

**“Improving Mine Productivity through Advancements in Mobile  
Equipment Simulator Technology”**

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CAE Mining North America  
Haulage & Loading 2013

# Agenda

- Methods of training
- Results
- Recommendations
- Q & A

# Operator Training: The Old Way

- Experienced trains the inexperienced
- Subjective evaluations of performance
- Practice on the job
- Fleet impacted

# Results: The Old Way

- Operator Turnover
- Near Misses & Safety Incidences
- Lower Production



# Operator Training: Improved Method

- Simulation tools
- E-Learning
- Dedicated equipment trainers

# Results: Improved Method

- Operators
- Ready to Operate Solo



# Operator Training: Engineered Training Solution

- On boarding program
- Continuous Improvement program
- KPI's
- Competency Based
- Fleet Management Data

# Engineered Training Solution Results

- Productive Operators
- Safe Operators





# Productive Operators

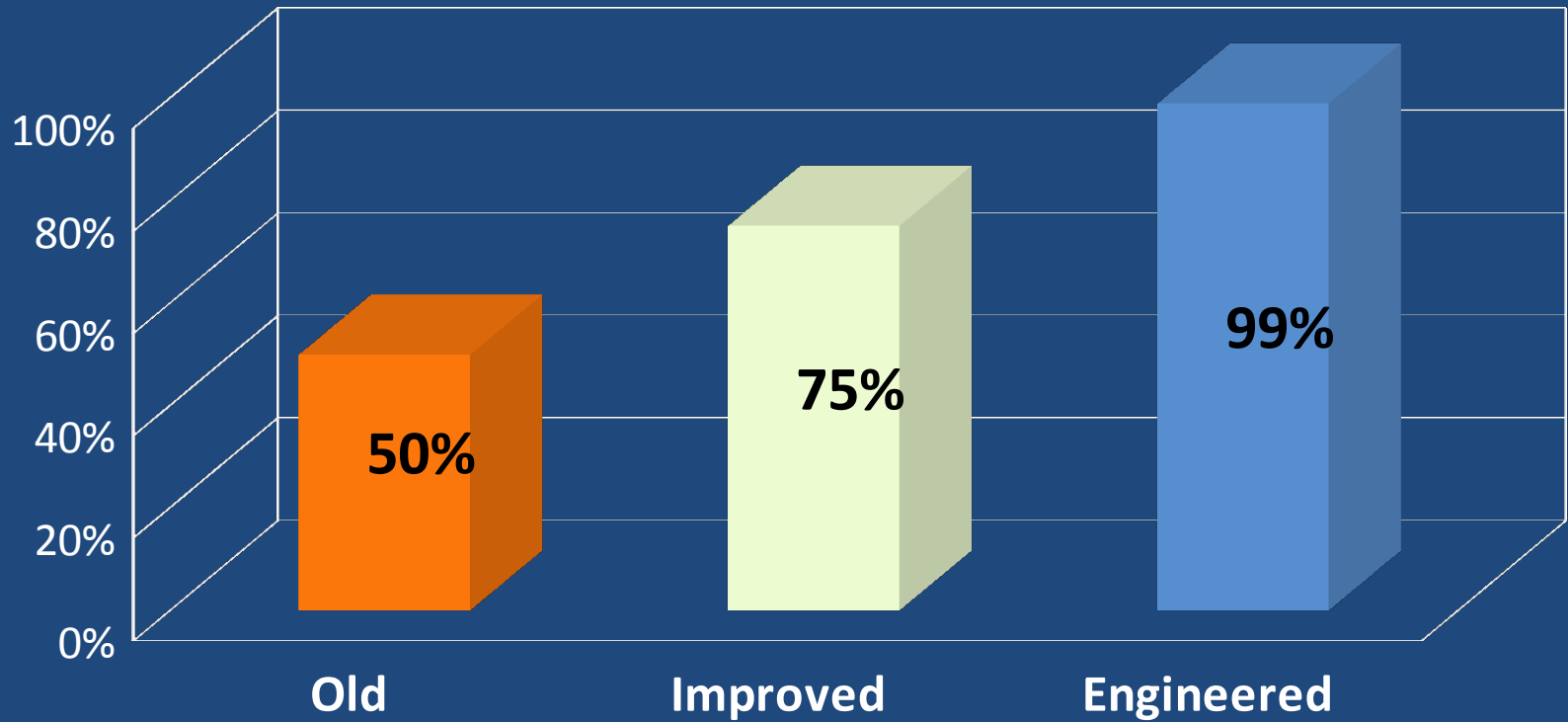
3.5% increase in productivity  
@ 200,000 tons/day

+ 7,000 tons/day

More than 2M tons/year

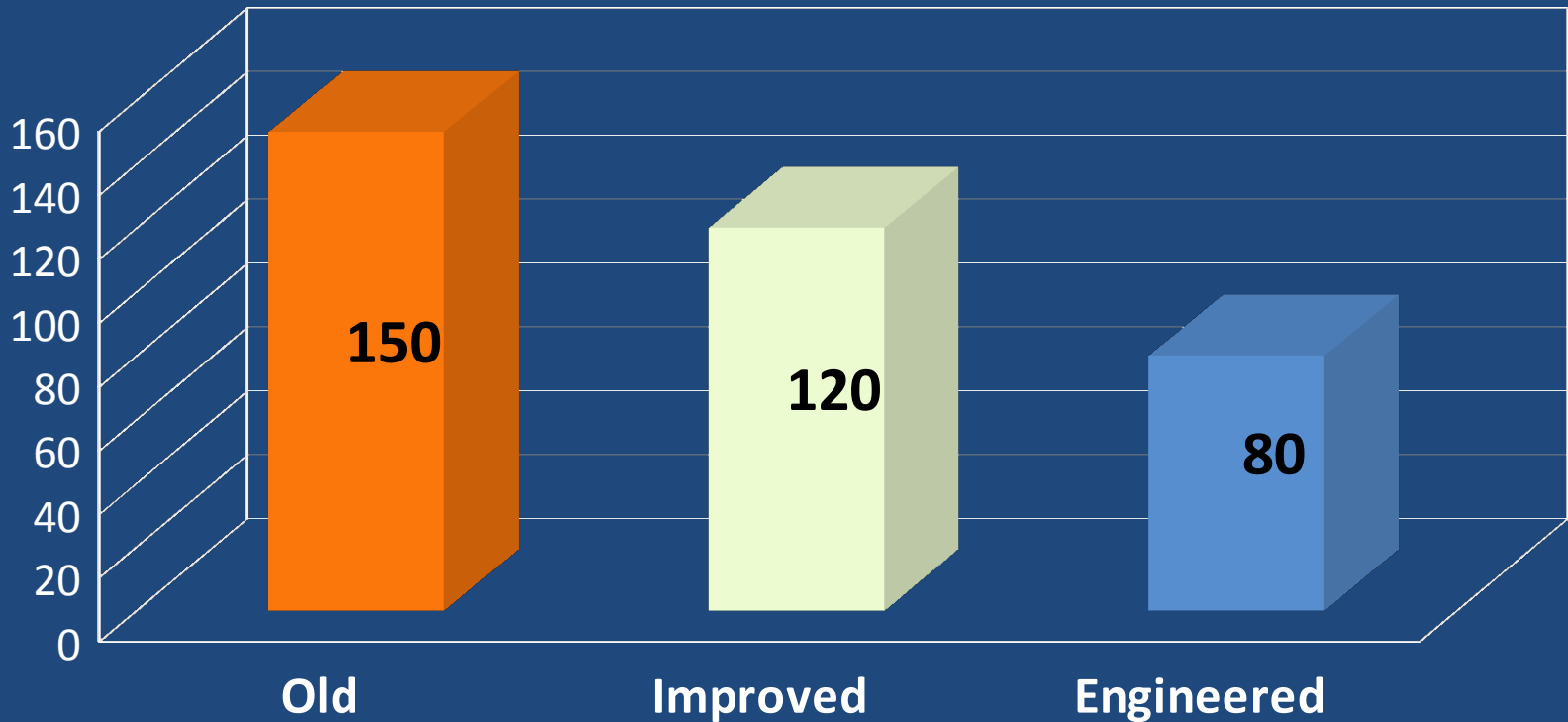
# Productive Operators

Fill Factor (%)



# Productive Operators

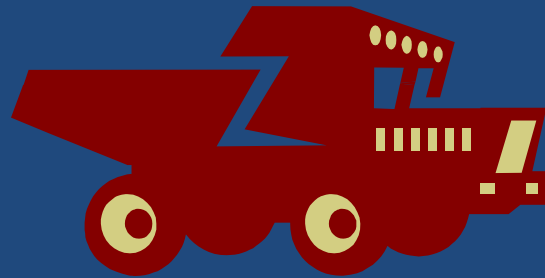
Truck Cycle Time (seconds)



# Safe Operators

50% decrease in safety incidences

Haul Truck = \$5.2M



Questions?

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