PONTIS 5.1 RELEASED SEPTEMBER 2009!
• Expand the definition of platform classification
  • Release Tested Platform– Entails rigorous testing
    • Windows XP
    • Windows Server 2003 R2 (32-bit)
    • Internet Explorer 6
    • All software as specified in the AASHTOWare Catalog

• Supported Platform– Does not meet rigorous testing but is quite close to a Release Tested Platform
  • Intended Supported Platform
    • Windows 7
    • Windows Server 2008 Standard (32-bit)
    • Internet Explorer 8
Pontis 5.1 – Future Enhancements

• More robust navigation and field level security
  • Will allow a user to be a member of multiple roles
  • Each role will have field level security and pre-defined permissions associated with it

• Improved Performance
  • The Pontis 5.1 source code being revised to complete transactions much faster. The goal is to be as fast or faster than Pontis 4.X

• Software Lock
  • Allow international distribution of the enterprise and local versions of Pontis 5.1
  • Allows the deployment of evaluation and educational licenses of the software with an expiration date
Pontis 5.2 Design Strategy and Status

- Will build on Pontis 5.1 data and inspection interface.
- Incorporation of the New AASHTO Elements.
- Inclusion of risk in the decision making process.
- Design document:
  - Requirement Specs
  - 11 Design Studies
  - Life Cycle Cost Analysis
  - Improved models
  - Mock-up web pages
  - Complete 7/7/2010
- Release FY2012
Digital dashboard offers better decision support

Improved decision support tools for:

- Preventive maintenance
- Risk management
- Improvement and replacement

Combinations of the above

More adaptable to both large and small agencies
Pontis 5.2 Multi-Objective

- Combines life cycle cost, condition, risk, mobility, etc.
- Sensitive to agency policy
- Rich graphic feedback
Pontis 5.2 Program Level Planning

- Much more interactive, with more policy and budget flexibility
- Better communication of costs and benefits of bridge work, near-term and long-term
- Better suited for changing funding environments
Virtis Opis Update

Virtis-Opis 6.2

Release July 2010
Virtis – User Requested Features

- Ability to analyze truss with Counters & Suspended Spans
- R/C beam hinges
Virtis – User Requested Features

• Load rating of Deck-Thru Trusses

• Floor Truss with Element Loads
NEW AASHTO LRFR Analysis Engine for Steel Superstructures through 2008 interims
• Shear connector design wizard
Opis User Requested Features

- Moment magnification for substructure
Opis – Major Enhancement

• AASHTO Owned and Maintained LRFD Steel Superstructure Analysis and Specification Checking Engine (through 2008 interims)
Virtis/Opis - BRASS

• Since beginning of the product, WYDOT’s BRASS Engine has always shipped with Virtis/Opis
• Provided reliable analysis to all modeling within Virtis/Opis
• Agreement between AASHTO & WYDOT set to expire on June 30, 2011
• BRASS will become a 3rd party analysis engine
• Users may still use BRASS from within Virtis/Opis (as they currently do), but will need a separate license from WYDOT.
Virtis/Opis Goals

- Develop V/O analysis engine (AASHTO engine)
- Ensure that there is no reduction in capabilities that BRASS currently provides
- 3D analysis
- Bridge Types used by majority of the agencies
- Continue to advance substructure modeling/analysis
- Improve interface and reporting
- Continue to advance 3rd party development
Virtis/Opis Steps to Advance Goals

- Prepare for expiration of BRASS agreement
- Develop full 3D (refined) analysis
- Add new bridge and substructure types
- Update input/output
- Continue to discuss 3rd party issues with outside developers
Virtis/Opis Goals – Analysis

- AASHTO Engine – Steel LRFD/LRFR (July 2010)
- AASHTO Engine – RC/PS/Steel LFR (June 2011)
- Ensure similar-to-BRASS functionality (June 2011)
- Full 3D analysis (June 2012)
Virtis/Opis Goals – Bridge Types

- Culverts (June 2012)
- RC Slab Systems (June 2012)
- Steel Curved Girders (June 2012)
- RC Box Girders (June 2013)
- Post-Tensioned Multicell Box Beams (June 2013)
Virtis/Opis Goals – Substructure

- Substructure LRFR rating (June 2011)
- Drilled shafts (June 2012)
Virtis/Opis Goals – Beyond 2013

• Updated GUI, include trusses
• Stronger reporting tools
• Full gusset plate analysis
• Frame analysis
• Ratings for Bridge Decks
• Integral Abutments
• Steel Box Girders
Pontis Licenses

Other Licensees:
FHWA, District of Columbia & Puerto Rico
State Licences =43

Map Key
Licensed
Non-Licensee
International

County/City | State
------------|-------
Los Angeles Co | CA
Santa Clara Co | CA
City of Phoenix | AZ
Penn. Turnpike | PA

International
Italy

2008/2009/2010 Licences
User Group Training Meetings

- **Virtis/Opis**
  - August 3 – 4, 2010
  - Nashville, Tennessee

- **Pontis**
  - September 21 – 22, 2010
  - Newport, Rhode Island
# BRIDGEWare Task Force

<table>
<thead>
<tr>
<th>Chairperson</th>
<th>Vice Chair</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Pontis TF – Acting Vice Chair</td>
<td>Mike Johnson</td>
<td>California</td>
</tr>
<tr>
<td>Pontis TF</td>
<td>Paul Jensen</td>
<td>Montana</td>
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<tr>
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<td>Scot Becker</td>
<td>Wisconsin</td>
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<tr>
<td>Pontis TF</td>
<td>Francois Ghanem</td>
<td>New York</td>
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<tr>
<td>Pontis FHWA</td>
<td>Wade Casey</td>
<td>FHWA</td>
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<tr>
<td>Virtis/Opis TF</td>
<td>Dean Teal</td>
<td>Kansas</td>
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<td>Beckie Curtis</td>
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<td>Virtis/Opis TF</td>
<td>Bryan Silvis</td>
<td>Virginia</td>
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<tr>
<td>Virtis/Opis TF – Acting Chair</td>
<td>Tim Armbrecht</td>
<td>Illinois</td>
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<tr>
<td>Virtis/Opis FHWA Liaison</td>
<td>Tom Saad</td>
<td>FHWA</td>
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Thanks for your continued support