

Next Generation Trns•port

2006 Subcommittee on Construction

San Juan, Puerto Rico

Jim Johnson, Trns*port Task Force Chair
Florida DOT





Overview

- Trns•port Strategic Goals
- What is NGT?
- NGT Roadmap
- NGT Phase 1 Progress
- NGT Impact on Construction Users
- New Initiatives
- Agency Involvement



Trns•port Strategic Goals and NGT

- Align with the AASHTOWare strategic direction
 - Web services, web-based clients, XML
- Eliminate unnecessary boundaries
 - Unified data and security models and business rules
- Bring Trns•port's value to a broader audience
 - Web-based access, support for multiple devices
- Reduce agency Total Cost of Ownership (TCO)
 - Easier deployment, support, training, integration, use



Trns•port Strategic Goals and NGT (cont.)

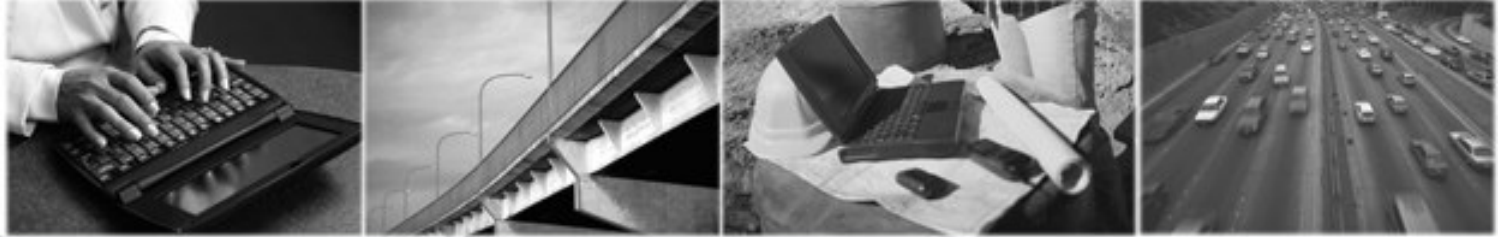
- Provide architecture that meets the needs of current and future customers
 - Flexible, loosely coupled Services-Oriented Architecture
 - Improved reporting capabilities
- Build a consistent, unified data model
 - Also unify business rules and security model
- Enable easier integration with other systems
 - Web service interfaces based on industry standards

For more information, see Trns•port 2005-2010 LRWP



What NGT is

- Rewrite from the ground up
- Business scope
 - Meet same business needs as Client/Server Trns•port
 - Remove obsolete features and features never used
- Technical scope
 - Microsoft Windows servers
 - Microsoft .NET Framework
 - Oracle and DB2 databases
 - Standard web browsers supporting CSS and Javascript
- Interfaces to C/S modules (Temporary)



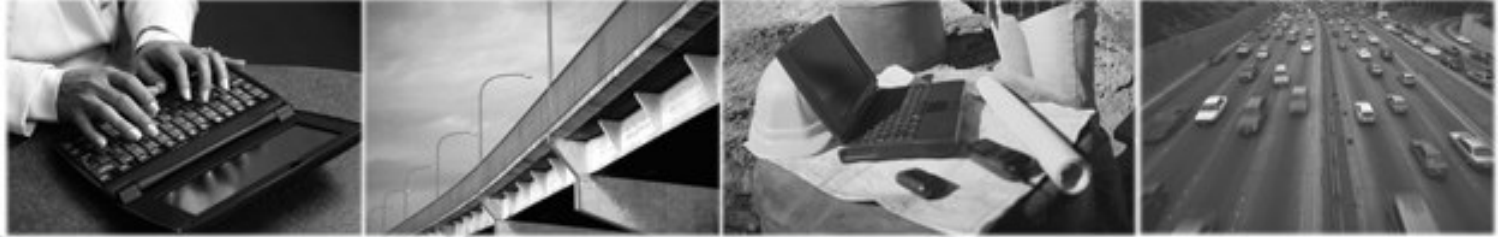
NGT Roadmap



NGT Roadmap

		AASHTO Fiscal Year				
Phase	Increment	05-06	06-07	07-08	08-09	09-10
1	Proposal, Letting, and Award					
2	Bid Analysis					
3	Materials Management					
3	Construction and Materials Field Reporting					
4	Contract Monitoring and Reporting					
5	Construction Management					
6	Cost-based and Parametric Estimation					

This plan is tentative and is subject to change due to factors such as funding availability



Phase 1 Objectives



NGT Phase 1 Project

- Implement Trns•port proposal, letting, and award business functions and release to all licensees when functionally equivalent to C/S PES/LAS, as determined by the TTF
- Status to date
 - Monthly posting of software on preview site
 - 24,000 acceptance tests; 1,200 GUI tests
 - Data migration built-in
- Initial preconstruction workflow completed
 - Project and proposal definition
 - Bid processing
 - Key reports (Detail Cost Estimate, Proposal)
 - Capture more data in next sprints



Login - Microsoft Internet Explorer

File Edit View Favorites Tools Help



Address <http://ngtdeploy.infotechfl.com/trnsport.test/login.aspx>



Login ID:

Password:

Login

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Done

Internet



Project List

Preconstruction [dropdown] [dropdown] Go

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[Help](#) | [User List](#)

Select Report: [dropdown] Run report

[Add](#) [Delete](#)

395 Projects

[Edit Column Settings](#)

Select	Project ID▲	Project Description	Spec Book	Unit System	Federal Project Number	State Project Number
<input type="checkbox"/>	02001-BID	REGION 2 BRIDGE DECK REPAIR	99	English	M 02-001	
<input type="checkbox"/>	02002-BID	REGION 2 EXPANSION JOINT REPAIRS	99	English	M 02-002	
<input type="checkbox"/>	04001-BID	US 34 BRIDGE REHABILITATION	99	English	M 04-001	
<input type="checkbox"/>	04001R-BID	US 34 BRIDGE REHABILITATION	99	English	M 04-001	
<input type="checkbox"/>	04002-BID	R-4 EXPANSION JOINTS INSTALLATION	99	English	M 04-002	
<input type="checkbox"/>	05001-BID	ALAMOSA JOINT AND CRACK SEALANT	99	English	M 05-001	
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<input type="checkbox"/>	06001-BID	SH 121, BROOMFIELD	99	English	M 06-001	
<input type="checkbox"/>	06001R-BID	SH 121, BROOMFIELD	99	English	M 06-001	
<input type="checkbox"/>	06002-BID	I-76, I-70 & I-225 BRIDGE REHABILITATION	99	English	M 06-002	
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6/5/2006



State Highway Agency

Proposal Price Schedule of Items

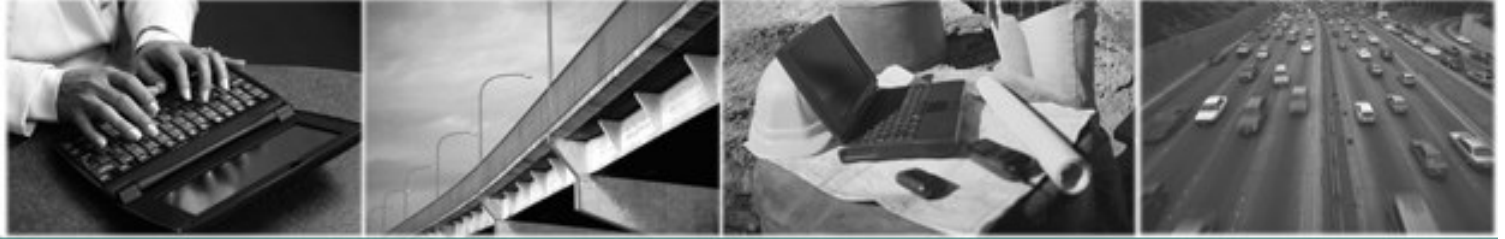
Page 1

Contract ID : RR91309

Project(s) : R91309-BID

Contractor : _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
10	000-00021 Design (Consultant) Lump Sum, Fixed Price	LUMP SUM	LUMP SUM		500.00	
20	000-00031 Construction Engineering (Consultant) Lump Sum, Not Fixed	LUMP SUM	LUMP SUM		_____	_____
30	201-00001 Clearing and Grubbing Not Lump Sum, Fixed	2.000 ACRE	4,009.84252		8,019.69	
40	202-00000 Removal of Structures and Obstructions	1.000 L S	_____		_____	_____
50	202-00001 Removal of Structure	2.000 EACH	_____		_____	_____
60	202-00010 Removal of Tree	1.000 EACH	_____		_____	_____
70	202-04100 Abandon Well	2.000 EACH	_____		_____	_____
80	626-00000 Mobilization	1.000 L S	_____		_____	_____



Impact on Construction Users



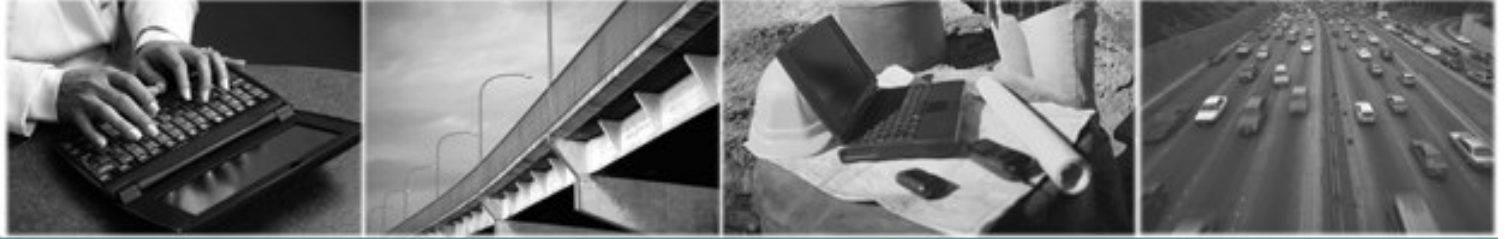
Impact on Construction Users

- Rewrite Means Capture of Current Business Rules
- Architecture – Business Rules Uniquely Placed
 - Can be changed without future major rewrite
 - Allows Customization by Licensing Agency
- WEB Application
 - Transportable Across Different Platforms
 - Lower End User Hardware Cost
 - Distribution of Software Streamlined



Impact on Construction Users

- NGT Design
 - Greater Agency Customization
 - GUI Interface
 - Reports
 - Business Rules Modification/Addition
 - No 'Re-install' of New Releases
 - Unified Data Model (one entry per data field)



New Initiatives



New Initiatives - Civil Rights & Labor Management System (CRLMS)

- Solicitation Package has been approved by SCOJD
 - Solicitation scheduled for August through October
 - Project Start – November 2007
- Technical Review Team (TRT) from Project Participants
- Project Scope
 - Time - 18 Month
 - Cost - \$3,726,000
- Compatible with NGT
 - Won't require license of other Trns*port Modules
 - Licensees will get Entire Trns*port database



New Initiatives – CRLMS Functions

- Contract-related Information
 - DBE Goal Setting on Contracts
 - Bidders Data
 - DBE Commitments
 - Subcontract and Supplier Quotes
 - Approved Subcontract Data
 - Prompt Payments
 - Completed Contract Data



New Initiatives – CRLMS Functions

- Vendor-related Information
 - Vendor Data, Addresses, Officers / Staff
 - Work Classes
 - Financial Data
 - DBE Certifications
- Employee-related Data
 - Payroll Data and Tracking
 - Wage Decision Information
 - On-the-Job Training Program(s)
 - Trainees



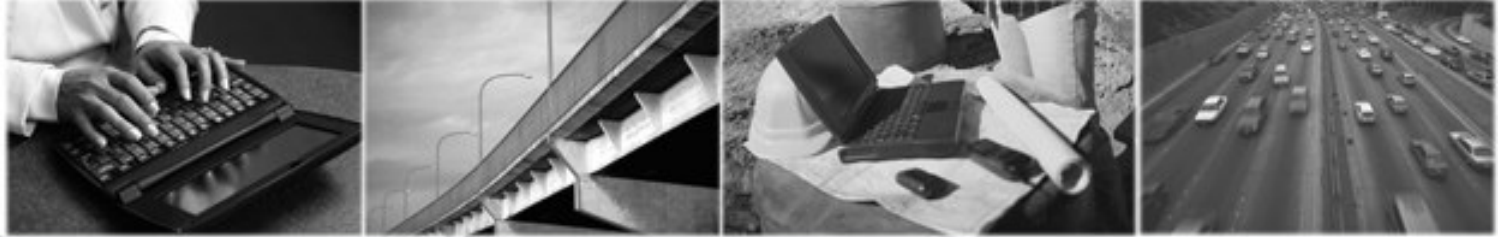
New Initiatives – CRLMS Functions

- Reports / Analyses
 - Semi-annual and Annual Reports on DBE Commitments and Subcontracting
 - Program Goal Setting
 - Market Availability
 - Market Utilization
 - FHWA Form 1391
 - FHWA Form 1392



New Initiatives – NGT Materials

- Michigan Initiative – Funds Availability
- Start of SiteManager Materials in NGT Environment
- Looking for Other Participants
- Functions – Identified Additional Functions Beyond SiteManager



Agency Involvement



How Can Agencies Help?

- Agency business expert participation
- Preview software site & test case repository
- Use Cloverleaf NGT user forum
- Submit backlog items
- Respond to surveys (e.g., impact assessment)
- Be a beta site – installations and user data
- Champion solicitations
- Accelerate the schedule by providing funding



How You and Your Agency Can Help

- Due to the agile methodology approach, your involvement NOW can directly influence Trns•port value to your agency
- Provide input and feedback
 - Test drive the working software
 - Suggest improvements and features
 - Participate in the forum



Summary

- Great progress with usable software in place
- Agile mitigates risk and maximizes quality, efficiency
- Modern services oriented architecture
- Test driven development and open source
- TTF in charge of scope and monthly software validation
- User participation is important to success



Where to Get More Information

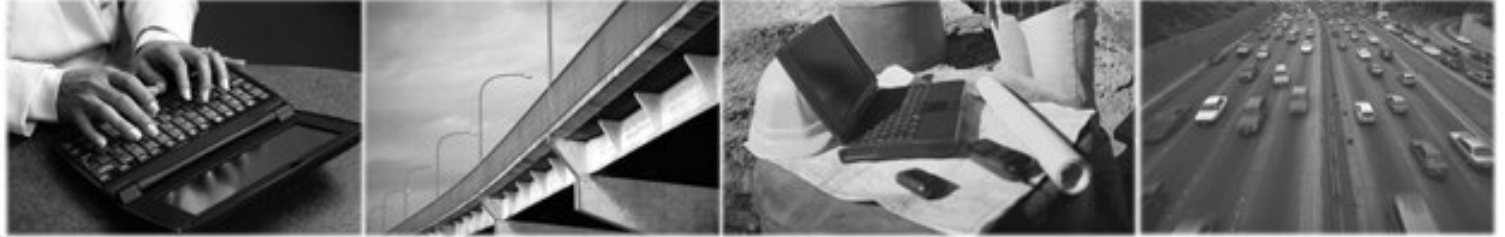
<http://www.cloverleaf.net/ngt>

- Trns•port 2005-2010 Long Range Work Plan
- Next Generation Trns•port Phase 1 Work Plan
- Next Generation Trns•port Roadmap
- Annual Trns•port Maintenance, Support, and Enhancement Work Plan



Contacts

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Questions
