

MnDOT Project Management Office Presents:

Primavera P6 in the Project Management Process

Presenter: Jonathan McNatty, PSP Senior Schedule Consultant DRMcNatty & Associates, Inc.

Housekeeping Items

- Lines will be muted during the webinar
- Questions can be submitted thru the GoToWebinar Question box on right of screen
- Webinar slides available in pdf on MnDOT webiste within 5 days
- Questions will be posted on the MnDOT website with answers within in 5 days
- Webinar is being recorded and will be available on the MnDOT website within 5 days
- http://www.dot.state.mn.us/pm (click on "Learning")

Introduction

❖What Is Primavera P6?

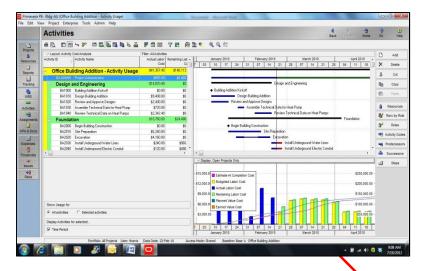
❖Why Did MnDOT Choose Primavera P6?

❖How is MnDOT Implementing Primavera P6?

❖What Can Primavera P6 Do For MnDOT?

What is P6?

- Centralized Database Fast/Scalable
- Multiple Projects All Open at the Same Time
- Multiple Users Same Project/Same Time
- Collaboration Tool Reporting What Ifs
- Resource Allocation
 - Roles Resources Planning
 - Schedule/Cost/Budget
- Reporting Tool
 - ❖Robust Reports
 - ❖ Detailed to the Level Needed (filters)

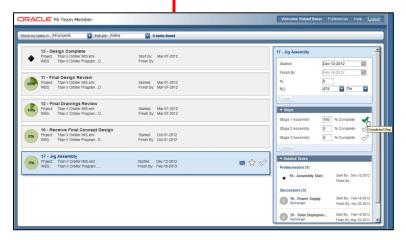


P6 Professional Client



P6 EPPM (Web)





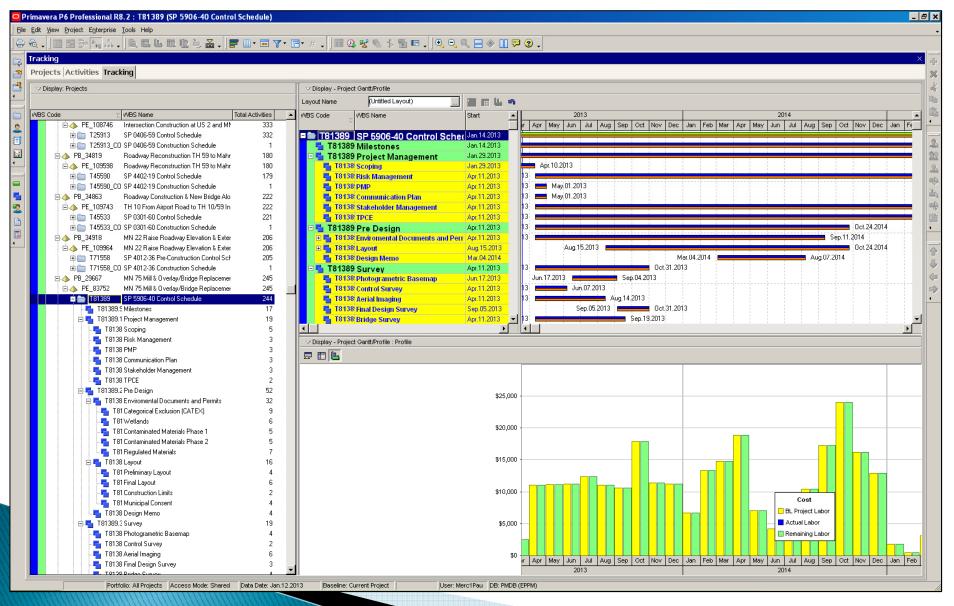
Team Member

P6 Professional Client

- CPM Scheduling (Critical Path Method)
- Track Milestones Project Health
- Earned Value
 - Track Schedule Progress
 - Scope/Schedule/Budget
 - Resource Allocation
 - **❖**Planning
 - Actuals
- Design Projects
- Construction Projects



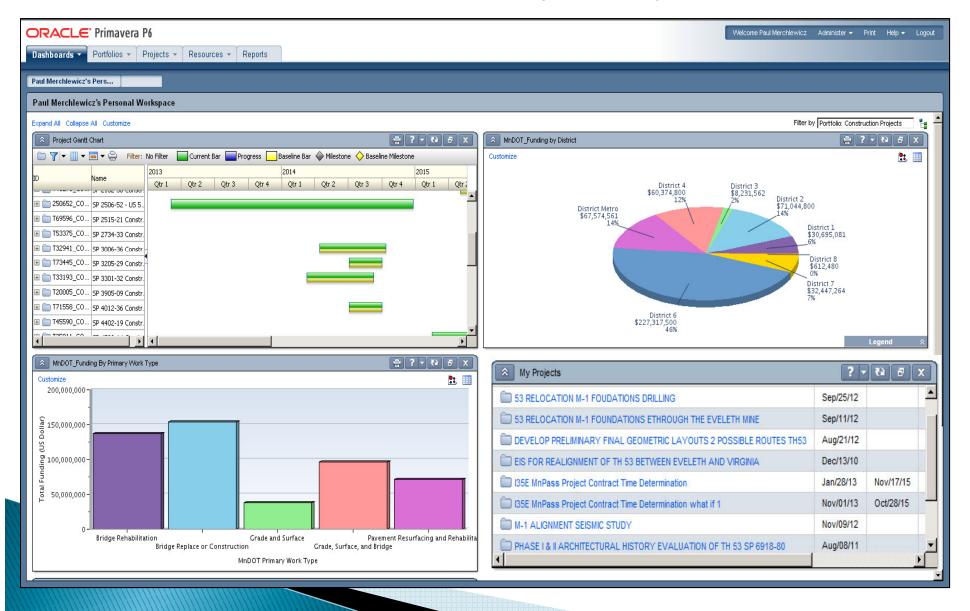
P6 Professional Client



P6 EPPM (Web)

- Manage Portfolios
 - Track Progress at Macro Level
 - Program Health
- Manage Risk & Issues Centralized Location
- Resource Management Broad Program View
- Business Process Workflows
- Collaboration
- Custom Graphic Dashboards

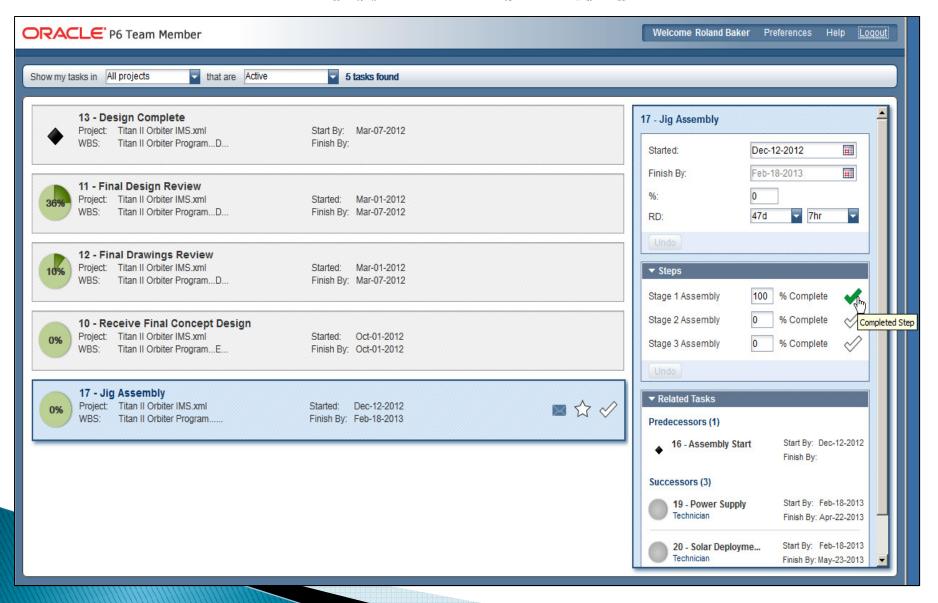
P6 EPPM (Web)



Team Member

- Easy Access for Users to Status Their Work
- View Only the Work You Are AssignedCan View by Project/Status
- Determine Specific Fields for Updating
- Review and Approval of Updates for Project Integrity & Control
- iPhone and iPad Applications

Team Member



Why Did MnDOT Choose P6?

- Project and Portfolio Management are emerging trends and MnDOT is trending toward a more mature Project Management Culture
- Primavera is Scalable small to very large and mature practices
- * It is a more mature and robust product
- * A good base of support throughout National Transportation Primavera User Groups FHWA, NYDOT, VDOT, TXDOT, SCDOT, and LA Metro

Evaluation Criteria

- Portfolio Management
- Program Management
- Project Management
- Resource Management
- Data Integration with Other Systems
- Vendor Support Products
- Module and Flexible Implementation and Use

How is MnDOT Implementing P6?

- Project Team Buy-In (Own the Schedule)
- Standardize Functional Group Activities (Ex. Bridge)
- Standardize Schedule Templates
- Provide Schedule Support for Project Managers
- Better Schedule Management
- Integration with Other Systems
- Transfer of Data

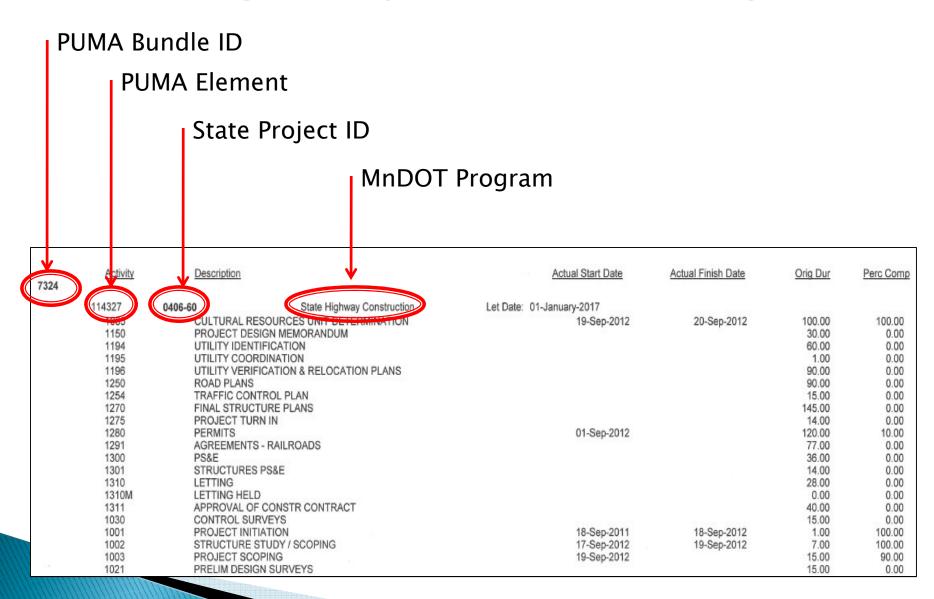
MnDOT Replacing PPMS System

- Older System Does Not Support Functionality of P6
- Tracks Only Design Phase of Project
- Need to Collect Projects from PPMS to P6
- Need to Keep Existing Data from PPMS (Conversion)
- Supports MnDOT Business Process in P6 (EPS)

What Can P6 Do for MnDOT?

- Data Rollup Reporting
- Program Wide Data
- Project Wide Data
- Increased Visibility
- *Increased Transparency

What Can P6 Do For MnDOT?



MnDOT EPS Structure for EPS in P6

PUMA Rundle ID **PUMA Element** MnDOT Program State Project ID DOT MnDOT **=** 4 20 State Roads **□** △ 21 Infrastructure Investment & Planning ■ ▲ PB_11891 Replace Bridges 9570 & 9599 in New Brighton ■ ▲ PB 13715 Bituminous Surfacing TH 55 to TH 75 in Doran Pavement Reconstruction and Bridge 74815, 74816, 74817, 74818 in Owatonna PB_18113 Approach and Replace Bridge 9040 & 9103 on TH 61 in Redwing ■ ▲ PB 18156 135E MnPASS Project ■ ▲ PB 18515 TH 34 PASB and Overlay ■ ▲ PB 18600 Bituminous Overlay 7H 65 from Olqilvie to Mora PB_18747 Replace Bridges 9567 & 9568 Over Goose Lake Road and BNSF in Vadnais Heights ■ ▲ PB_18783 Realignment of 7H 53 Through Mine ■ ▲ PB 18839 Replace Bridges 8392, 3958, 8393, 9394, 3959, 4463 Between Crookston and Angus ■ ▲ PB_18894 Mill & Overlay From Smithville to JCT I35 in West Duluth ■ ▲ PB 21322 Replace Winona Bridge #5900 Over the Mississippi River

Replage Winona Bridge #5900 Over the Mississippi River

SP 8503-46 Control Schedule

T69584 CO SP 8503-46 Construction Schedule

□ ◆ PE_73689

T69584

P6 Implementation Project Goals

- Better Schedule Management
- * Project Team Buy-In (Own the Schedule)
- Standardize Functional Group Activities
- Easier Build out of Projects
- Standardized Templates
 - Standardized Structure
 - Easier Reporting
 - * Easier Tracking

P6 Implementation Project Goals

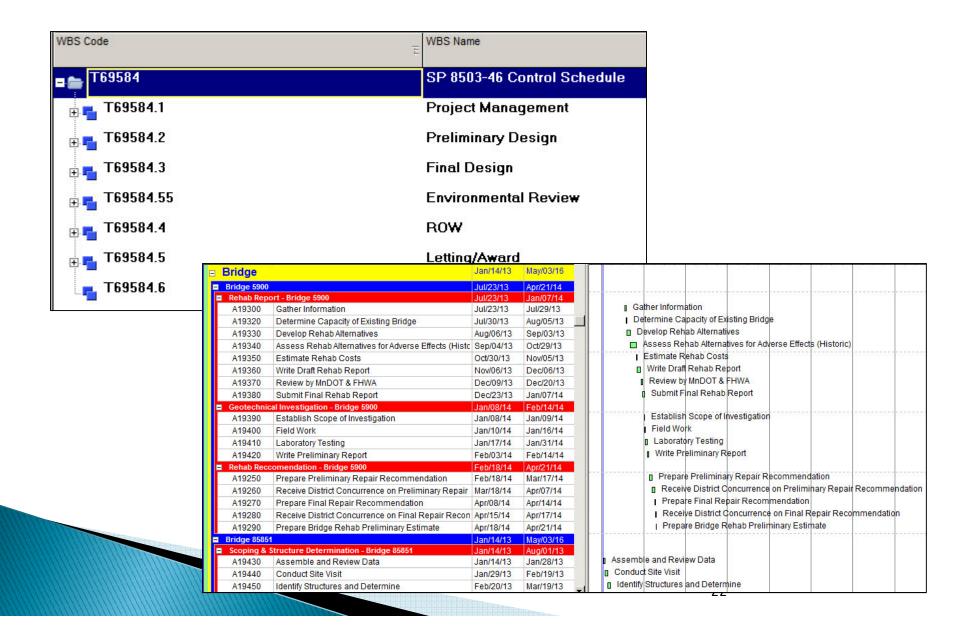
- Portability Staff will be More Familiar with Work Across Projects
- * Familiarize Team with P6 Software
- Provide Schedule Support for Project Manager
- Protocols currently being Developed for Project Manager Interaction

MnDOT Standardized Project Templates

- ❖ Workshop Team Access the "Control Schedule" Onsite
- Functional Groups Attend 2 Day Session
- Workshop Goals:
 - Project Scope
 - ***** WBS
 - Functional Groups Needed for Project
 - Activities & Relationships
 - Risk Register
 - Develop Baseline Schedule to Project Letting

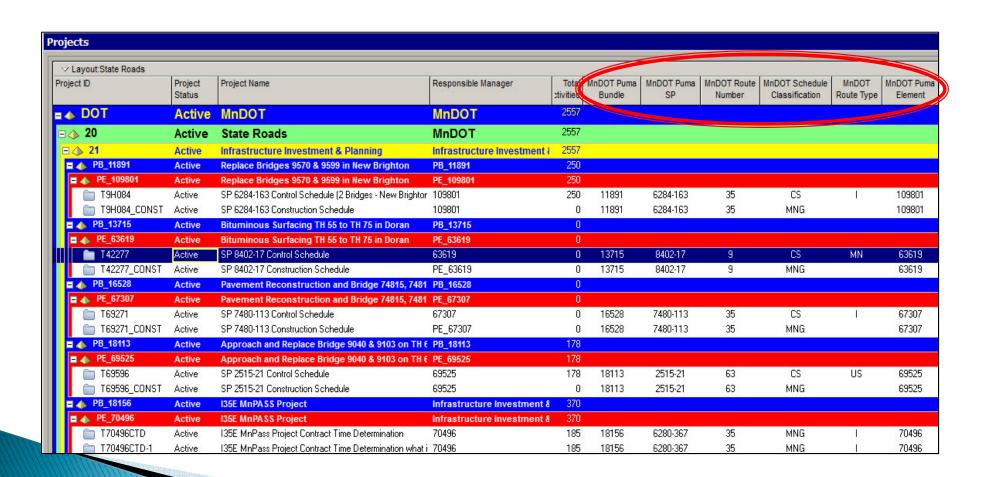
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		Em T69584	SP 8503-46 Control Schedule
			SP 8503-46 Construction Schedule

MnDOT Standardized Project Templates



MnDOT Standardized Codes & Layouts

Global Codes & Layouts Facilitate Reporting



MnDOT Goals Going Forward

Projects in Construction Phase

- ❖ Contractor's Build Their Schedule in our Network 1/1/13
- ❖ Piloting Providing BIM Models and CTD Schedules to Contractors 3/1/13
- ❖ Select "Unit Rate" project Resource and Cost Loaded 3/1/13
- ❖ Role and Resource Loaded of CE&I staff 6/1/14

MnDOT Goals Going Forward

Projects in Scoping and Design Phase

- "Active Projects" Role and Resource Loaded 6/30/13
- ❖ All planned projects Role loaded by June 30, 2014
- ❖ Taxpayer Transportation Accountability Act



Questions or Comments

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Next Webinar: Wednesday, March 27, 2013

Time: 1:00 p.m.

Topic: Collaborative Scheduling using the CPM Method

Presenter: Jonathan McNatty DRMcNatty & Associates, Inc.