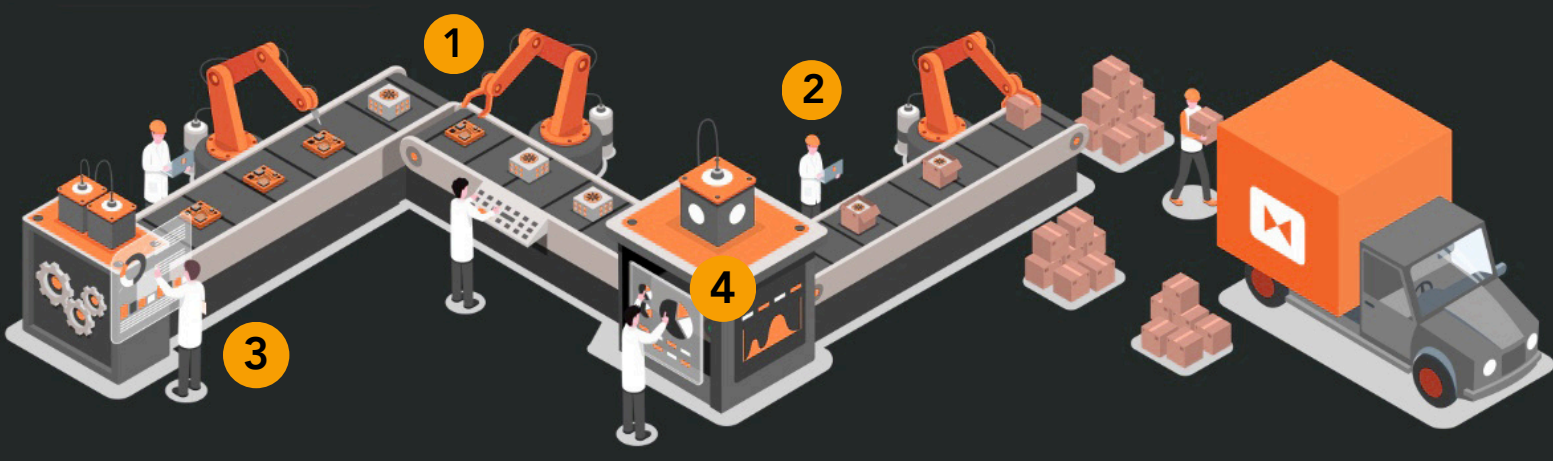Accella AI

4 MANUFACTURING CHALLENGES AI EXCELS AT

1 Detect Defective Products

- Capable of >99.99% accuracy
- At speeds of 1,500+ products per minute
- Identify defect categories and finds new ones

Reduce defective products, reduce false positive defects

2 Optimize Maintenance Cycles

- Identify equipment in need of maintenance
- Create prioritized maintenance lists based on remaining useful life

Extend useful life of equipment and optimally deploy maintenance staff

3 Perform Root Cause Analysis

- Pinpoint what input factors drive outcomes
- Find complex patterns that are not detectable by other methods

Find and fix what causes production issues in the first place
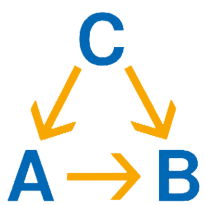
4 Improve Process Control

- Refine process control limits based on historical data
- Periodically adjust control limits to optimize processes

Implement more cost-effective, sustainable, energy-efficient processes
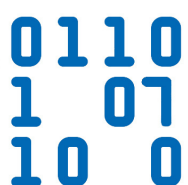
AND 1 THING AI CAN'T DO: MAGIC

Find causation if there isn't any

If there are no patterns and causal relationships in the data, AI can't find them. If AI doesn't find causality, it isn't there.

Detect issues, if they aren't measured or visible

If you can see it, AI can see it. If it's hidden, obscured, invisible, in the background noise, or doesn't get measured AI can't detect it.

Make accurate predictions based on faulty or too few data

Data fuels AI, if the training data is inaccurate, data sets are missing or there is too little data for the AI to learn, AI can't detect patterns.

www.accella.ai

Contact us to discuss how you can use AI in manufacturing

Tina Baumgartner
tina@accellagroup.com
510-508-8462

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AI for Manufacturing professional

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