BrM 5.X Presentations

- Josh Lang
- Chris Meredith
- Jeremy Shaffer

Formerly

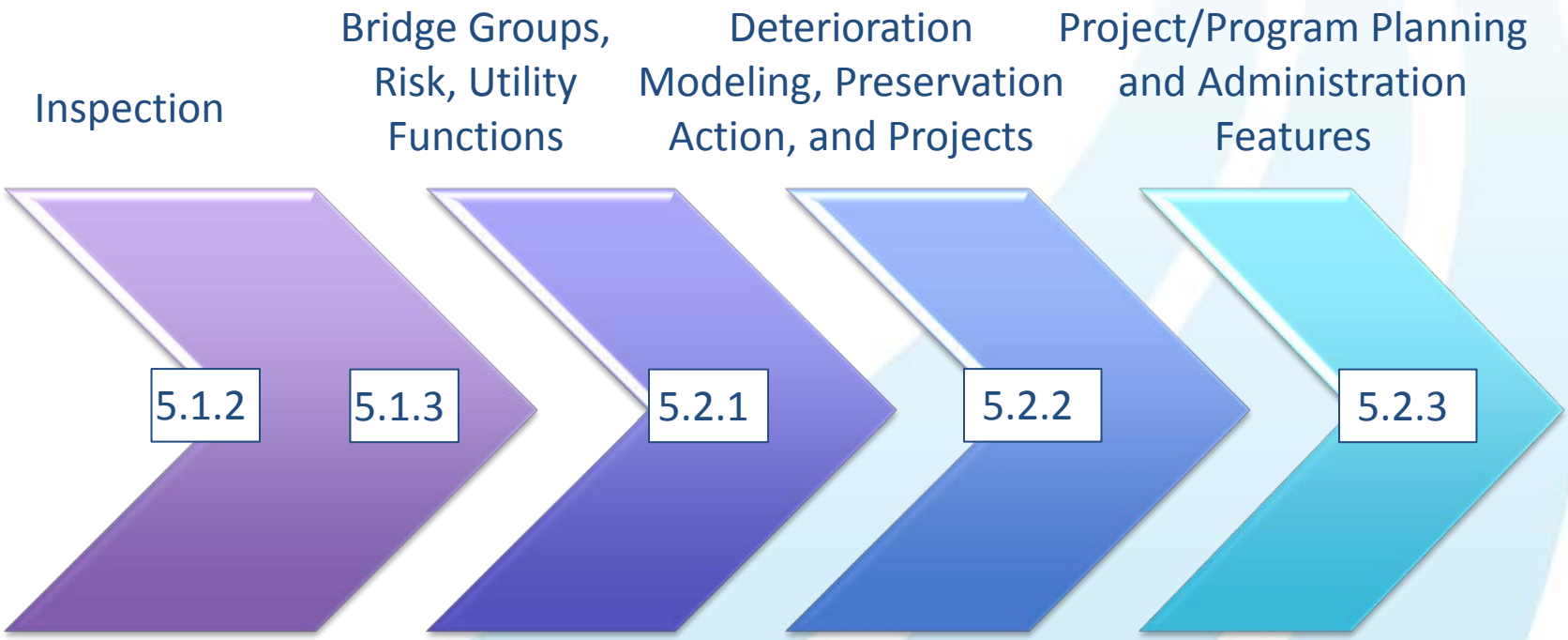
Outline of 5.X Presentations

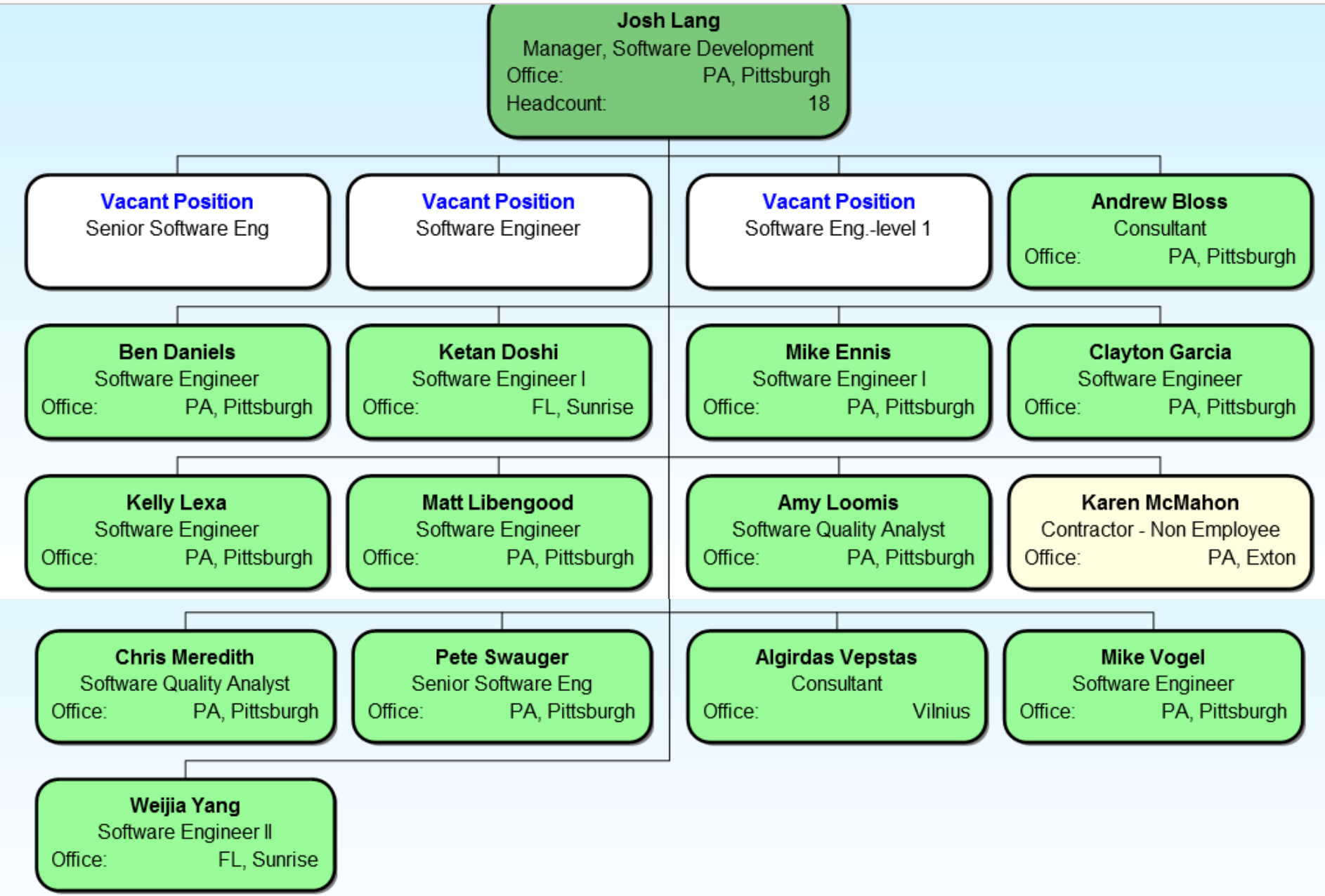
- Presentation/Demonstration of 5.1.3
  - Support for AASHTO Elements
  - Currently Available!
- Presentation/Demonstration of 5.2.1
  - In last stage of updates and alpha testing
  - Onsite beta testing next month
- Presentation on next steps 5.2.2 / 5.2.3

5.2 Development Phases

- Phased releases
  - Version 5.2.1 – In Final Stages
    - Utility Functions, Multi-Objective Analysis Engine, New Filters/Layouts, Mapping, Bridge Analysis Groups, New AASHTO Elements.
  - Version 5.2.2
    - Implementation of new deterioration models, preservation actions, and project analysis
  - Version 5.2.3
    - Integrated project and program planning
    - Advanced administrative features

Pontis 5.2 Stages




Josh Lang
Manager, Software Development
Office: PA, Pittsburgh
Headcount: 18
Vacant Position
Senior Software Eng
Vacant Position
Software Engineer
Vacant Position
Software Eng.-level 1
Andrew Bloss
Consultant
Office: PA, Pittsburgh
Ben Daniels
Software Engineer
Office: PA, Pittsburgh
Ketan Doshi
Software Engineer I
Office: FL, Sunrise
Mike Ennis
Software Engineer I
Office: PA, Pittsburgh
Clayton Garcia
Software Engineer
Office: PA, Pittsburgh
Kelly Lexa
Software Engineer
Office: PA, Pittsburgh
Matt Libengood
Software Engineer
Office: PA, Pittsburgh
Amy Loomis
Software Quality Analyst
Office: PA, Pittsburgh
Karen McMahon
Contractor - Non Employee
Office: PA, Exton
Chris Meredith
Software Quality Analyst
Office: PA, Pittsburgh
Pete Swauger
Senior Software Eng
Office: PA, Pittsburgh
Algirdas Vepstas
Consultant
Office: Vilnius
Mike Vogel
Software Engineer
Office: PA, Pittsburgh
Weijia Yang
Software Engineer II
Office: FL, Sunrise

BrM 5.1.3 Overview

- Josh Lang
- Chris Meredith
- Jeremy Shaffer

Overview of BrM(Pontis) 5.1.3

- Current available version of BrM(Pontis)
- Last version ***named*** Pontis. Newer versions will be named AASHTOWARE Bridge Management Software(BrM)
- Code base/database is still the same. Version 5.1.3 will be updateable to newer versions.

5.1.3 Features

- Ability to Import Migrated Elements
  - XML files created in the Element Migrator
- Updated database scripts
  - Database scripts combined into one
- Sp1 Update of Version 5.1.3 Released
  - Fixes bug with creation of NBI tape

Why Change?

- Computer Technology Answer:
  - Have to stay up with technology to support user base
  - New Operating Systems
  - New Database
  - New Programming Languages
  - New Protocols/Standards
  - Internet
  - Better performance, enhanced capabilities, and more features.

Why Change?

- Element Answer:
  - In early 2011 AASHTO officially adopted the AASHTO Guide Manual for Bridge Element Inspection
  - New elements (CoRe -> NBE)
- Provides a foundation for improving bridge management
- Incorporate 15+ years of extensive user comments
- Simplify for usability and capability
- Better align with state DOT business practices

AASHTO Elements (NBEs/BMEs)

- Parent/Child relationship established
- All elements now have 4 condition states
- Defect flags applied at the element level
- Elements can be set to deteriorate or not

- Great flexibility and supports what is needed for the bridge management modeling

Pontis 5.1.3

- Allows for new National Bridge Elements
- Improved Interface
- Fixes a number of issues
- New export/import options
- Some speed enhancements

Significant Changes From 4.x

- CoRe elements are read-only
- Sybase no longer supported
  - Oracle and Microsoft SQL options
- All Crystal Reports no more DW.NET
- XML option for exporting/importing
- Support for importing Migrator data

New Feature – NBE/BME Elements

- 2011 AASHTO Bridge Element standard that replaced CoRe elements for element level bridge inspections
- Fully supported in Pontis starting with version 5.1.2/5.1.3
- CoRe elements still visible in Pontis but all new inspections will be NBE/BME

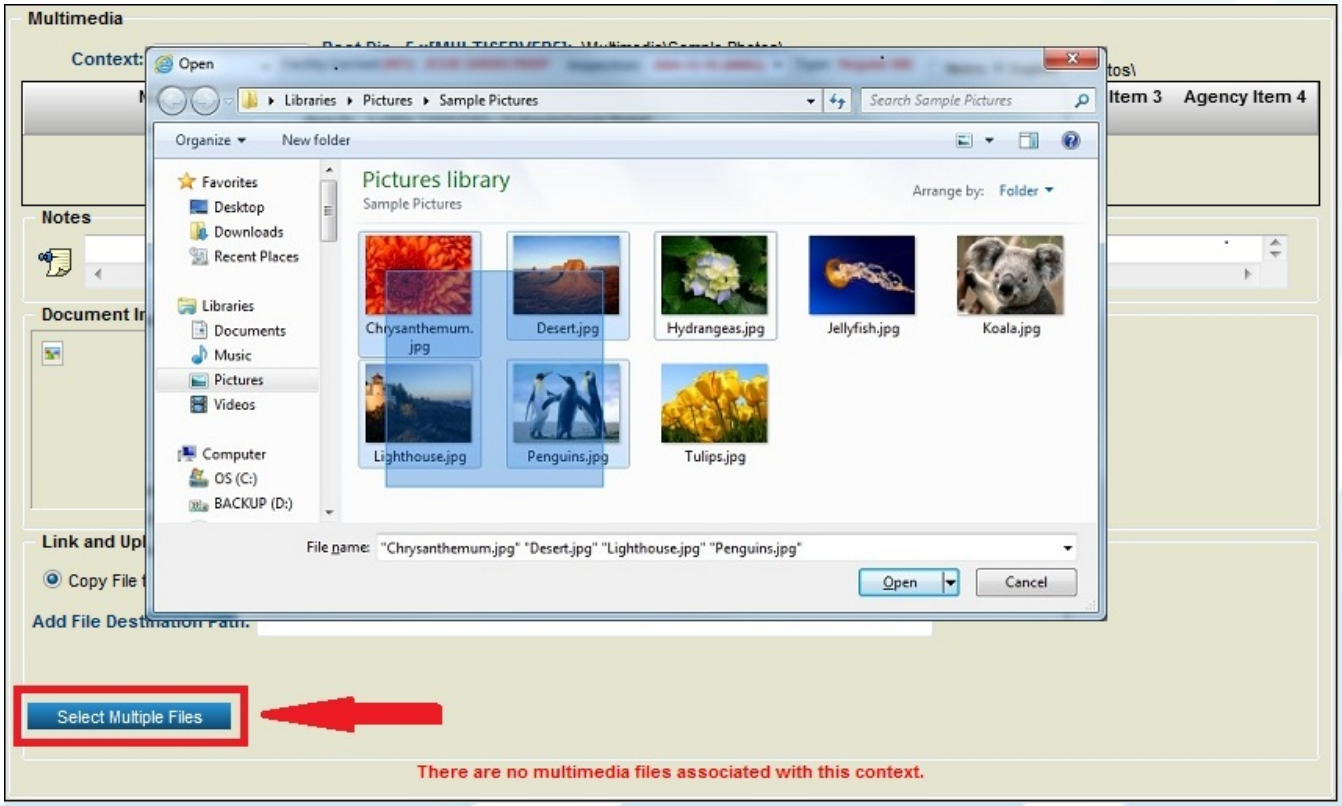
New Feature – Protective Systems

- Parent/child relationships
- Easily identifiable through icons

	Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4
	107	0 / Type = M (0)	Ben. (1)	Steel Open Girder / Beam	1640.420	ft	1640	0	0	0
	116	0 / Type = M (0)	Ben. (1)	R/C Stringer	1.000	ft	1	1	0	0
	358			*Concrete Cracking*	1.000	*ft*	1	0	0	0
	515			*Steel Protective Coating*	1.000	*sq.ft*	1	1	0	0
	202	0 / Type = M (0)	Low (2)	Steel Column	24.000	each	0	0	24	0
	241	0 / Type = M (0)	Low (2)	R/C Culvert	1.000	ft	1	0	0	0

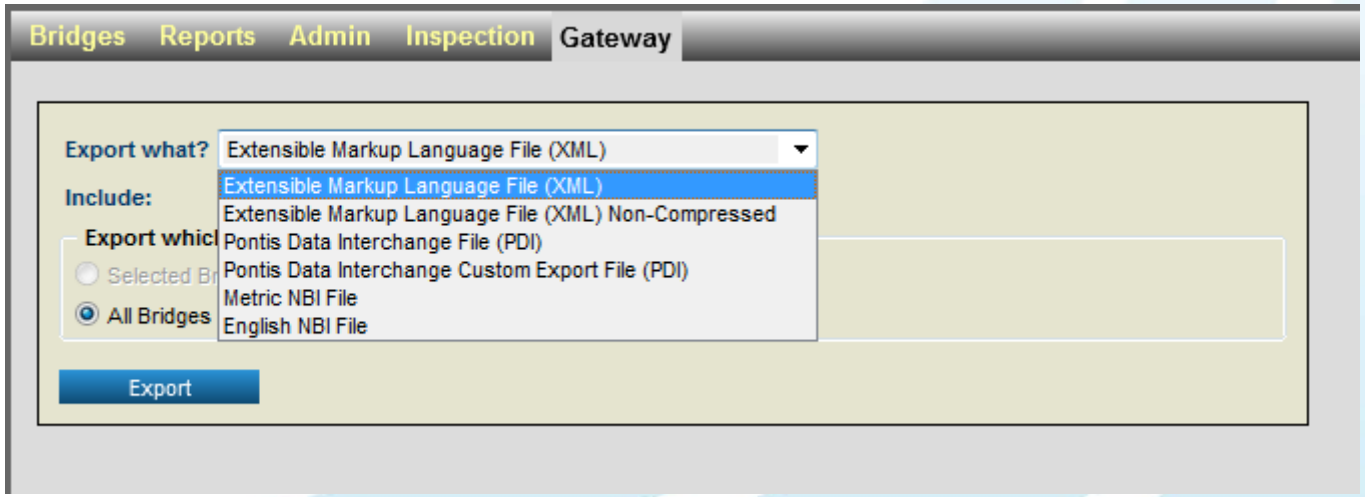
New Feature – Multi File Uploads

- Ability to upload multiple Files at once



New Feature – XML Export/Import

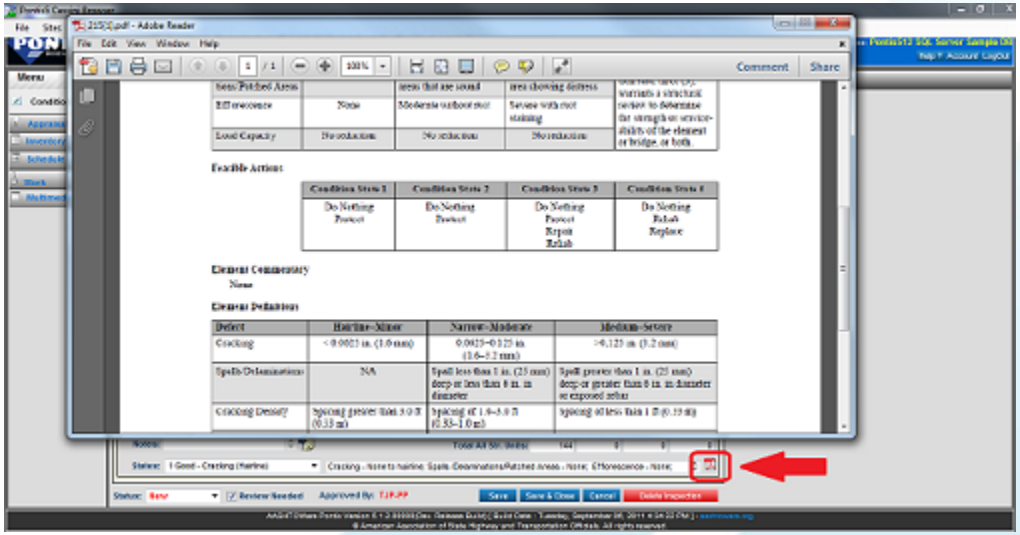
- XML is an industry standard format for saving and transferring data



- PDI is still available option for exporting/importing data

New Features – User Requested Features

- Integrated Guide Manuals

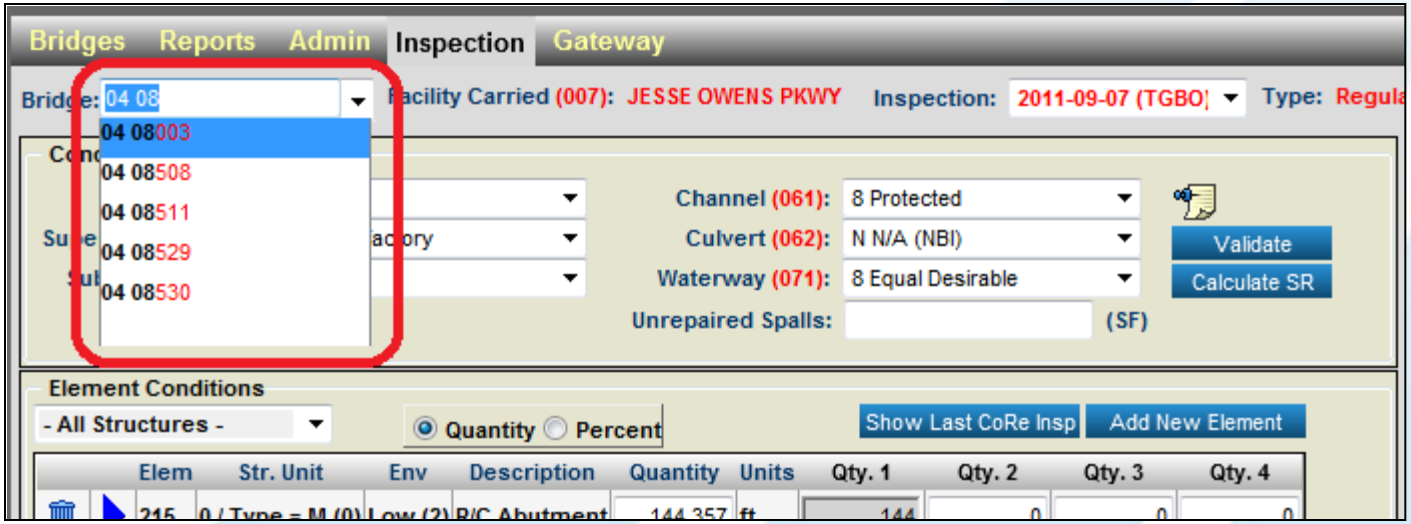


- Easy access to past CoRe elements

	Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4	Qty. 5
	241	0 / Type = M (0)	Low (2)	(CoRe)Concrete Culvert	647.999	(LF)	641	7	0	0	0
	333	0 / Type = M (0)	Low (2)	(CoRe)Other Bridge Railing	157.999	(LF)	158	0	0	0	0
	334	0 / Type = M (0)	Low (2)	(CoRe)Misc. Rail -.33 m sw	342.001	(LF)	342	0	0	0	0
	515	0 / Type = M (0)	Low (2)	(CoRe)Custom R/C Wing Wall	354.326	(LF)	354	0	0	0	0

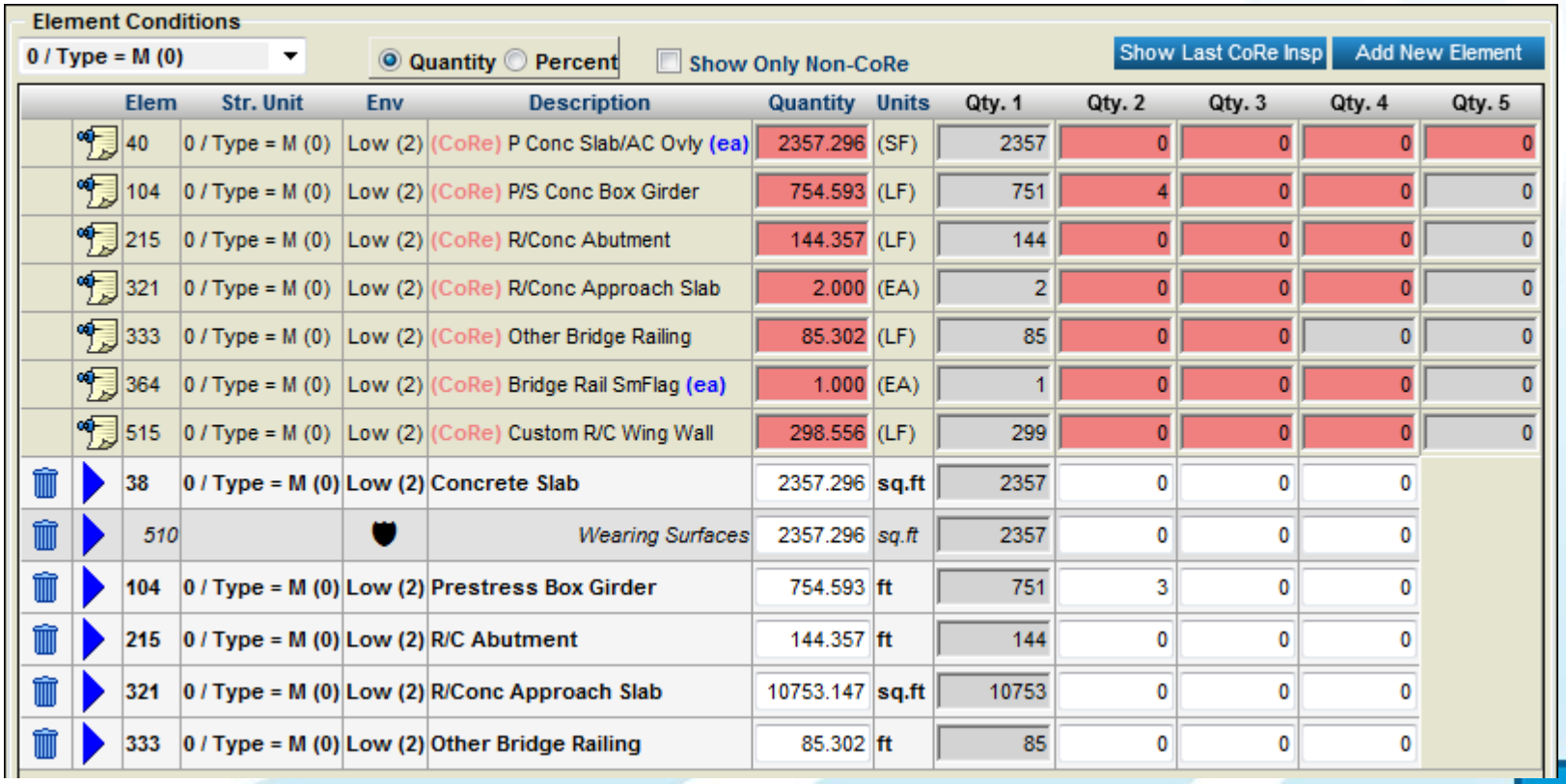
New Feature – On Demand Lists

- Filter bridges as you type



5.1.3 FAQ's

– AASHTO Elements only (version 2011)



Element Conditions

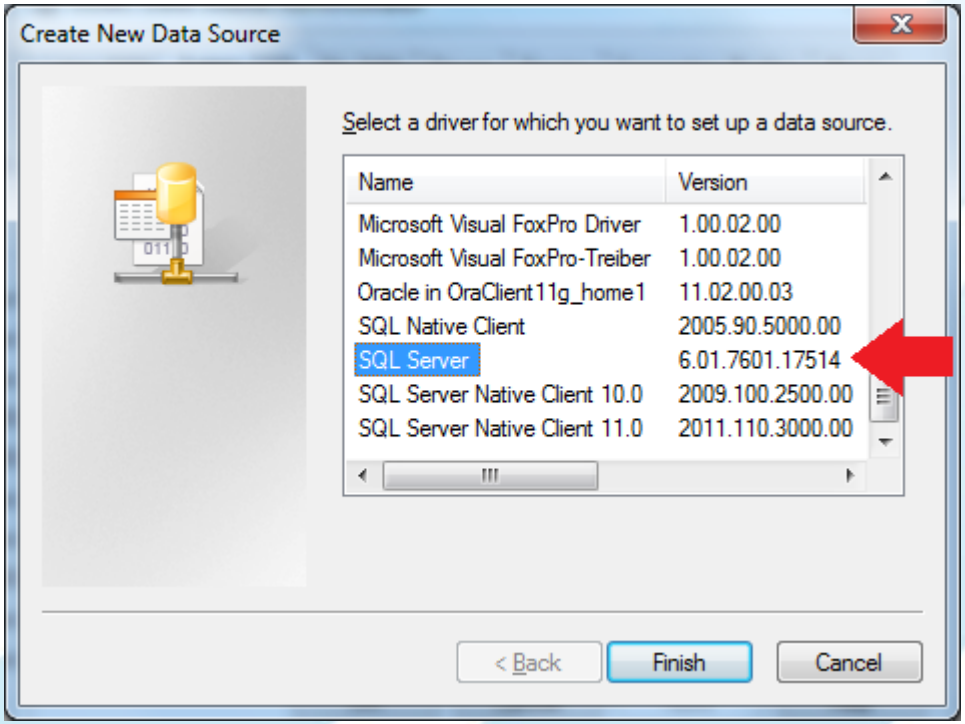
0 / Type = M (0) | Quantity | Percent | Show Only Non-CoRe | Show Last CoRe Insp | Add New Element

Elem	Str. Unit	Env	Description	Quantity	Units	Qty. 1	Qty. 2	Qty. 3	Qty. 4	Qty. 5
40	0 / Type = M (0)	Low (2)	(CoRe) P Conc Slab/AC Ovly (ea)	2357.296	(SF)	2357	0	0	0	0
104	0 / Type = M (0)	Low (2)	(CoRe) P/S Conc Box Girder	754.593	(LF)	751	4	0	0	0
215	0 / Type = M (0)	Low (2)	(CoRe) R/Conc Abutment	144.357	(LF)	144	0	0	0	0
321	0 / Type = M (0)	Low (2)	(CoRe) R/Conc Approach Slab	2.000	(EA)	2	0	0	0	0
333	0 / Type = M (0)	Low (2)	(CoRe) Other Bridge Railing	85.302	(LF)	85	0	0	0	0
364	0 / Type = M (0)	Low (2)	(CoRe) Bridge Rail SmFlag (ea)	1.000	(EA)	1	0	0	0	0
515	0 / Type = M (0)	Low (2)	(CoRe) Custom R/C Wing Wall	298.556	(LF)	299	0	0	0	0
38	**0 / Type = M (0)**	**Low (2)**	**Concrete Slab**	2357.296	**sq.ft**	2357	0	0	0	
510			*Wearing Surfaces*	2357.296	*sq.ft*	2357	0	0	0	
104	**0 / Type = M (0)**	**Low (2)**	**Prestress Box Girder**	754.593	**ft**	751	3	0	0	
215	**0 / Type = M (0)**	**Low (2)**	**R/C Abutment**	144.357	**ft**	144	0	0	0	
321	**0 / Type = M (0)**	**Low (2)**	**R/Conc Approach Slab**	10753.147	**sq.ft**	10753	0	0	0	
333	**0 / Type = M (0)**	**Low (2)**	**Other Bridge Railing**	85.302	**ft**	85	0	0	0	

5.1.3 FAQ's

– SQL Server ODBC Driver

- Use the SQL Server "6.01.7601.17514"



5.1.3 FAQ's

- Internet Explorer 10 Not Supported
  - Version 8 and 9 supported
- IE 10 is a critical update but can be uninstalled
- Non-IE browsers are not supported
  - Chrome
  - Firefox
  - Safari

DEMO

Bridge Management Contact Info:

Feel free to contact us or visit our website for more information:

Website: http://aashtowarebridge.com

Support line: 1-877-913-1550

Support email: brm@bentley.com

JIRA: https://bridgeware.atlassian.net/