



AASHTOWare® Update Subcommittee on Materials

August 4, 2008

By:

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AASHTOWare Product Update

- DARWin-ME
 - Tony Bianchi
- Trns•port – Materials Efforts
 - Tim Lindberg



What Is AASHTOWare?

- AASHTOWare is software developed, supported and maintained through an economical, not-for-profit, pooled-fund process known as “AASHTOWare Cooperative Software Development” program.
- www.aashtoware.org



Who uses AASHTOWare?

- 50 state highway agencies, plus the District of Columbia and Puerto Rico license one or more AASHTOWare products
- 3 Canadian provinces, numerous foreign countries, counties, cities, universities, and consulting firms



DARWin-ME

- Mechanistic Empirical Pavement Design Software
- To replace DARWin 3.1 which is based on empirical equations developed from the AASHO Road Test from 50 years ago
- Based on NCHRP 1-37A study to develop the new AASHTO Mechanistic Empirical Design Guide and its related research grade software
- Need to move research software (release 1.0) to production grade software



DARWin-ME (cont.)

- MEPDG software transferred to the AASHTOWare Program
- DARWin Task Force prepared a project solicitation to raise necessary funds - issued June 2008
- Seeking funding from 18 member agencies @ \$100,000 each (\$1,800,000) which can be split equally between FY09 and FY10
- Canadian provinces interested - partially due to SI unit inclusion
- Project solicitation closes November 1, 2008
- Sole source contract with NCHRP contractor: ARA



Benefits of Participation

- Supporting the joint development effort
- Source code for funding agencies
- Eligible to nominate individual for appointment to the DARWin Task Force to guide development work (not all nominees will be appointed)
- Cost savings of working together
- Continued coordination of design guide and software



Questions

- Please contact:
 - Vicki Schofield, AASHTO Project Manager
vschofield@aaashto.org or 202-624-3640



Trns•port SiteManager

- Presented by:
 - Tim Lindberg (SCDOT)
 - Vice Chair of the Trns•port Task Force
 - Chair of the Trns•port Materials Technical Review Team



SiteManager Materials

- SiteManager version 3.9a
 - Released June 2008
- Laboratory Information Management System (LIMS) - **NEW**
 - Manage Lab workflow attributes for individual labs and users
 - Manage the Samples and Tests based upon the workflow attributes
- Materials Management
 - Establish Material, Producer/Supplier/Manufacturer, Laboratory, Qualifications, other reference data
 - Sampling & Testing entry & tracking
- Integration with Construction Management
 - Establish Item/Material relationships
 - Maintain Global and Contract specific Sampling and Testing Requirements and frequencies
 - Report Contract Sampling and Testing deficiencies



LIMS Functionality

- Developed by NYSDOT through use of AASHTOWare Contractor: Info Tech Inc.
- Multi-year, multi-million dollar effort
- Client/server platform
- Software contributed to AASHTOWare Trns•port for inclusion in generic product
- Prime example of member agencies working together for the benefit of all



LIMS integrates with SiteManager's security and tracked qualifications:

- User and group security
 - User Security
 - Group Security
- Technician/inspector sampling and testing certifications
 - Sampler Qualifications
 - Tester Qualifications
 - Material User
- Agency and third-party laboratory testing qualifications
 - Qualified Labs



LIMS integrates with SiteManager's Materials Management component:

- Material codes and descriptions
 - Material Detail
- Approved sources of materials
 - Producer/Supplier
 - Producer/Supplier Materials
- Requirements for testing materials
 - Sampling & Testing Requirements
- Material templates
 - Custom Materials Test Templates
 - May include 'calls' for results from other test templates.



LIMS provides features that allow you to...

- Integrate material management and lab management
- Restrict access to samples and tests
 - Based on qualifications and lab units
- Assign default tests
- Define sample testing workflow
 - Include alternative workflows
 - Include test-triggered events
- Establish material sample “chain of custody”
 - Keeps record of all labs that received sample
 - Keeps record of all edits to test data



LIMS provides features that allow you to...

- Maintain test queue
 - Assign qualified testers
 - Cancel tests or add more tests
 - Assign due dates
 - Indicate priority
- Customize and save window layout and data views
 - View data in a grid
 - Choose column and sort order
 - With easy-to-use filters, tailor how to display data
- Maintain sample queue
 - View all sample test results in a grid
 - Authorize samples



LIMS provides features that allow you to...

- Access inquiry-only LIMS data
 - Control access with group security
 - Display sample and test data/remarks
- Audit and track
 - Track sample and test status in LIMS workflow
 - View prior test results
 - Audit changes made to user records
 - Use established reference data from SiteManager
- Configure the LIMS system
 - Adjust system parameters and code tables



web Trns•port Development



What is web Trns•port?

- An initiative to move Trns•port from the client/server environment to the web environment
- Microsoft.NET, Agile development methodology
- Technical Review Teams (TRTs) organized for estimation, preconstruction, construction, materials, and civil rights
- Being developed in phases that correspond to functional areas of a project, i.e. preconstruction, construction, etc.
- Visit the preview site and the forum on Cloverleaf www.cloverleaf.net



web Trns•port projects

- web Trns•port Preconstruction™
 - Replaces functionality of PES/LAS
 - Production release – Fall 2008
- web Trns•port CRLMS™
 - Civil Rights and Labor Management System
 - Development started June 2007
 - Beta testing – January 2009
 - Production release – May 2009
- Upcoming web Trns•port projects
 - Construction, Materials, Estimation, Contract Monitoring



Materials Technical Review Team

- Formed in 2007 to develop requirements for web Trns•port Materials functionality
- Participants from LA, MI, MN, NY, OK, SC, TX
- 3 on-site meetings held to date
- Next on-site meeting scheduled for November 2008 in Gainesville (Info Tech HQ)
- Conference calls between face to face meetings
- Project solicitation - Spring 2009



Questions

- Please contact:
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