

# 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

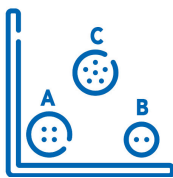
### DEFECT DETECTION



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

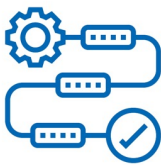


While palletizing/packaging products for shipment

Don't ship the wrong products to your customers

## PREDICTIVE MAINTENANCE

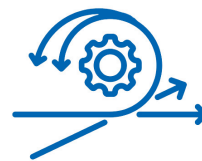
### EQUIPMENT STATUS



All critical, expensive, difficult to repair or replace equipment

Don't wait until assets break 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

### ACCELLA AI

**We Make  
Smart  
Manufacturing  
a Reality**

Uli Palli, CEO  
Uli@accellagroup.com

Tina Baumgartner, VP of Business  
Development  
Tina@accellagroup.com