

GBRIA New Solutions Conference

Baton Rouge, Louisiana

ExxonMobil Baton Rouge Complex

Maintenance Planning / Scheduling Overview

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Baton Rouge Complex
Mechanical Division

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Mechanical Planning / Scheduling Overview

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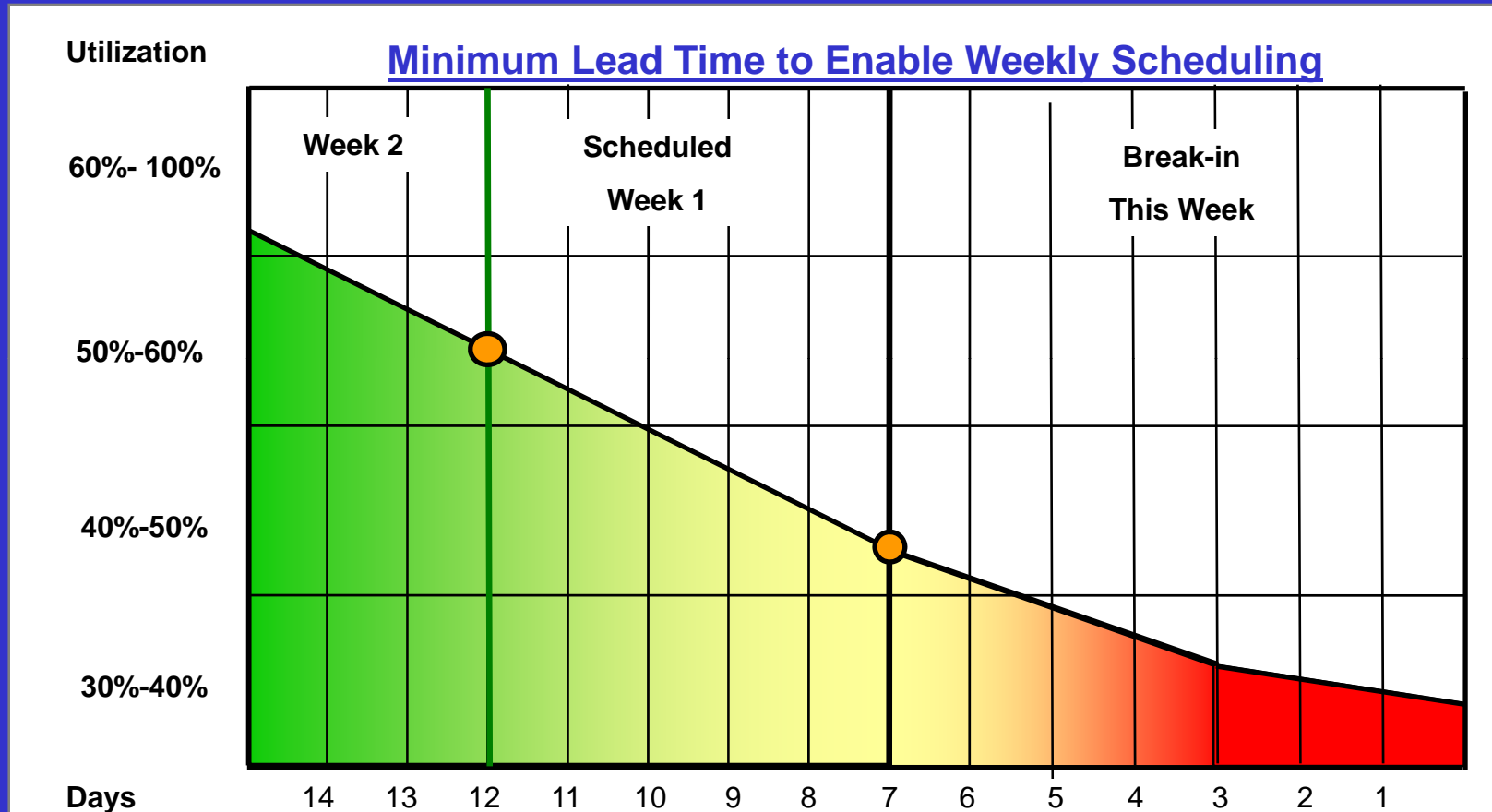
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Mechanical Planning / Scheduling Overview

Why Plan and Schedule Maintenance Work?

Pro-Active vs. Reactive Maintenance

Lead Time Vs Resource Utilization



Resources / Schedule /
Plan Optimized

Scheduled
Minimal Planning

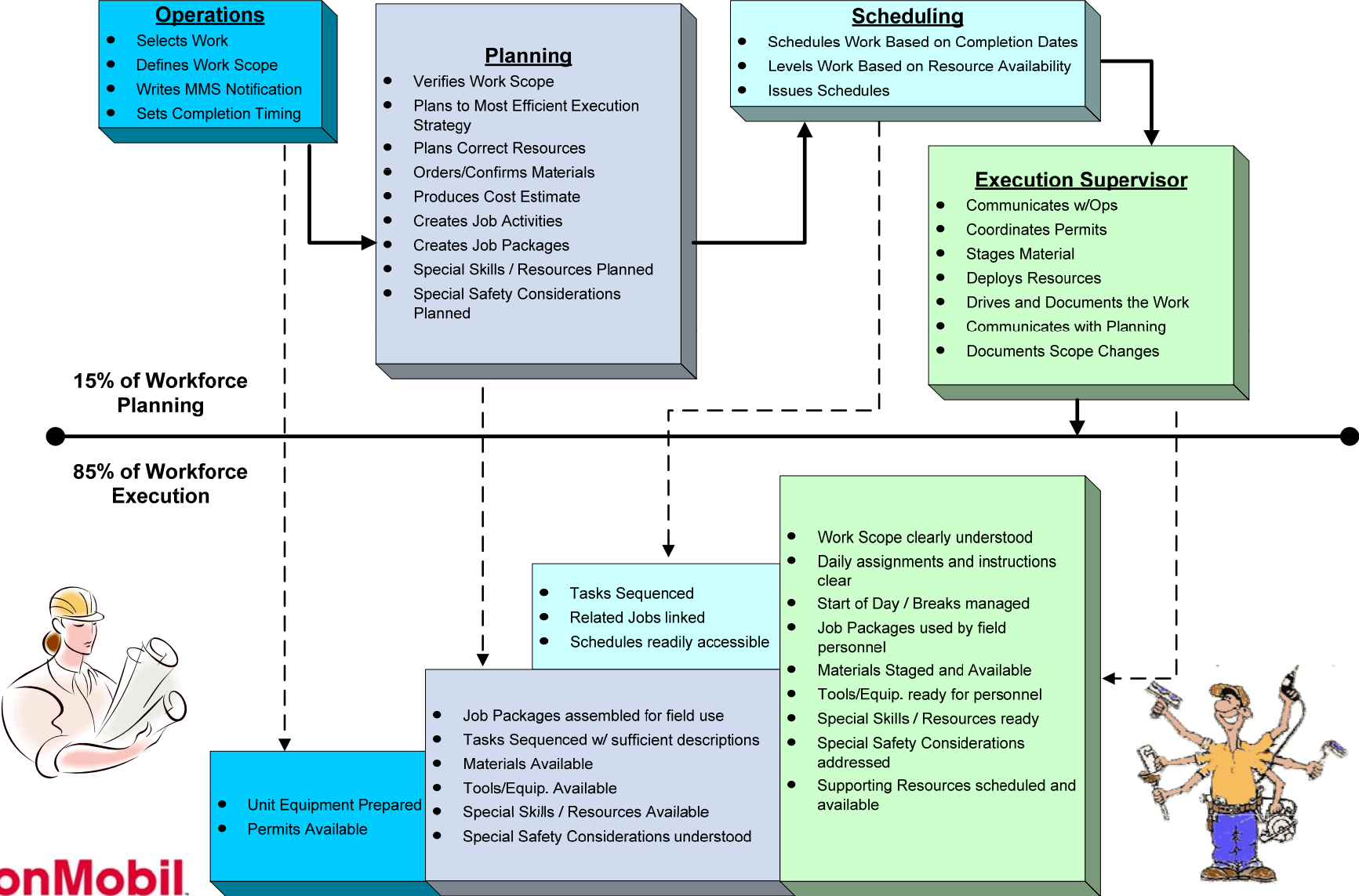
Reactive
Break-in's

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What About Barriers to completing Maintenance Work?

Pro-Active vs. Reactive Maintenance

Removing Barriers for Efficient Execution



Mechanical Planning / Scheduling Overview

Headlines

- Maintenance Organization Improves Maintenance with Complex wide Primavera based Scheduling Process
- Maintenance Organization implements and trains Planners on Complex wide Planning Standards
- Maintenance Organization implements Web Based deployment of Maintenance Schedules and Key Performance Indicators (KPI's) for Company and Contract Workforce

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Planning and Scheduling Overview

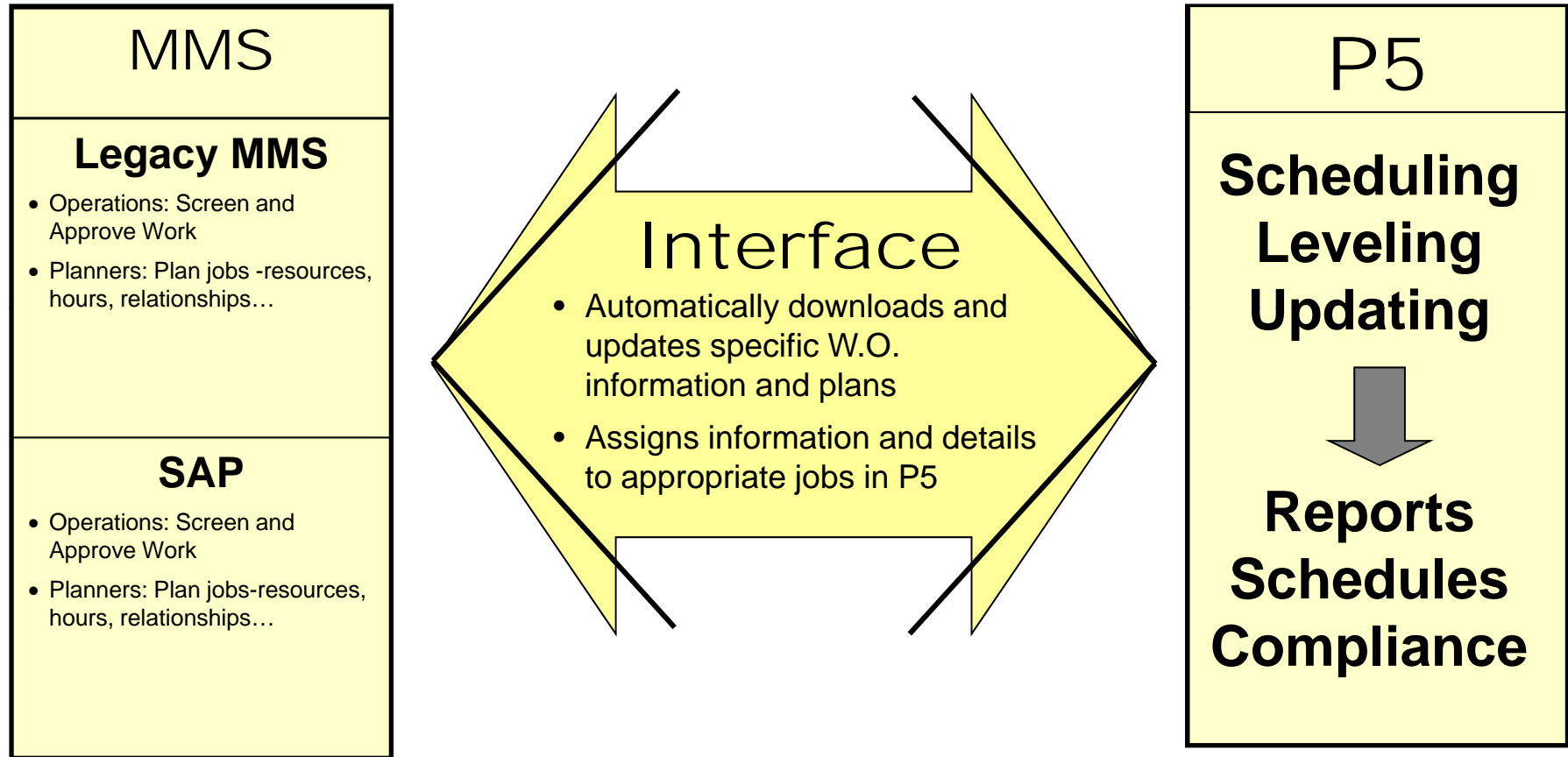
- Work Screening & expected completion date set by Equipment Owner
- Maintenance Planners plan detailed work activities in source Maintenance Management Systems
- Weekly schedules issued using Primavera 5 across Refinery and Chemical Plants
- Maintenance Schedules and Stewardship KPI's are issued via an ExxonMobil Website to both Operations and Mechanical Personnel

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Primavera Based Scheduling Process

- Schedulers are Centralized
- Automatic daily Interface and workflow built into MMS and Primavera
- Weekly scheduling meetings held to confirm that work scheduled is ready to work
- Resource leveled schedules are deployed on a weekly basis
- Resource Pools
 - Site resources are shared / leveled across the complex
 - + Ie. Scaffolds, Central Machine Shop, Safety Valves, Exchangers
 - Deployed Resources are leveled within Business organizations

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Schedule Overview

- Operations / Mechanical Schedules are posted on Website
- Primavera Batch Reports used to post in Web friendly “html” format
- Deploy ~ 400+ maintenance schedules and reports
 - Operations Schedules used at various levels of the organization down to the Unit Operations
 - Maintenance Schedules:
 - + Schedules by Resource, Supervisor, Work group, Area
 - + Resource loading reports
 - + Contractor Resource Reports/Schedules

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Compliance Overview

- Compliance Metrics are generated by Primavera and are deployed through a site Website
- Key Performance Indicators include: Schedule Compliance, % Break-in's, Workforce Schedule Utilization and others
- Compliance generated based on feedback from Execution Supervisors
- Weekly and Monthly KPI's for each Work Group and Resource

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Key Success Factors

- Training and reinforcement during initial rollout
- Work screening, backlog management and alignment on work
- Low Break-in's
- Planners follow Planning Standards
- Execution Supervisors accountable for executing work according to the schedule

Key Benefits

- ~ 20% improvement in work performed compared with prior area schedules
- Organizational alignment on a weekly basis with upcoming work
- Less reactive maintenance