



# Unleashing Productivity: How AI and Digital Technology Is Transforming Manufacturing

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# Today's Presenters



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# Manufacturing Challenges



Managing Operating  
Costs



Increasing  
Productivity



Generating Scalable  
Growth

# 87%

Of manufacturing business leaders expect AI to improve their productivity in the next 2-3 years.



Principally through the reduction of product manufacturing cycles / service delivery times

<https://www.forbes.com> - Productivity Potential-at the ground level  
March 31<sup>st</sup> 2024



# Productivity Opportunities

## Downtime

Reducing scheduled and unscheduled downtime.

## Quality

Reducing scrap and causes of non-conformance.

## Output

Increasing productivity rates and improving flow.



# Productivity Optimization

## Lean / Six Sigma

## Digital Solutions

Work for the customer



Design with the user

Identify and focus on problem



Be data driven

Remove variation & bottlenecks



Understand existing ecosystem

Communicate clearly



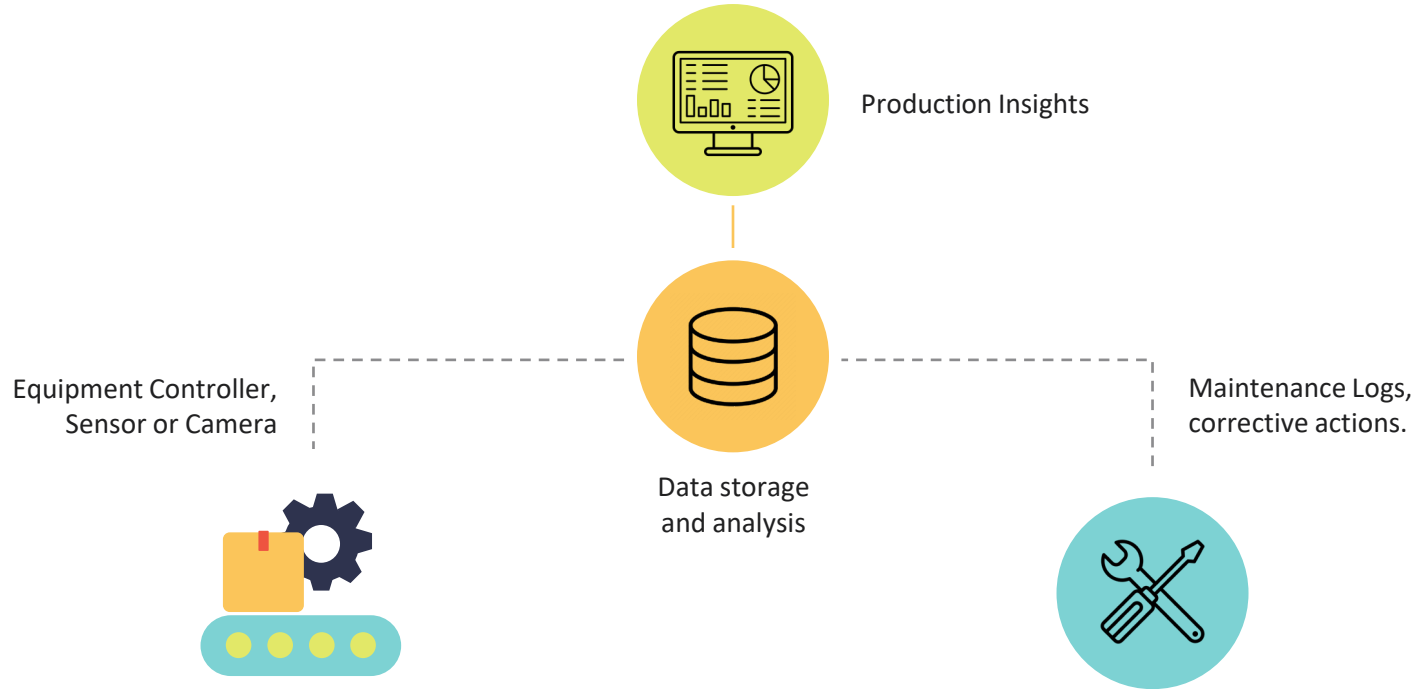
Be collaborative

Be flexible and responsive



Design for scale & sustainability

# Productivity Optimization





# Rapid Productivity Improvement – Contract Manufacturing

## Business Challenge

- High precision, high mix precision machine shop
- Struggled with output even with significant capital investment / expansion
- High backlog – highly regarded supplier but frustrating customers with delivery timeframes

## The Solution

- Cross-functional team to discuss root cause / issues
- Identified data / metrics to monitor root cause issues
- If there wasn't a tangible action to take on the data – it wasn't measured
- Daily huddle – 15 minutes followed by action



# Rapid Productivity Improvement – Contract Manufacturing



**30%**

Improvement in  
productivity in first 90 days

**20%**

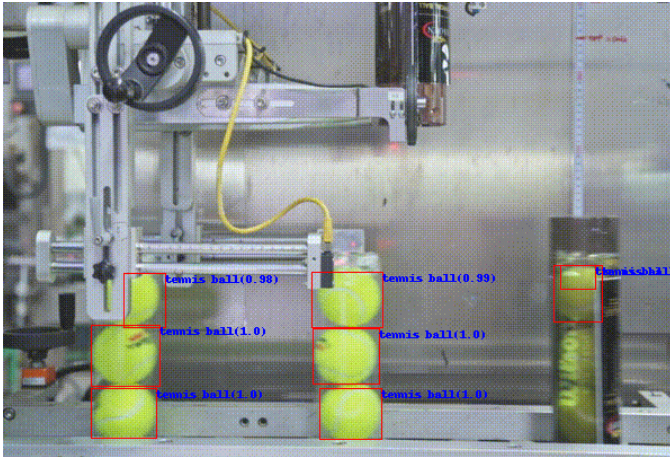
Further improvement in  
productivity by end of year

**\$2M**

Increase in net profit



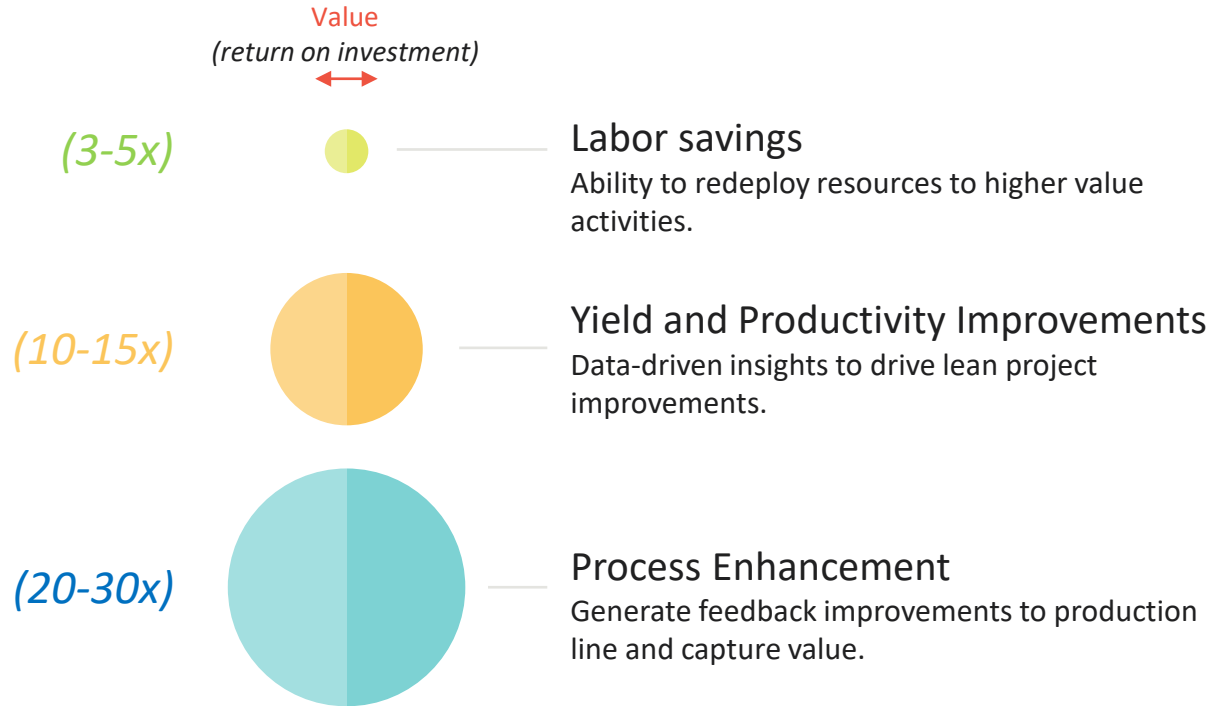
# Production Automation – Vision AI



CLA Digital generated Vision AI inspection model

Vision AI can augment or replace existing manual visual inspection processes.

# Vision AI – Value Summary



# Digital Readiness Assessment

A collaborative roadmap development process focusing on key business challenges.

- 1 Discovery and evaluation
- 2 Current state mapping
- 3 Use case and feasibility study
- 4 Future state mapping
- 5 Roadmap and value definition





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