

Establishing Maximo for Effective Planning & Scheduling

Fundamental Data Considerations



GenesisSolutions
An ABS Group Company



CHELAN COUNTY

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ABS Group



Agenda

- About GenesisSolutions
- Components of Effective Asset Management
- Maximo User Expectations
- Maintenance Planning and Scheduling Expectations
- Data Acquisition, Storage, and Retrieval
- Expectations, Goals and Continuous Improvement

GenesisSolutions Overview

COMPANY

- Asset Performance Optimization Service Line
- Enterprise Asset Management Services
- Sustained Growth
- Market Leader

CUSTOMERS

- Pharmaceutical & Biotech
- Oil & Gas
- Power Utility
- Food & Beverage
- Water & Wastewater
- Manufacturing
- Facilities

SERVICES

Fully Integrated Global EAM Services:

- Reliability Services
- Systems & Technology
- Maintenance Strategy & Process

STATISTICS

- Headquarters: Ridgefield, CT
- Other Offices: Amsterdam, NL
Aberdeen, UK
- Operations: US, Canada, Latin America, Europe, Asia
- Personnel: 150 (+)
- Revenues: \$25M USD (+)
- Customer Repeat Rate: 90% (+)
- Customers: 500 (+)



Maximo Implementation Expertise

- IBM Gold Accreditation Business Partner & Reseller
- Over 80 highly experienced Maximo resources.
- Most resources with 10-15+ years Maximo implementation experience
- Many resources with Maximo / MRO Software (20+years) experience
- Over 300 Maximo customers
- Hundreds of implementations of Maximo



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Enterprise Asset Management

A Fully Integrated Global EAM Service Provider



Seven Elements of EAM





Maximo User Expectations

Successful Maximo Initiatives

- Enable EAM strategies and objectives (Strategic Asset Management Plan)
- Focus the organization's efforts on the priorities such as safety and reliability improvements
- Supports the governance of whole-life investment programs to maintain asset performance
- Provides a data driven decision-making framework to assess asset life performance and costs
- Provides an EAM performance measurement system to ensure operational excellence
- Configured to provide meaningful information to manage assets more effectively

Successful Maximo Initiative - Results

1. Asset Availability Improvement
2. Capital Spending Reduction
3. Asset Failure Rate Reduction
4. Improved Production Schedule Attainment Rate
5. Reduction in Unplanned Events / Outages
6. External Labor Cost Reduction
7. Internal Labor Efficiency Improvement
8. Health, Safety, Environmental Risk Reduction
9. Quality Compliance Improvement
10. Repair Parts Cost Reduction
11. Inventory Carrying Cost Reduction
12. Morale, Teamwork Improvement
13. Operator / Technician Skills and Knowledge Improvement

A photograph of an industrial facility, likely a power plant or refinery, featuring a complex network of large, insulated pipes and machinery. The scene is dimly lit with a greenish tint. A diagonal white line divides the image into two sections. The right section shows a closer view of the pipes and a pressure gauge on a wall.

Maintenance Planning and Scheduling Expectations

Maintenance Workflow Basics:



Benefits of Planning & Scheduling

- Increased Technician efficiency 30% - 40%
- Reduced Maintenance Overtime 50% - 80%
- Reduced cost of Work Order Execution 20% - 60%
- Increased Asset availability for Production
- Reduced Cost and Dependence on Maintenance Parts Inventory
- Enable Reliability Analysis and Improvement

Expectation: Reducing Wasted Time

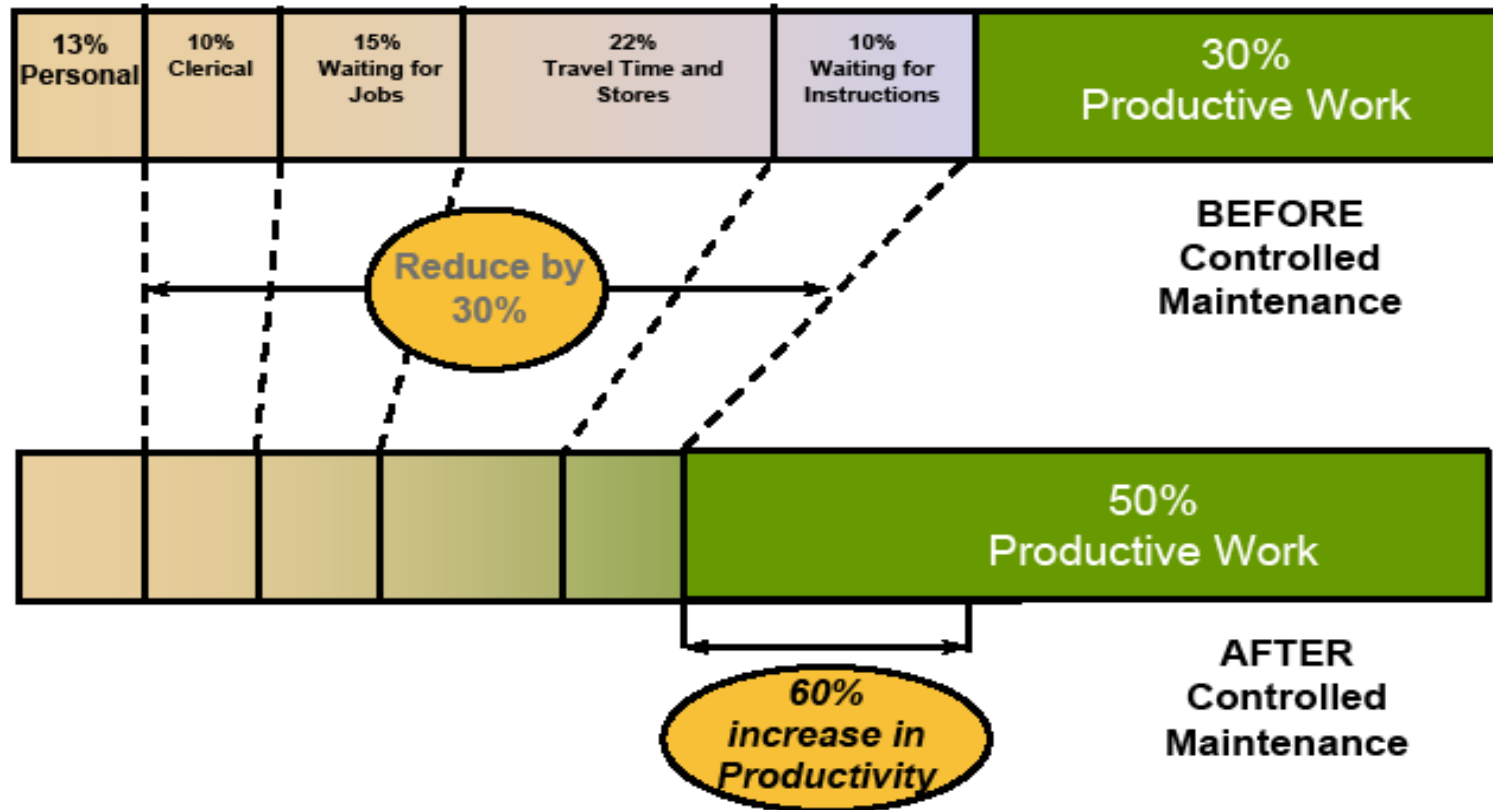
Labor Productivity Reduced:

- ❑ Waiting for instructions
- ❑ Excess transit time
- ❑ Checking out the job scope
- ❑ Multiple trips to stores
- ❑ Unexpected special tools or permits
- ❑ Waiting for access to work site
- ❑ Coordinating work with other crafts and contractors

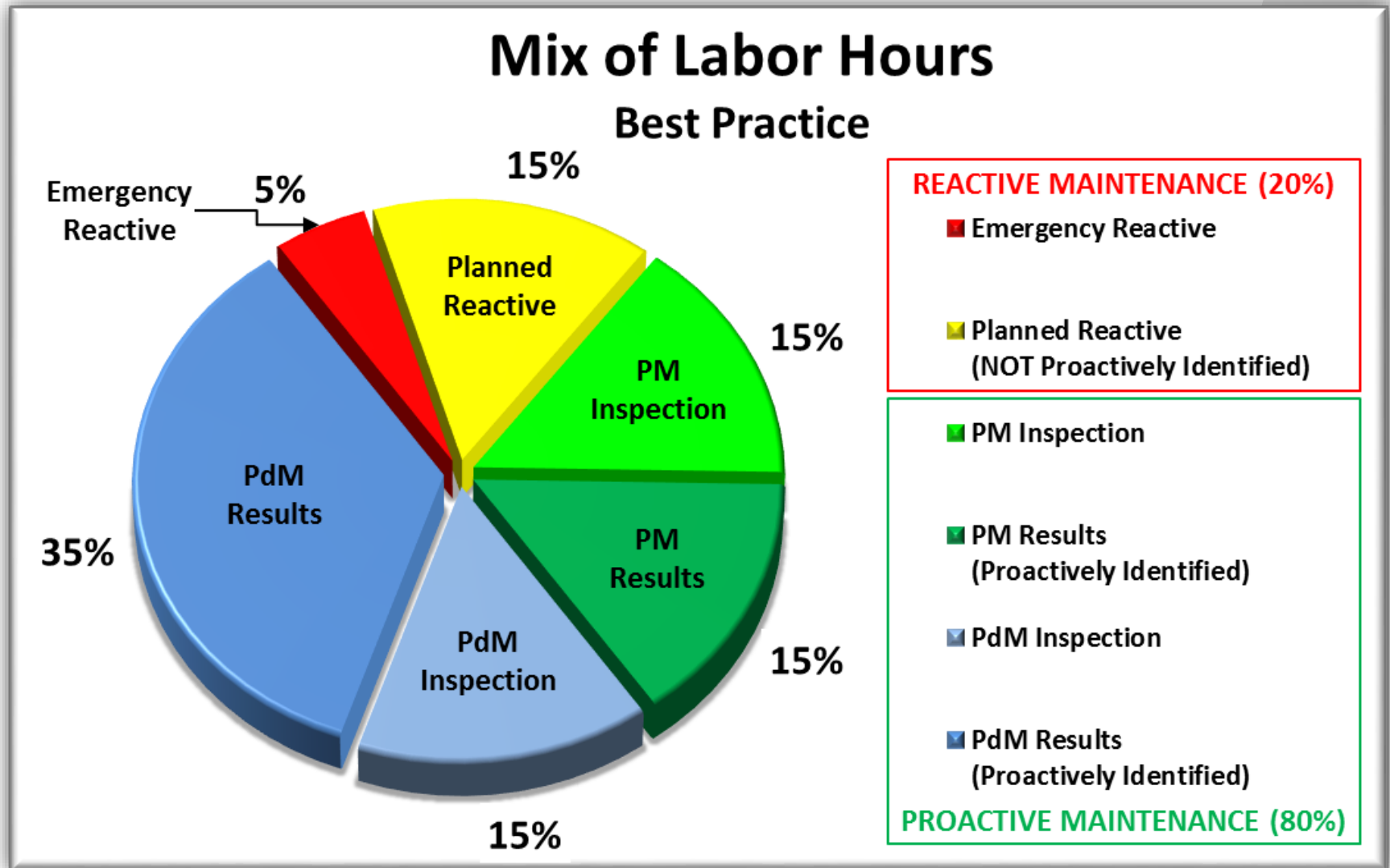
Stores – Materials:

- ❑ Waiting for Materials
- ❑ Materials out of stock
- ❑ Travel time to obtain materials
- ❑ Time to move materials to job site
- ❑ Time to find substitute materials
- ❑ Creation of Requisitions/Purchase Orders
- ❑ Wrong materials planned, ordered, or delivered

Planning and Scheduling Productivity Improvement



Best Practice Maintenance Labor Hour Mix





Data Acquisition
Data Storage
Data Retrieval

Keys for Effective Planning and Scheduling

Asset Data Standards Fundamentals

- Standard Asset Definition Development
- Asset/Location Hierarchy

Asset Data Standards Equipment

- Master Equipment Record Development
- Comprehensive Asset Attribute Data

Work Order Data Standards

- WO Type
- WO Required Fields
- WO Lifecycle (Status) Tracking

Roles and Responsibilities

- Job Plan Development, Approval
- Work Order Scheduling, Execution
- Quality Check, Documentation

Measurements and Improvement Opportunities

- KPI data sources, verification
- Reporting responsibilities
- Improvement implementation

Master Equipment List Development

A Master Equipment List (MEL) is a comprehensive list of maintainable assets within a facility or operation that require Life Cycle Cost Tracking and play a role in the functionality of that facility or operation.

Important concepts pertaining to a Master Asset List:

- Asset Naming and Numbering Convention
- Asset OEM Information
- Asset Classification or Type
- Operations & Maintenance Manuals
- Asset Tagging
- Facility Physical Layout Drawings
- Bill of Materials
- Critical Spare Parts Identification

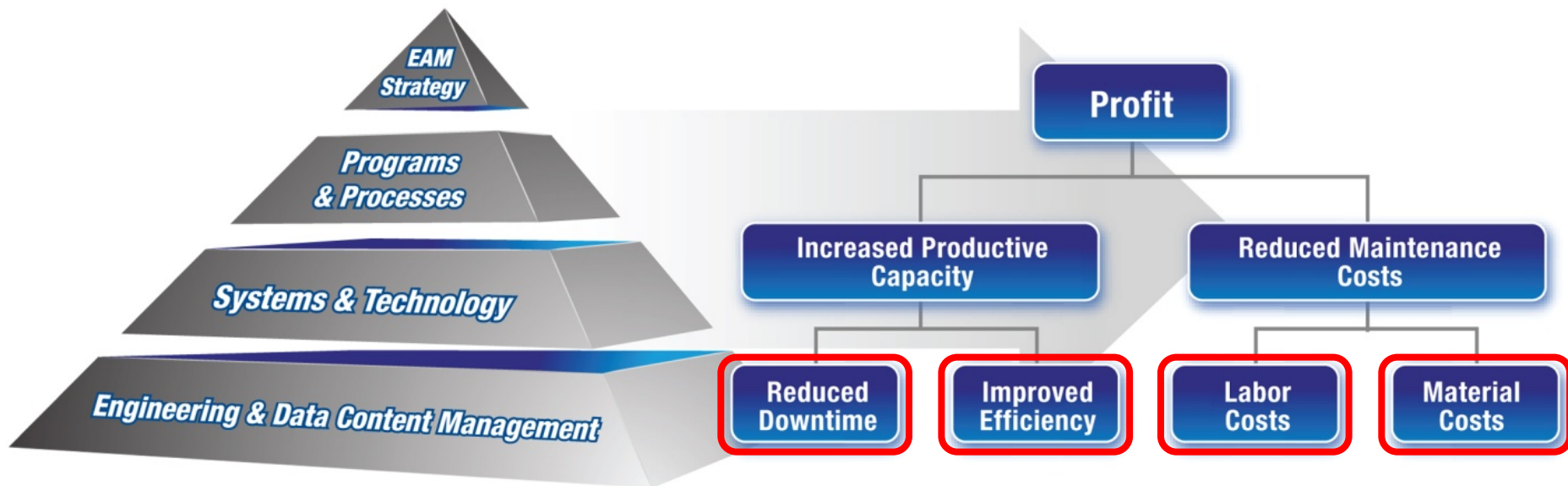


Expectations, Goals,
Continuous Improvement

Long Term Strategic Planning & Scheduling

- Not about Labor, but the Equipment
- Not Technicians working harder, making the equipment work harder
- Focus on Reliability, Reduced unplanned Outages
- Increased Asset availability
- Improved predictability of Maintenance Parts
- Data elements should reflect information to improve

Maintenance Strategy Impact on the Bottom Line



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