# Transform your asset management, maintenance and operations
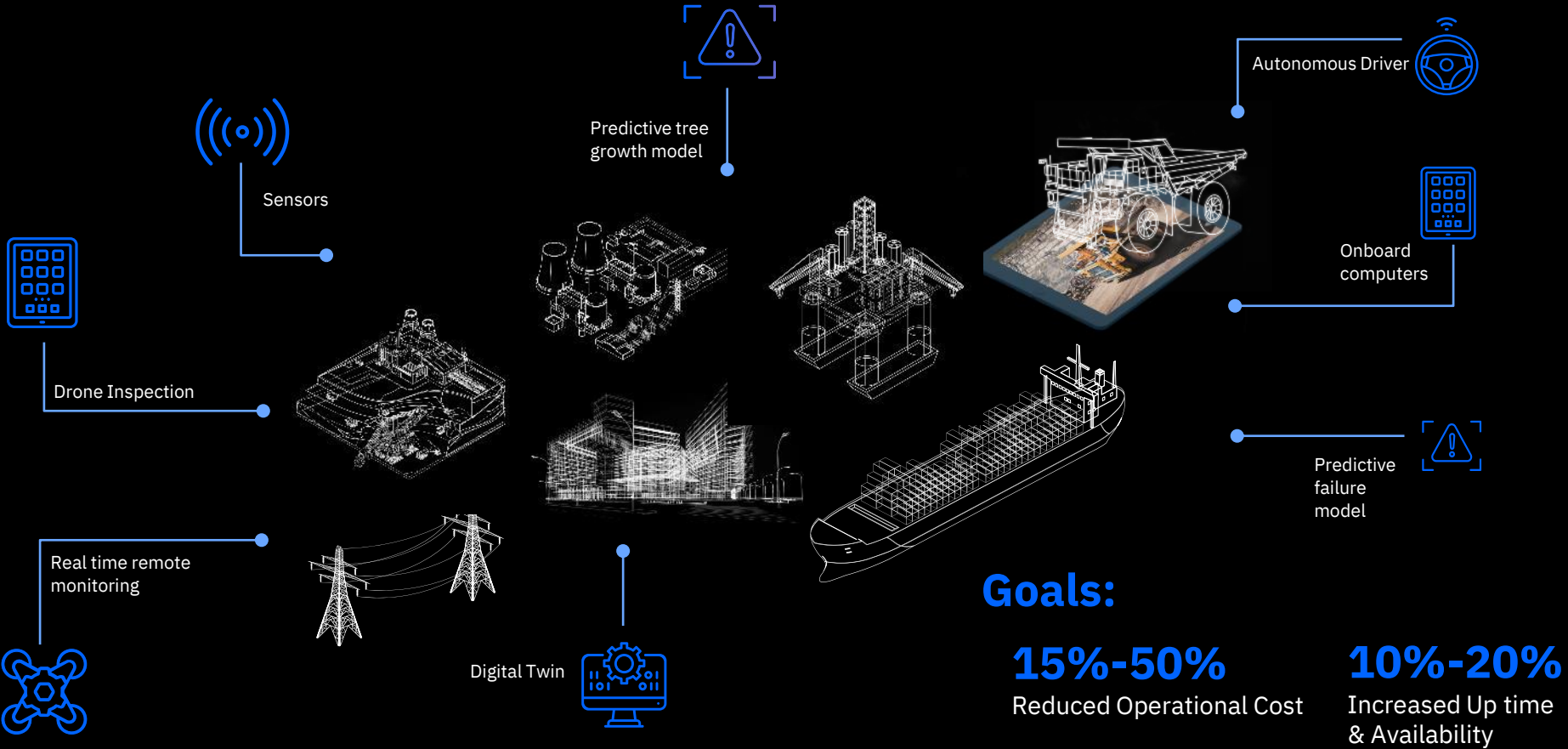
## IBM Maximo Application Suite

Han van Gerwen
Ronald Teijken
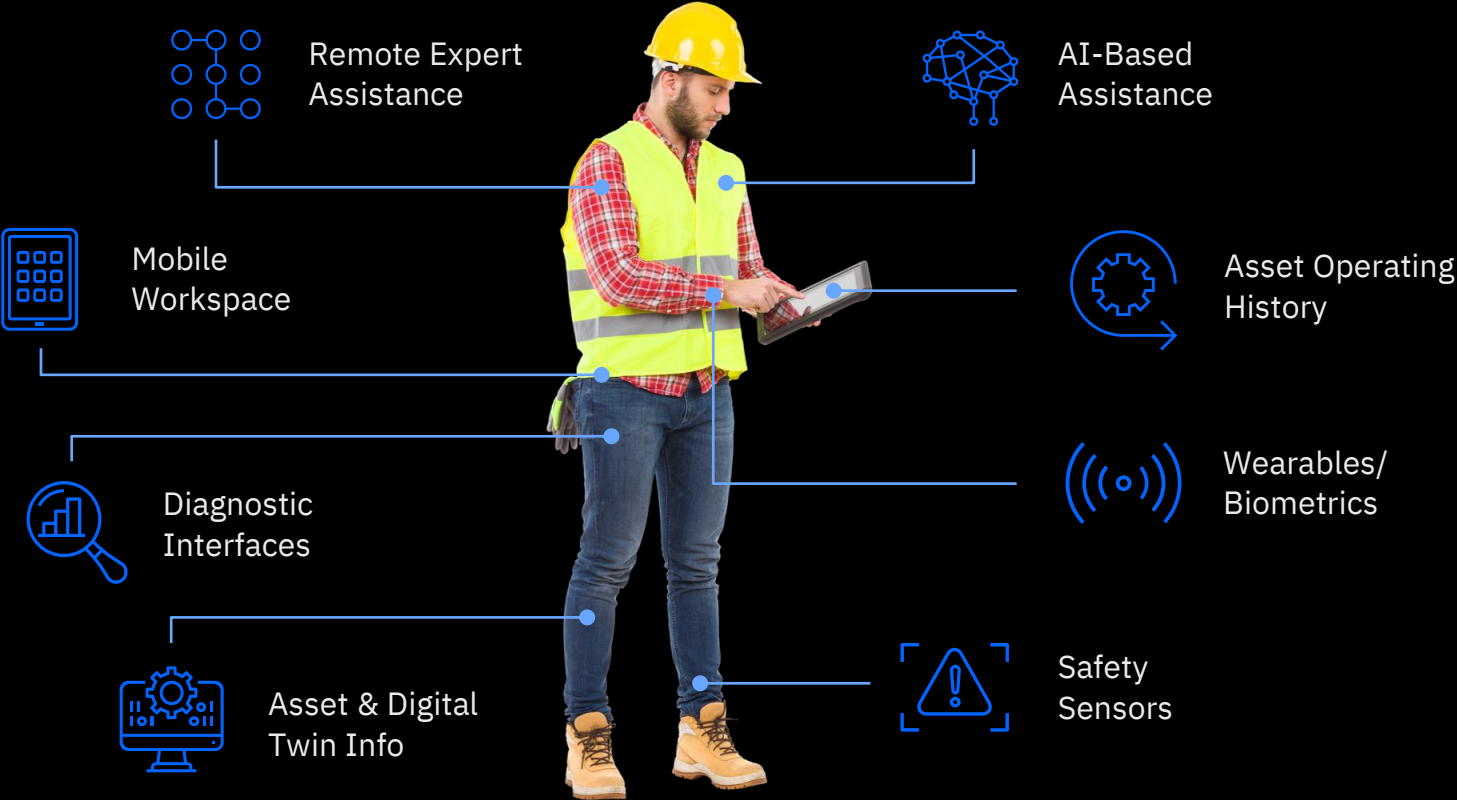
*AI Applications*

Watson IoT™

# Assets are becoming more Connected



Predictive tree growth model

Sensors

Autonomous Driver

Onboard computers

Drone Inspection

Predictive failure model

Real time remote monitoring

Digital Twin

## Goals:

### 15%-50%
Reduced Operational Cost

### 10%-20%
Increased Up time & Availability

# New Ways of Working with Mobility and AI

Remote Expert Assistance

AI-Based Assistance

Mobile Workspace

Asset Operating History

Diagnostic Interfaces

Wearables/ Biometrics

Asset & Digital Twin Info

Safety Sensors

# Supporting customers in their Journey to Predict



**Visual Inspection**
Visual anomaly detection

**Predict**
Use data to predict failures

**Monitor**
Manage and detect anomalies

**Health**
Manage Health
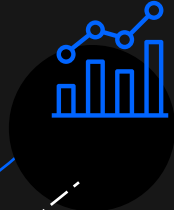
**Manage**
Understand and manage maintenance
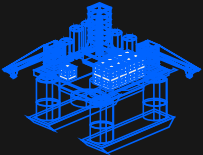
**Digital Twin**
1-click download

# MAS-Visual Inspection
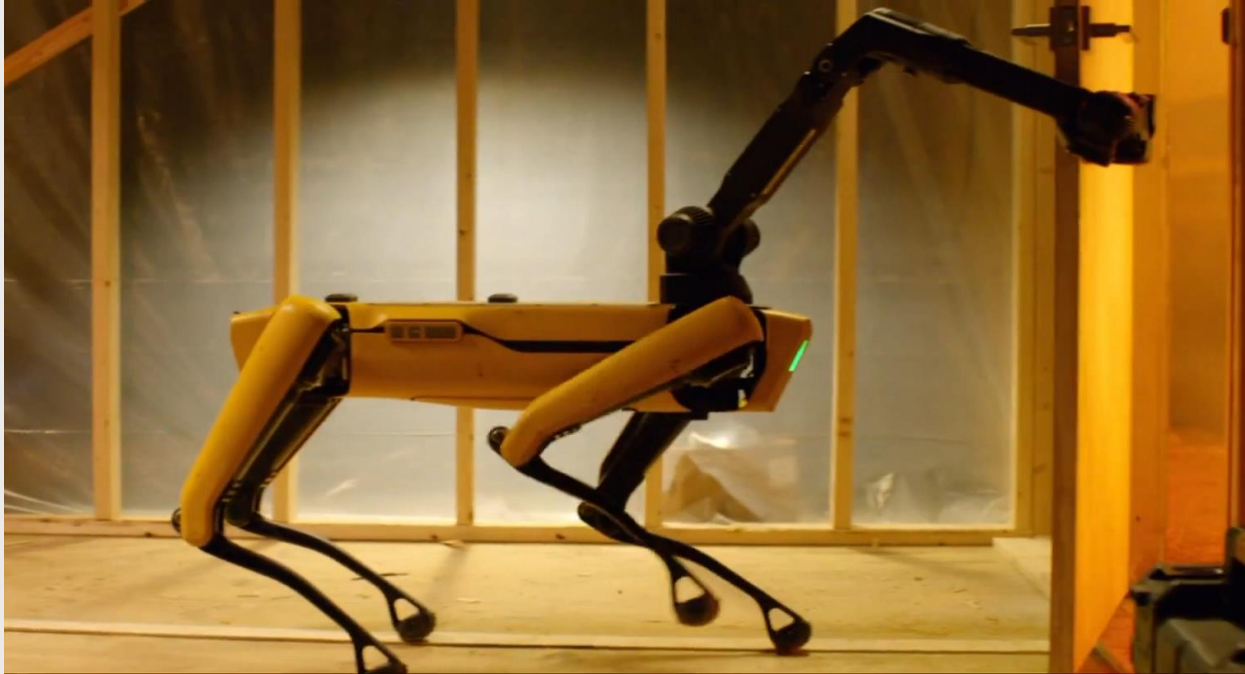


**IBM and Boston Dynamics decided to ask the question: can plant data be safely collected and analyzed at the edge?**

Using Spot already helps eliminate the need to put sensors on every piece of equipment. Now, IBM is adding the power of AI and Maximo solutions to Spot to provide analytics at the edge. With help from IBM, Spot can interpret what it "sees" through its onboard cameras and sensors.

https://www.ibm.com/case-studies/boston-dynamics/

# MAS-Visual Inspection - again



**IBM and Verizon Are Teaming Up on 5G, AI and IoT Industrial Solutions**

Combined with the power of 5G Ultra Wideband, IBM's Maximo Visual Inspection app on the iPhone 12 lineup can help to reduce unplanned downtime, unnecessary maintenance and helps to identify defects faster.

https://www.youtube.com/watch?v=4cJXA4t7PWo

# Digital Twin Exchange.



**A first of its kind Exchange that allows manufacturers, OEMs, and 3rd Party content providers to share digital resources as Digital Twins**

https://digitaltwinexchange.ibm.com

# Taking Customers Down a Journey: Mobile Technician

**Safety**

Technician and workplace safety

**Maximo/ Mobility**

**Assist**

AI Assist and Remote Expert Collaboration

**Monitor**

Manage and detect anomalies

**Digital Twin**
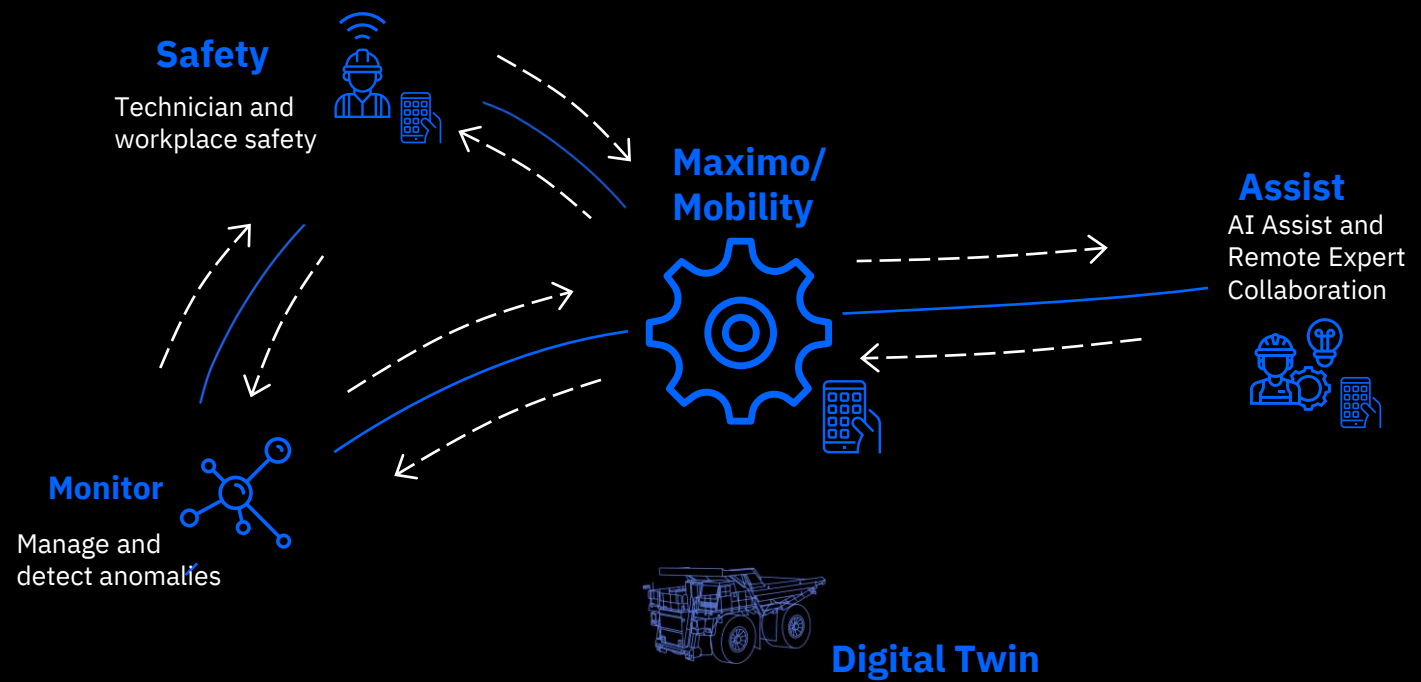
# MAS-Mobile
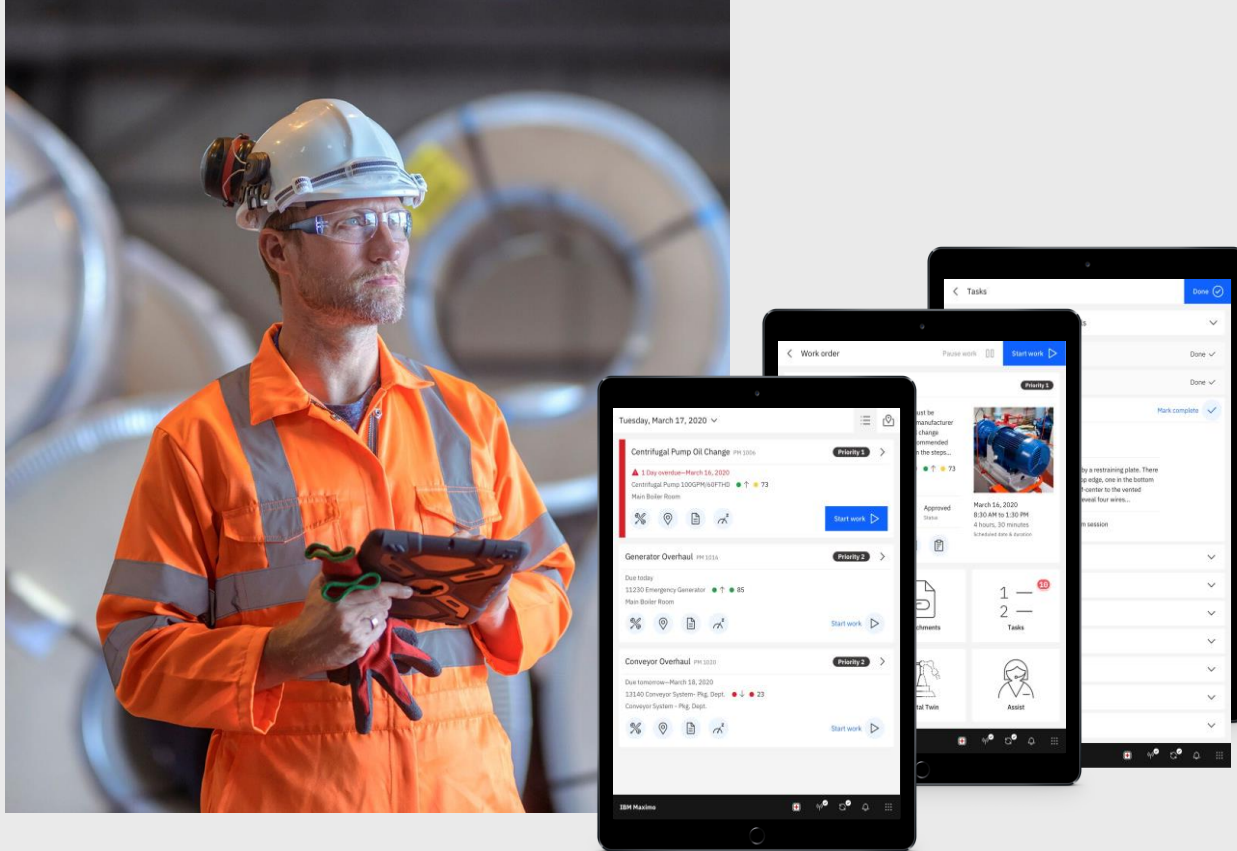


**Deliver the right asset operational data and step-by-step guidance to technicians when and where they need it with AI-powered assistance**

Maximo Mobile provides technicians the right asset operational data at the right time — all in the palm of their hand. It helps your technicians scale their expertise, improve asset reliability, and streamline business operations.

# MAS- Mobile - Assist
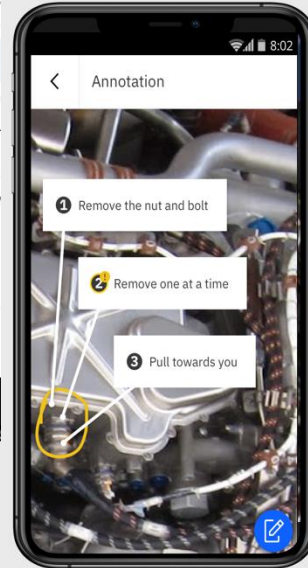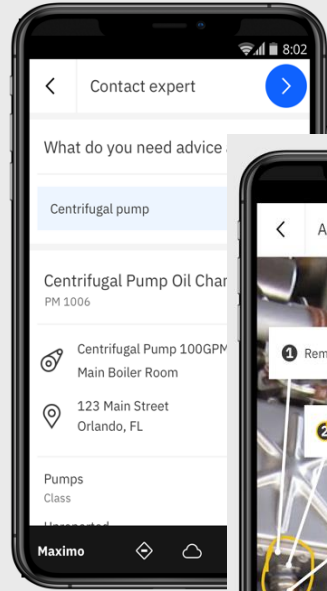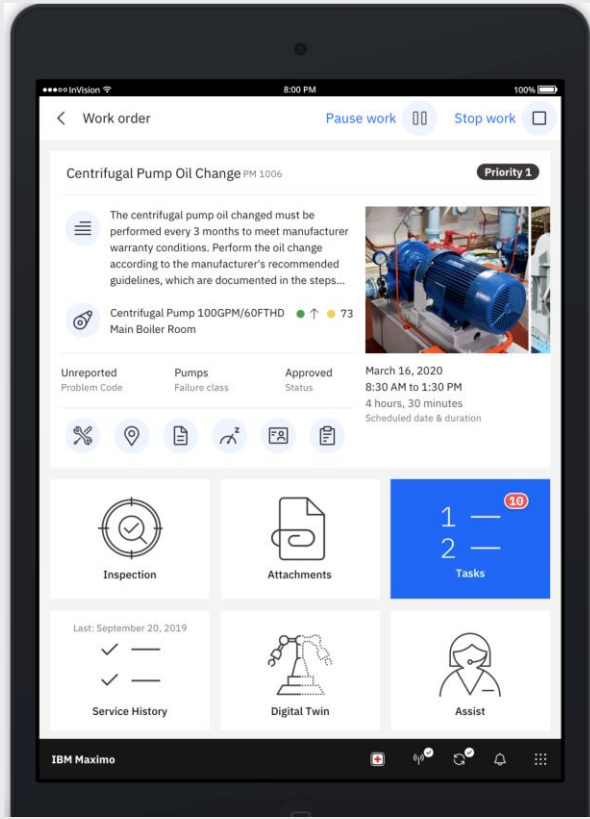


**Empower technicians to work autonomously by enabling them to obtain AI guidance or remote expert assistance whenever they need it**

Aging Workforce, 80% of time spent researching problem

Time spent on researching reduced by 75% which equates to US$10 million-worth of time savings.

Use peer assistance to help every technician perform like your best technician
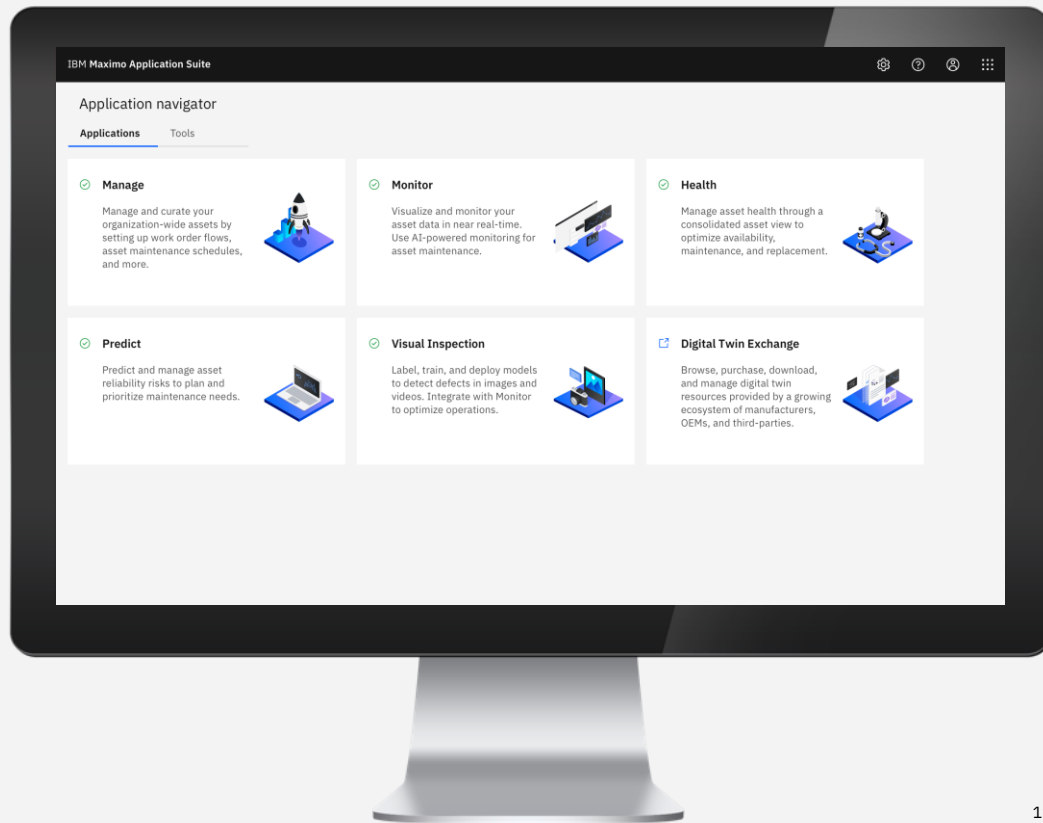
Peer collaboration and Augmented Reality can help reduce repair times by up to 50%

https://www.ibm.com/products/maximo/mobile-eam

# Start anywhere and scale your digital transformation journey

**Integrated Suite of Applications**

# Simplified Licensing and Usage
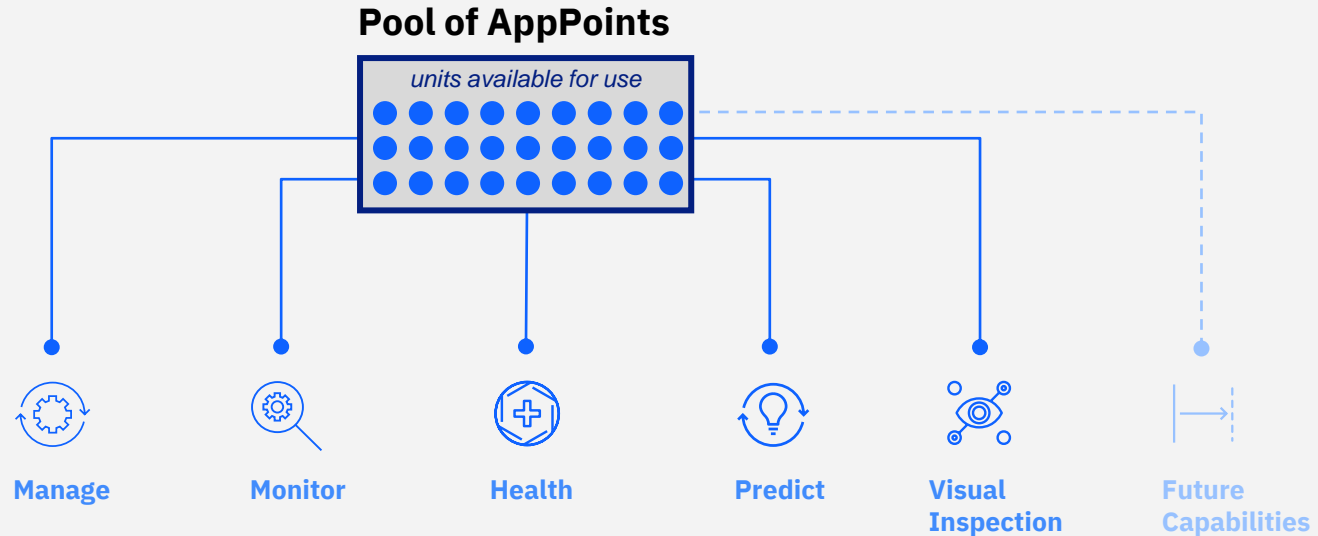
### 1. Single license

One entitlement to entire Suite

### 2. Flexible consumption

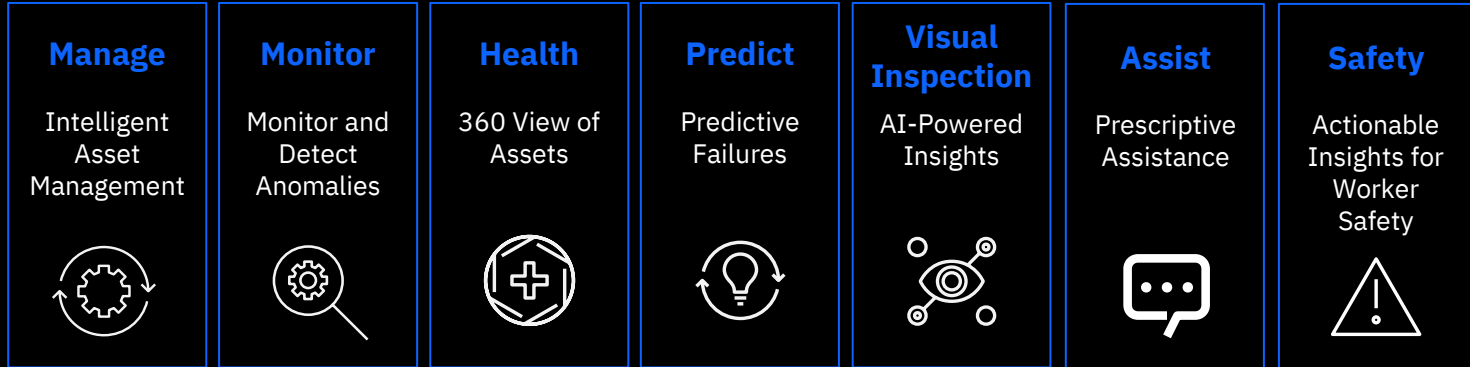Sharing of license through concurrent users

### 3. Simplified usage

Access applications without additional provisioning

## Pool of AppPoints

*units available for use*

**Manage**  **Monitor**  **Health**  **Predict**  **Visual Inspection**  **Future Capabilities**

# Maximo Application Suite
*Best of class capabilities to provide complete view of your assets*

| **Manage** | **Monitor** | **Health** | **Predict** | **Visual Inspection** | **Assist** | **Safety** |
|---|---|---|---|---|---|---|
| Intelligent Asset Management | Monitor and Detect Anomalies | 360 View of Assets | Predictive Failures | AI-Powered Insights | Prescriptive Assistance | Actionable Insights for Worker Safety |

IBM Cloud Pak for Data | IBM Watson Studio | IBM Watson ML | IBM Watson Discovery

**Red Hat OpenShift**    Infrastructure Independent
Common Operating Environment

IBM Cloud     aws     Azure     Google Cloud     Edge     Private     Systems

IBM **Maximo**