2008 Purdue Road School

New Work Management System (WMS)

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Work Management System (WMS)

- Agency Goal – Management Improvement
- WMS Team – Full staff lead by Krystal Cornett in Operations and Lynette Gorczyca in BITS
- Work Completed
  - Design & Configuration
  - User Training & Routine Use
  - Historic Data Conversion
  - Work Plan Training
Current & Future Work

- Disconnected (Field Laptops) System Pilot
- Complete and Load the Location-Specific Feature Inventory Items
- Location Specific Asset Based Work Orders
- Development of 2009 Work Plan
  - Traditional Field Visits Begin in April
  - Work Plans Assigned to “Child” Management Units
- Plan Based Work Orders

WMS Interfaces

- Material Management - PeopleSoft Financials
- Payroll Voucher Interface – PeopleSoft Time & Labor
- Other Agency System Interfaces – i.e. M5 (Fleet Management and Traffic Materials) & Pavement Management System (PMS) – through GIS
## Current Work Management Modules

- Roadway - Maintenance plus Traffic Signs & Markings
- Signal Management - Traffic Signal Operations
- Facilities Management - Buildings & Grounds

## System Benefits

- Variety of User Defined Reports
- Material Management - Salt & Other Materials
- Reporting of Work to Specific Feature Assets
- Analysis of Plan/Accomplishment/Budget to INDOT Target Level of Service
- Customer Service Through Service Requests
- BITS, WMS, and District System Support
WMS Planning Tools

- Maintenance Quality Survey (MQS) - Deficiencies Used as Planning Tool
- Work Calendar Status Report, High Cost Activity Projects, and Equipment Schedule
- Customer Service Requests
- Preventive Maintenance - Feeds Bi-Weekly Schedule
- Accommodates All, or Parts, of Prior Plans
- Level of Service (LOS) - Maintenance Projection, by Activity, Utilizing Pavement Preservation Data

Semi-Monthly Schedules

- Allows Prioritization of Work
- Organizes Work for Short Term
- Provides for Obvious Alternative Work if Bad Weather or Break Down
  Requires “Plan B”
### Historic Semi-Monthly Schedule Form

![Historic Schedule Form](image)

### New WMS Semi-Monthly Schedule

- **Issue Work Orders from Plan window** - issue 2 weeks worth of work orders

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
<th>Work Type</th>
<th>Status</th>
<th>Project No.</th>
<th>Bill No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/15</td>
<td>Street Repairs</td>
<td>Road Work</td>
<td>Complete</td>
<td>123456</td>
<td>7890</td>
</tr>
<tr>
<td>01/20</td>
<td>Sidewalk Replacement</td>
<td>Road Work</td>
<td>In Progress</td>
<td>789012</td>
<td>3456</td>
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<tr>
<td>02/01</td>
<td>Road Resurfacing</td>
<td>Road Work</td>
<td>Complete</td>
<td>123456</td>
<td>7890</td>
</tr>
<tr>
<td>02/15</td>
<td>Road Repairs</td>
<td>Road Work</td>
<td>In Progress</td>
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</tr>
</tbody>
</table>

![Semi-Monthly Schedule](image)
New WMS Semi-Monthly Schedule

- **Daycards window** – assign crews or LEM resources

- **Scheduling window** – move / schedule Work Orders by group (such as responsible crew)
New WMS Semi-Monthly Schedule

- Daycards window - Make Daycards
- Labor Schedule (from Labor Daycards tab)

New WMS Semi-Monthly Schedule

- Equipment Schedule (from Equip Daycards tab)
New WMS Semi-Monthly Schedule

- Use reports if necessary to see Material schedule (REPORT_WO_MATERIAL_DC)

New WMS Semi-Monthly Schedule – Work & Follow-up

- Perform Work
- Enter Day Cards
- Complete Day Cards
- Select Uncompleted Work and Include in Next (or Future) Semi-Monthly Schedule
- Repeat Process Each Week
New WMS – Customer Service Work Requests

- Public & Mgmt input of deficiencies for review and work as needed
- Begins “paper trail” for deficiencies or complaints
- Promotes prompt resolution

Sample Work Request
Closing Thoughts
and
Questions