAINING



STEP 1: GET YOUR DATA

STEP 2: REVIEW TRAINING

STEP 3: REVIEW PYRAMID

YOUTUBE



BrM Optimizer Playlist



MAYVUE TRAINING





PAST USER GROUP TRAINING





Scenario

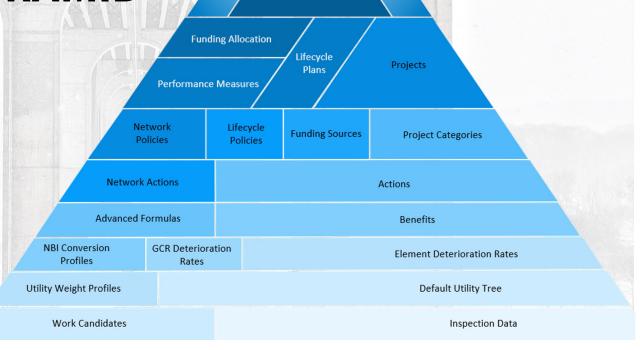
Explorer

Optimization

Programs

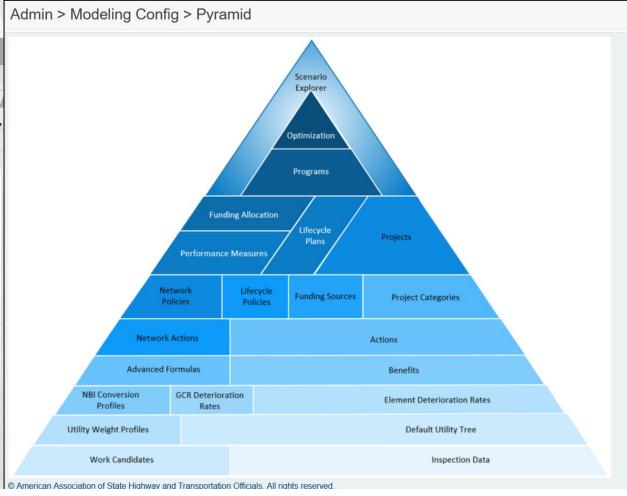
STEP 1: GET YOUR DATA STEP 2: REVIEW TRAINING

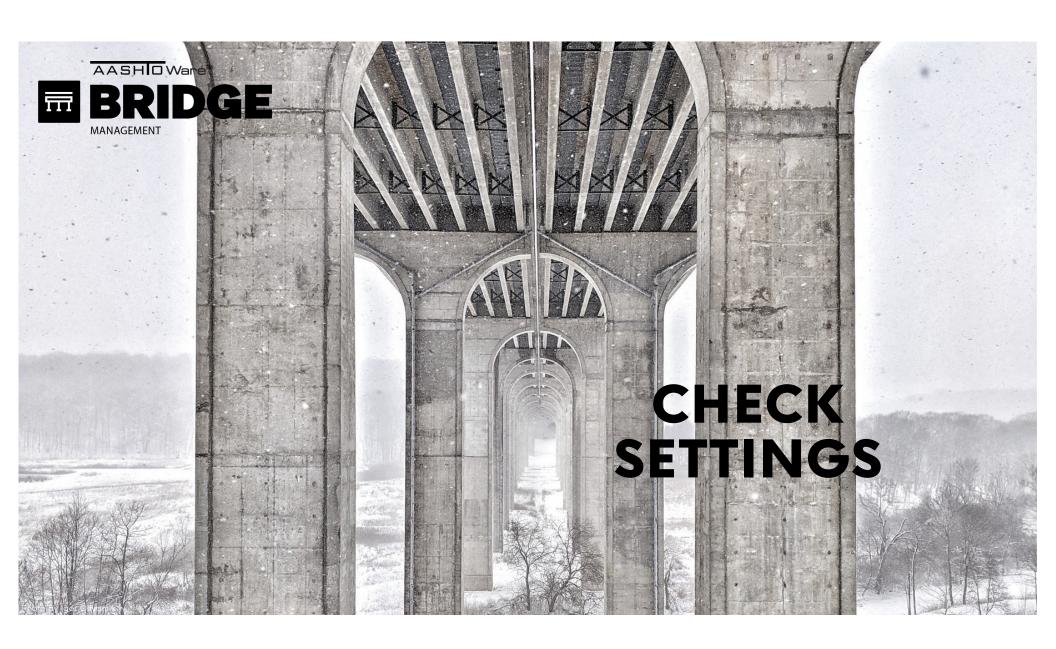
STEP 3: REVIEW PYRAMID



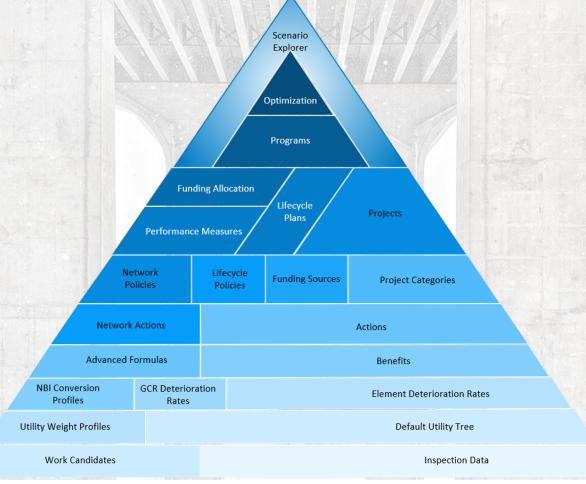


STEP 1: GET YOUR I STEP 2: REVIEW TR STEP 3: REVIEW PY

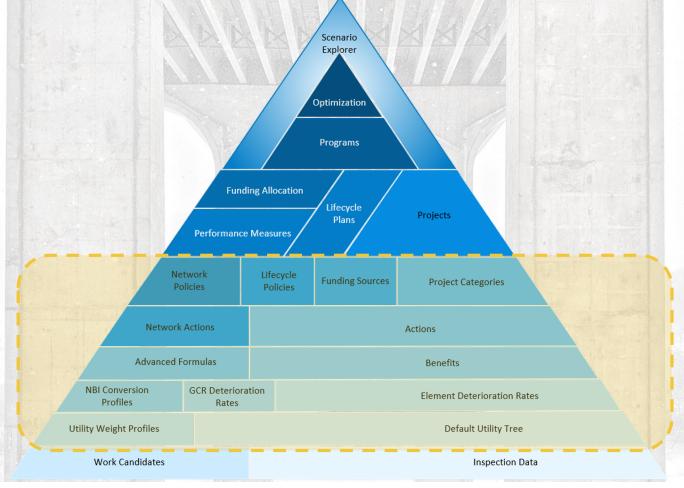




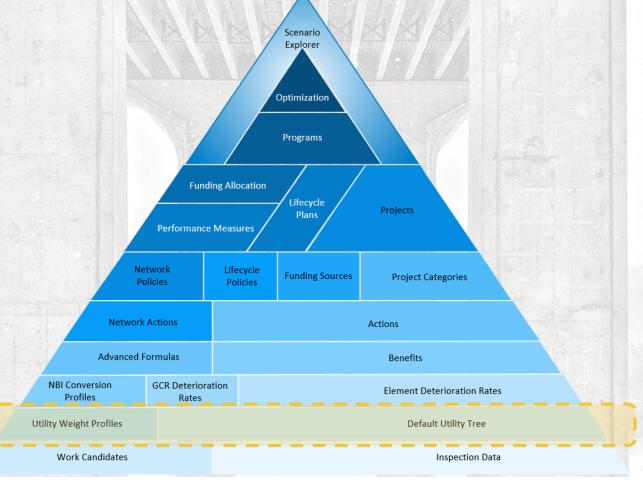




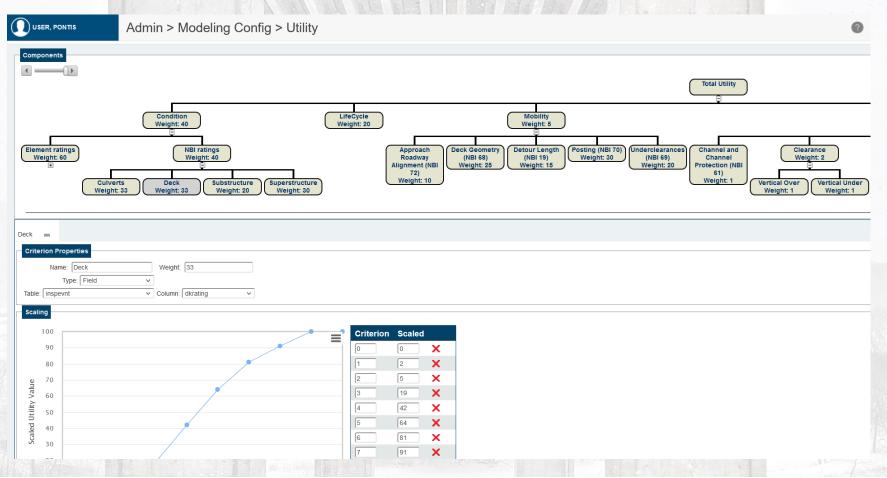




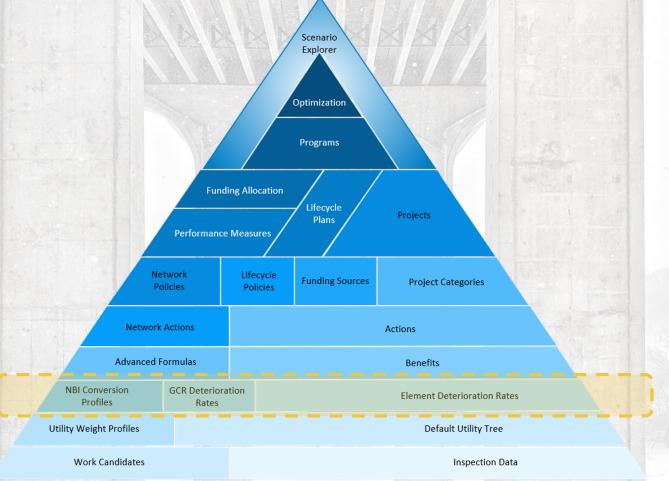






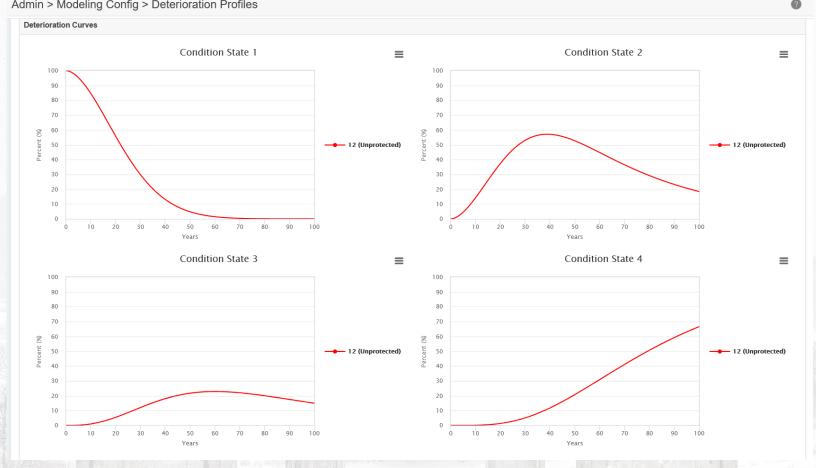




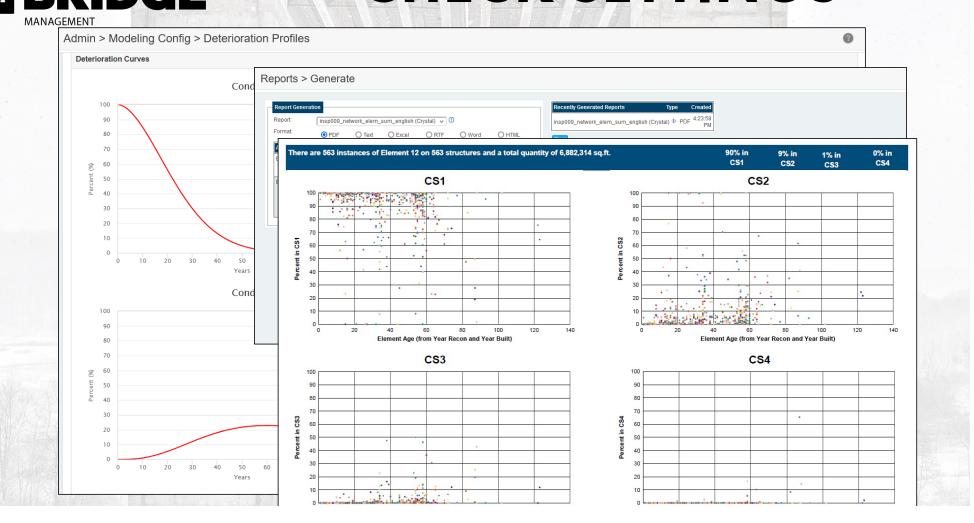




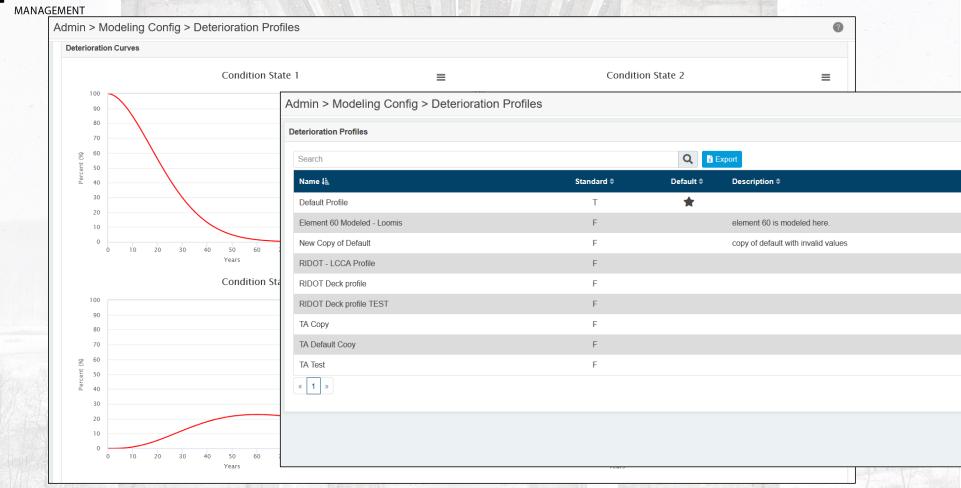
Admin > Modeling Config > Deterioration Profiles









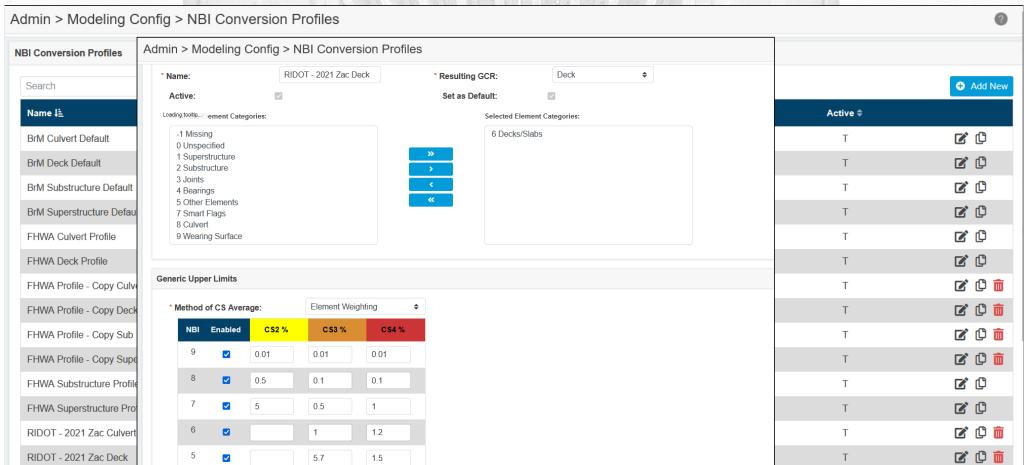




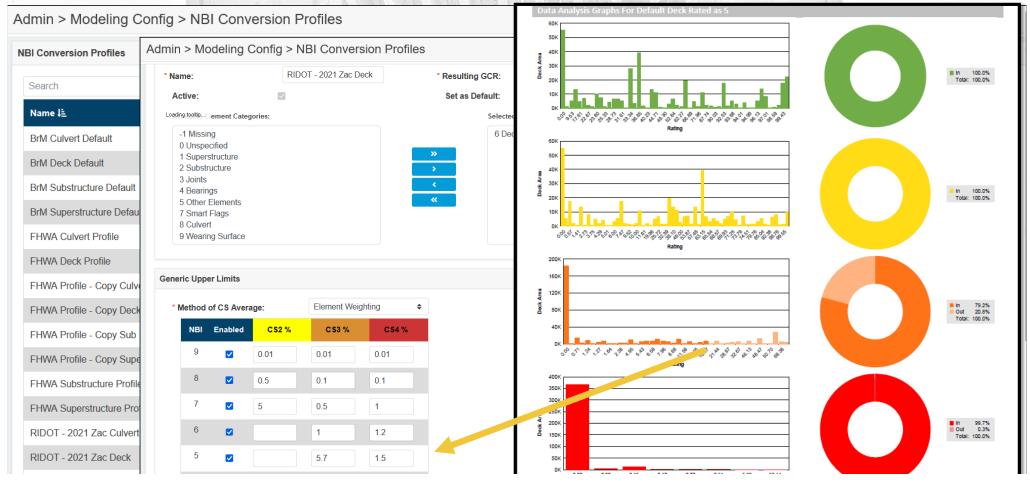
Admin > Modeling Config > NBI Conversion Profiles

SI Conversion Profiles							
Search	Q				◆ Add New		
Name J≟	Default \$	Resulting GCR \$	Standard ≑	Active \$			
BrM Culvert Default	*	Culvert	Т	Т	Z (
BrM Deck Default		Deck	Т	Т	e e		
BrM Substructure Default	*	Substructure	Т	Т	Z (
BrM Superstructure Default	*	Superstructure	Т	Т	E O		
FHWA Culvert Profile		Culvert	Т	Т	Z C		
FHWA Deck Profile		Deck	Т	Т	B G		
FHWA Profile - Copy Culvert		Culvert	F	Т	2 🖒 🛅		
FHWA Profile - Copy Deck		Deck	F	Т	2 0 💼		
FHWA Profile - Copy Sub		Substructure	F	Т	2 0 💼		
FHWA Profile - Copy Super		Superstructure	F	Т			
FHWA Substructure Profile		Substructure	Т	Т	Z C		
FHWA Superstructure Profile		Superstructure	Т	Т	Z C		
RIDOT - 2021 Zac Culvert		Culvert	F	Т	2 () ii		
RIDOT - 2021 Zac Deck	*	Deck	F	Т	2 0 💼		







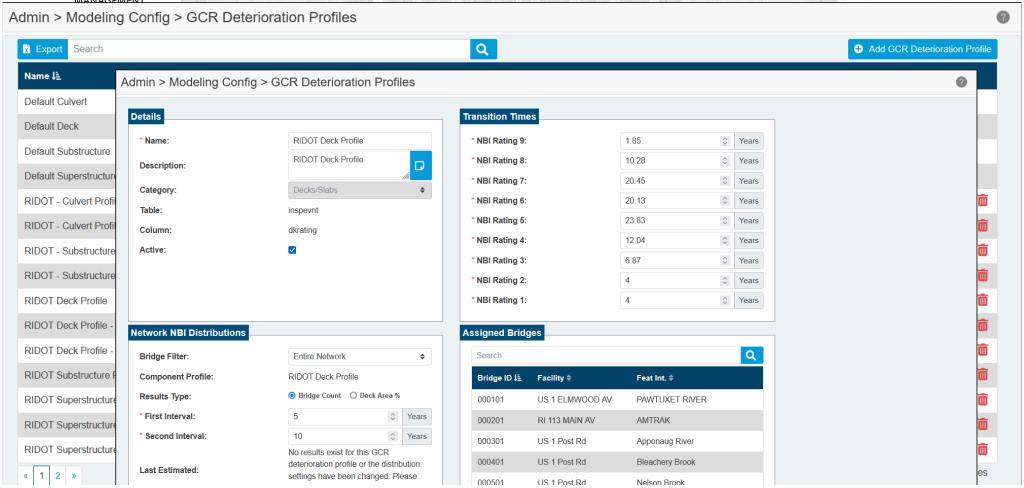




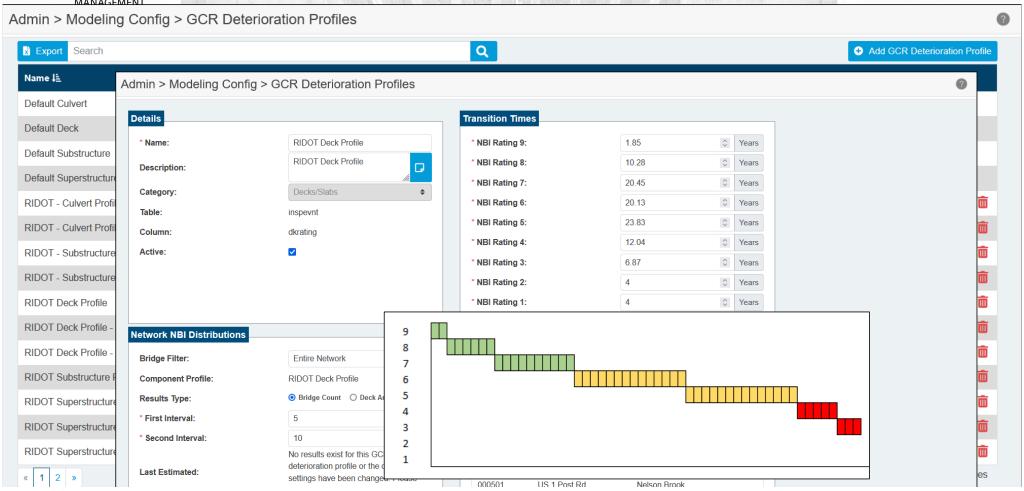
Admin > Modeling Config > GCR Deterioration Profiles

№ Export Search Q					Add GCR Deterioration Profil		
Name Ji	Description 🗢	Category \$	Table \$	Column \$	Standard \$	Active \$	
Default Culvert	Default Culvert Deterioration Profile	Culvert	inspevnt	culvrating	Т	Т	Z (L)
Default Deck	Default Deck Deterioration Profile	Decks/Slabs	inspevnt	dkrating	Т	Т	Z (
Default Substructure	Default Substructure Deterioration Profile	Substructure	inspevnt	subrating	Т	Т	Z C
Default Superstructure	Default Superstructure Deterioration Profile	Superstructure	inspevnt	suprating	Т	Т	Z (
RIDOT - Culvert Profile	RIDOT - Culvert Profile	Culvert	inspevnt	culvrating	F	Т	Z () i
RIDOT - Culvert Profile - Extended	RIDOT - Culvert Profile - Extended	Culvert	inspevnt	culvrating	F	Т	Z () i
RIDOT - Substructure Profile	RIDOT - Substructure Profile	Substructure	inspevnt	subrating	F	Т	Z () i
RIDOT - Substructure Profile - Extended (Good)	RIDOT - Substructure Profile - Extended (Good)	Substructure	inspevnt	subrating	F	Т	Z () i
RIDOT Deck Profile	RIDOT Deck Profile	Decks/Slabs	inspevnt	dkrating	F	Т	Z () i
RIDOT Deck Profile - Extended	RIDOT Deck Profile - Extended	Decks/Slabs	inspevnt	dkrating	F	Т	
RIDOT Deck Profile - Extended (Good)	RIDOT Deck Profile - Extended (Good)	Decks/Slabs	inspevnt	dkrating	F	Т	Z () i
RIDOT Substructure Profile - Extended	RIDOT Substructure Profile - Extended	Substructure	inspevnt	subrating	F	Т	Z () i
RIDOT Superstructure Profile	RIDOT Superstructure Profile	Superstructure	inspevnt	suprating	F	Т	🗷 🗘 🗓
RIDOT Superstructure Profile - Extended	RIDOT Superstructure Profile - Extended	Superstructure	inspevnt	suprating	F	Т	
RIDOT Superstructure Profile - Extended (Good)	RIDOT Superstructure Profile - Extended (Good)	Superstructure	inspevnt	suprating	F	Т	2 🗘 🕻
« 1 2 »							16 items in 2 page

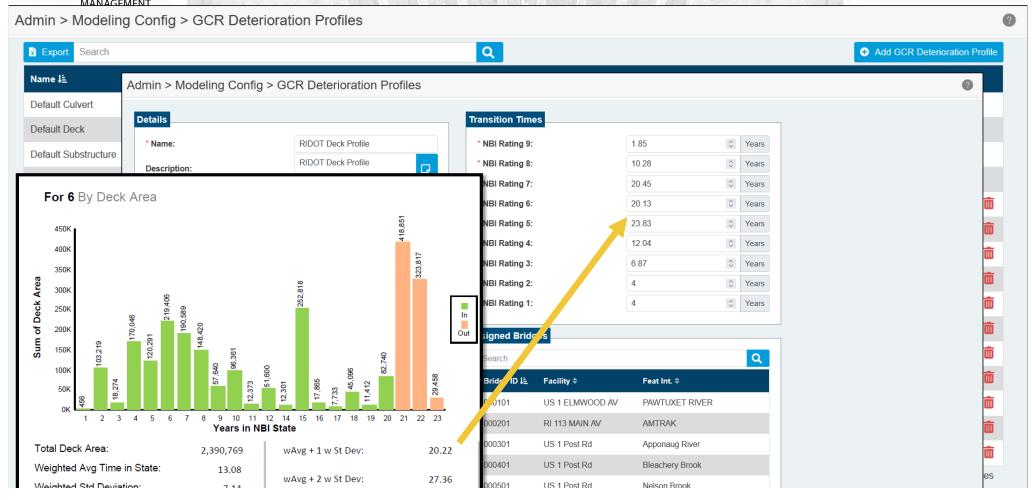




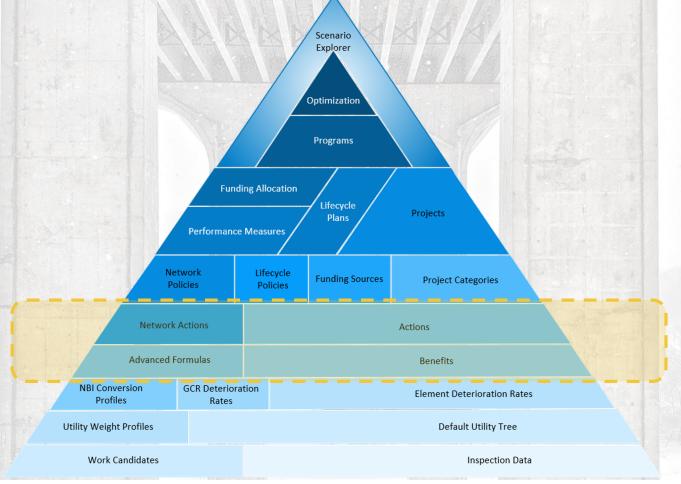














Admin > Modeling Config > Benefit Groups



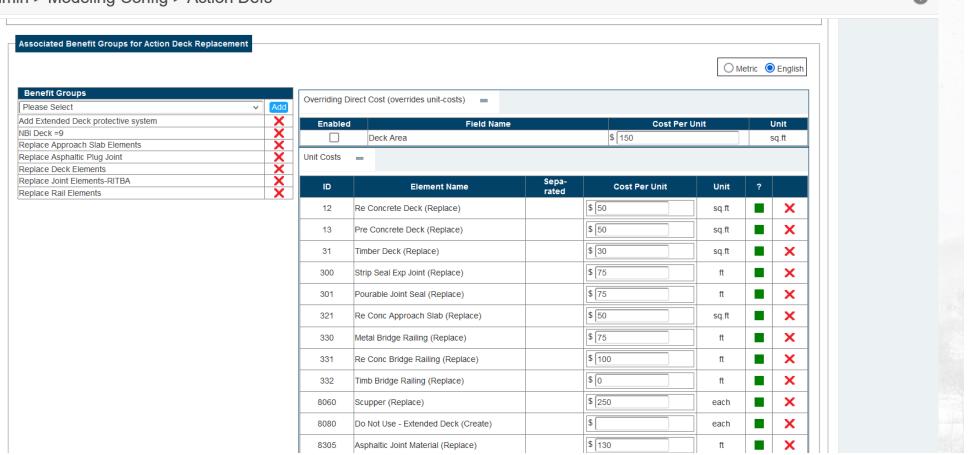
Expand Group Details Collapse Group Details

- Child Benefit Groups (0)
- Changed Elements (0)
- Removed Elements (0)
- Replaced Elements (0)
- Created Protective Systems (16)

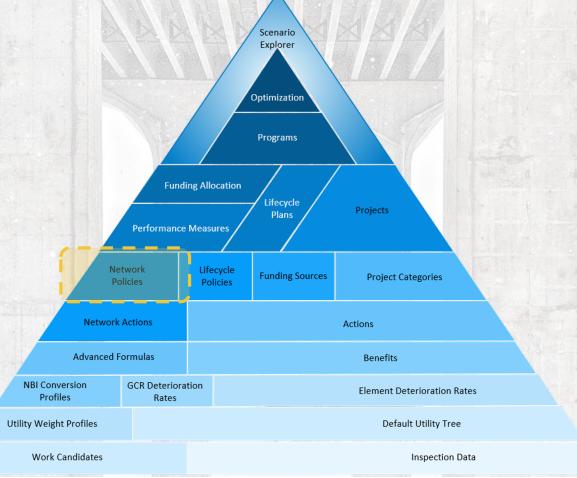
Element	Parent Element	Percent Coverage
515 Steel Protective Coating	120 Steel Truss	100
515 Steel Protective Coating	149 Otr Secondary Cable	100
515 Steel Protective Coating	314 Pot Bearing	100
515 Steel Protective Coating	107 Steel Opn Girder/Beam	100
515 Steel Protective Coating	152 Steel Floor Beam	100
515 Steel Protective Coating	102 Steel Clsd Box Gird	100
515 Steel Protective Coating	311 Moveable Bearing	100
515 Steel Protective Coating	312 Enclosed Bearing	100
515 Steel Protective Coating	113 Steel Stringer	100
515 Steel Protective Coating	141 Stl Arch	100
515 Steel Protective Coating	147 Stl Main Cables	100



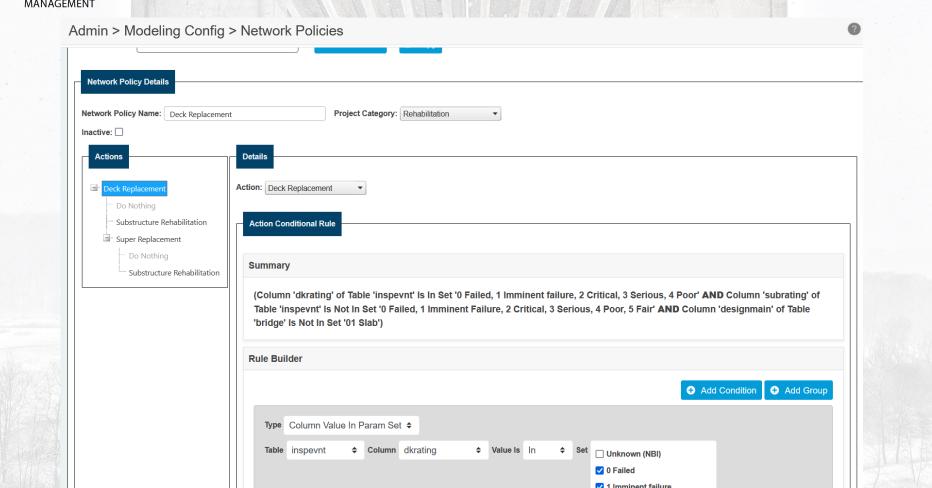
Admin > Modeling Config > Action Defs



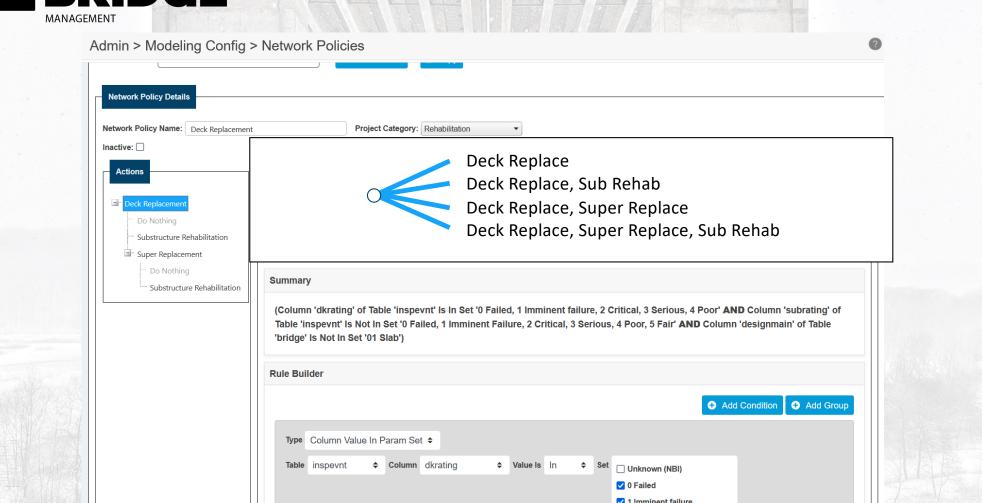




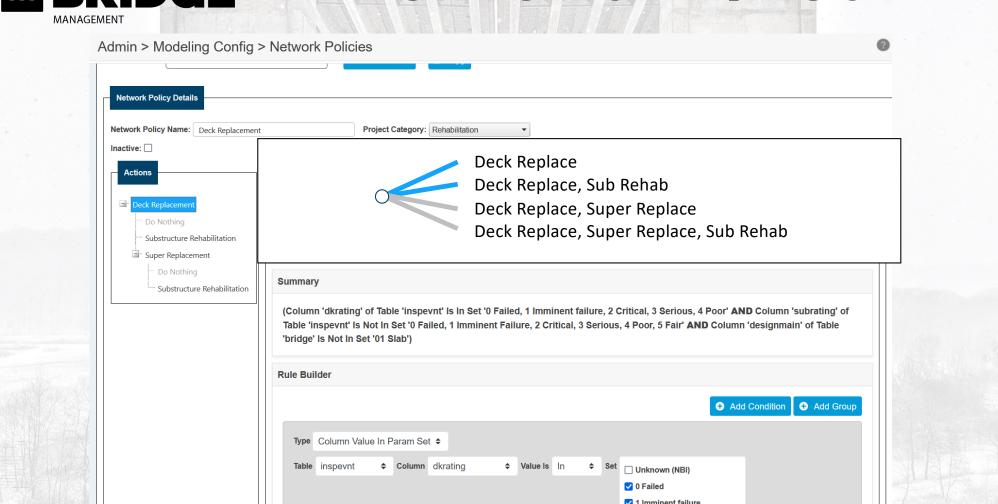




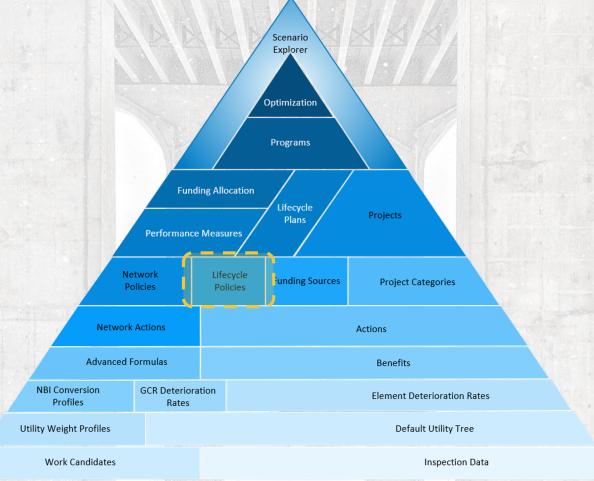






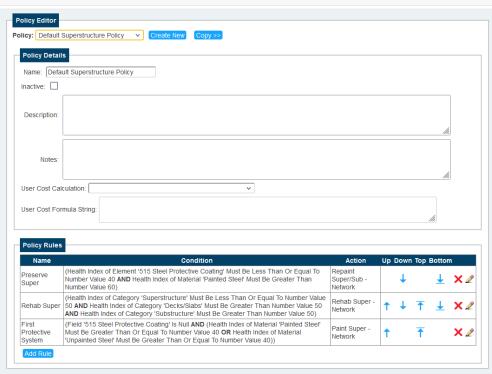






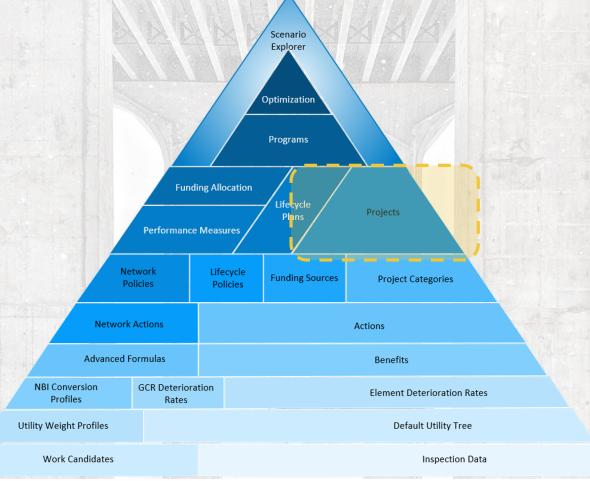


Admin > Modeling Config > LCCA Policy



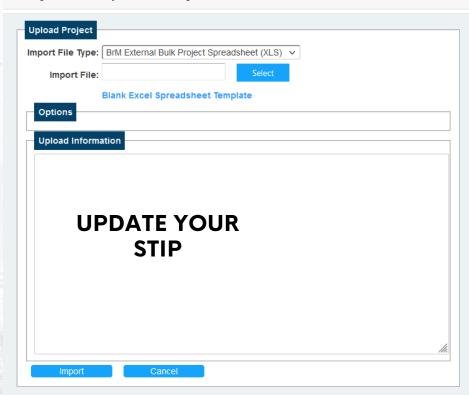
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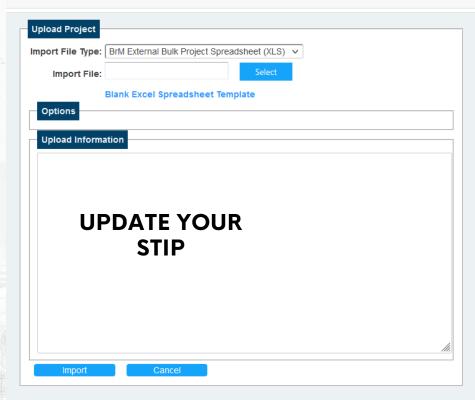


Projects > Upload Project





Projects > Upload Project



BrM 6.6 DONATIONS SLIDE 70 - 78

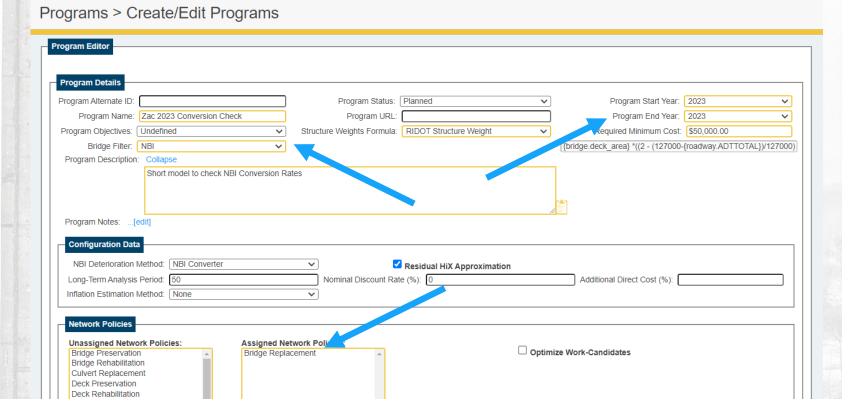






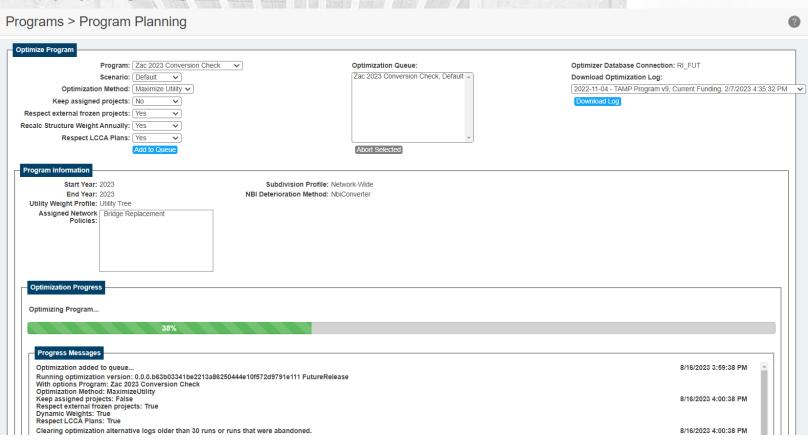


- All Bridges
- 1 Year
- 1 Action
- 0 Money





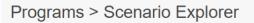
- All Bridges
- 1 Year
- 1 Action
- 0 Money

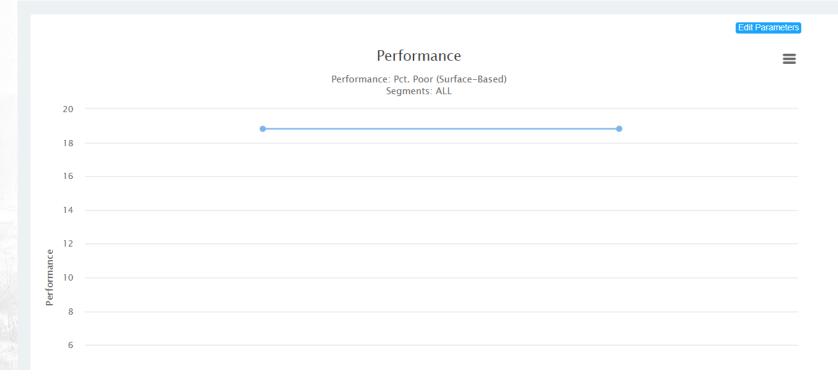




- All Bridges
- 1 Year
- 1 Action
- 0 Money

- Check starting point
- Conversion
 Report is your
 guide

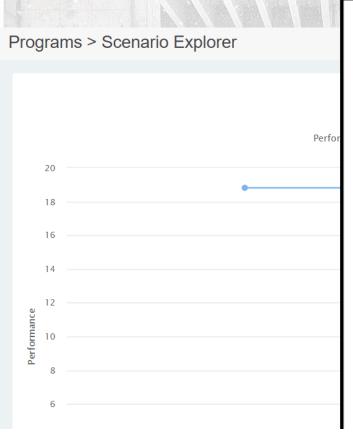






- All Bridges
- 1 Year
- 1 Action
- 0 Money

- Check starting point
- Conversion
 Report is your
 guide







CHECK 2: ACTIONS CHECK

- All Bridges
- 1 Year
- All Actions
- Normal Money

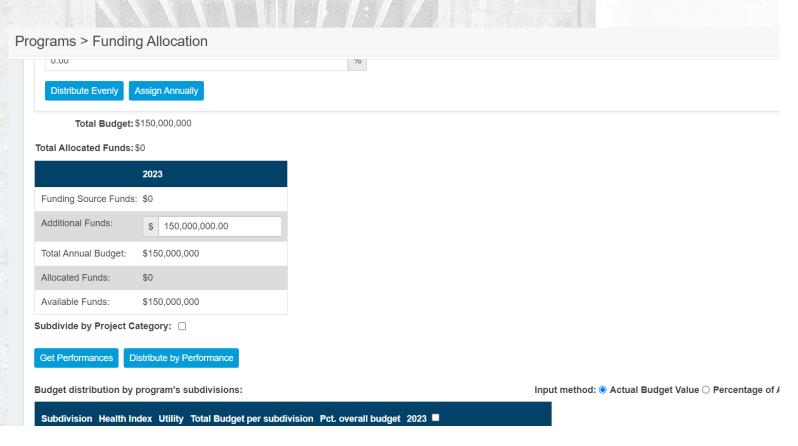
Programs > Create/Edit Programs

rogram Details							
ogram Alternate ID:			Program Status:	Planned	~	Program Start Year	2023
Program Name: Zac 2023 C	heck2 Action	ns	Program URL:			Program End Year	: [2023
rogram Objectives: Undefined		~	Structure Weights Formula:	RIDOT Structure Weight	~	equired Minimum Cos	t: \$50,000
Bridge Filter: NBI		~				oridge.deck area} *((2 - (12700)	0-{roadway.ADTTOTAL})/12
Program Description:[edit]							, ,,
Program Notes:[edit]							
Configuration Data							
NBI Deterioration Method: NE	BI Converter		$\overline{}$	Residual HiX Approximatio			
_					"	7 A 4444 Di+ 0+ (0/)	
Long-Term Analysis Period: 50			Nominal Discount Ra	ite (%): [0.00		Additional Direct Cost (%):	
Inflation Estimation Method: No	one		~				
Network Policies							
			work Policies:		Optimize V	Work-Candidates	
Unassigned Network Policies: Deck Rehabilitation Deck Replacement	:	Assigned Net Cond Bridge F Cond Conc Do	Replace		Optimize V	Work-Candidates	
Unassigned Network Policies: Deck Rehabilitation Deck Replacement Slab Preservation		Cond Bridge F Cond Conc Do Cond Culv Re	Replace eck Patch eplace		Optimize V	Work-Candidates	
Unassigned Network Policies: Deck Rehabilitation Deck Replacement Slab Preservation Slab Rehabilitation	<u> </u>	Cond Bridge F Cond Conc Do Cond Culv Re Cond Deck Re	Replace eck Patch eplace eplacement		Optimize V	Work-Candidates	
Unassigned Network Policies: Deck Renabilitation Deck Replacement Slab Preservation Slab Rehabilitation Slab Replacement		Cond Bridge F Cond Conc De Cond Culv Re Cond Deck Re Cond Extend	Replace eck Patch eplace eplace eplacement Deck over Backwall		Optimize V	Work-Candidates	
Unassigned Network Policies: Deck Rehabilitation Deck Replacement Slab Preservation Slab Rehabilitation		Cond Bridge F Cond Conc De Cond Culv Re Cond Deck Re Cond Extend	Replace eck Patch eplace eplace eplacement Deck over Backwall ane & Overlay w/ Patchii		Optimize V	Work-Candidates	
Unassigned Network Policies: Deck Renabilitation Deck Replacement Slab Preservation Slab Rehabilitation Slab Replacement Substructure Preservation Substructure Rehabilitation Superstructure Preservation	-	Cond Bridge F Cond Conc De Cond Culv Re Cond Deck Re Cond Extend	Replace eck Patch place eplacement Deck over Backwall ane & Overlay w/ Patchi		Optimize V	Work-Candidates	
Unassigned Network Policies: Deck Renabilitation Deck Replacement Slab Preservation Slab Rehabilitation Slab Replacement Substructure Preservation Substructure Rehabilitation Superstructure Preservation Superstructure Rehabilitation Superstructure Rehabilitation	ĺ	Cond Bridge F Cond Conc Do Cond Culv Re Cond Deck Re Cond Extend Cond Membra Cond Membra Cond Steel Re Cond Sub Sea	Replace eck Patch typlace eplacement Deck over Backwall ane & Overlay w/ Patchir ane Only epair 3&4 aling		Optimize V	Work-Candidates	
Unassigned Network Policies: Deck Renabilitation Deck Replacement Slab Preservation Slab Rehabilitation Slab Replacement Substructure Preservation Substructure Rehabilitation Superstructure Preservation Superstructure Rehabilitation First Protective System		Cond Bridge F Cond Conc Du Cond Culv Re Cond Deck Re Cond Extend Cond Membra Cond Membra Cond Steel Re Cond Sub Sea Cond Super-F	Replace eck Patch eplace eplace eplacement Deck over Backwall ane & Overlay w/ Patchi ane Only epair 384 alling Replace		Optimize V	Work-Candidates	
Unassigned Network Policies: Deck Renabilitation Deck Replacement Slab Preservation Slab Rehabilitation Slab Replacement Substructure Preservation Substructure Rehabilitation Superstructure Preservation Superstructure Rehabilitation First Protective System Paint Super/Sub		Cond Bridge F Cond Conc Do Cond Culv Re Cond Deck Re Cond Extend Cond Membra Cond Membra Cond Steel Re Cond Sub Sea	Replace eck Patch eplace eplace eplacement Deck over Backwall ane & Overlay w/ Patchi ane Only epair 384 alling Replace		□ Optimize V	Work-Candidates	
Unassigned Network Policies: Deck Renabilitation Deck Replacement Slab Preservation Slab Rehabilitation Slab Replacement Substructure Preservation Substructure Preservation Substructure Rehabilitation Superstructure Preservation Superstructure Rehabilitation First Protective System Paint Super/Sub Pell Deck Hydo		Cond Bridge F Cond Conc Du Cond Culv Re Cond Deck Re Cond Extend Cond Membra Cond Membra Cond Steel Re Cond Sub Sea Cond Super-F	Replace eck Patch eplace eplace eplacement Deck over Backwall ane & Overlay w/ Patchi ane Only epair 384 alling Replace		□ Optimize V	Work-Candidates	
Unassigned Network Policies: Deck Renabilitation Deck Replacement Slab Preservation Slab Rehabilitation Slab Replacement Substructure Preservation Substructure Rehabilitation Superstructure Preservation Superstructure Rehabilitation First Protective System Paint Super/Sub		Cond Bridge F Cond Conc Du Cond Culv Re Cond Deck Re Cond Extend Cond Membra Cond Membra Cond Steel Re Cond Sub Sea Cond Super-F	Replace eck Patch eplace eplace eplacement Deck over Backwall ane & Overlay w/ Patchi ane Only epair 384 alling Replace		□ Optimize V	Work-Candidates	



CHECK 2: ACTIONS CHECK

- All Bridges
- 1 Year
- All Actions
- Normal Money





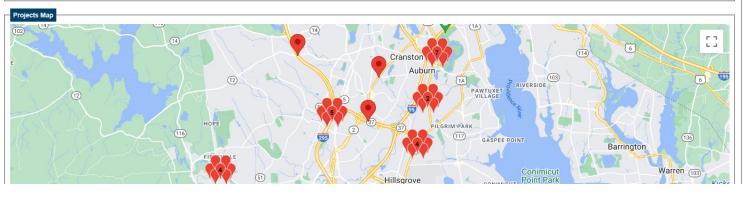
CHECK 2: ACTIONS CHECK

- All Bridges
- 1 Year
- All Actions
- Normal Money

- Check results,
- Alternatives log is your guide

Programs > Program Planning

Project Name	Category	Automatic	Cost	Utility	Utility Benefit	Benefit/Cost (\$k)	Cost (\$k) / Benefit	Year 🛦	Frozen	Status
027001(Steel Repairs CS3 & CS4 Part)	Major Rehab Work	Yes	\$960.099	54	5.83	0.000006072	\$164.682.58	2023	No	Proposed
	Preservation Work		\$380,099	70	5.36		\$70.932.84	2023	No	
098121(Seal Substructure, Scour Countermeasures)		Yes				0.000014097	-			Proposed
037001(Bridge Replacement)	Replacement	Yes	\$2,227,374	77	35.87	0.000016104	\$62,095.73	2023	No	Proposed
066701(Seal Substructure, Scour Countermeasures)	Preservation Work	Yes	\$371,800	74	1.43	0.000003846	\$260,000.00	2023	No	Proposed
010801(Seal Substructure, Scour Countermeasures)	Preservation Work	Yes	\$283,000	65	5.36	0.000018939	\$52,798.51	2023	No	Proposed
075001(Seal Substructure, Sub Chip & Patch)	Preservation Work	Yes	\$248,945	83	2.59	0.000010403	\$96,118.05	2023	No	Proposed
091901(Membrane & Overlay)	Preservation Work	Yes	\$79,320	61	2.2	0.000027735	\$36,054.55	2023	No	Proposed
065501(Seal Substructure, Sub Chip & Patch)	Preservation Work	Yes	\$2,203,297	71	5.28	0.000002396	\$417,291.25	2023	No	Proposed
048501(Deck Replacement)	Major Rehab Work	Yes	\$218,880	88	6.24	0.000028508	\$35,076.92	2023	No	Proposed
059401(Bridge Replacement)	Replacement	Yes	\$422,450	70	29.82	0.000070588	\$14,166.67	2023	No	Proposed
072401(Bridge Replacement)	Replacement	Yes	\$2,909,125	77	25.52	0.000008772	\$113,993.93	2023	No	Proposed
096301(Seal Substructure, Scour Countermeasures)	Preservation Work	Yes	\$292,600	69	2.45	0.000008373	\$119,428.57	2023	No	Proposed
082701(Bridge Replacement)	Replacement	Yes	\$2,524,738	86	19.98	0.000007913	\$126,363.26	2023	No	Proposed
027101(Seal Substructure, Scour Countermeasures)	Preservation Work	Yes	\$286,000	76	2.97	0.000010384	\$96,296.30	2023	No	Proposed
072001(Seal Substructure, Sub Chip & Patch)	Preservation Work	Yes	\$1,512,485	61	4.39	0.000002902	\$344,529.68	2023	No	Proposed
	First Pr	evious <u>1</u>	2 3	Next Last					Items per pa	age: 15





CHECK 2: ACTIONS CHECK

- All Bridges
- 1 Year
- All Actions
- Normal Money

- Check results,
- Alternatives log is your guide

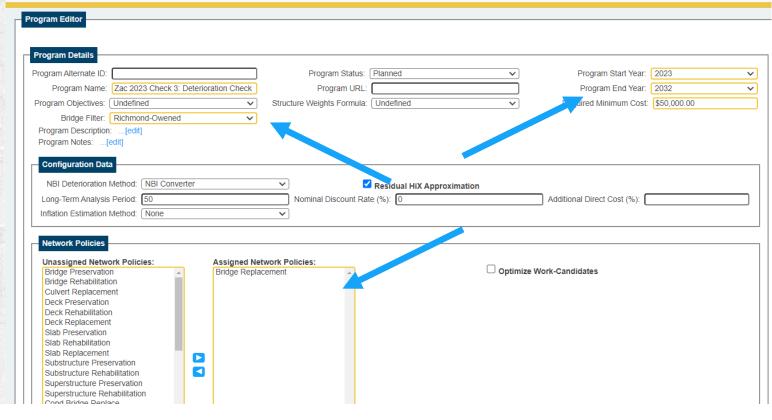
1			Alternative Log Output. Op	otimization (GUID: '76C1	AD763A8E48A4A33C52EA1	FC4743C' P	rogram: 'Zac 202
S CHECK 2	Created Time	Bridge ID ▼	Combination Name	µcture W ▼	arting U ▼	Cost ▼ tility Be ▼	Utility I ▼	Weighted Weig Utility ✓ Utili
3	8/16/2023 16:24	001101	(Membrane & Overlay w/ Patching)	29040.106	70.56	\$0.00		0
Dragrama > Dragrama Dla 4	8/16/2023 16:24	001101	(Extend Deck Over Backwall)	29040.106	70.56	\$0.00		0
rograms > Program Pla 5	8/16/2023 16:24	001101	(Extend Deck Over Backwall, Steel Repairs)	29040.106	70.56	\$0.00		0
6	8/16/2023 16:24	001101	(Extend Deck Over Backwall, Repaint All Steel Members	29040.106	70.56	\$0.00		0
Project Name 7	8/16/2023 16:24	001101	(Extend Deck Over Backwall, Beam End Repair)	29040.106	70.56	\$0.00		0
8	8/16/2023 16:24	001101	(Extend Deck Over Backwall, Zone Paint)	29040.106	70.56	\$0.00		0
2 027001(Steel Repairs CS3 & CS4 9	8/16/2023 16:24	001101	(Zone Paint)	29040.106	70.56	\$0.00		0
098121(Seal Substructure, Scour C 10	8/16/2023 16:24	001101	(Seal Substructure)	29040.106	70.56	\$11,400.00		0
037001(Bridge Replacement) 066701(Seal Substructure, Scour C	8/16/2023 16:24	001101	(Steel Repairs CS3 & CS4 Part)	29040.106	70.56	\$0.00		0
2 010801(Seal Substructure, Scour C	8/16/2023 16:24	001101	(Membrane & Overlay)	29040.106	70.56	\$0.00		0
075001(Seal Substructure, Sub Ch 13	8/16/2023 16:24	001101	(Deck Replacement, Super Replacement)	29040.106	70.56	\$0.00		0
2 091901(Membrane & Overlay) 14	8/16/2023 16:24	001101	(Deck Replacement, Repair Conc. Beam (Fiberwrap))	29040.106	70.56	\$0.00		0
065501(Seal Substructure, Sub Ch 048501(Deck Replacement)	8/16/2023 16:24	001101	(Deck Replacement, Steel Repairs)	29040.106	70.56	\$0.00		0
059401(Bridge Replacement) 16	8/16/2023 16:24	001101	(Deck Replacement, Beam End Repair)	29040.106	70.56	\$0.00		0
072401(Bridge Replacement)	8/16/2023 16:24	001101	(Deck Replacement)	29040.106	70.56	\$0.00		0
096301(Seal Substructure, Scour C 082701(Bridge Replacement)	8/16/2023 16:24	001101	(Deck Patching)	29040.106	70.56	\$0.00		0
2 027101(Seal Substructure, Scour C 19	8/16/2023 16:24	001101	(Culvert Replacement)	29040.106	70.56	\$0.00		0
2 072001(Seal Substructure, Sub Ch 20	8/16/2023 16:24	107101	(Membrane & Overlay w/ Patching)	198600.68	65.14	\$0.00		0
21	8/16/2023 16:24	107101	(Extend Deck Over Backwall)	198600.68	65.14	\$5,078,040.00		0
22	8/16/2023 16:24	107101	(Extend Deck Over Backwall, Zone Paint)	198600.68	65.14	\$6,599,420.26		0
23	8/16/2023 16:24	107101	(Extend Deck Over Backwall, Beam End Repair)	198600.68	65.14	\$5,408,872.62		0
24	8/16/2023 16:24	107101	(Extend Deck Over Backwall, Repaint All Steel Members	198600.68	65.14	\$27,569,400.00		0
Projects Map 25	8/16/2023 16:24	107101	(Bridge Replacement)	198600.68	65.14	\$0.00		0
102 26	8/16/2023 16:24	107101	(Zone Paint)	198600.68	65.14	\$1,521,380.26		0
27	8/16/2023 16:24	107101	(Membrane & Overlay)	198600.68	65.14	\$0.00		0
28	8/16/2023 16:24	107101	(Deck Replacement, Super Replacement)	198600.68	65.14	\$0.00		0
29	8/16/2023 16:24	107101	(Deck Replacement, Repair Conc. Beam (Fiberwrap))	198600.68	65.14	\$0.00		0
30	8/16/2023 16:24		(Deck Replacement, Steel Repairs)	198600.68	65.14	\$0.00		0
(12) 31	8/16/2023 16:24		(Deck Replacement, Beam End Repair)	198600.68	65.14	\$0.00		0
32	8/16/2023 16:24		(Deck Replacement)	198600.68	65.14	\$0.00		0
33	8/16/2023 16:24		(Deck Patching)	198600.68	65.14	\$0.00		0
	116		2 33 PILGRIM PARK	GASPEE POIN	IT	Barrington	136	



CHECK 3: DETERIORATION CHECK

Small Subset Bridges Programs > Create/Edit Programs

- 10 Years
- 1 Action
- Normal Money



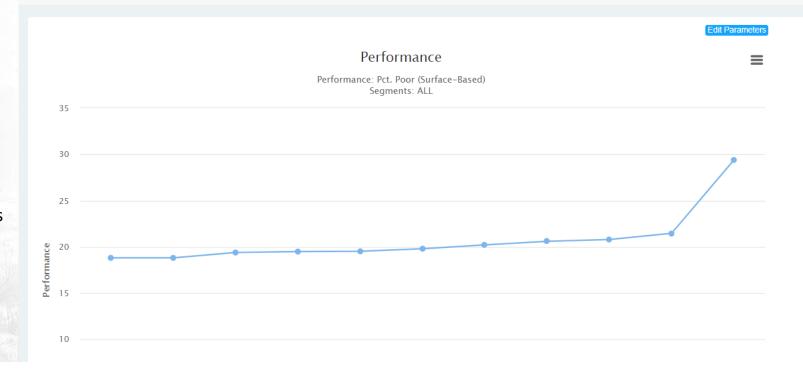


CHECK 3: DETERIORATION CHECK

- Small Subset Bridges
- 10 Years
- 1 Action
- 0 Money

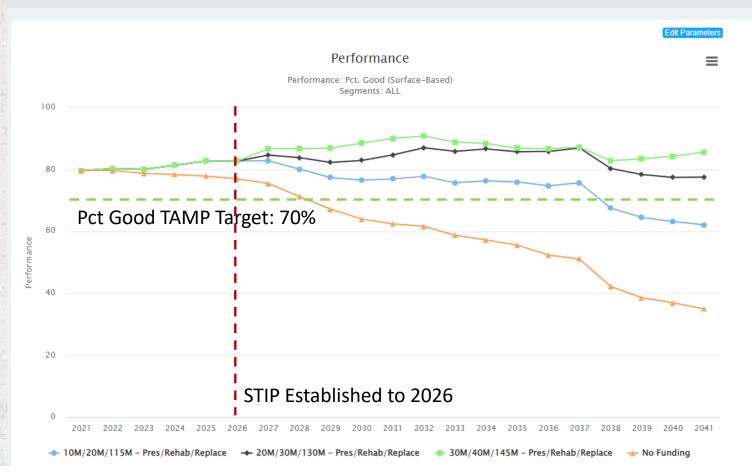
- Check results,
- Watch for cliffs

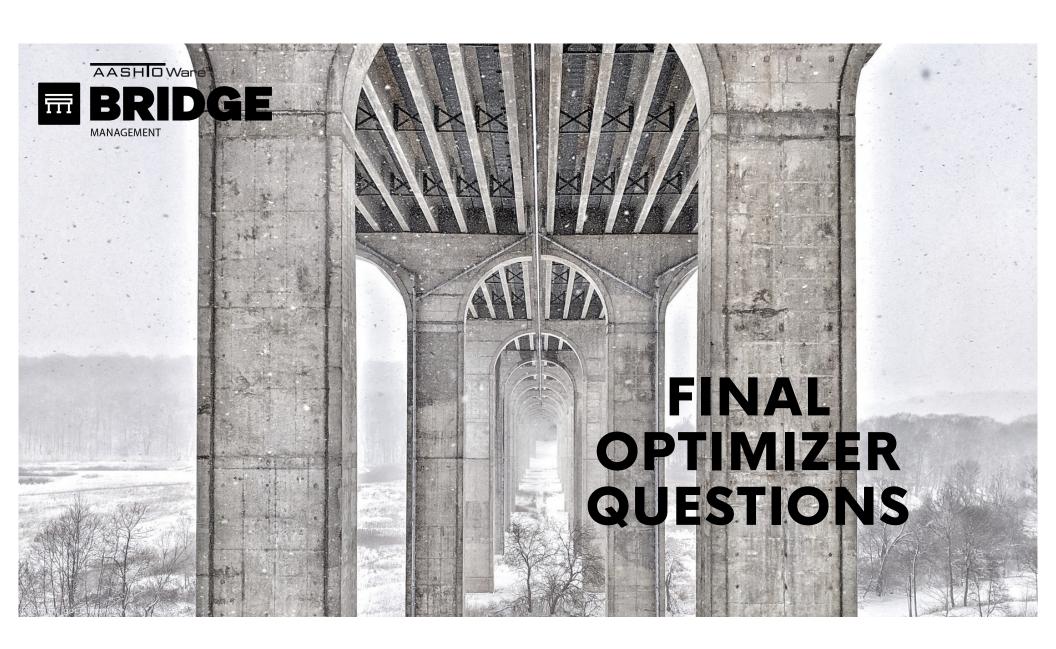














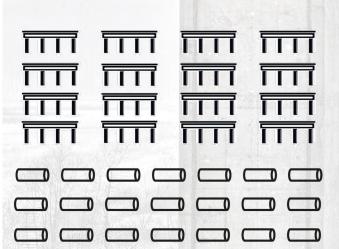


LCCA OBJECTIVES









NETWORK OF BRIDGES



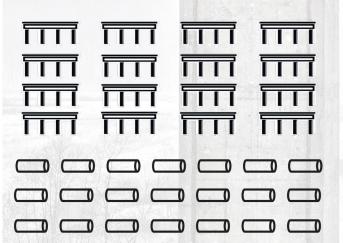
LCCA OBJECTIVES

NETWORK OF BRIDGES









SINGLE STRUCTURE





LCCA OBJECTIVES



SINGLE STRUCTURE



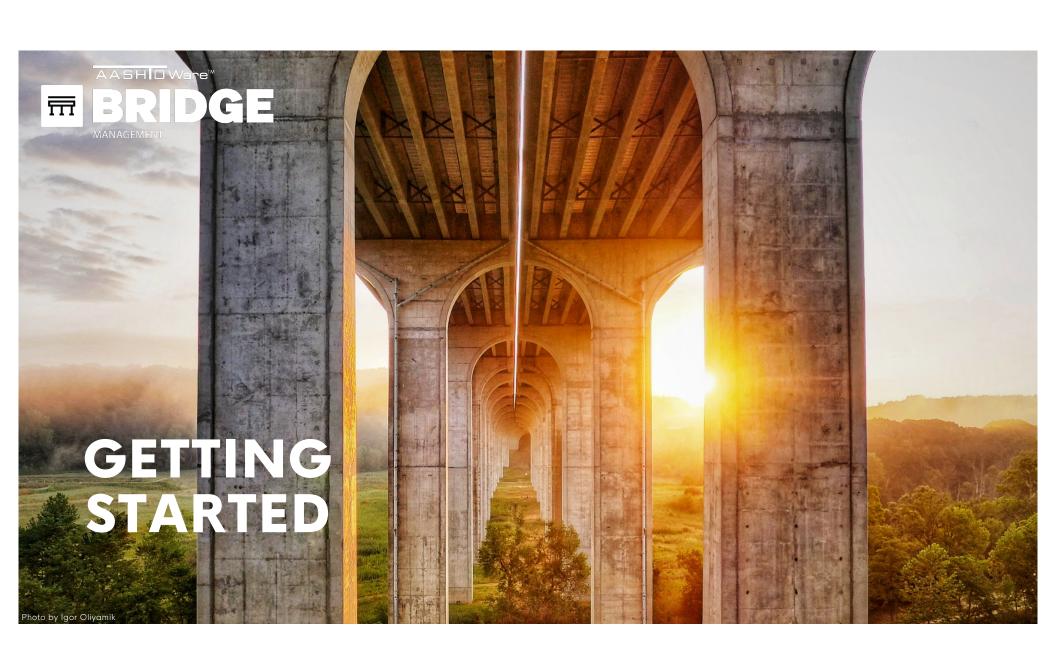
BUDGETS



FIXES



PROJECTIONS





STEP 1: GET YOUR DATA

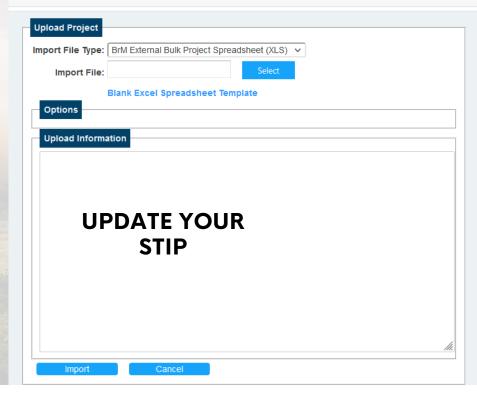
STEP 2: REVIEW TRAINING

STEP 3: REVIEW PYRAMID



STEP 1: GET YOUR DATA

Projects > Upload Project



BrM 6.6 DONATIONS SLIDE 70 - 78







STEP 1: GET YOUR DATA

STEP 2: REVIEW TRAINING

STEP 3: REVIEW PYRAMID

YOUTUBE

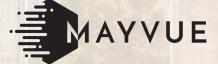


BrM Optimizer Playlist



MAYVUE TRAINING





PAST USER GROUP TRAINING



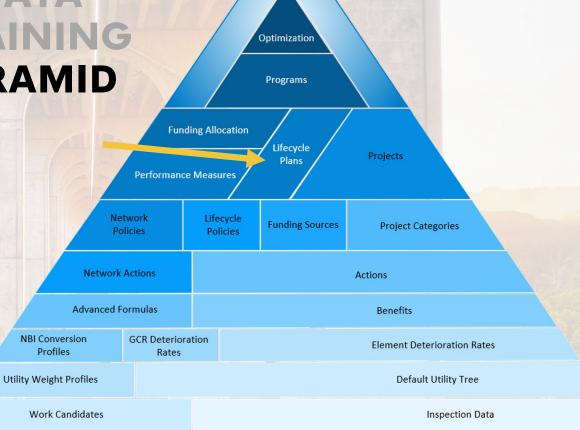
Past BrM UG
Presentations

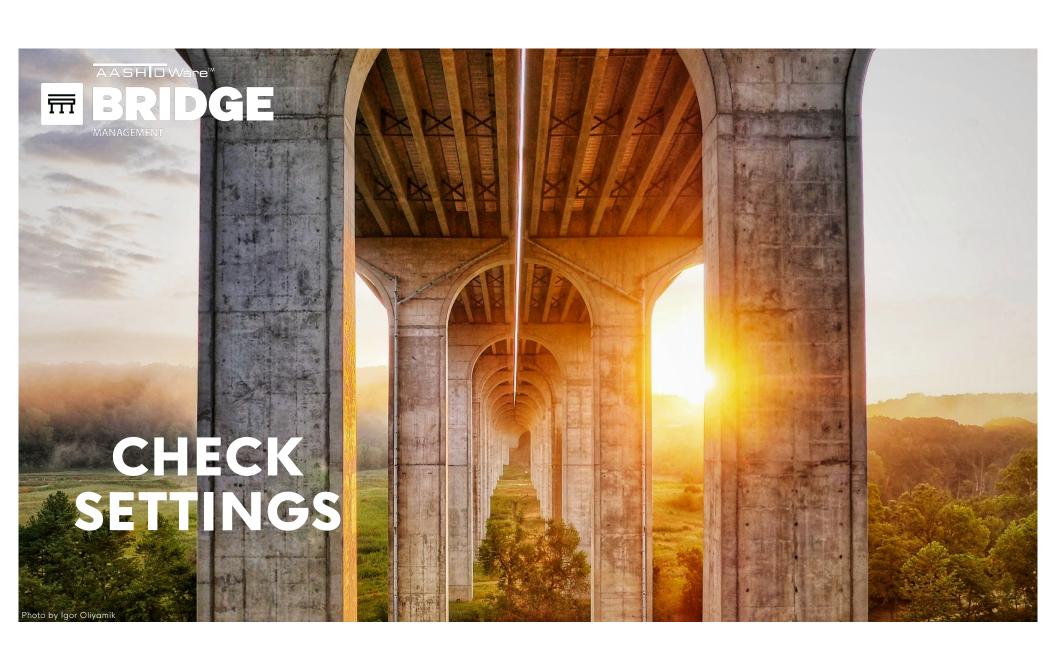


Scenario Explorer

STEP 1: GET YOUR DATA STEP 2: REVIEW TRAINING

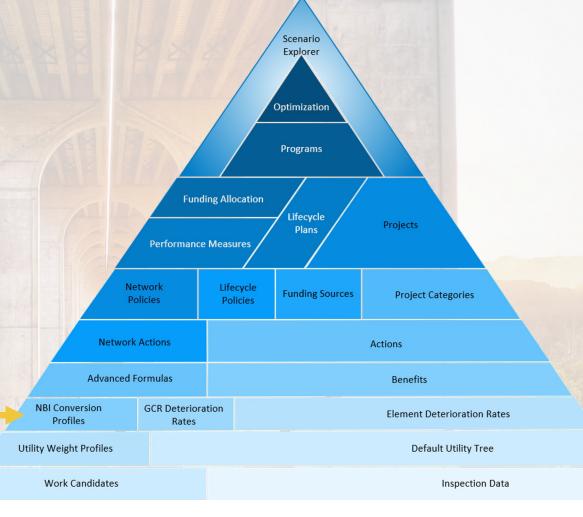
STEP 3: REVIEW PYRAMID



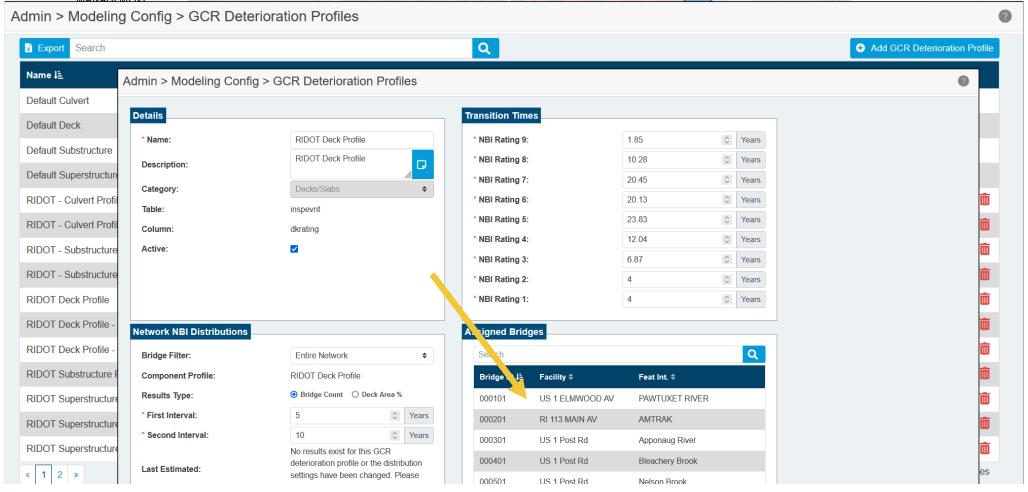




CUSTOM DETERIORATION OR CONVERSION

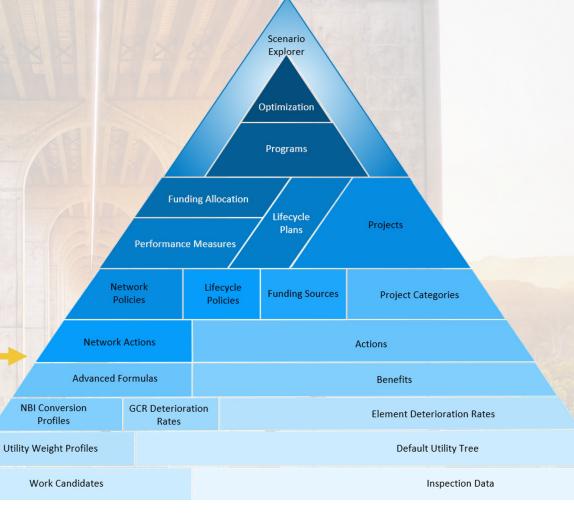






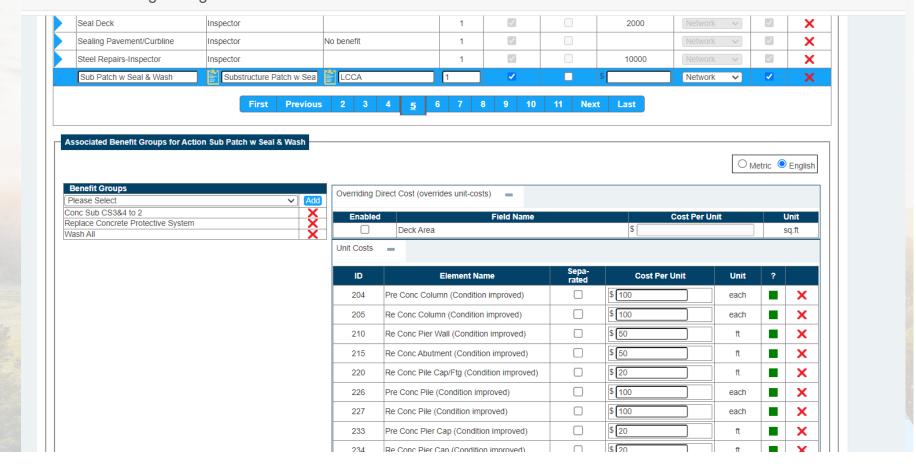






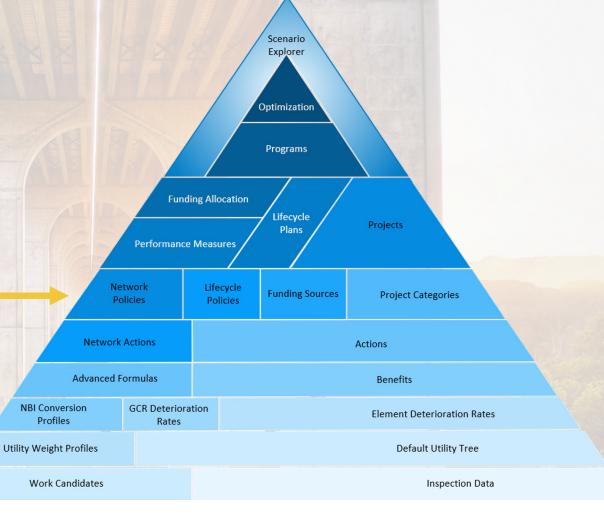


Admin > Modeling Config > Action Defs



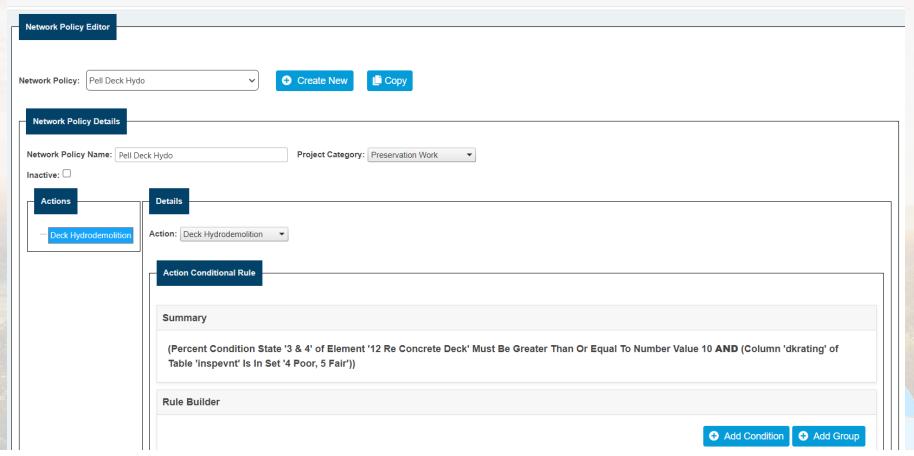


DIFFERENT NETWORK POLICY THRESHOLDS

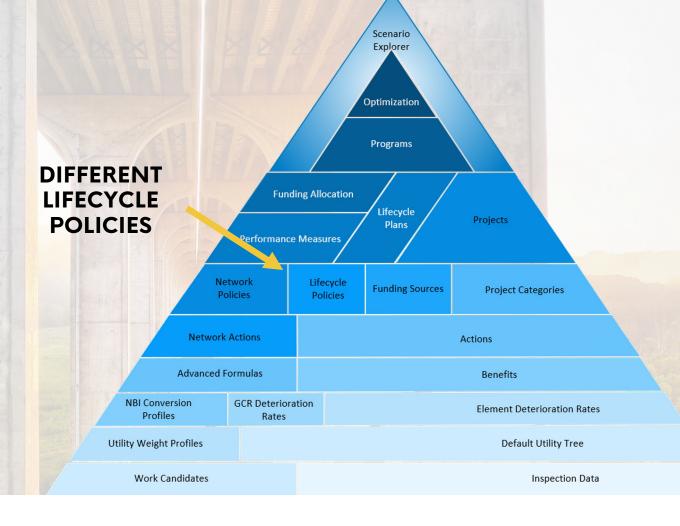




Admin > Modeling Config > Network Policies

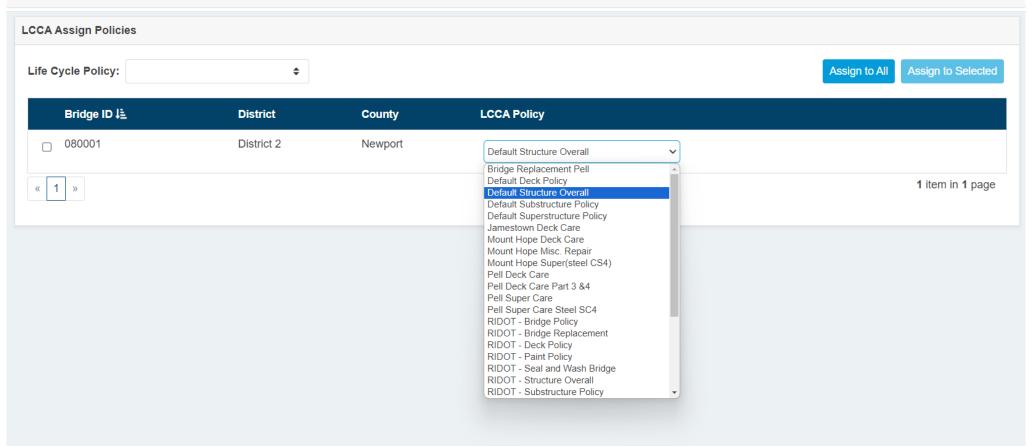








Admin > Modeling Config > LCCA Assign Policies





Field Culvert

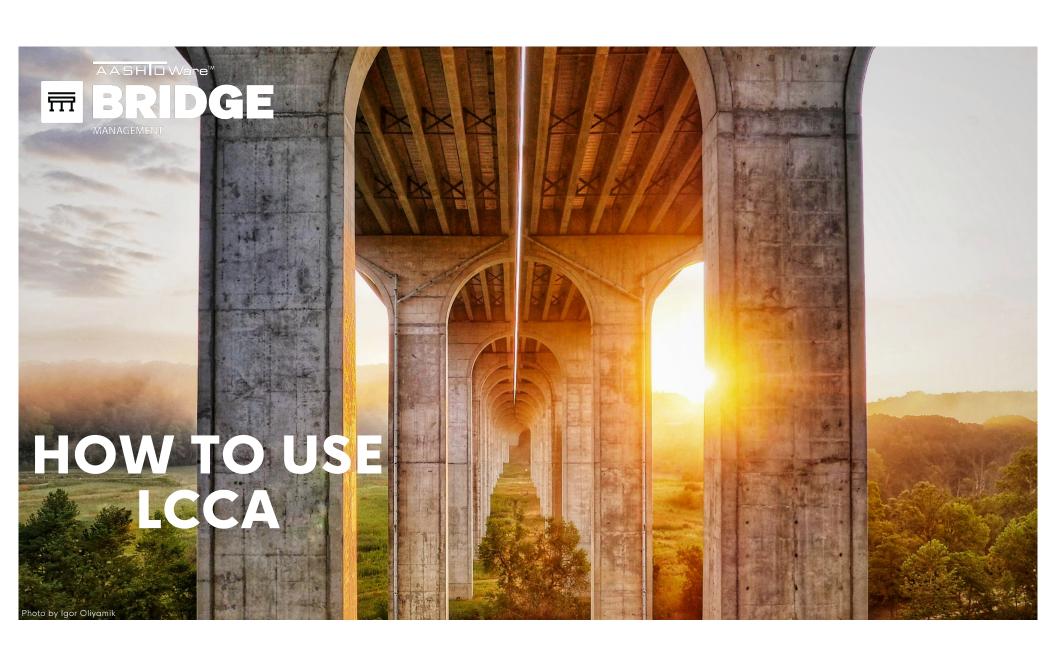
♦ As Number

CHECK SETTINGS

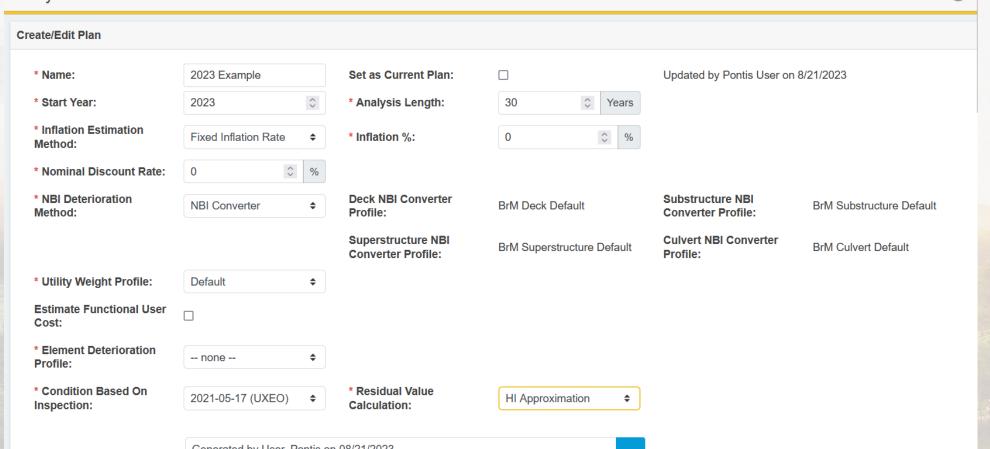
Number Value 4

Admin > Modeling Config > LCCA Policy Rules Type NBI Component Rating Type Number Value ◆ Field Deck **♦** As Number Number Value 3 Remove Condition **\$** Type Number Value \$ Type NBI Component Rating Field Superstructure \$ As Number Number Value 3 Remove Condition OR Type NBI Component Rating Type Number Value \$ Field Substructure

As Number Number Value 3 Remove Condition OR Type NBI Component Rating Type Number Value \$

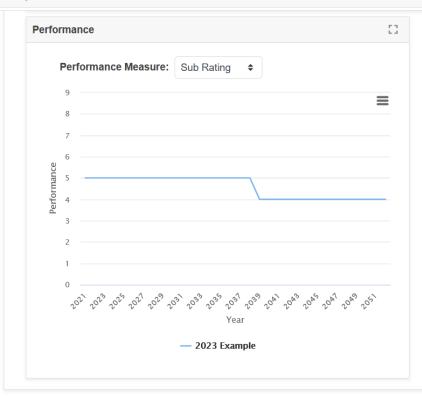


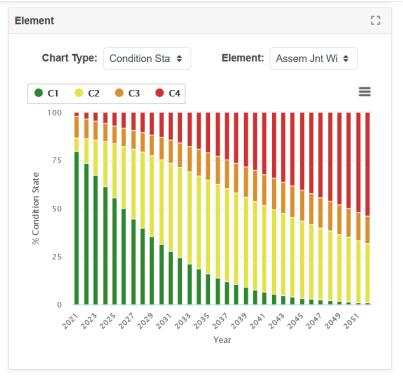






Analysis > LCCA





Optimization



30 items in 2 pages

Analysis > LCCA

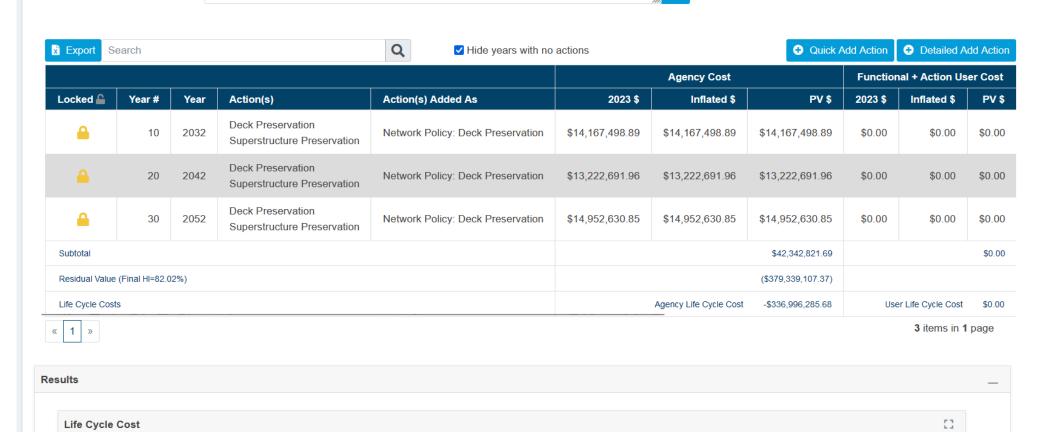
« 1 2 »

<u>_</u>	7	2029	Do Nothing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<u>_</u>	8	2030	Do Nothing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<u>_</u>	9	2031	Do Nothing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<u>_</u>	10	2032	Do Nothing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<u>_</u>	11	2033	Do Nothing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<u>_</u>	12	2034	Do Nothing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<u>_</u>	13	2035	Do Nothing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<u></u>	14	2036	Do Nothing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<u>_</u>	15	2037	Do Nothing	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Subtotal						\$0.00			\$0.00			\$0.00
Residual Value ((\$330,97	2,244.87)								
Life Cycle Costs			,	Agency Life Cycle Cost -\$330,972,244.87			User Life Cycle Cost \$0.00			Total Life Cycle Cost -\$330,972,244.87		

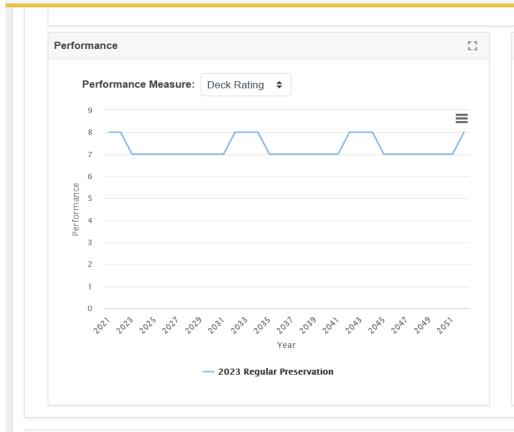


MANAGEMENT Analysis > LCCA **Download Optimization Log:** 2025 * Optimization Start Year: 5 Years * Minimum Deferment: Include User Costs in Optimization: * Save Optimization As: This Plan **\$ Assign Network Policies** Assign LCCA Policies Available LCCA Policies Selected LCCA Policies **Available Network Policies Selected Network Policies** Bridge Preservation Culvert policy 1.Bridge Replacement Pell Bridge Rehabilitation Deck Policy Bridge Replacement Default Deck Policy Culvert Replacement Default Structure Overall Deck Preservation Default Substructure Policy Deck Rehabilitation Default Superstructure Policy Deck Replacement Jamestown Deck Care Slab Preservation Mount Hope Deck Care Slab Rehabilitation Mount Hope Misc. Repair Slab Replacement Mount Hope Super(steel CS4) **Optimization Queue**





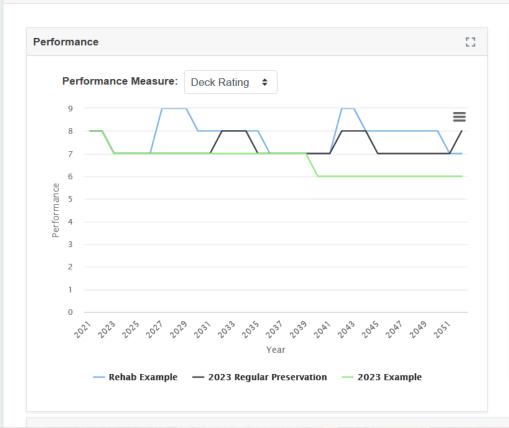


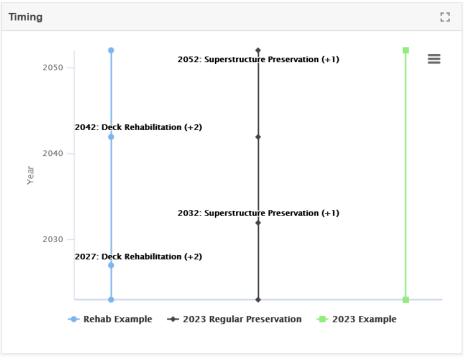






Compare Plans



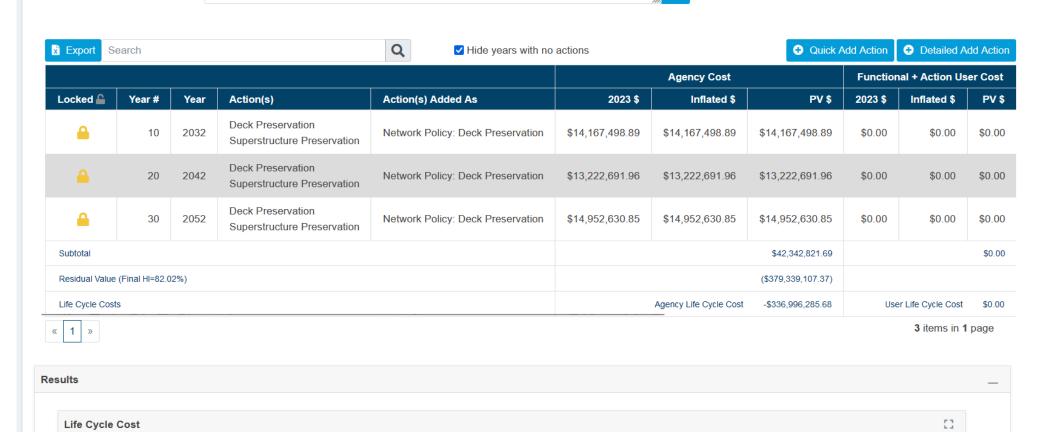




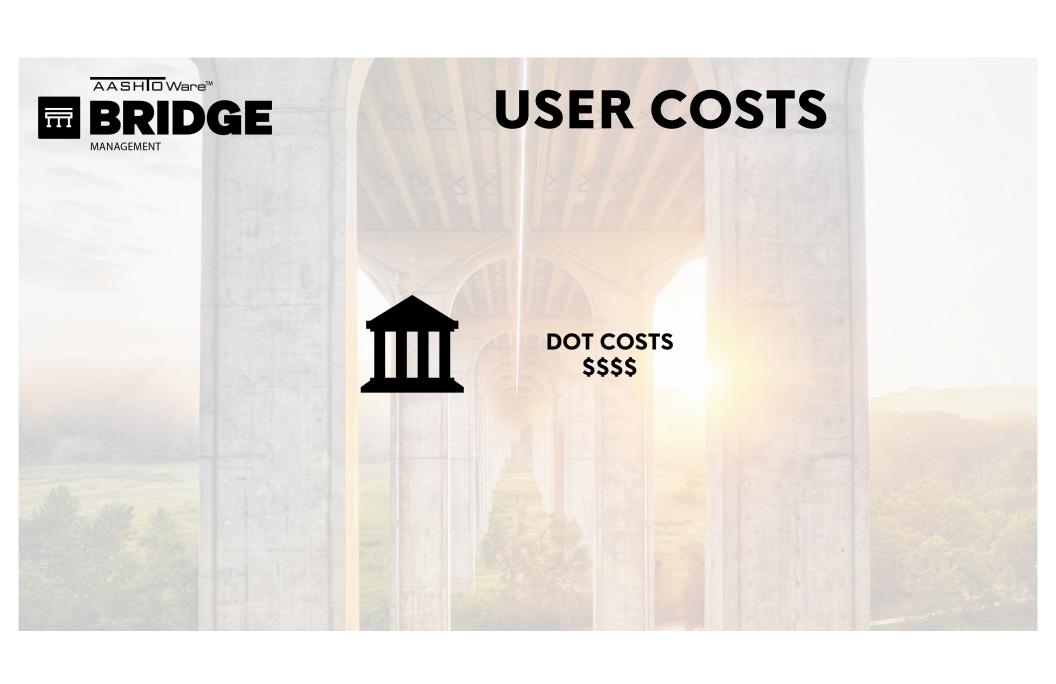


Current	Sel.	Name ↓ <u>±</u>	Start Year \$	End Year ≑	Agency LCC \$	User LCC \$	Total LCC \$	Updated By 	Updated On 	Notes \$	
*		The 2021 Plan	2021	2050	-\$397,132,266.06	\$0.00	-\$397,132,266.06	Boyle, Zac	11/8/2021	Generated by Boyle, Zac on 11/08/2021 For this mod	2 () ii
	~	2023 Example	2023	2052	-\$330,972,244.87	\$0.00	-\$330,972,244.87	User, Pontis	8/21/2023	Generated by User, Pontis on 08/21/2023	2 0 1
	~	2023 Regular Preservation	2023	2052	-\$336,996,285.70	\$0.00	-\$336,996,285.70	User, Pontis	8/21/2023	Generated by User, Pontis on 08/21/2023	2 0 1
	~	Rehab Example	2023	2052	-\$324,402,748.71	\$0.00	-\$324,402,748.71	User, Pontis	8/21/2023	Generated by User, Pontis on 08/21/2023	











USER COSTS



















USER COSTS







USER COSTS



Cost to do nothing:

- Capacity (Traffic delay)
- Eventual Closure
- Weight limits



Cost to do something:

- Capacity reduction (phased)
- Detour (closure)
- Production rates



* Condition Based On

Inspection:

2021-05-17 (UXEO)

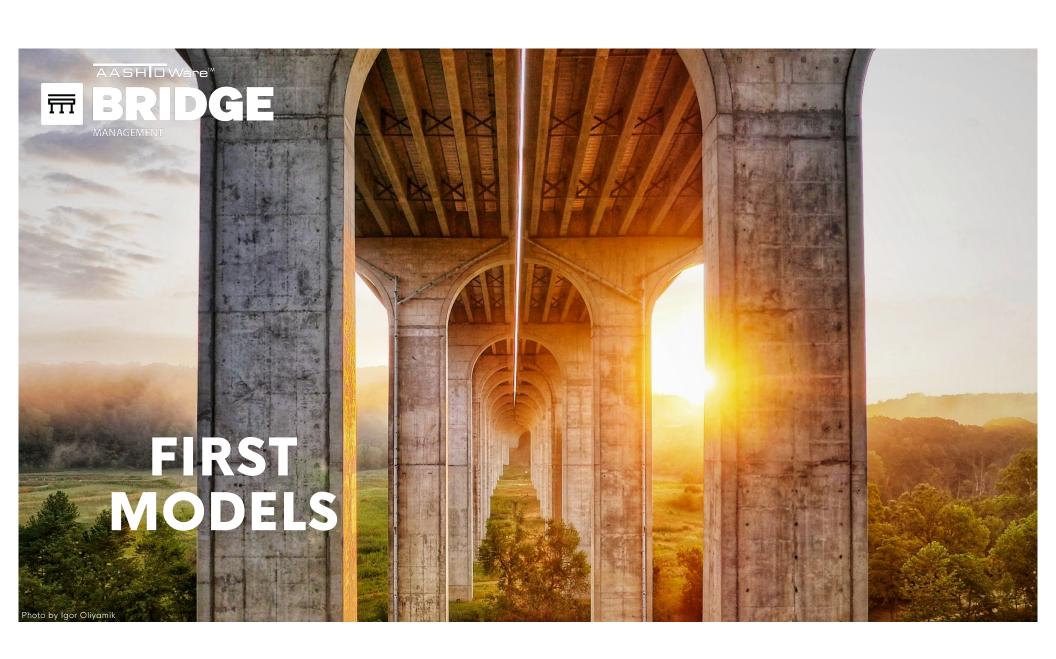
USER COSTS

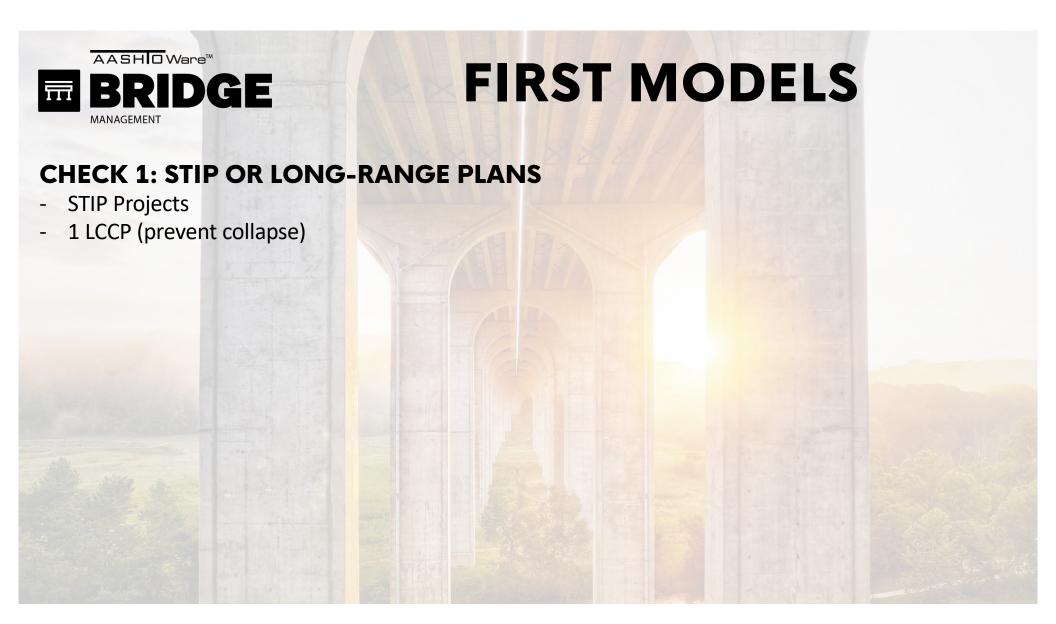
Analysis > LCCA Bridge: 080001 Facility Carried (007): RI 138 Name: Jamestown - Verrazzano Create/Edit Plan The 2021 Plan Updated by Zac Boyle on 11/8/2021 * Name: Set as Current Plan: **~** 2021 30 * Start Year: * Analysis Length: Years * Inflation Estimation % Fixed Inflation Rate **\$** * Inflation %: 0 Method: * Nominal Discount Rate: **Substructure NBI Converter** BrM Substructure Default **NBI** Converter Deck NBI Converter Profile: RIDOT - 2021 Zac Deck * NBI Deterioration Method: Profile: Superstructure NBI **Culvert NBI Converter** BrM Superstructure Default **BrM Culvert Default** Converter Profile: Profile: * Utility Weight Profile: Default \$ **Estimate Functional User** * Functional User Cost Default Functional L ◆ Cost: Formula: * Element Deterioration -- none --Profile:

HI Approximation

* Residual Value

Calculation:

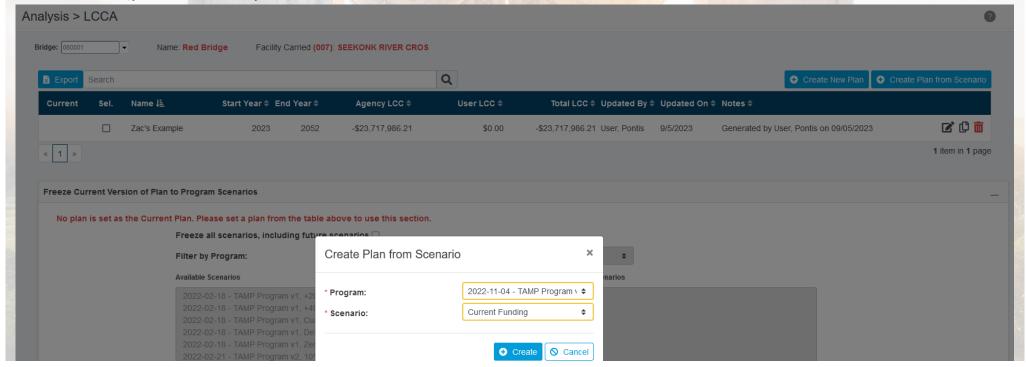






CHECK 1: STIP OR LONG-RANGE PLANS

- STIP Projects
- 1 LCCP (prevent collapse)





Slab Rehabilitation

Slab Replacement

Optimization Queue

FIRST MODELS

Analysis > LCCA Optimization Optimizer Database Connection: Hawaii_67 **Download Optimization Log:** 2023 * Optimization Start Year: * Minimum Deferment: Include User Costs in Optimization: * Save Optimization As: This Plan **\$ Assign Network Policies** Assign LCCA Policies Available LCCA Policies Selected LCCA Policies **Available Network Policies** Selected Network Policies Bridge Preservation Culvert policy 1.Bridge Replacement Pell Bridge Rehabilitation Deck Policy Bridge Replacement Default Deck Policy Culvert Replacement Default Structure Overall Deck Preservation Default Substructure Policy Deck Rehabilitation Default Superstructure Policy Deck Replacement Jamestown Deck Care Slab Preservation Loomis Test with Calc.

Mount Hope Deck Care

Mount Hope Misc. Repair

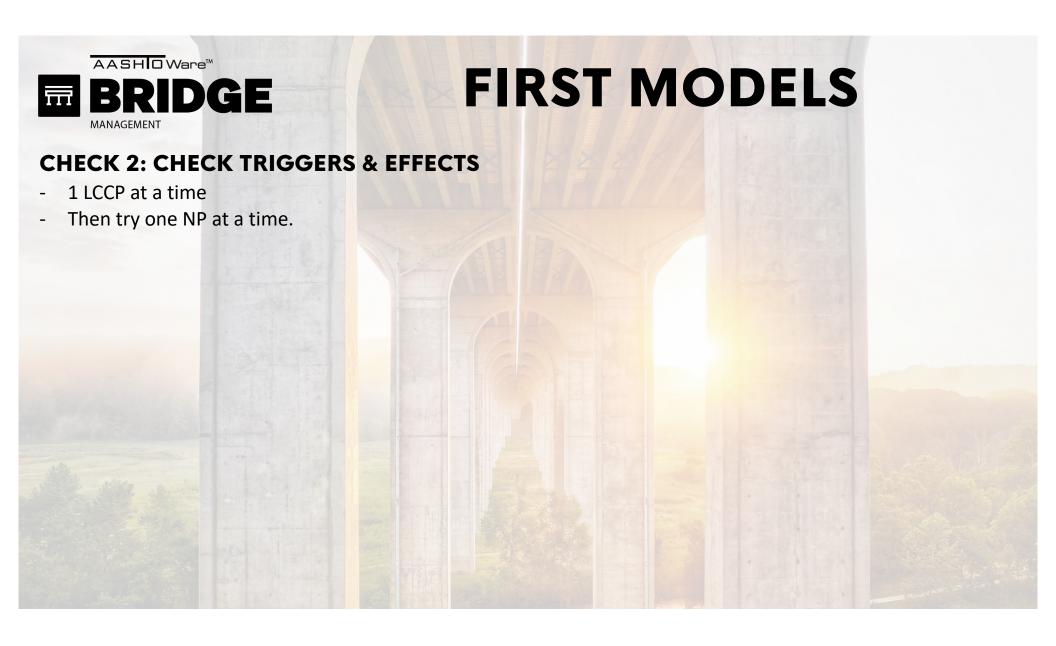


Analysis > LCCA

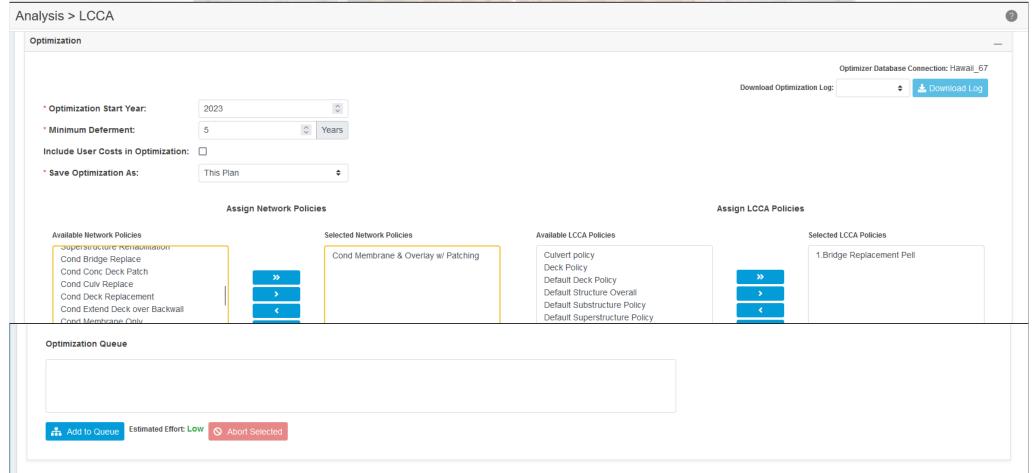
Optimization



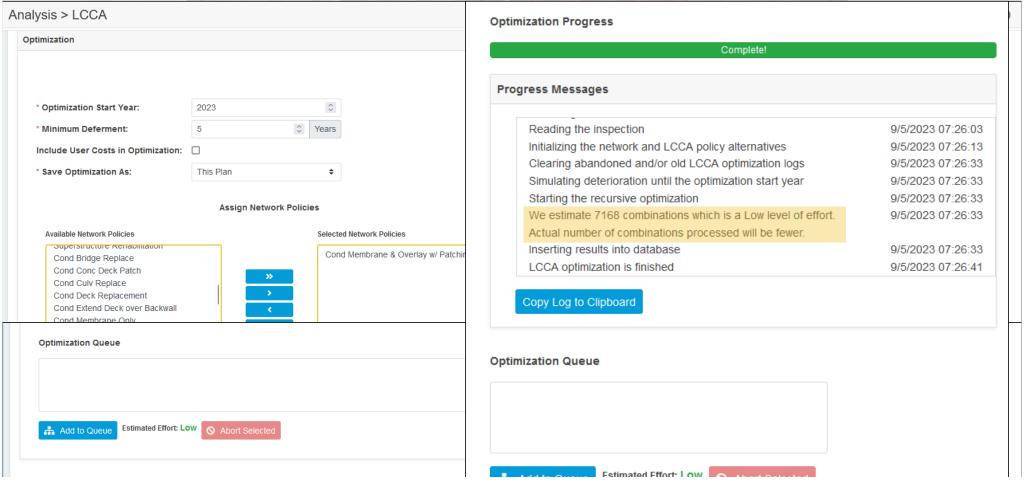
Optimizer Database Connection: Hawaii_67

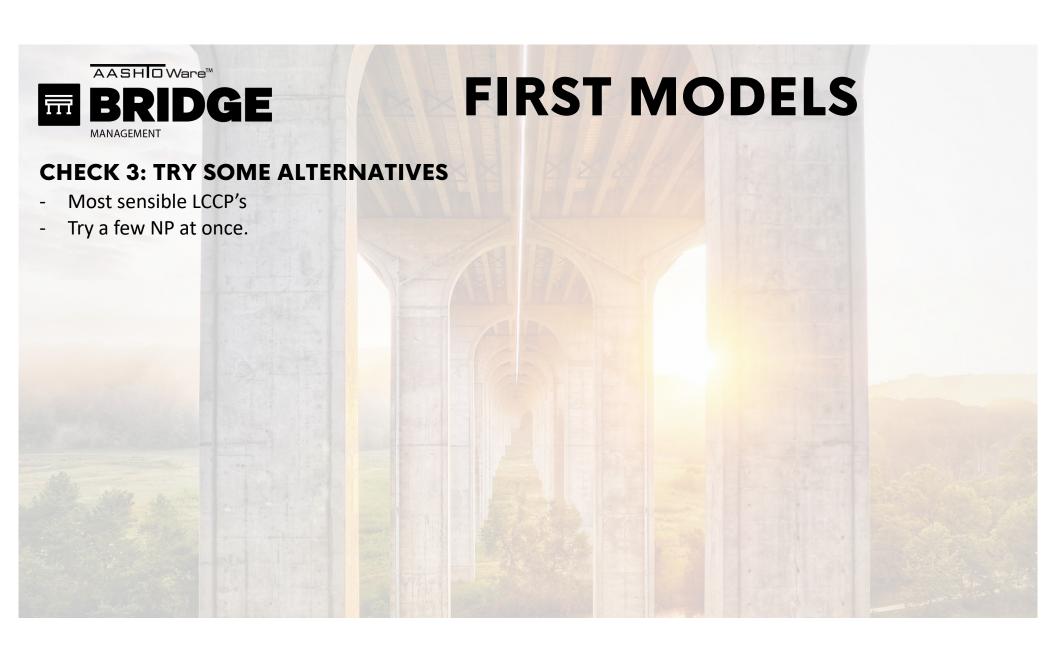














CHECK 3: TRY SOME ALTERNATIVES

- Most sensible LCCP's
- Try a few NP at once.

