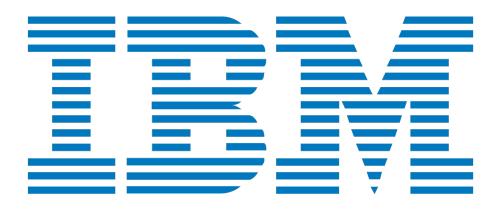
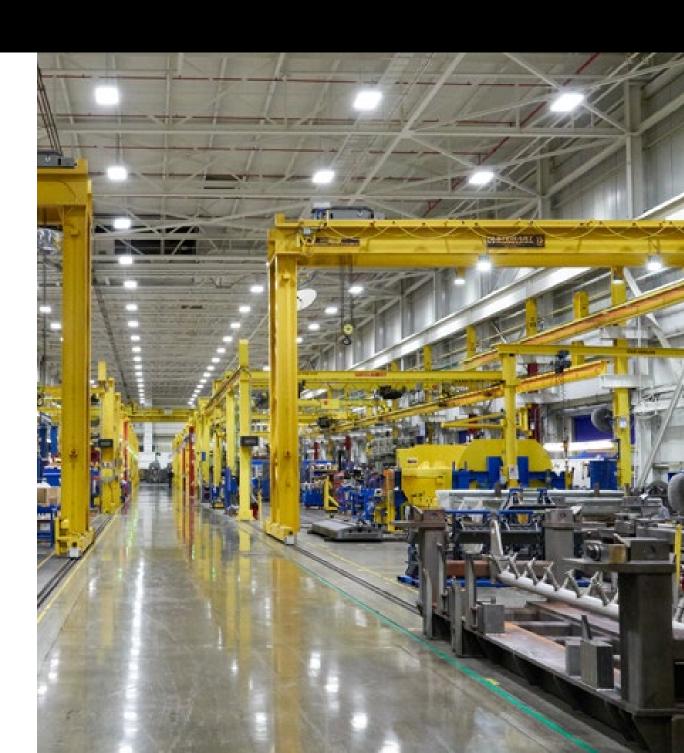
# IBM Maximo





### **Sustainability Software**

# Agenda

### **IBM TEAM**

**Colton Howard** 

Maximo Technical Specialist

**Simon Cantwell** 

Maximo Technical Specialist

### **Objectives of the call**

- 1. Introductions
- 2. Maximo Visual Inspection Overview
- 3. Demonstration
- 4. Next Steps

## What Wabtec Uses Today





Manage Intelligent asset management



Monitor
Monitor real time
data and
detect anomalies



Health
360-degree view
of asset health



**Predict**Predict failures
earlier using AI



Visual Inspection
AI-Powered insights
for inspections and
production quality



Mobile
Technician work
execution
remotely



Assist
Prescriptive
assistance using
Generative AI



**Scheduler**Schedule work and resources

### **Sustainability Software**

# Maximo Visual Inspection



#### **Business Value**

- Increase accuracy and speed of inspection to 99%+
- Manual inspections ONLY catch 18% of issues, increasing annual maintenance costs by 20%+
- Rework and Material waste cost amounts to 1.2% of annual rev
- Increase expert productivity



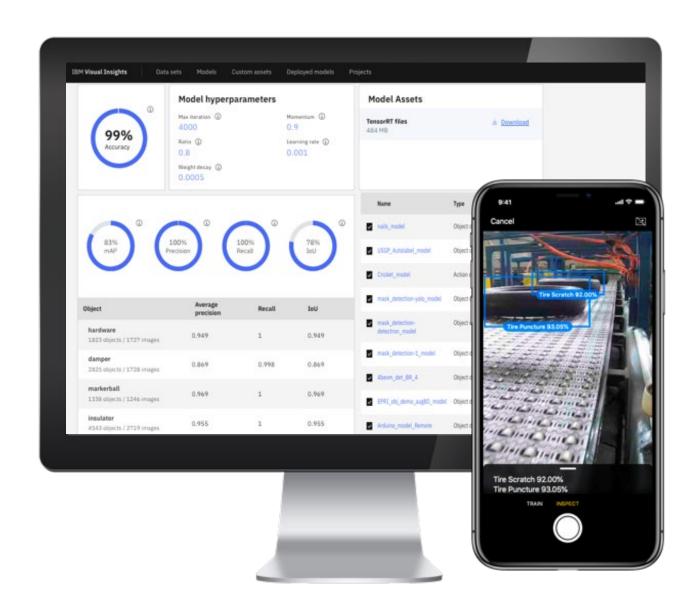


- Central point for management of AI models
- Application for enhanced physical inspections, production quality, counting, and barcode scanning.
- Powerful auto-AI engine at the core reduces cost and time for AI development by 65%+



### Capabilities

- Simple, rapid deployment of custom computer vision models
- Classification, Object Detection, and Action Detection models to support a variety of organizational requirements

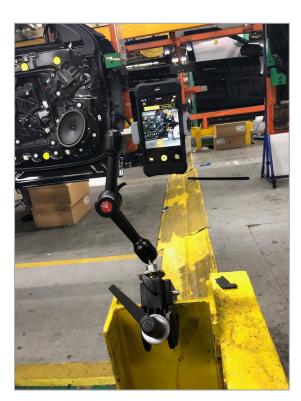


# IBM Maximo Visual Inspection: Game Changing Capability



Quick response to process issues using off the shelf Visual Inspection technology

#### **Install**



### Collect



### Inspect



### **Alert**

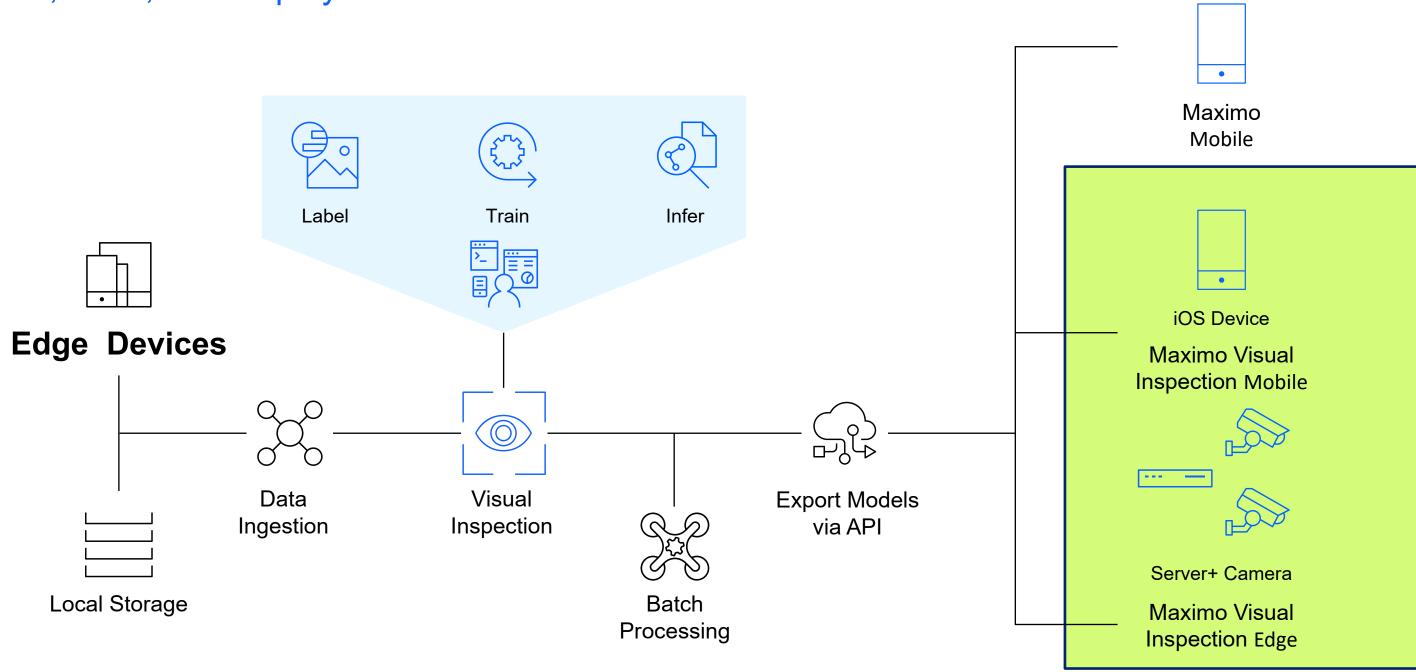


Hours

- ► Improves inspection, failure detection and error-proofing processes with machine learning, acoustic modeling, and visual recognition.
- ► To be used in **handheld devices** or fixed mounts.
- ► Instant diagnosis object detection and defect detection & classification.
- Automotive specific triggers timestamp, VIN, broadcast codes.
  - Easy to deploy by using everyday
- technology.
- Dashboard with trending analytics.
- Respond to process issues in hours, not days or weeks

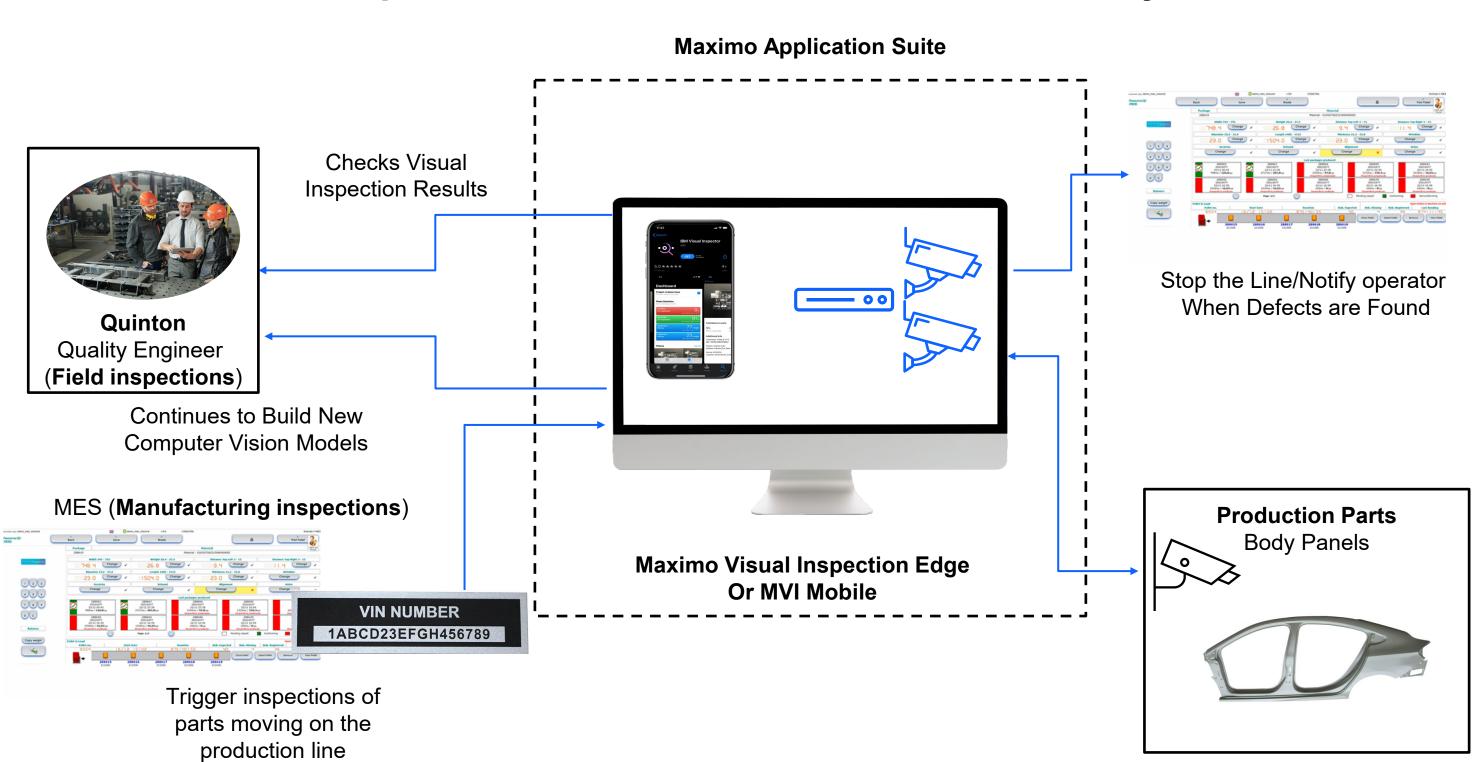
## Maximo Visual Inspection

Label, Train, and Deploy



**Edge Devices** 

## Operational workflow with MVI and OT/IT systems



## Demonstration

### **Bearing Defects**

**Left** - Good Condition : No visible issues

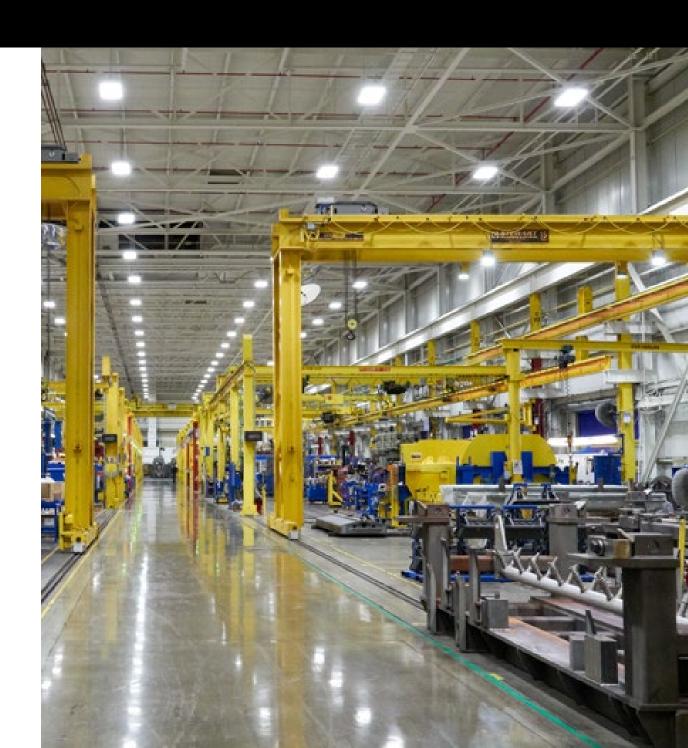
**Middle** - Surface Defect: Visible scratches and burrs on its surface. Compromising the shield's sealing capability or leading to corrosion risk.

**Right** – Shield Missing: The seal/shield is missing. Its absence could indicate an issue in the assembly process, where a step was skipped or overlooked.



# IBM Maximo

# Demonstration



# Public Success stories-Manufacturing

**Henry Ford Innovation Award** 

**Automate 2022 Presentation** 

**MVI Demo** 

MVI click through demo

**Automotive News article** 

**MVI Demo Montage** 



### **Sustainability Software**

## Next Steps

in 1 hour

## Introductory Meeting –Demo(s)

#### **Key Activities**

- Raise Awareness (Demo necessary)
- Share use cases, explore the application of capability with client

**Outcome**: Schedule Onsite Workshop

2 hours

## Workshop Planning

#### **Key Activities**

- Identify 4-6 use cases
- Validate use cases will fit in 2-day model

**Outcome**: Pick 2-4 use cases and confirm logistics for the workshop

2-3 Day

## Workshop: Proof of Technology

#### **Key Activities**

- Plant tour-Capture pics of use cases
- Build MVI Models
- Demo client uses cases on day 2
- Discuss/demo common integration scenarios
- Executive presentation with recorded demos of their use cases
- Outcome: Decision on scoping paid pilot/ production implementation

4-6 months

## Production Pilot (Land 2-4 use cases)

#### **Key Activities**

- Site Survey to choose "landing" use cases
- Implement use cases (with MES integration)
- Outcome: Production implementation of a few use cases to prove operational value

#### **Production Expansion**

#### **Expansion**

- xxx inspections per plant
- New Plant