



# People Power!

## Helping Manufacturers Leverage Their Valuable Resources

December 1<sup>st</sup>, 2022

CPAs | CONSULTANTS | WEALTH ADVISORS | DIGITAL

*We'll get you there.*



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# CLA Digital Introductions



Noel Hopkins  
Digital Growth Director



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Data Science Senior

# CLA Digital Helps Businesses Transform Their Data Into Value In 3 Ways...



## Data

Every business relies on data insights to make accurate informed decisions.



## Software

Leading solutions which allow businesses to leverage off-the-shelf value.



## Automation

Adding automation to key processes allows businesses to scale efficiently.



# ‘Manufacturers’ Outlook Shows Continued Supply Chain Issues, Growing Workforce Needs and Rising Costs’

National Association of Manufacturers

Manufacturers' Third Quarter Outlook Shows Continued Supply Chain Issues, Growing Workforce Needs and Rising Costs. [www.nam.org](http://www.nam.org), September 19, 2022



# Digital Services Can Help With Critical Labor Challenges



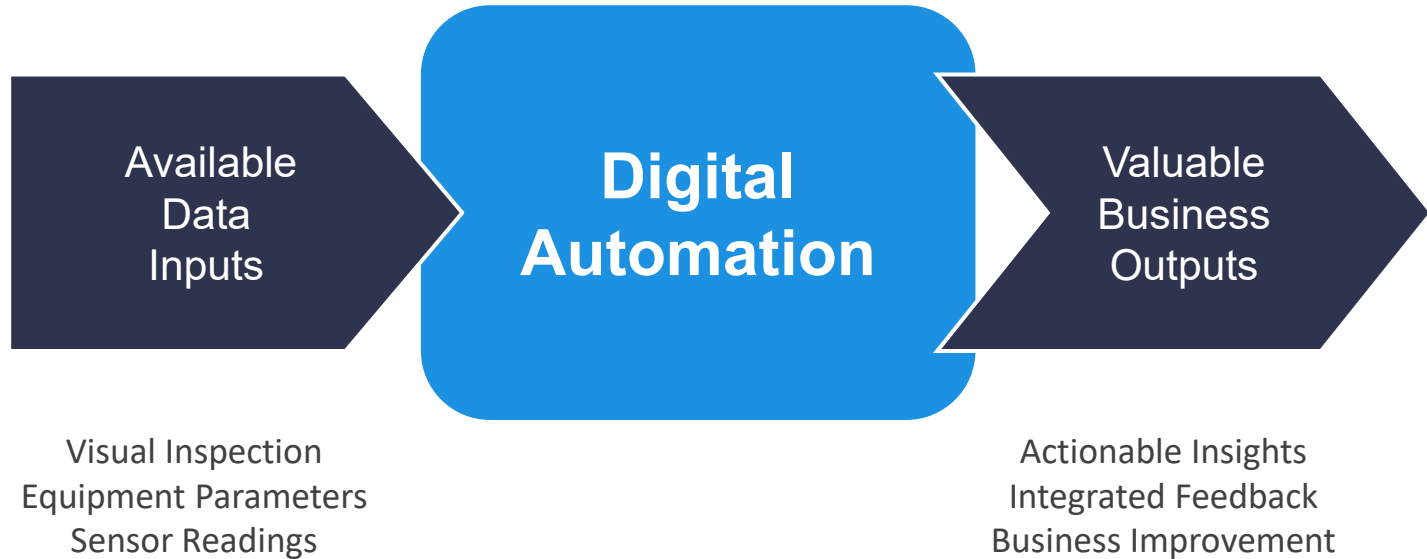
‘The Labor Shortage Is Killing American Manufacturing. Here’s How AI Can Bring It Back To Life.’

The Labor Shortage Is Killing American Manufacturing. Here’s How AI Can Bring It Back To Life. [www.forbes.com](https://www.forbes.com), Aug 28<sup>th</sup>, 2022

- Access to labor is a critical business challenge for manufacturers across the country
- Highly challenging for repetitive and mundane tasks
- Significantly impactful on productivity, quality and operating cost



# Process Automation





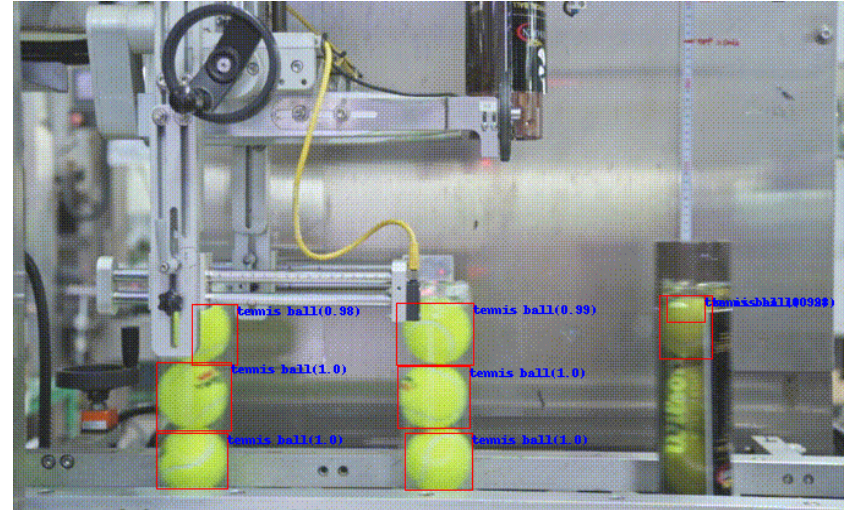
# Automated Visual Inspections For Production

CLA Digital is helping manufacturing businesses who are seeing:

- Missed defects, low production rates
- High labor costs, challenges fulfilling roles
- Opportunity to automate real-time decision making



CLA's Computer Vision provides fast, accurate, and consistent results





# The ROI of Automated Visual Inspections

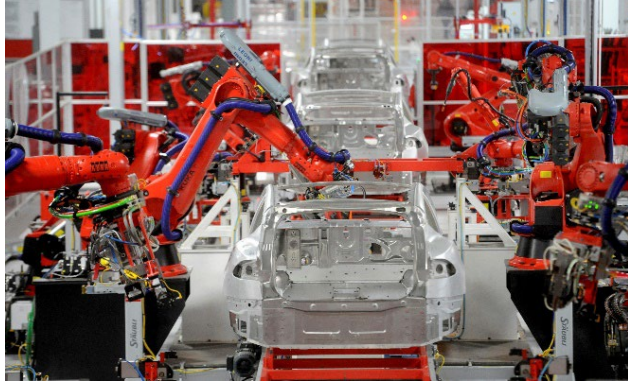


# Case Study: Hard Hats

- Very few training examples relative to legacy machine learning workflows
- Significantly more stable (predictable failure modes)
- Confidence level allows us to have a fallback when we do not trust the system
  - Human in the loop
  - ~~Deer~~ -> Reviewer
- What does this do for you?
  - Added reliability
  - Less downtime
  - Improved compliance



# Operating Costs



‘The Future of Manufacturing is Powered by Data and Analytics.’

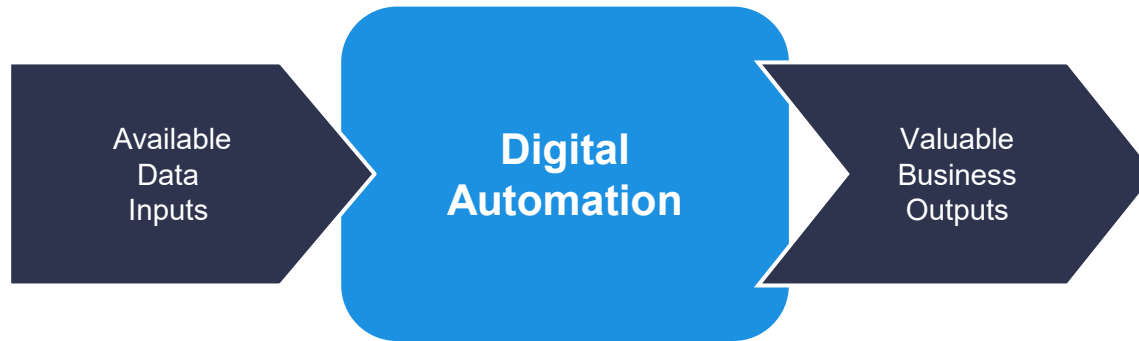
The future of manufacturing is powered by data and analytics.  
[www.weforum.org](http://www.weforum.org), Sep 9<sup>th</sup>, 2022

- An overwhelming 82% of companies have experienced at least one unplanned downtime incident over the past three years. Most have suffered two or more.
- Many plants rely on reactive, run-to-fail maintenance processes. This means they only perform repairs after equipment has broken.



# Solution Integration

- Trigger based system allows it to be integrated easily into existing systems
- Operational statistics have significantly less bias, because the system feeding them is more consistent in its reporting



# Predictive Maintenance Considerations

- Detects when sensor data starts to drift outside normal ranges
- Allows earlier intervention, reducing downtime
- Model can be tuned to be especially conservative (for hyper critical systems) or more relaxed in cost sensitive scenarios

# Predictive Maintenance



CLA Digital is helping clients who are looking to:

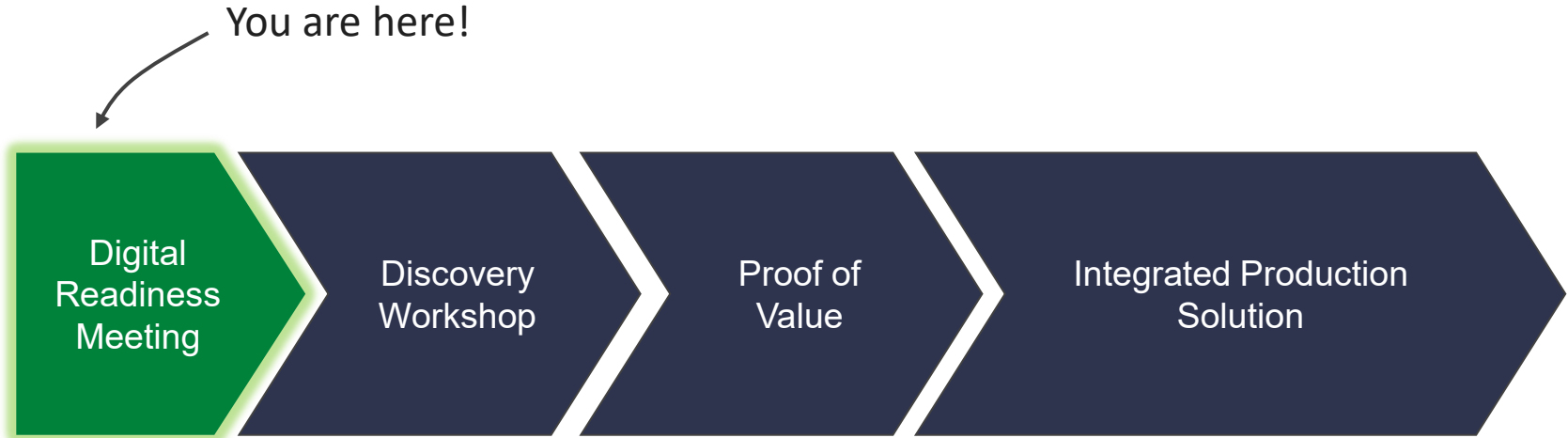
- Maximize operational uptime
- Optimize scheduled maintenance and service intervals
- Align supply and demand to optimize productivity



**CLA's predictive analytics provide the ability to proactively manage critical equipment**



# How To Get Started





# Contact Us



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