

# Vermont Agency of Transportation



## SiteManager Implementation

# A Bit about Vermont



- Annual Construction Projects Budget: \$80 Million
- 14,000 Miles of roadway
- 320 Miles of Interstate
- 2,370 Miles of toll-free state highways
- 11,210 Miles of municipal roads

# **Main Construction Office**


## **(Montpelier)**



- 1 Construction Engineer
- 1 Finals Engineer
- 1 CMS Coordinator
- 2 Assistant Finals Engineers
- 1 Paving Engineer
- 1 Wells/Water Specialist
- 3 Office Assistants/Secretaries
- IT Support

# **4 Regional Offices**

**(St. Johnsbury, Burlington, Rutland,  
White River Jct)**



- 1 Regional Engineer
- 1 Regional Technician (“Project Manager”)
- 1 Regional Secretary
- Winter office space for Resident Engineers

# Field Positions



- 40 Resident Engineers
- 25 Temporary/Consultant Inspectors  
(Summer help)

# How many users do we have?



- There are approximately 60 SM users
- 2 System Administrators
- 3 Finals Positions
- 7 Office Assistants
- 4 Regional Engineers
- 4 Regional Technicians
- 40 Resident Engineers

**What do we do?**



# Construction Management Systems Coordinator



- Contract Passing
- Estimate Processing
- Special Individual Training
- Creation of customized Access reports
- RTF Report creation
- DWR Template Design
- “System Admin”

# Construction Management Systems Coordinator



- Specialized SQL Queries
- Database Editing (backdoor)
- New Technology
  - SitePad
  - Palms
  - Misc

# IT Support Specialists

- Knowledge of Interaction with the TRNS.PORT Suite
- Database maintenance
- Installation of new releases/upgrades
- Report Maintenance
- Work-arounds / Troubleshooting
- Networking/Hardware Support
- "System Admin"

# Regional Engineers



- Review Daily Work Reports
- Approve Estimates

# Regional Technicians



- “Project Manager”
- First Point of Contact for Residents
- Change Orders
- Stockpiles
- Contract Activation
- Estimate Generation/Approval
- Subcontracts

# Finals Engineers

- Estimates
  - Supplemental Estimates
  - Final Estimate
- Estimate Adjustments
  - Assessment of Liquidated Damages
  - Releasing of Retainage
- Evaluation of Contract Extensions
  - Tracking of inclement weather days
  - Comment Review for extension of time

# Finals Engineers



- Establishing Policy
  - Electronic documentation
  - Acceptable formats for change orders, subcontracts, item documentation, and etc.
- Change Orders
  - Contract Overruns
  - Extra Work/Force Accounts
  - Claim Settlement

# Resident Engineers



- Daily Work Reports
- Diaries

**How Long did it Take?**

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# Events in the Implementation of SM



- Started Implementation in Fall of 1998
- Training in March of 1999
- Production in the spring/summer of 99
  - New projects only
  - Existing Projects remained in CAS
  - Parallel estimate processing with CAS and SM
  - Server Standalone and Inspector Versions

# Events in the Implementation of SM



- Full Production in 2000
  - Server/Standalone mode only
- CAS discontinued in the summer of 2001
  - Final passing of 5 contracts to SiteManager from CAS
- Planned SitePad in the summer of 2002
  - Encouraged, but optional use

# How much did it cost?



- SiteManager License (\$155,000 per year)
- Oracle License (Enterprise license which is used elsewhere in the agency as well)
- InfoTech Training (2 weeks)
- Laptop Purchases (30 laptops for \$50,000)

# How much training?



- InfoTech came to give 2 3-day classes on the areas to be used by the Resident Engineers/Inspectors
- InfoTech provided a 1 2-day class on the areas of SM that would be used by office personnel
- Individual one on one training as requested

# Platform that we use



- SiteManager Client/Server 2.3a-3
  - Standalone/Server Mode
- Oracle 8.0.5
- Windows 95 laptops and desktops  
(Win2000 in ????)
- T3 Lines in main office
- T1 Lines in Regional Offices
- 56k/33k Modem lines for Resident Engineers in the field

**Any questions?**

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