Welcome to BrM 5.2.3

It’s not Pontis Anymore

April 26, 2017

Mesa, Arizona

Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

BrM Help Desk

AASHTOWareBridge.com

BrM@Bentley.com

JIRA tickets:
bridgeware.atlassian.net

Zachary Boyle, PE

BrM Solutions Consultant

Zac.Boyle@Bentley.com

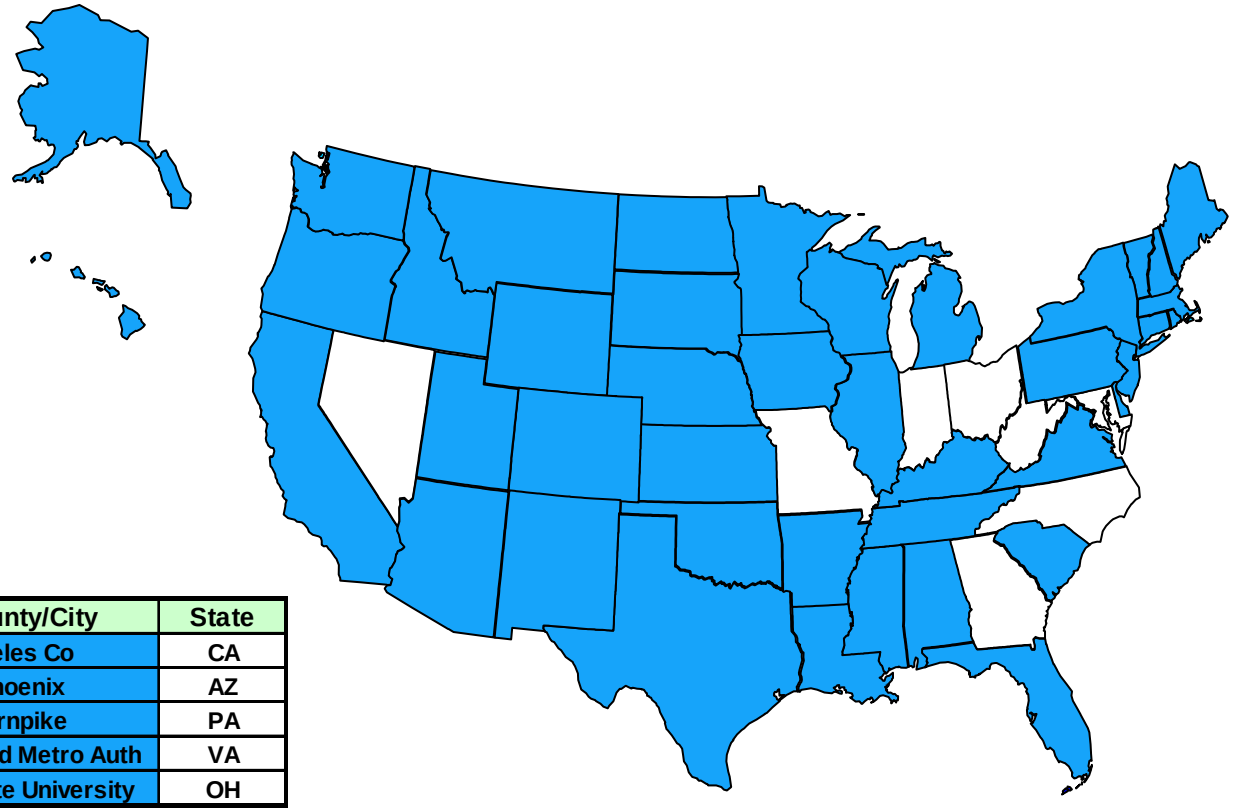
Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

AASHTOWare: For States by States

States participating in BrM



County/City	State
Los Angeles Co	CA
City of Phoenix	AZ
Penn. Turnpike	PA
Richmond Metro Auth	VA
Ohio State University	OH

42 State Departments of Transportation + Manitoba, FHWA, District of Columbia & Puerto Rico

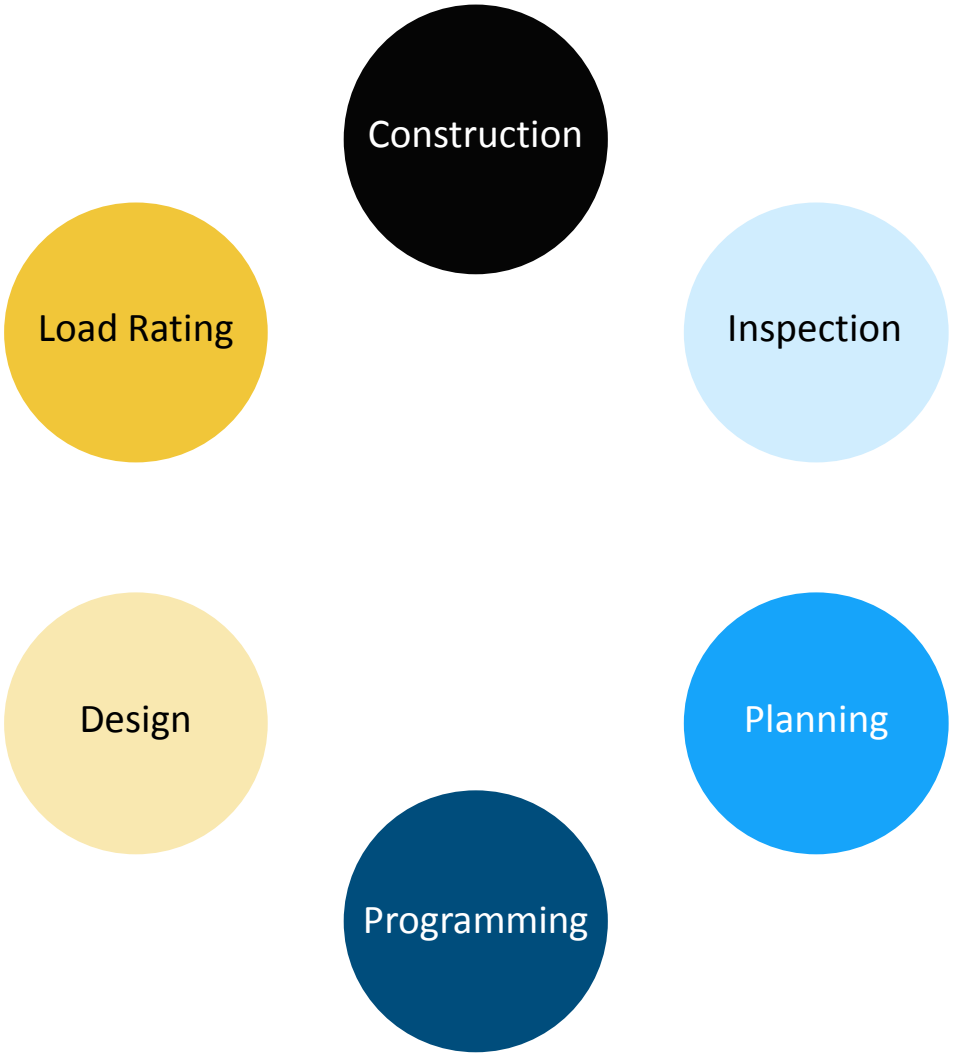
Map Key	
	Non- Licensee
	Licensee

Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

The Bridge Lifecycle

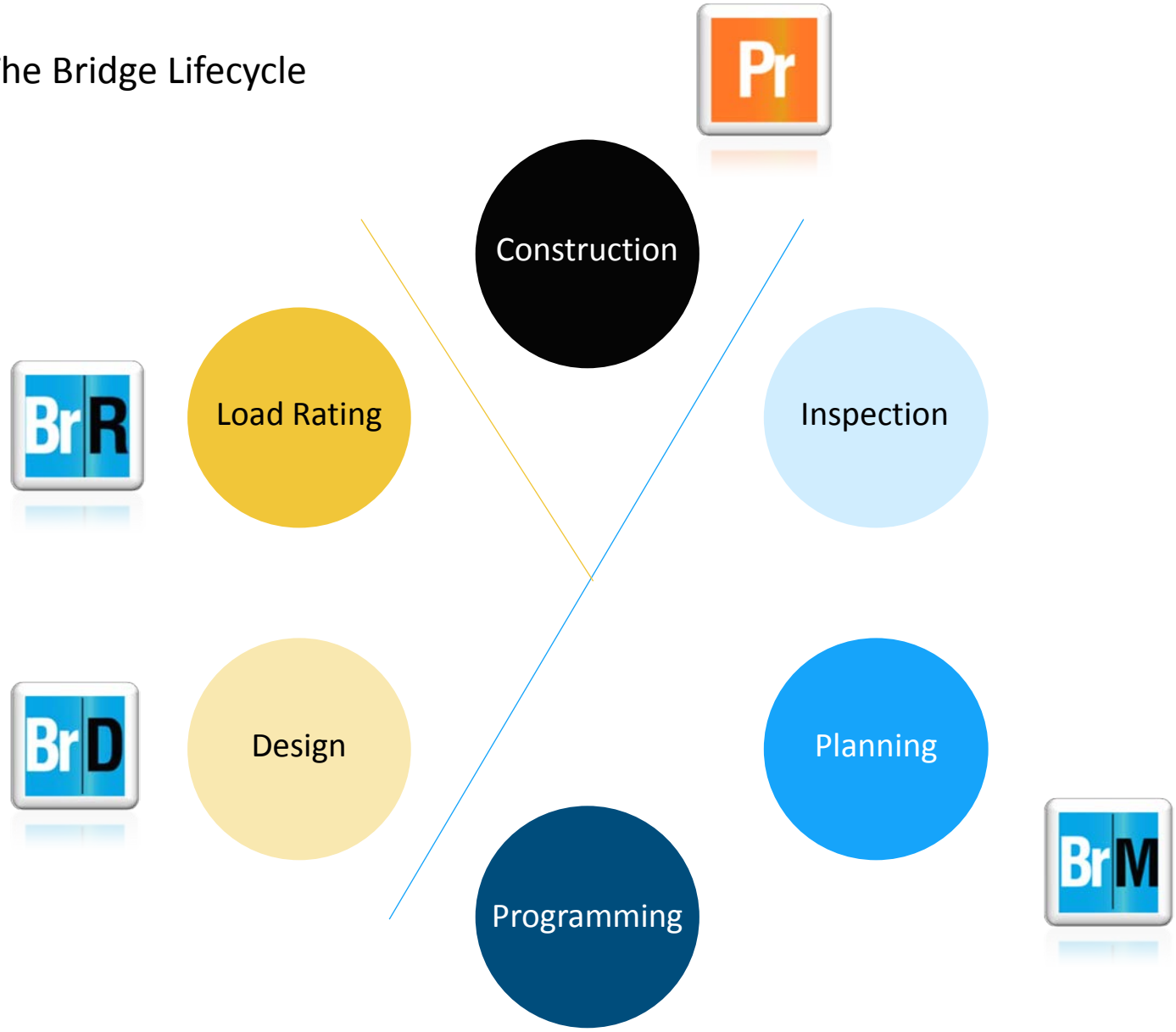


Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

The Bridge Lifecycle



Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

Enterprise

Workstation

Microsoft SQL Server

ORACLE

SAP

crystal reports

AASHTOWare BrM Bridge Management AASHTO

Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

Enterprise

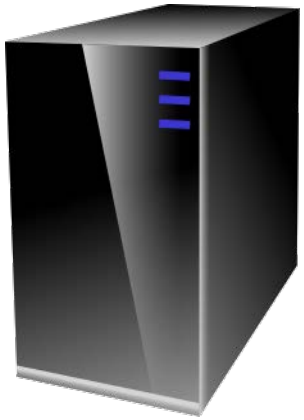
Workstation

Microsoft SQL Server

ORACLE

SAP

crystal reports



AASHTOWare BrM Bridge Management AASHTO

Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

Enterprise

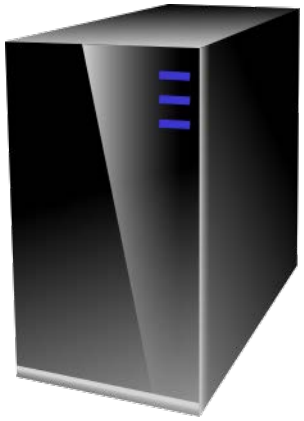
Workstation

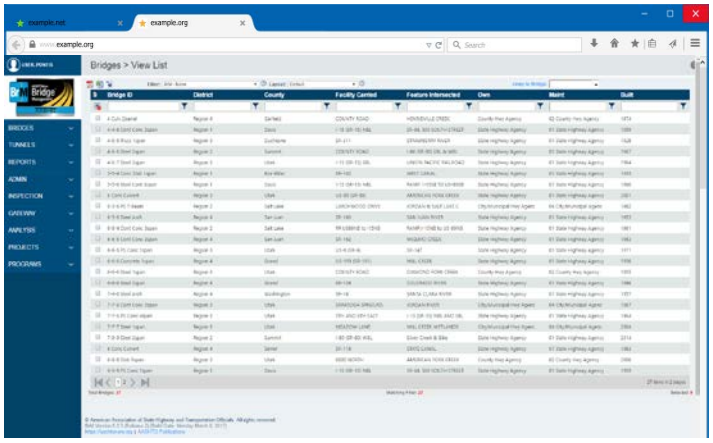
Microsoft SQL Server

ORACLE

SAP

crystal reports



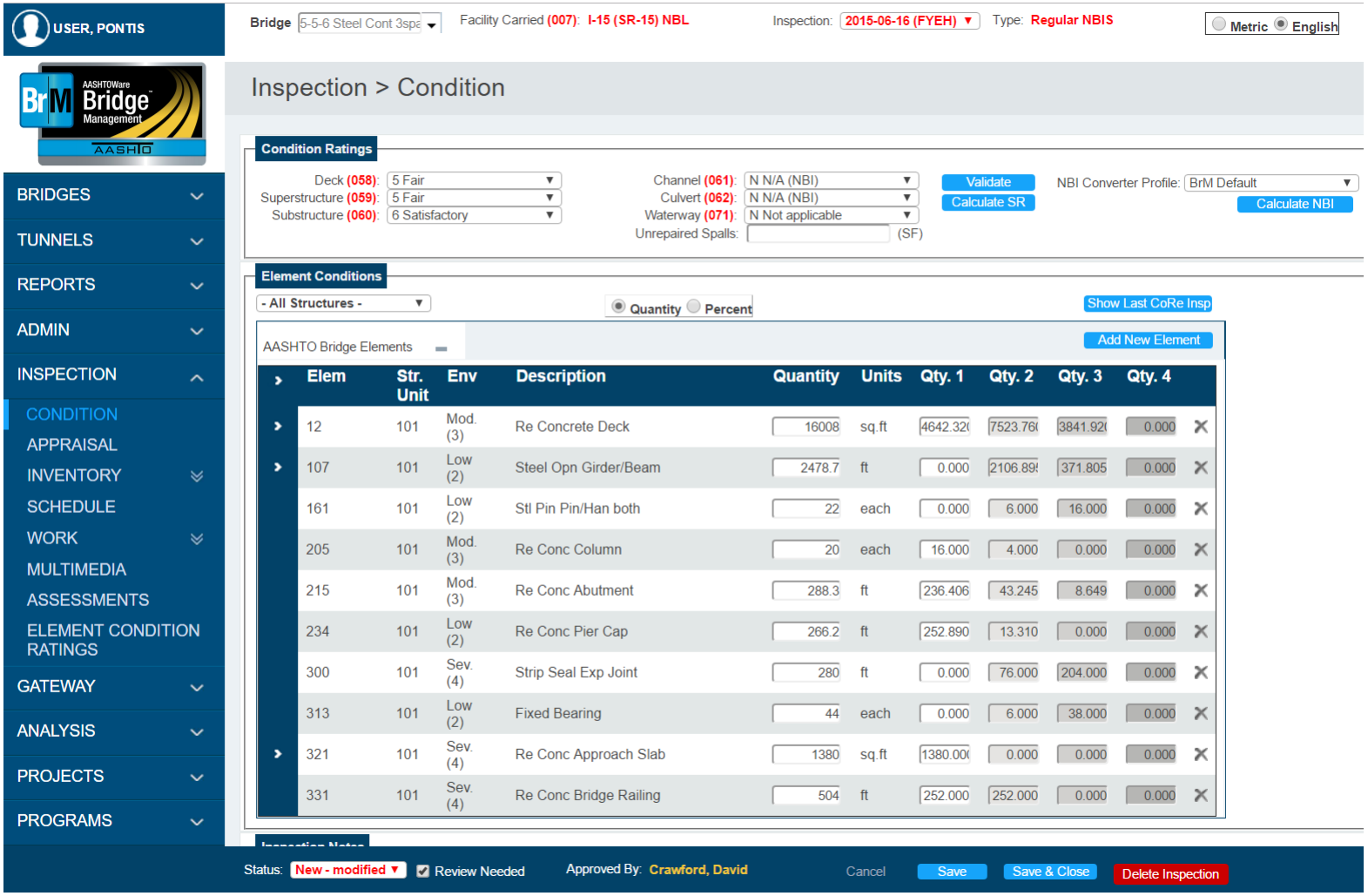


AASHTOWare BrM Bridge Management AASHTO

Contact

Who uses BrM
When to use BrM
How to use BrM

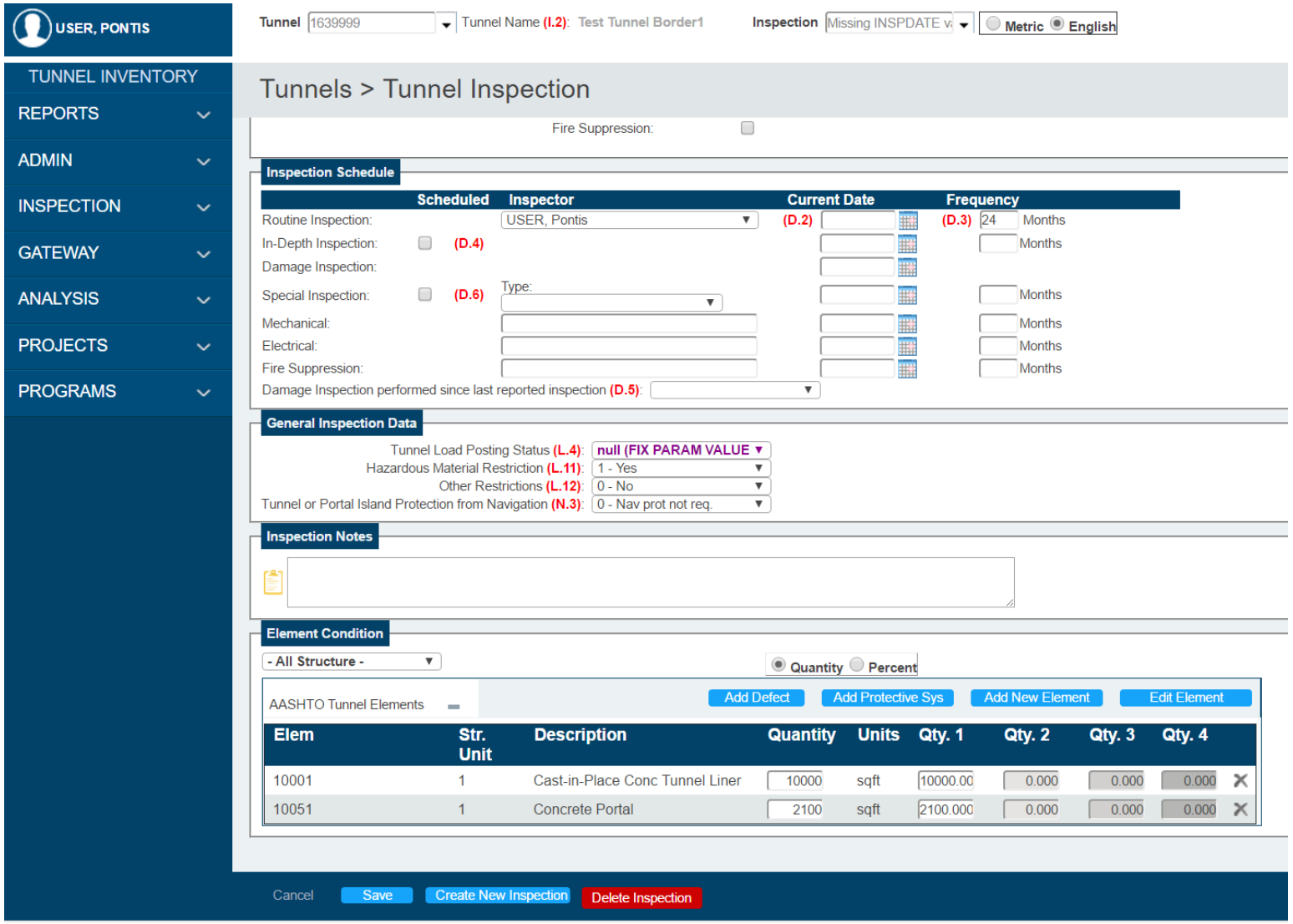
Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer



Contact

Who uses BrM
When to use BrM
How to use BrM

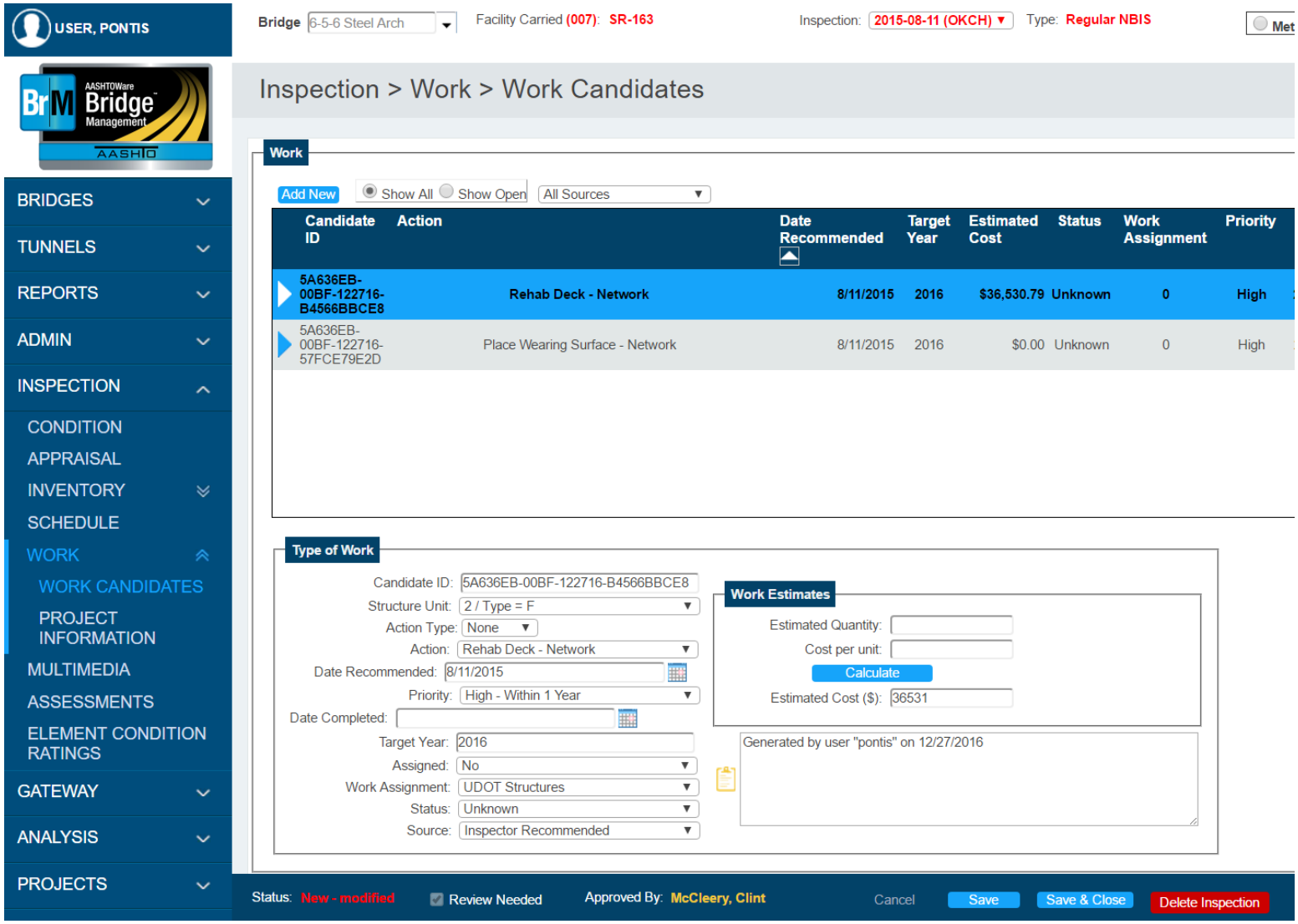
Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer



Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer



Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

Bridge 1C 700 Name: I-215 Fly over Ramp Br Facility Carried (007): RP.I215NB TO I80WB Feature Intersected (006A): I-215,I-80 & 4 INT.RAMF Metric English

Analysis > LCCA

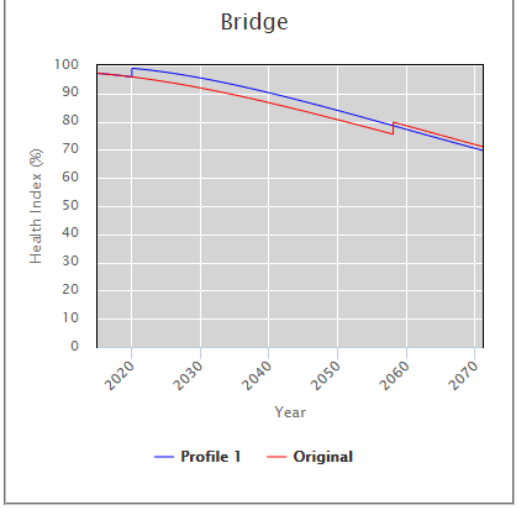
Culvert Policy: Culvert policy

Index	Date	Year	Action Name	Orig. Cost	NPV Cost	Prior A
1	2020	5	Column Repair, Profile Rotomilling	$40,000	$34,192	95.87
Residual:				$9,027,183	$1,044,043	
Agency Life-Cycle Cost:					$34,192	
User Life-Cycle Cost:					$0	
Total Life-Cycle Cost:					($1,009,851)	

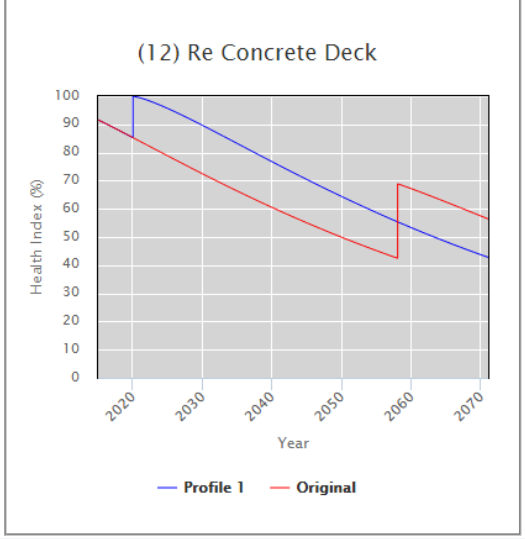
Charts

General Chart

Bridge Health Index



Element Chart



Effects on Each Element

Year: 2016

Element	Str. Unit	Env.	Quan
(12) Re Concrete Deck	101	Sev.(4)	43,129
(107) Steel Opn Girder/Beam	101	Low(2)	5,687.3
(161) Stl Pin Pin/Han both	101	Sev.(4)	16.00
(205) Re Conc Column	101	Mod.(3)	7.00
(215) Re Conc Abutment	101	Low(2)	60.00
(231) Steel Pier Cap	101	Low(2)	22.50
(234) Re Conc Pier Cap	101	Low(2)	172.00
(300) Strip Seal Exp Joint	101	Sev.(4)	120.00
(311) Moveable Bearing	101	Low(2)	16.00
(313) Fixed Bearing	101	Low(2)	12.00
(321) Re Conc Approach Slab	101	Sev.(4)	900.00
(331) Re Conc Bridge Railing	101	Sev.(4)	3,301.1
(5000) General Notes	200	Ben.(1)	1.00
(5001) Roadway / Channel / Drainage	200	Ben.(1)	3.00
(5002) Maintenance Recommendations	200	Ben.(1)	3.00
(5103) Asphalt Overlay w/ Membrane	101	Sev.(4)	39,382
(5203) Steel Protective Coating (515)	101	Low(2)	96,473
(5300) Reinforced Concrete Wingwalls	101	Low(2)	60.30

Contact

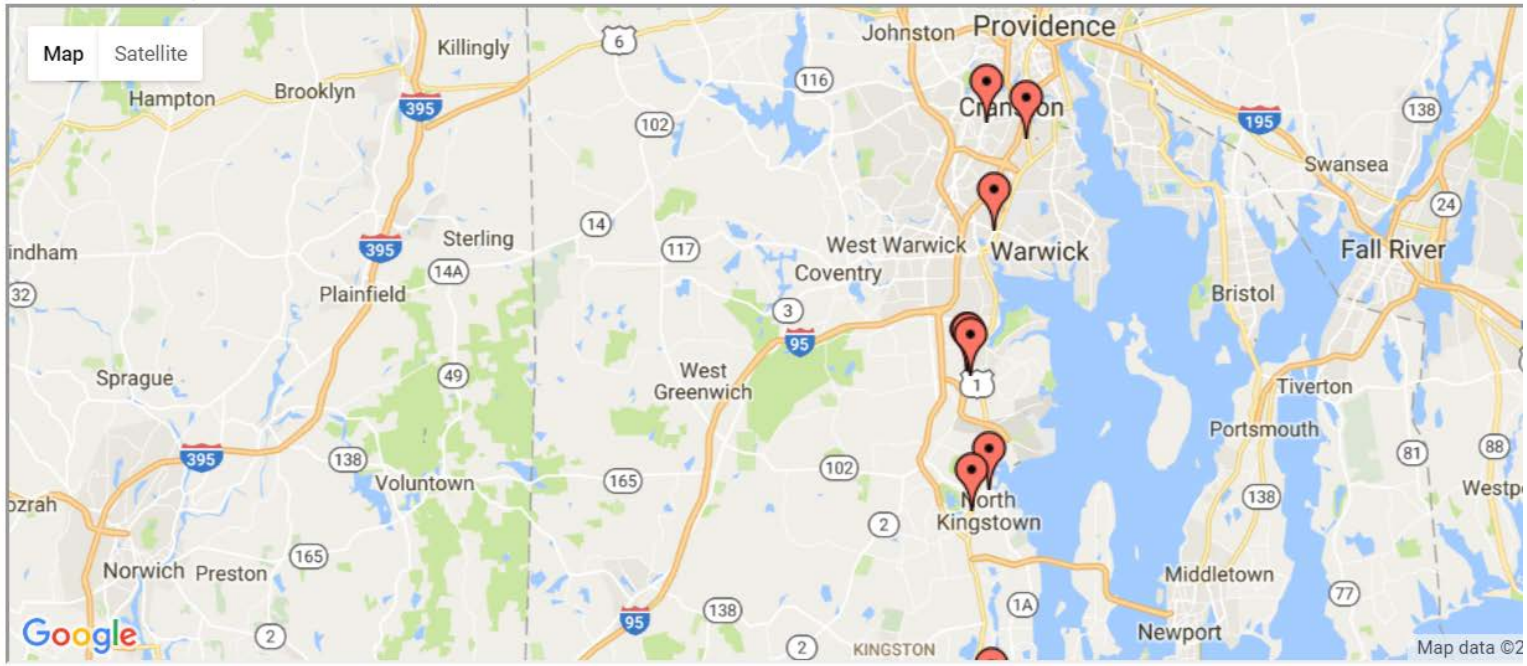
Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

Selected Project: PRJ 3/10/2017 | Create New

Projects > Create / Edit Project > Query

Bridge View | Bridge Map View



Selected Bridges and Work

Bridge ID	District	County	Facility Carried	Feature Intersected	Deck	Superstructure	Substructure
000201	04	003	RI 113 MAIN AV	AMTRAK	7 Good	7 Good	7 Good

Action	Work Item	Base Utility	Utility	Utility Change	Estimated Cost	Benefit/Cost($k)
Replace Super - Network	Generated 03/10/2017	97.53	97.41	-0.12	$3,707,360	0

Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

Programs > Program Planning

Keep assigned projects: No
Run on all scenarios: No
Respect external frozen projects: Yes

Program Information

Start Year: 2017
End Year: 2021
Utility Weight Profile: Sample
Assigned Network Policies: Rehab Culvert, Replace Bridge, Replace Culvert, Rehab Super, Replace Deck, Rehab Sub, Rehab Deck

Subdivision Profile: NHS status
NBI Deterioration Method: NbiConverter
NBI Converter Profile: BrM Default

Optimization Progress

Complete!

Progress Messages

Get Project Alternatives	9/14/2016 11:31:04 AM
Getting work candidates	9/14/2016 11:31:04 AM
Processing Segment 2	9/14/2016 11:31:05 AM
Persisting Segment 2's Results	9/14/2016 11:38:34 AM
Year: 2017 Project Count: 170	9/14/2016 11:39:17 AM
Year: 2018 Project Count: 53	9/14/2016 11:39:42 AM
Year: 2019 Project Count: 22	9/14/2016 11:40:01 AM
Year: 2020 Project Count: 15	9/14/2016 11:40:18 AM
Year: 2021 Project Count: 9	9/14/2016 11:40:36 AM
Processing Segments Completed	9/14/2016 11:40:40 AM
Finalizing Data	9/14/2016 11:40:40 AM
Program Optimization Complete	9/14/2016 11:40:40 AM

Assigned Projects

Segment: All Year: All

Project Name	Category	Automatic	Cost	Utility	Utility Benefit	Benefit/Cost ($k)	Cost ($k) / Benefit	Year	Frozen	Status
031000(Replace Deck)	No Category	Yes	$70,000	88.05	10.46	0.1494	$6.69	2017	No	Proposed
021206(Rehab Culvert)	No Category	Yes	$29	91.14	0.03	1.0509	$0.95	2021	No	Proposed
020956(Rehab Culvert)	No Category	Yes	$168	90.51	0.02	0.1194	$8.38	2021	No	Proposed
020955(Rehab Culvert)	No Category	Yes	$187	89.81	0.03	0.1601	$6.25	2021	No	Proposed
020786(Rehab Deck)	No Category	Yes	$1,452	88.88	0.71	0.489	$2.05	2017	No	Proposed
020783(Rehab Culvert)	No Category	Yes	$2,734	82.12	0.14	0.0512	$19.53	2020	No	Proposed
020774(Replace Deck, Replace Super)	No Category	Yes	$75,566	57.34	17.03	0.2254	$4.44	2017	No	Proposed
020774(Rehab Sub)	No Category	Yes	$343,981	70.7	16.49	0.0479	$20.86	2021	No	Proposed
020762(Replace Deck, Replace Super)	No Category	Yes	$396,800	84.53	24.72	0.0623	$16.05	2020	No	Proposed
020762(Rehab Deck)	No Category	Yes	$62	65.53	0.03	0.4841	$2.07	2017	No	Proposed
020738(Rehab Culvert)	No Category	Yes	$121	89.46	0.25	2.0619	$0.49	2021	No	Proposed
020726(Replace Deck, Replace Super)	No Category	Yes	$148,436	77.83	19.06	0.1284	$7.79	2018	No	Proposed
020714(Replace Deck)	No Category	Yes	$42,400	85.03	5.72	0.1349	$7.41	2018	No	Proposed
020712(Rehab Culvert)	No Category	Yes	$5,380	85.36	0.29	0.0539	$18.55	2020	No	Proposed
020702(Replace Deck, Replace Super)	No Category	Yes	$128,800	71.83	31.49	0.2445	$4.09	2017	No	Proposed

First | Previous | 1 | 2 | 3 | Next | Last

Items per page: 15

Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

Contact

Who uses BrM
When to use BrM
How to use BrM

Bridge Inspection
Tunnel Inspection
Repairs
Projects
Programs
Performance Measures
Scenario Explorer

Programs > Scenario Explorer

BrM Help Desk

AASHTOWareBridge.com

BrM@Bentley.com

JIRA tickets:
bridgeware.atlassian.net

Zachary Boyle, PE

BrM Solutions Consultant

Zac.Boyle@Bentley.com

Or add '@ZacBoyle' to your JIRA tickets