Pontis 5.1.2
Supporting AASHTO NBE Inspections

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National Bridge Management, Inspection and Preservation Conference
Enhancement and Support of Pontis 5.1.2

Agenda

- How did we get here?
- Where we are now?
  - Pontis 5.1.2 Basics
  - Common Questions
- What does the future hold?
- Questions
Pontis Basics

- Development started in the early 1990’s under FHWA guidance
- Part of AASHTOWARE – BRIDGEWare software
- Licensed by over 40+ states
- Supports AASHTO element level inspection and management
How Did We Get Here?

- RFP released in late 2010 for Pontis 5.1.2
- InspectTech selected early 2011
- InspectTech began working with Pontis in March 2011 when we started implementing the new National Bridge Elements into Pontis 5.1.0.3/5.11
- Intensive learning and development of Pontis through Spring/Summer
The Basics of Pontis 5.1.2

- Pontis 5.1.2
  - Built off of the existing 5.X architecture (5.11/5.1.03)
  - Add support for new AASHTO National Bridge Elements
  - Assorted minor enhancements
  - “Features release”

- Goal: Allow for NBE/BME inspections to be done with Pontis and lay the foundation for 5.2 (management).
Pontis 5.1.2

- Allows for new National Bridge Elements
- Improved Interface
- Fixes a number of 5.11 issues
- New export/import options
- Some speed enhancements
- Improved installation
Graphical User Interface

Enhancement and Support of Pontis 5.1.2

PONTIS BRIDGE MANAGEMENT SYSTEM

Element Conditions

- All Structures -

<table>
<thead>
<tr>
<th>Elem</th>
<th>Str. Unit</th>
<th>Env</th>
<th>Description</th>
<th>Quantity</th>
<th>Units</th>
<th>Oty. 1</th>
<th>Qty. 1</th>
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<td>12</td>
<td>0 / Type = M (0)</td>
<td>Low (2)</td>
<td>Concrete Deck</td>
<td>400.000</td>
<td>sq.ft</td>
<td>100</td>
<td>200</td>
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<td>Low (2)</td>
<td>Prestress Box Girder</td>
<td>530.03</td>
<td>ft</td>
<td>350</td>
<td>50</td>
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<tr>
<td>300</td>
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<td>Low (2)</td>
<td>Concrete Casing</td>
<td>20.000</td>
<td>ft</td>
<td>0</td>
<td>0</td>
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<td>R/C Abutment</td>
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<td>ft</td>
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<tr>
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<td>ft</td>
<td>70</td>
<td>80</td>
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<tr>
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<td>P/S Conc Cap</td>
<td>30.000</td>
<td>ft</td>
<td>20</td>
<td>10</td>
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</tbody>
</table>

Significant Changes from 5.11

- 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
- Unable to utilize NBI translator
- Single action type adopted for all work candidates
New Feature – NBE/BME Elements

• Newly adopted bridge element standard that replaces CoRe elements for element level bridge inspections

• Fully supported in Pontis starting with version 5.1.2

• 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
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 Feature – User Requested Features

- Integrated Guide Manuals

- Easy access to past CoRe elements
New Feature – On Demand Lists

- Performance improvement for agencies with large databases, from 70 sec load time to 7 sec load time
- Filter bridges as you type
New Feature – Work Actions

- Single action type
- Other types converted to new type
Reporting

- Full support of Crystal Reports
  - Used for creation of all new reports
- Consistent structure to show elements for a bridge and their associated items
- Summary reports can group elements, flags, protective systems, and NBI data as needed
Database Access/Schema Structure

- New Tables and Indexes created to support 5.1.2 and 5.2 changes
- Six new tables added for 5.1.2
- All legacy tables and historical data still exist
Some Common Questions

- 64 Bit Support?
  - Officially - No 😞
  - Unofficially - Yes 😊
- Can I just click a button and get my CoRe Elements into NBE format?
  - Not quite ... see Migrator talk
- Can I edit CoRe elements in 5.1.2?
  - No
- How do I finally upgrade from Sybase?
Documentation

• Significant Documentation Updates
  – Updated User Manual
  – Updated Technical Manual
  – Update Help Files
  – Embedded PDF Files Of Element Descriptions
Improved Communication

- New Website
  - http://pontis.inspecttech.com/
- New Support Center, Email, Phone Contact
- Regular Updates
  - Emails
  - Website
- Survey for feedback
- Regular Webinars – Nov 17th 1PM EST.
Foundation for Pontis 5.2

- Will perform multi-objective modeling with new element data.
- Improved elements supports new modeling
- Inclusion of risk in the decision making process
- Improved decision support tools for:
  - Preventive maintenance
  - Risk management
  - Improvement and replacement
  - Combinations of the above
Summary Items

- Pontis 5.1.2 very close to completion
  - Numerous (but not all) bugs from 5.11 fixed
  - Big THANK YOU to TAG and Task Force for all the time spent!
- Support center fully ramped up
- Pontis 5.2 work to began in detail soon
- Pontis 5.2 will be a phased implementation
  - It will actually get done
  - It will work
Questions?