AASHTOWare Bridge Rating
“Vision for the Future”

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Current BrR Goals

- Bridge Types used by majority of the agencies
- Continue to advance substructure modeling/analysis
- FEA/3D analysis
- Improve reporting
- Continue to advance 3rd party development
- Update software / improve interface
Survey Results 2011 UG Meeting

1) Frame analysis
2) Multiple ways to sort Bridge Explorer
3) Concrete Arches
4) Truss GUI
5) Reports compatibility with Excel
6) LRFR Gusset Plate Analysis
7) Improved GUI with less input
8) PT I-beams & tub girders
9) Truss LRFR
10) Non-standard gauge LRFR
11) Steel box girder
12) Steel bridges with simple DL/continuous LL
13) NSG for floor systems
14) Integral abutments
15) Ratings for bridge decks
16) Pour sequence / load patterning
17) Refined deterioration analysis with FEA
BrR 2012 Release

- Full 3D analysis
- RC Culverts
- Model mild steel in PS beams
- Allow user to select limit states to be evaluated
- 2011 spec updates
- R/C web & flange variation
- Web thickening near supports for PS beams
- Option to select lever rule
BrR 2013 Release

- Curved Girder analysis
- Gusset Plate Analysis (LFR/LRFR) (tentative)
- RC Slab Systems
- RC Box Girders
- Post-Tensioned Multicell Box Beams
- LRFR for NSG analysis
- Capacity override enhancement
BrR 2014 Release (Tentative)

- LRFR Truss Analysis
- Frames
- Substructure rating (LFR/LRFR)
- New report tools
• Virtis/Opis development is 15 years old!
• Inevitable changes in hardware & software platforms
• Environment, tools, code
• Requires resources (time, money, etc...)
• Looking to take advantage of new systems/features/tools
• Need to determine reasonable budget/schedule
BrR “long term” plan

- Software Migration
- Stronger reporting tools
- More Iterative Design Tools
- Truss GUI
- Expand PT to other structure types
- Concrete Arches
- Steel Box Girders
- Expand NSG analysis
Questions & Comments

Thanks for your continued support