# Accella AI

## APPLICATIONS OF AI IN MANUFACTURING

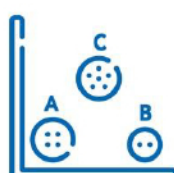## QUALITY CONTROL

### INCOMING INSPECTION

Incoming raw material and components

Don't start working with material that will cause quality or maintenance issues later on

### DEFECT DETECTION

At all stations, esp. before critical and bottleneck steps

Don't continue working on something that is being scraped

### ROOT CAUSE ANALYSIS

All critical stations

Don't forego an opportunity to perform root cause analysis and improve your processes

### PROCESS DRIFT DETECTION

All critical stations

Bad quality can be an indicator of problems, don't miss the chance to ID emerging production issues

### FINAL INSPECTION

Before packaging products for shipment to customers

Don't ship products that don't meet your customers' specs

### PACKAGING INSPECTION

While palletizing/packaging products for shipment

Don't ship the wrong products to your customers

## PREDICTIVE MAINTENANCE

### EQUIPMENT STATUS

All critical, expensive, difficult to repair or replace equipment

Don't wait until assets fails before you intervene with maintenance

### PERFORMANCE DRIFT

Critical equipment and critical process steps

Don't miss trends that indicate that equipment performance is drifting

### MAINTENANCE STATUS

Expensive to repair or replace equipment

Don't miss the opportunity to optimize your maintenance schedules

### KNOWLEDGE CODIFICATION

Critical, expensive difficult to repair or replace equipment

Don't lose knowledge when personnel leaves, codify knowledge using AI

### EQUIPMENT SAFETY

Potentially dangerous or hazardous process sets

Don't wait to intervene until assets fail catastrophically endangering people and property

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