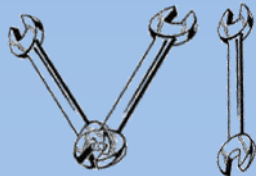


# Elements of Cost Modeling: Lost Opportunity Costs

Daniel Sillivant  
16 October 2013

October 15-16, 2013

**RAM**



# Goal

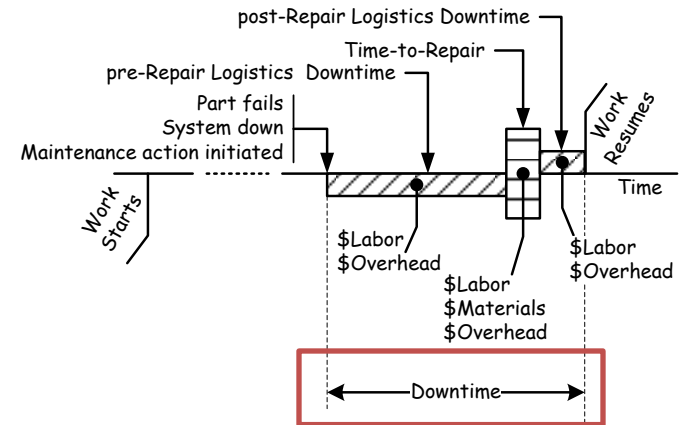
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- The benefits of proactive Maintenance
  - Decreases System Downtime
  - Reduces Repair time
  - Optimize Sparing
  - Fewer unscheduled maintenance operations

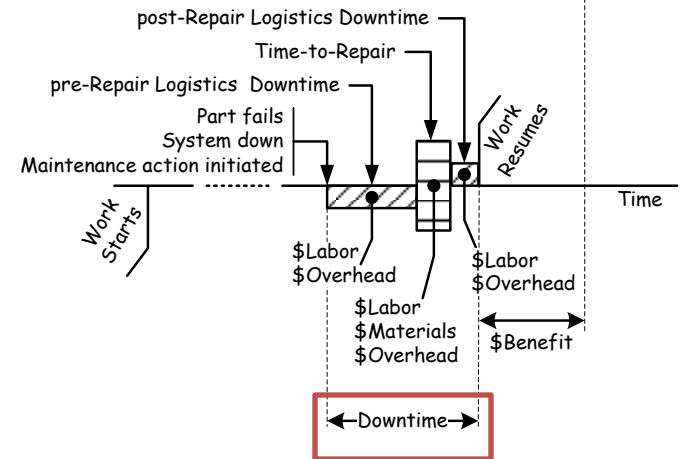
## Lost Opportunity Cost

# Downtime

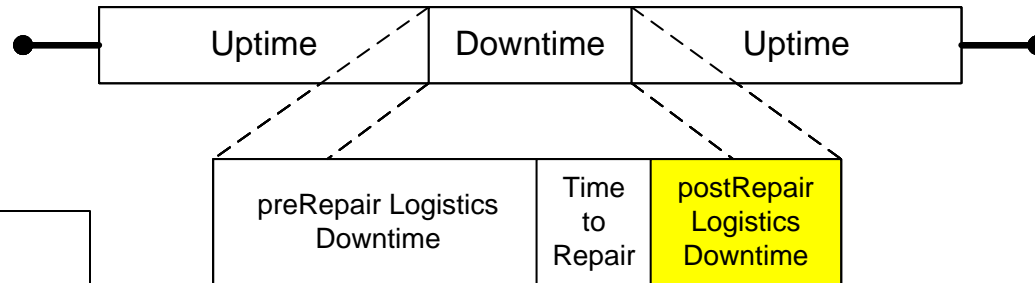
## Reactive Maintenance



## Proactive Maintenance



# Downtime



## Waiting on...

- Labor
- Facilities
- Tools
- Spare Parts

## Administrative Events...

- Scheduling
- Initiate repair documentation
- Spare parts documentation

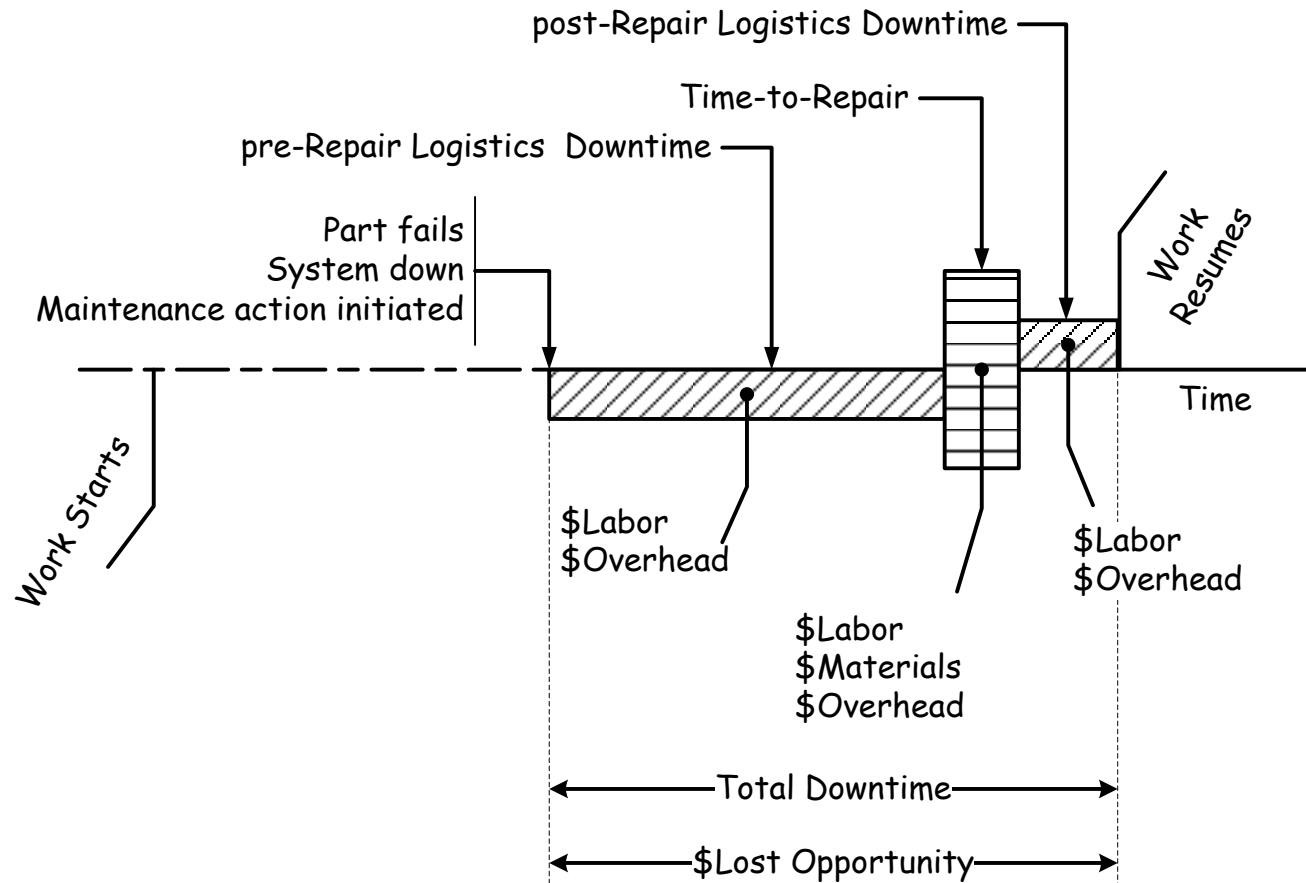
## Direct Repair activities...

- Fault Detection
- Fault Isolation
- Remove failed part
- Install replacement part
- Verify repair

## Return to service activities...

- Complete repair documentation
- Transport system to operations or storage site
- Anything else that delays return to service

# Lost Opportunity Costs



# Proactive Vs Reactive Maintenance

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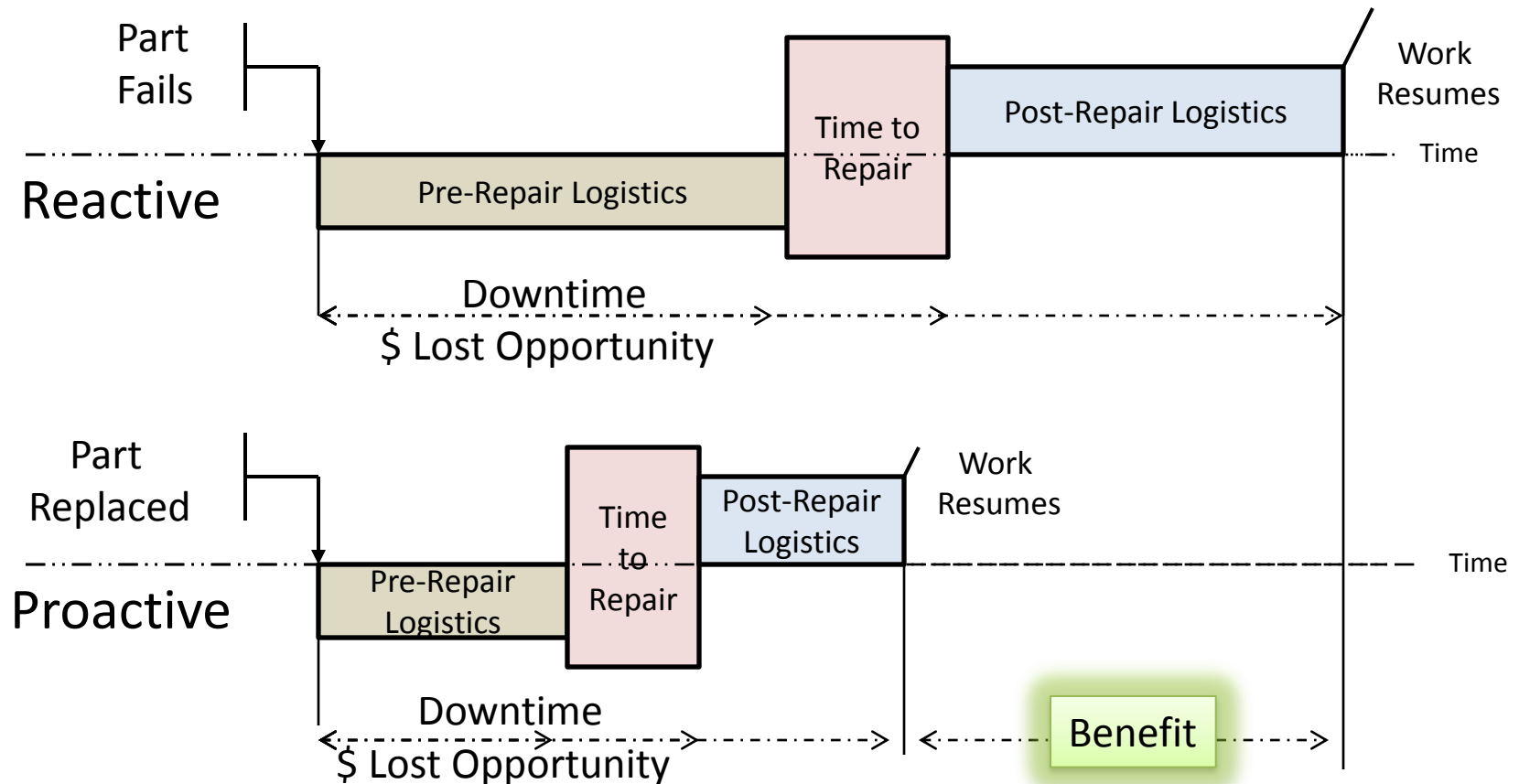
## Reactive

- Unscheduled
- Repairs performed in the field
- Long Downtime

## Proactive

- Scheduled
- Repairs performed in maintenance facility
- Optimizes Sparing
- Reduces Downtime

# Lost Opportunity Proactive Vs Reactive



# Questions?

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