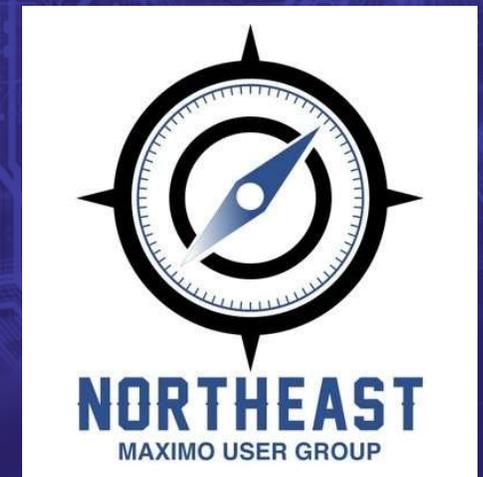


The Road Ahead with Maximo

Maximo Application Suite 8.0

Kim Woodbury
Senior Product Manager
kwoodbur@us.ibm.com

May 2021



Please note

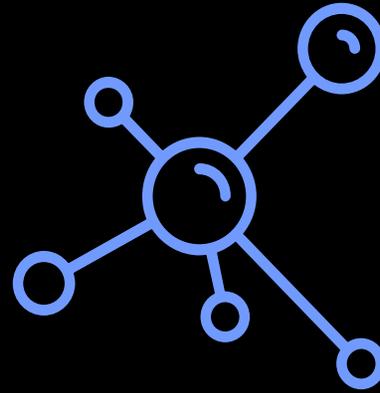
IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion.

Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision.

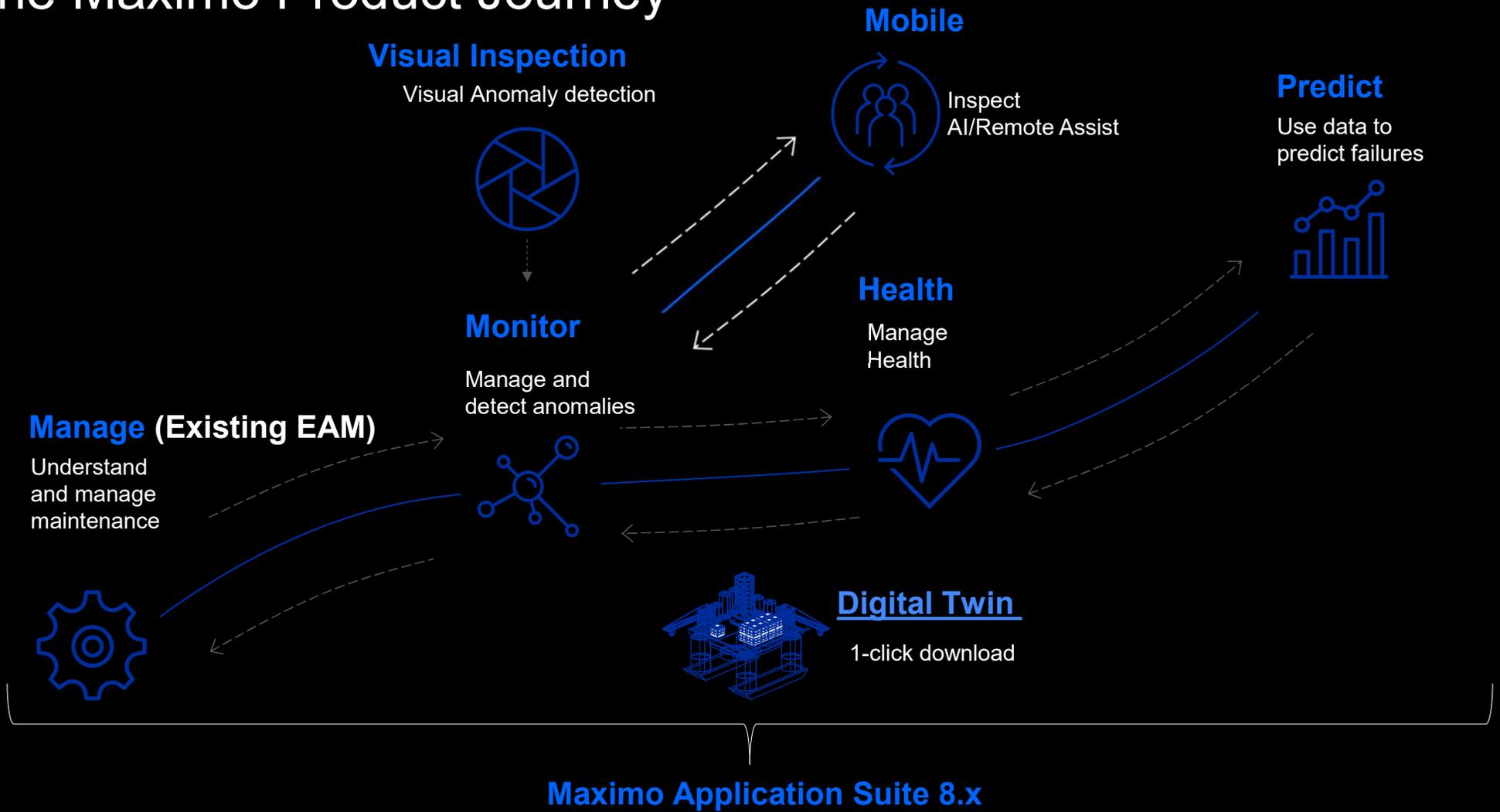
The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract.

The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

Maximo Application Suite

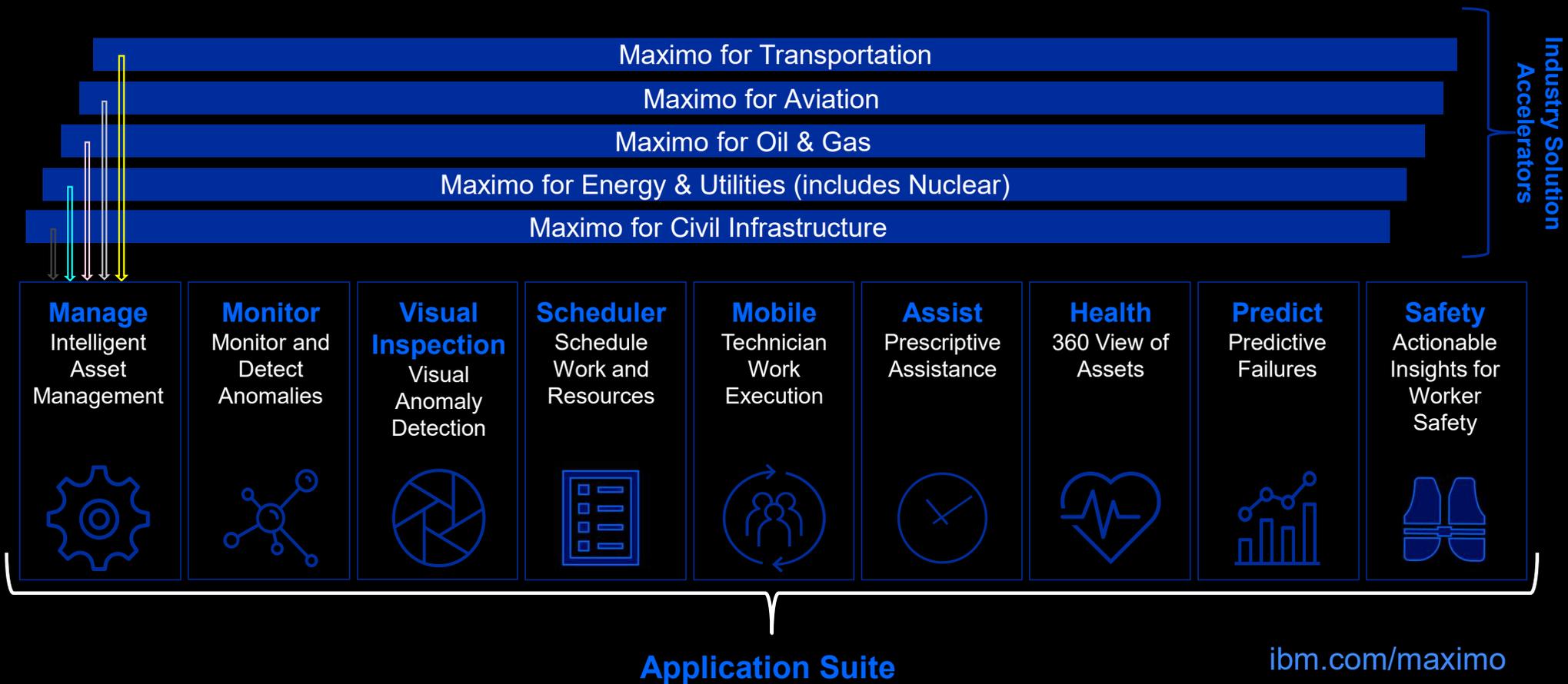


The Maximo Product Journey



Maximo 8.0 Application Suite

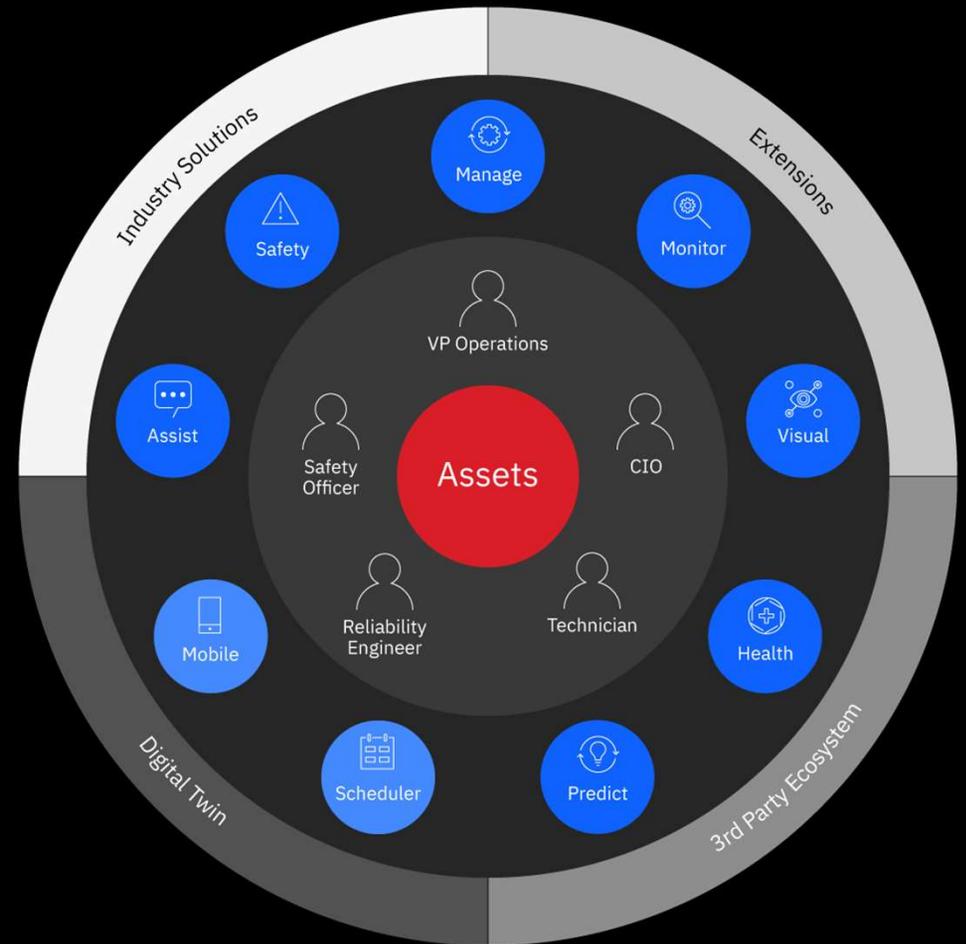
designed for the new operating model



IBM Maximo Application Suite

Remote asset monitoring, maintenance and reliability applications in a single platform

- **Integrated** solution
- Usage **Flexibility**
- **Multi-cloud** deployment



Simplified Licensing and Usage

MAS AppPoints will be used across suite

Entitlement covers the whole suite. AppPoints are expended based primarily upon different active User types

Available as Subscription or Perpetual Licenses

1. Single license

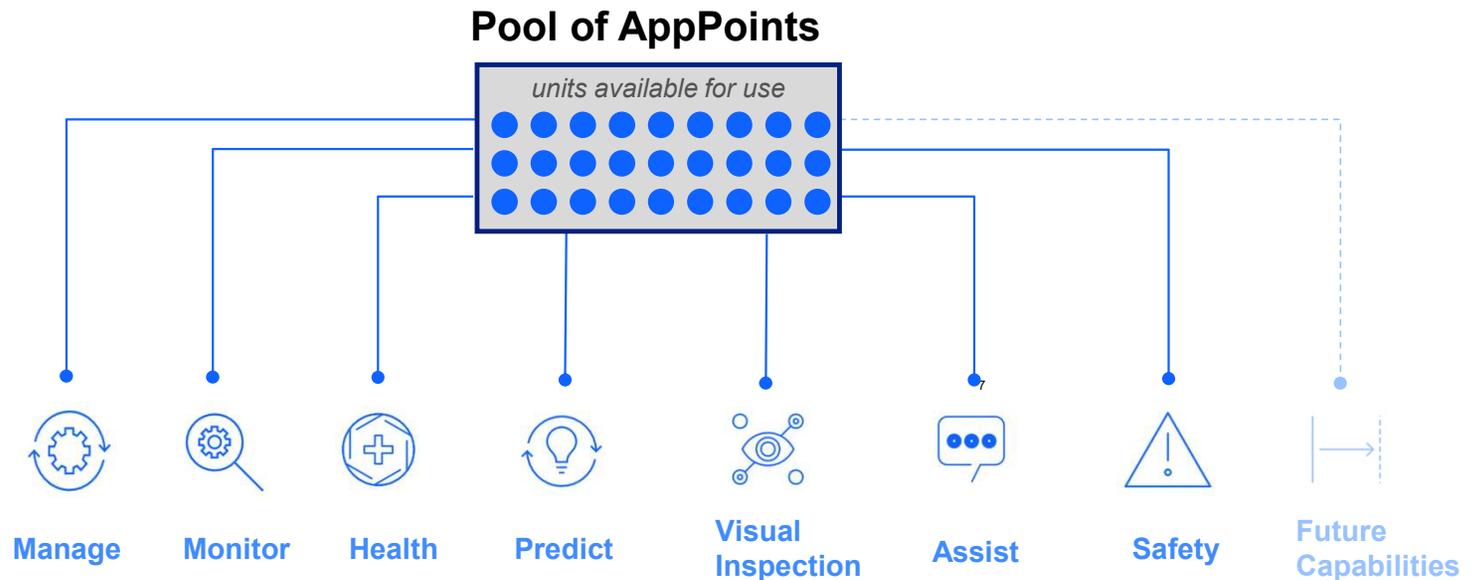
One entitlement to entire Suite

2. Flexible consumption

Sharing of license through concurrent users

3. Simplified usage

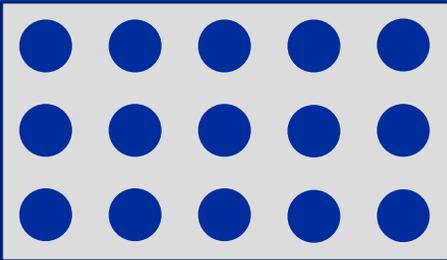
Access applications without additional provisioning



MAS Application License Model

Premium Concurrent User

15 AppPoints



Manage

Industry Solutions

- Oil & Gas, Aviation, Transportation, Utilities, Nuclear, Civil Infrastructure

Add-ons

- Asset Configuration Mgr, Service Provider, Health, Safety Env.

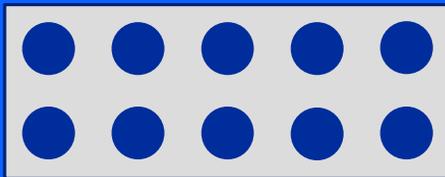
Predict

Health and Predict - Utilities

Visual Inspection

Base Concurrent User

10 AppPoints



Manage

Includes:

- Linear
- Calibration
- Spatial (requires install)
- Scheduler

Health

Safety

Limited Concurrent User

5 AppPoints



3 Modules:

- Manage
- Manage Industry Solutions
- Manage Add-ons

Mobile

- Maximo Mobile
- Assist
- Anywhere
- 3rd Party

Monitor

Self Service Concurrent User

0 AppPoints



Self Service Applications

- Service Requests
- Desktop Requisitions
- Requests (Oil & Gas)
- Create/Review Incidents (HSE)
- Vehicle Requests (Transportation)
- Graphical Appt Book (Scheduler)
- Bill review (Service Provider)
- Data Transfer via devices and sensors (Safety)

Install – 1 AppPoint
(x multiplier)

SAP/Oracle Connector
(x80)

Spatial
(x20)

Civil Infrastructure
(x50)

Visual Inspection
(x45) Edge (1 pkg 5)

Assist
(x150)

Health & Predict - Utilities
(x60)

Application Suite: A New Model for Software



Faster **Hybrid Installation**



All Applications in one Suite



Simplified Licensing

Included with MAS

License:

- IBM Cloud Pak for Data
- *Watson Studio*
- *Watson Machine Learning*
- *Watson Discovery*
- *DB2 Warehouse*
- *WAS Liberty*
- ...and more

RedHat OpenShift Container Platform

The Application Suite effort is driving the journey for hybrid software built on **RedHat OpenShift**



Drives a fundamental improvement in how IBM packages, provisions, licenses application software

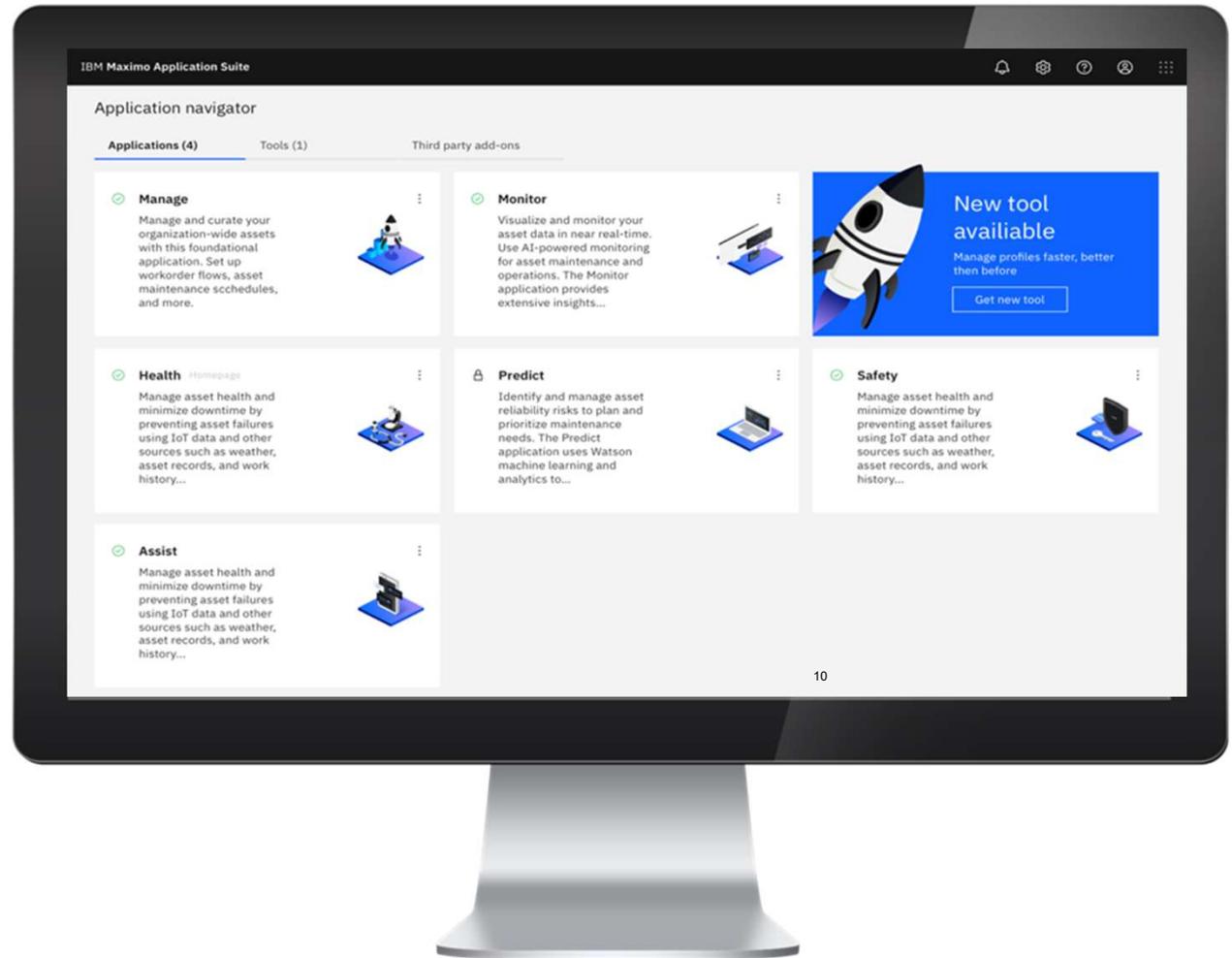


Start anywhere and scale your digital transformation journey



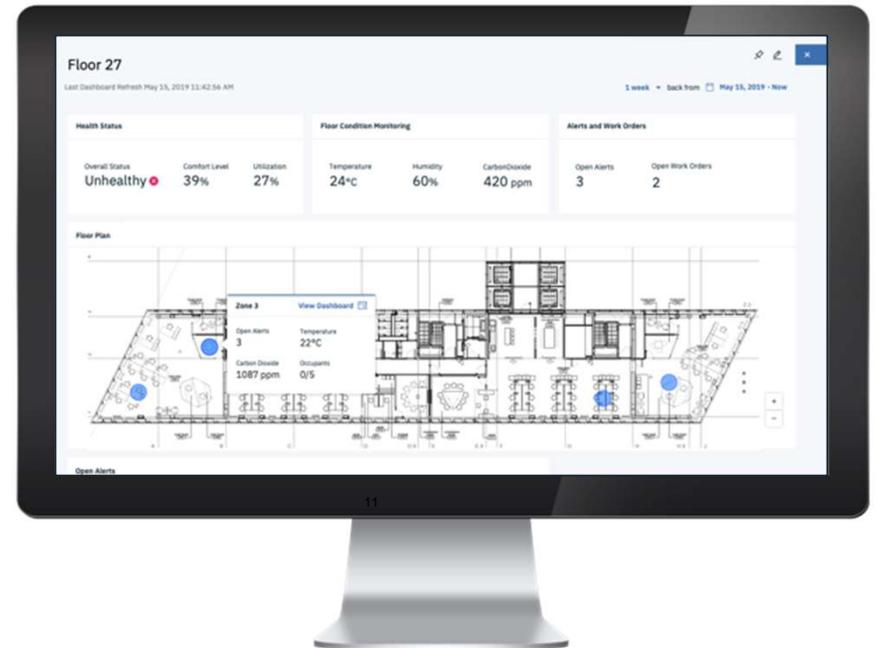
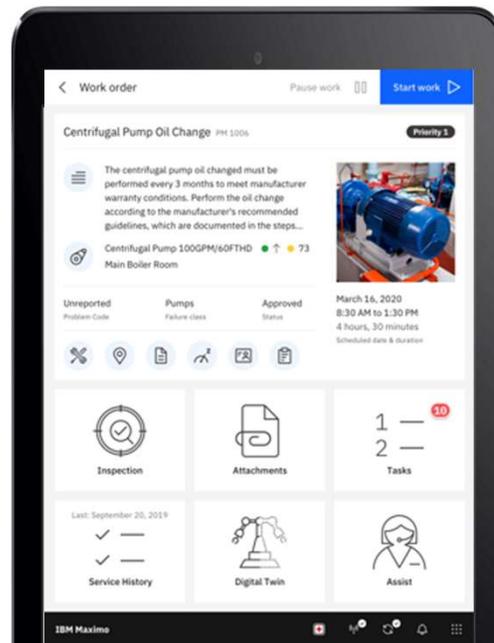
Integrated Suite of Applications

- Install as few or as many of the available applications as your business needs.
- Have the option to expand easily and experience all the Maximo Application Suite has to offer.



Modernized User Interface

Easy navigation, common controls and visualization



Updated Look and Feel

Manage 8.0

Updated Search Navigation

Collapsed Left side Navigation allows more screen real estate

The screenshot displays the 'Work Order Tracking' application interface. On the left, a dark navigation menu is collapsed, showing a search bar and a list of categories including Financial, IT Infrastructure, Integration, Inventory, Planning, and Work Orders. The 'Work Orders' category is expanded, listing sub-items like Work Order Tracking, Labor Reporting, and Quick Reporting. The main content area features a search bar at the top right with a dropdown menu open, listing options such as 'More Search Fields', 'Where Clause', and 'Attribute Search'. Below the search bar is a table of work orders with columns for Work Order ID, Description, Is Task?, Location, Asset, and Scheduled Start. The table contains 13 rows of data, including work orders for relocating guard rails, conveyor service, pump rebuild, plumbing checks, generator overhaul, and electric cart tune-ups.

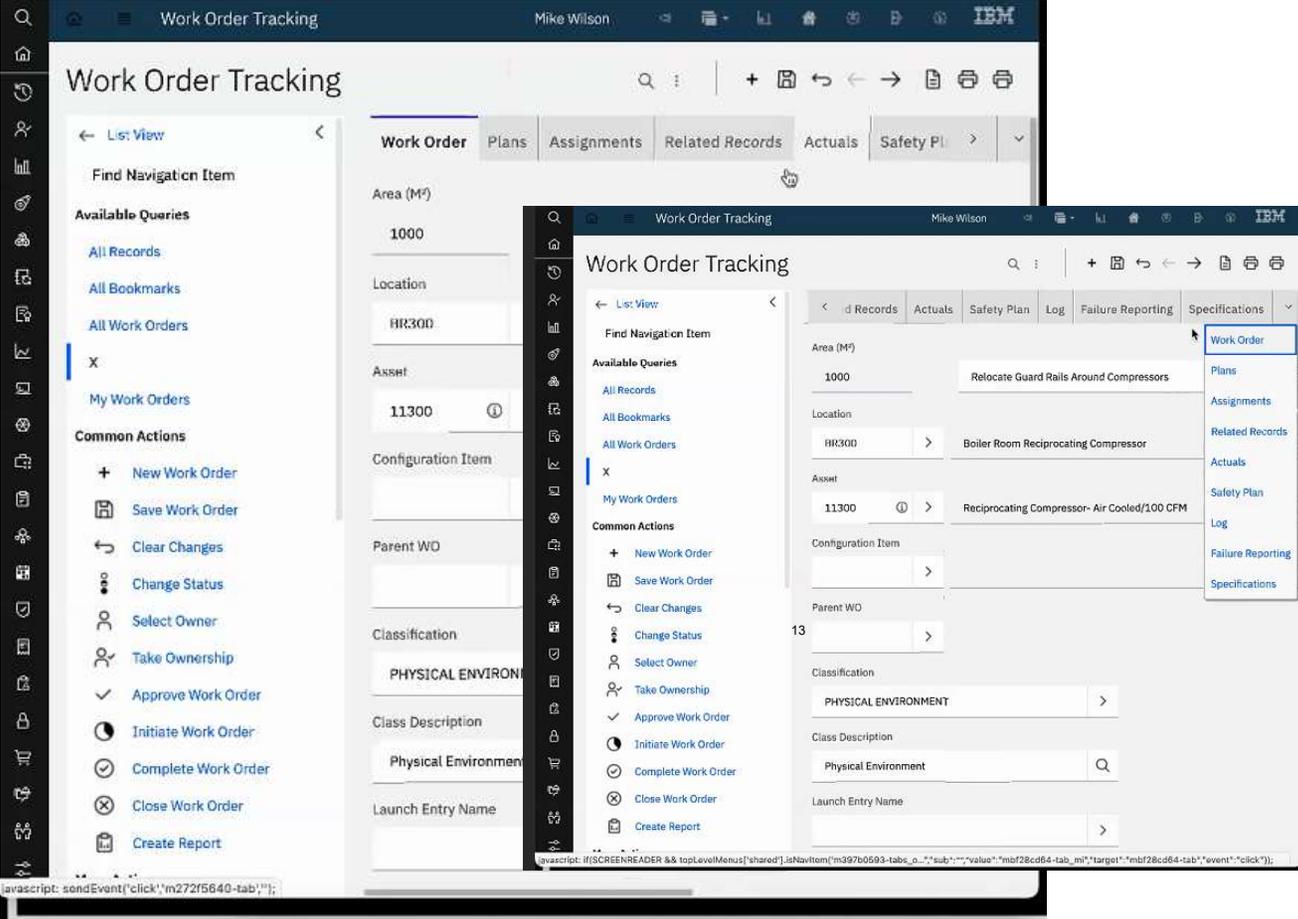
Work Order	Description	Is Task?	Location	Asset	Scheduled Start
1000	Relocate Guard Rails Around Compressor		BR300	11300	
1001	12 Month Service on Shipping Dept #1 Conveyor		SHIPPING	12600	
1002	Rebuild Feedwater Pump		BR450	11450	APPR
1003	Check for Plumbing Problem		BOILER		APPR 3/30/16 3:00 PM
1004	Generator Overhaul		BR230	11230	INPRG
1005	Electric Cart Tune-Up		SHIPPING	12300	APPR
1006	Feedwater Pump Service		BR450	11450	APPR 3/30/16 3:00 PM
1007	Packaging Mach. Elevator & Drainpan Inspection		BPM3100	13141	APPR 3/30/16 3:00 PM
1008	Repair Damaged Conduit Feeding Generator		BR230	11230	WAPPR 3/30/16 3:00 PM
1009	12 Month Service on Shipping Dept #2 Conveyor		SHIPPING	12700	INPRG
1013	Inspect and Repair Pump as Required		REPAIR	11470	APPR

javascript: if(!SCREENREADER && topLevelM

Updated Look and Feel

Manage 8.0

Tabs 'anchored' at top of page



Updated Look and Feel

Manage 8.0

Continues to support previous features

- Application Designer
- Conditional UI

New Capabilities:

Table Window details embedded

Removed properties file options

- Skin
- Dynamicfontsize
- Vericallabels
- showOnToolbar

The screenshot displays the 'Work Order Tracking' application interface. The main view shows a work order for 'Relocate Guard Rails Around Compressor' at site 'BEDFORD'. The asset is identified as 'Reciprocating Compressor- Air Cooled/100 CFM' with asset ID '11300'. An 'Asset Details' table is embedded in the view, showing the following information:

Asset Details	
Asset	11300
Item	Reciprocating Compressor- Air
Manufacturer	Ingersoll-Rand Company
Serial Number	43960
Asset Tag	4286
Status	NOT READY
Primary User/Custodian	--
Type	--
Classification	--
Location	Boiler Room Reciprocating Compressor

On the right side of the interface, there are several toggle switches for configuration options:

- Accepts Charges?
- Under Flow Control?
- Suspend Flow Control?

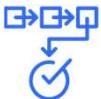
The text 'Toggles instead of checkboxes' is overlaid on the right side of the image, highlighting this UI change.

Maximo Mobile

Next Generation User Experience



1 application, 1 role-based interface



Intelligent workflows = blue button



Intelligent forms = configurability



Connected and disconnected



Trustworthiness: data quality is higher, and real-time updates



Downloadable from:



Apple App Store



Google Play Store



Maximo Mobile Configuration

Initial Configuration Capabilities:

- XML Editing Page
- Upgrade Tooling (XML Diff)
- Customization enablement
- Preview changes

The screenshot displays the IBM Maximo Application Configuration interface. The top navigation bar shows 'Open menu', 'IBM Maximo', and 'Application Configuration'. The main content area is titled 'Application list' and shows 'Results: 4'. Below this is a table with the following columns: 'App Name', 'Description', 'Status', 'Last update', 'Last updated by', and 'Disconnected'. The table lists four applications: INSPECTION (Inspections), MANAGE-SHELL (Manage Shell Applic...), MAXDEMO-APP (Graphite De...), and TECHMOBILE (Technician...).

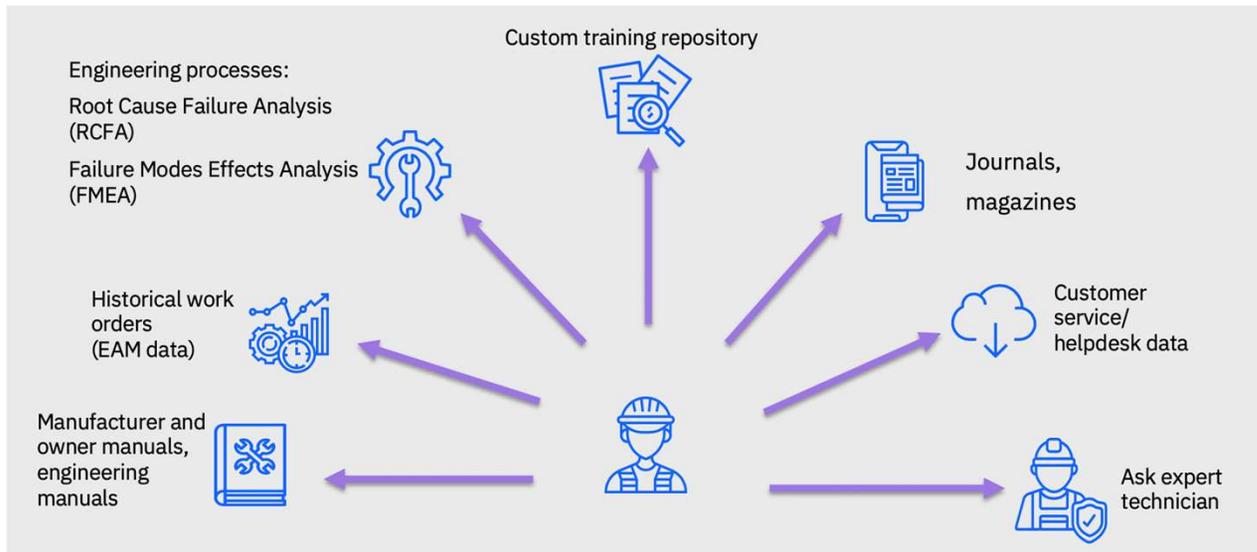
Below the table, there are controls for 'Items per page: 10' and '1-4 of'. An 'app.xml' file is selected in the file list on the left. The right pane shows the XML content for the TECHMOBILE application, which includes menu items and a data source configuration.

```
4 </property name="maximo.mobile.travel.navigation" id="rrbw3"/>
5 </properties>
6
7 <menu slot="navigation-items" id="k9p4">
8   <menu-item label="My Schedule Test Update" icon="maximo:schedule" page="schedule" id="w6_yq"/>
9   <menu-item label="Materials & Tools" icon="maximo:materialsandtools" page="materials" id="r9zjz"/>
10  <menu-item label="Map" icon="maximo:map" page="map" id="xb5jv"/>
11 </menu>
12 <maximo-datasource id="synonymdomainData" lookup-data="true" object-structure="maxisynonymdomain"
13   where="domainid in [quot;W0STATUS6quot;,&quot;LTYPE6quot;,&quot;TIMERSTATUS6quot;]"/>
14 <schema id="bn686">
15   <attribute name="value" id="xp2e9"/>
16   <attribute name="maxvalue" unique-id="true" searchable="true" id="g58pj"/>
17   <attribute name="description" id="wvzq"/>
18   <attribute name="domainid" searchable="true" id="m2ebr"/>
19   <attribute name="valueid" searchable="true" id="aakrv"/>
20   <attribute name="siteid" searchable="true" id="r27qk"/>
21   <attribute name="orgid" searchable="true" id="wz5gx"/>
22   <attribute name="defaults" id="avz96"/>
23 </schema>
</maximo-datasource>
```

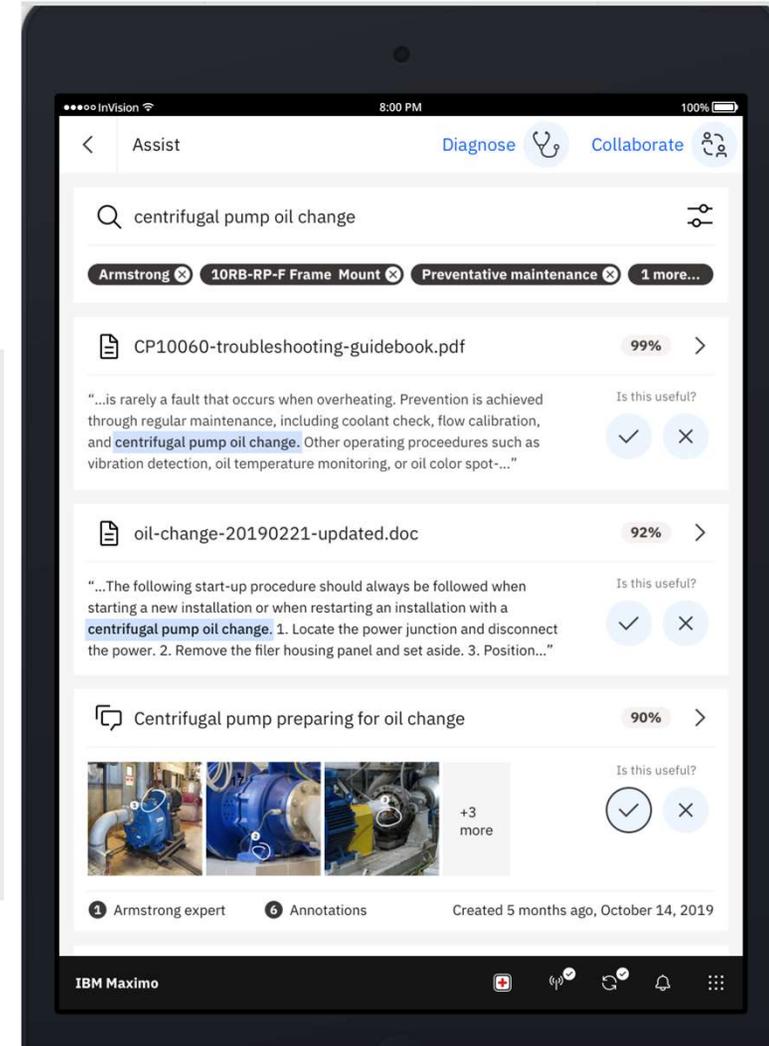
At the bottom of the editor, there are buttons for 'Save', 'Preview', 'Add customization', 'Publish', and 'Cancel'. The 'Published' status is indicated by a green checkmark.

Maximo Assist

Empower technicians to work autonomously by enabling them to obtain AI guidance whenever they need it



Benefits: Reduce mean time to repair, boost first time fix rates, improve technician productivity



Assist Remote Guidance

*for additional assistance,
whenever you need it,
wherever you need it*



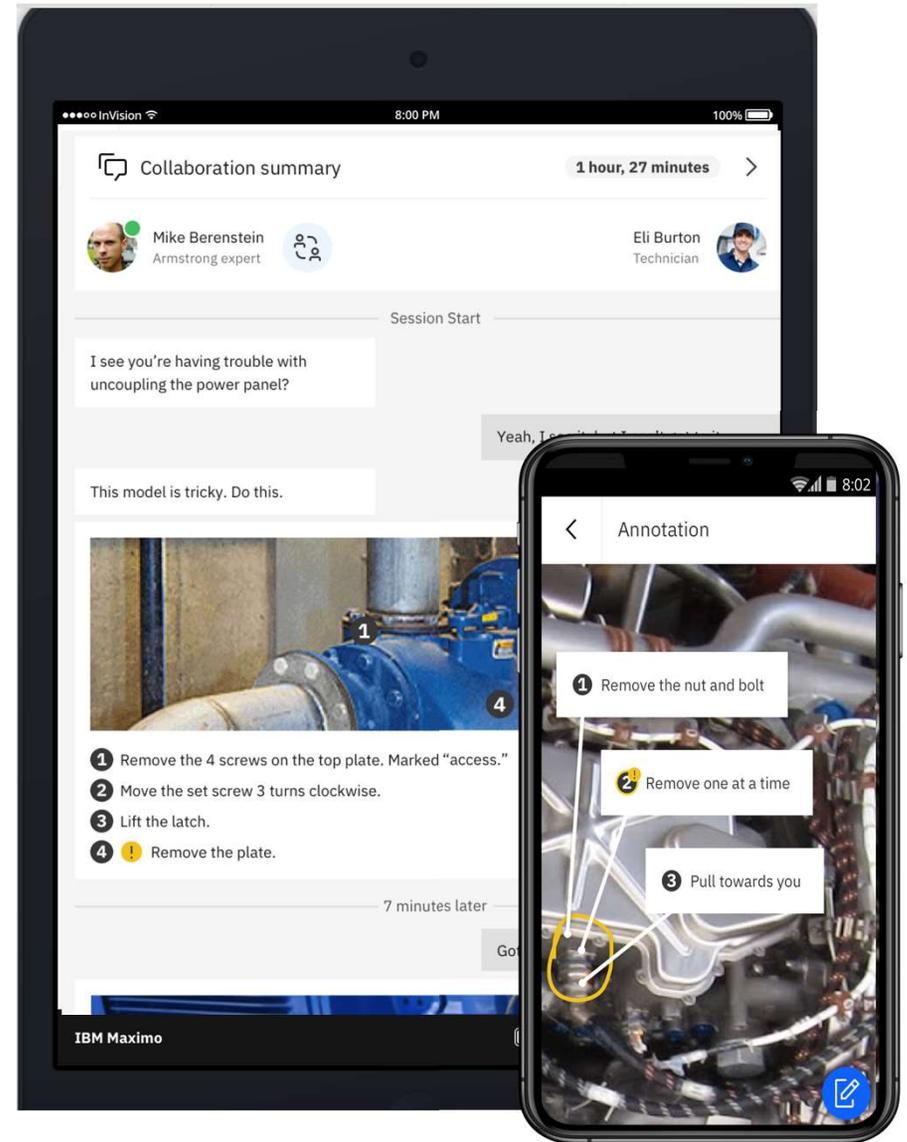
Remote Guidance session history
attached to the Maximo work order for
future reference and added to AI
knowledge base



Capture your expert knowledge and make
it searchable next time a similar incident
occurs



Enhance experience for new technicians
and help **every technician perform like
your best technician**



Upgrade - *What to expect from EAM MANAGE in the Suite*

OVERALL CHANGE TO EAM

DATA – No database changes & no data model changes.
Support for DB2, Oracle and SqlServer DB

NEW OPTIONS AVAILABLE TO CLIENTS

MODERNIZED USER EXPERIENCE – Skin & Navigation

MOBILE – new Mobile experience

SERVICEABILITY – Improved logging options (Fluentd & Kibana) & monitoring options (Prometheus & Grafana)

TECHNOLOGY MIGRATIONS

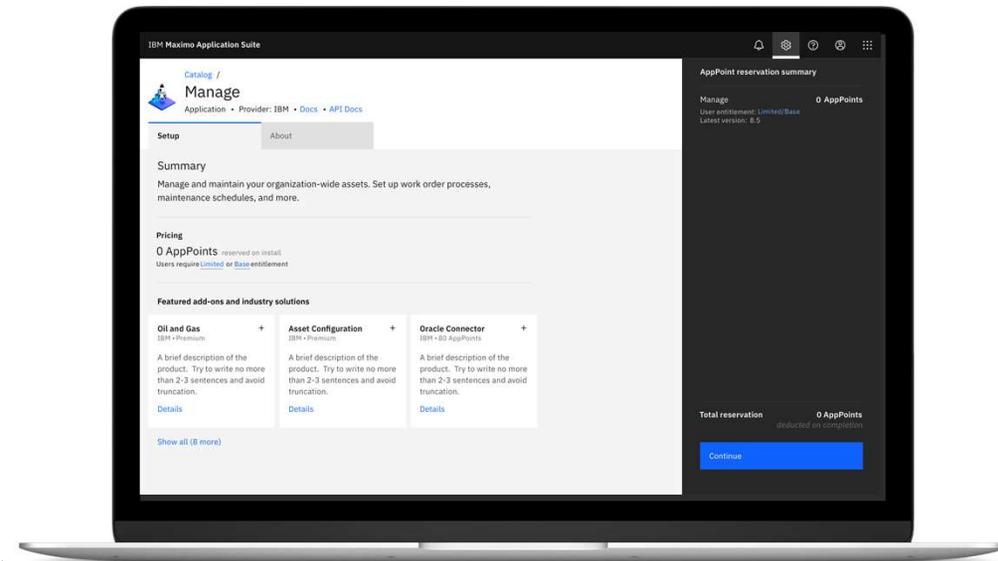
OPENSIFT OPERATORS – Install, deploy, config environment, customize deployment, upgrade

SECURITY & USER MGMT – Migrate to MAS Authentication

APP SERVER – WAS Liberty

INTEGRATION – Rest API replaces Remote Method Invocation

MESSAGE QUEUE – Kafka; JMS (MQ) BYOL



Design is not final

TOP DEVELOPMENT CHANGES

OPERATOR CREATION – Rewriting Install & Configuration

USER MGMT – Moving users & LDAP control to MAS

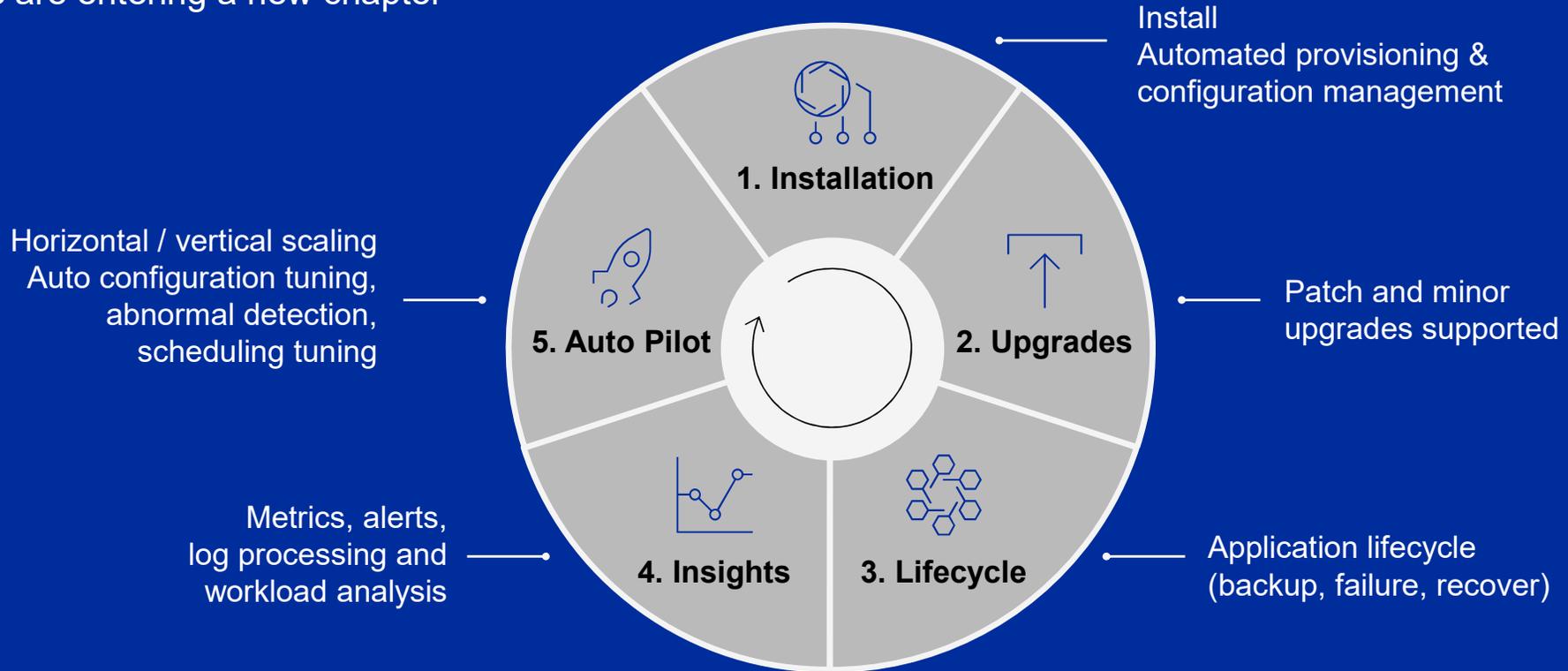
CONFIGURATION – Rebuilding delivery & deploy for MAS

Playbook for Maximo EAM Upgrade to Maximo Application Suite: <https://ibm-mas-manage.github.io/playbook/upgrade/overview>

Software that is Easier to Manage

Software operations maturity model

We are entering a new chapter



Manage Deployment Lifecycle through a single pane of glass

Maximo Application Suite Roadmap

OFFERING LAUNCH

8.0.0

- Application Suite components
- CP4D 3.0.1, OCP 4.3
- Monitor
- Manage – Entitlement to Maximo 7.6.1.x

Ann: May 29 GA: Jun 26

8.2.0

- Application Suite Components
- Globalization (9 Languages)
- Monitor
- Health (22 Languages)
- Predict (22 Languages)
- Visual Inspection

4Q

8.x.0

- Application Suite Components
- **Manage (EAM)**
- Monitor
- Health
- Predict
- Visual Inspection
- Assist
- Safety

2Q

8.1.0

- Application Suite Components
- Monitor
- Health
- Predict

Ann: July 28. GA: Aug 28

8.3.0

- Application Suite Components
- CP4D 3.5, OCP 4.5
- Globalization (22 lang. no bidi)²¹
- App Connect
- Visual Inspection Edge
- Monitor
- Health
- Predict
- Mobile* (Technician, Inspections, Offline)
- Visual Inspection
- Assist
- Safety

1Q

8.y.0

- Application Suite Components
- Manage(EAM)
- Monitor
- Health
- Predict
- Visual Inspection
- Assist
- Safety
- Mobile

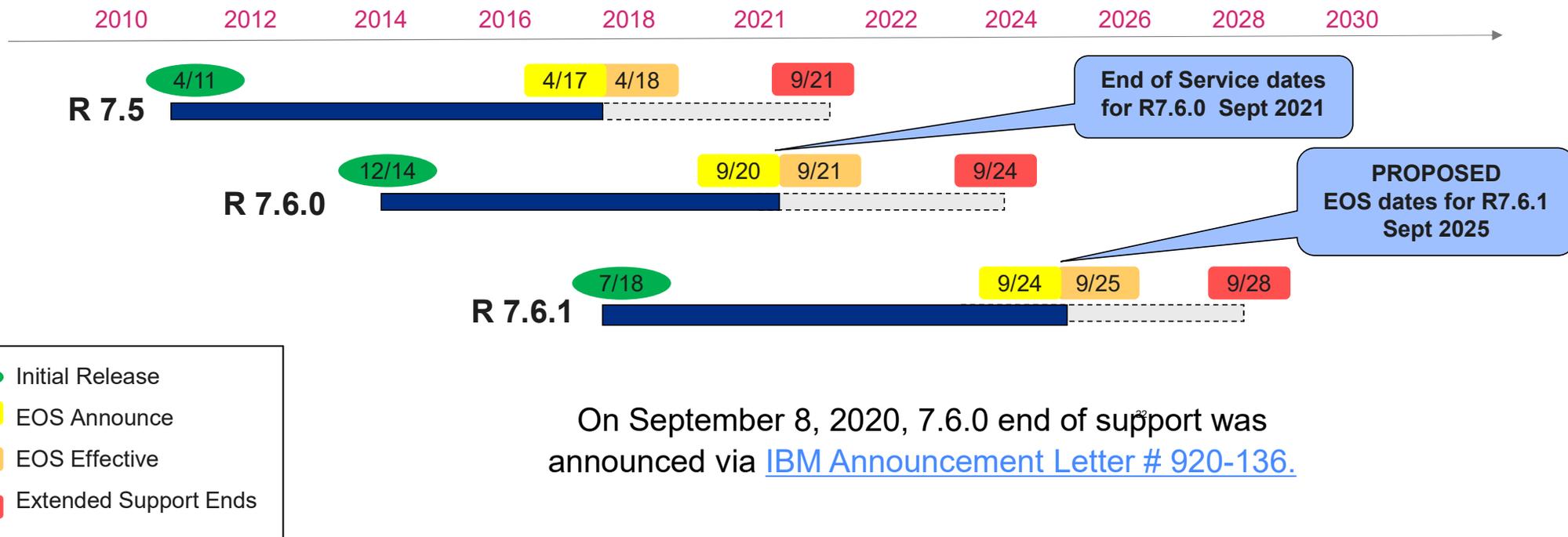
3Q



* Mobile supported for EAM 7.6.1.2+

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7.6.0 GA Announced December 2014 – EOS effective date September 2021



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IBM Software Lifecycle : <https://ibm.biz/BdidVf>

Questions



Dave Gasdia, Program Director, Maximo
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Kim Woodbury, Product Manager, Maximo
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Lisa Stuckless, Product Manager, Maximo
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New IBM Documentation site

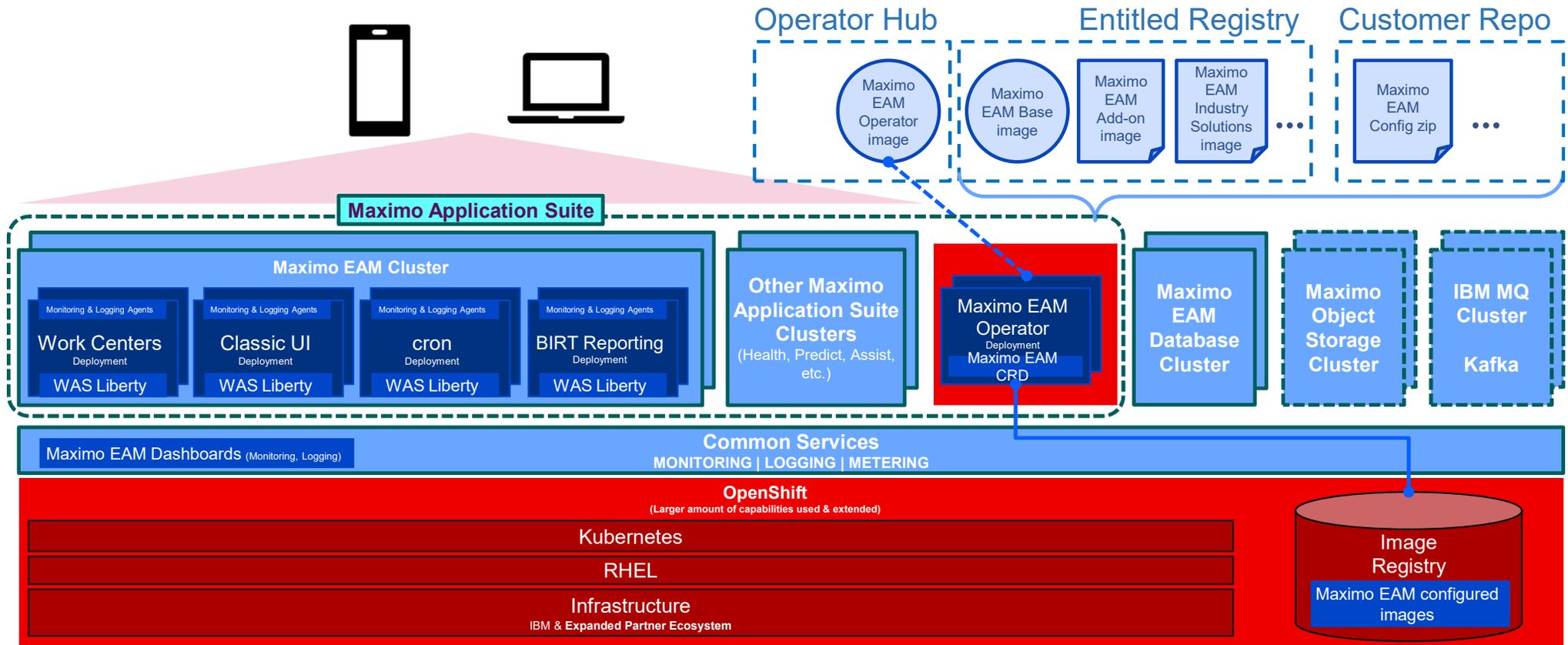
formerly Knowledge Center

The screenshot displays the IBM Documentation website interface. At the top, the IBM logo and 'Documentation' text are visible. The main header area shows 'IBM Maximo Application Suite / IBM Maximo Application Suite documentation' with a 'Change product' link. Below this, there's a navigation sidebar for 'Maximo Asset Management' with a 'Change version' dropdown set to '7.6.1.2'. The main content area is titled 'Maximo Asset Management 7.6.1.2' and features a 'Trending documentation' section with three blue tiles: 'Getting started with Maximo Asset Management', 'Installing Maximo Asset Management 7.6.1.2', and a third tile with a bug icon. To the right, there's a large graphic showing a network of servers and a person at a computer. Below the graphic, there are three blue tiles for 'IBM Maximo Application Suite 8.0', '8.1', and '8.2'. At the bottom right, the URL <https://www.ibm.com/docs/en> is displayed.

New name: IBM Knowledge Center is now IBM Documentation

Close

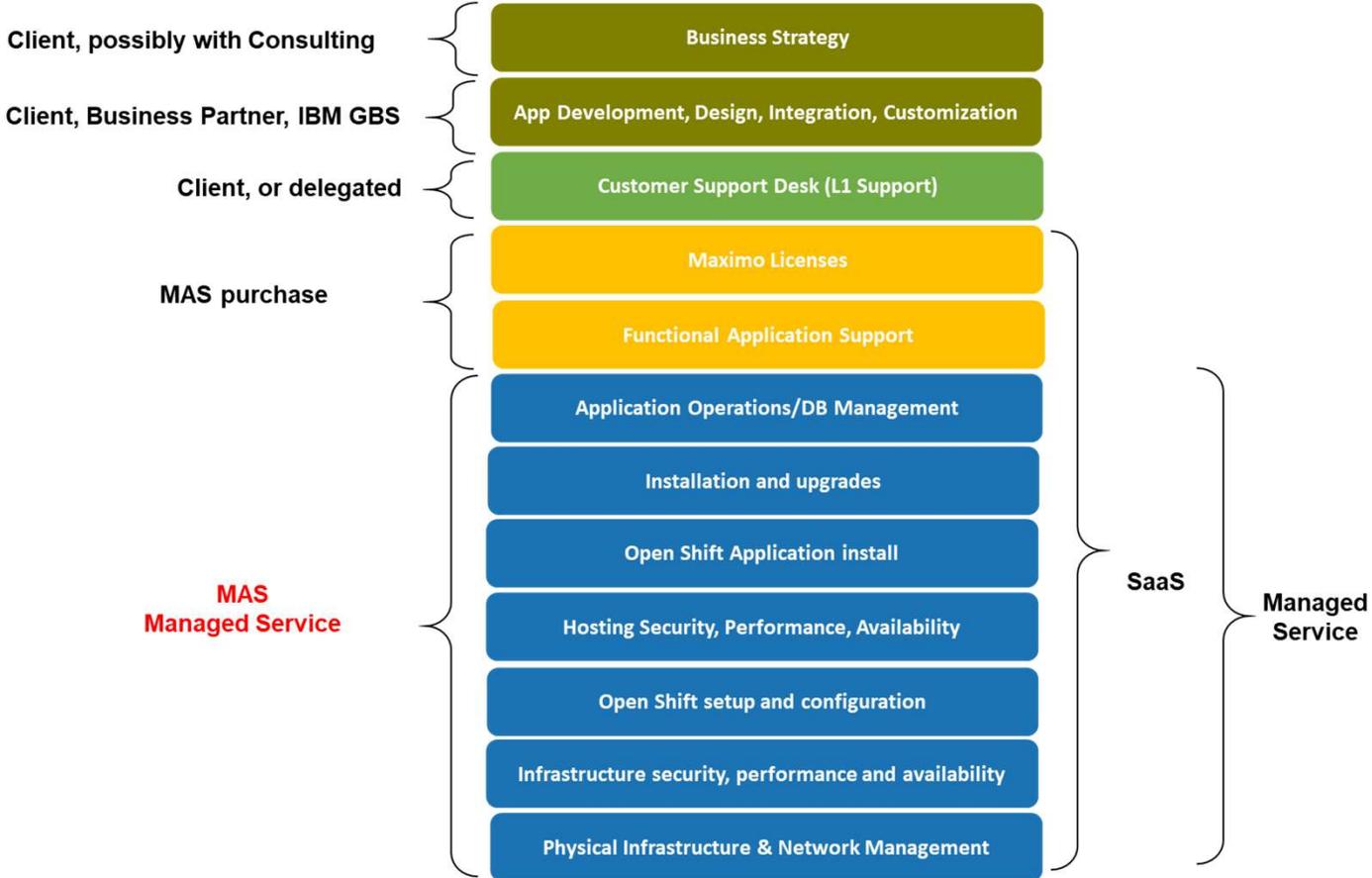
Maximo EAM (Manage) in Maximo Application Suite on OCP



IBM MAS Managed Service



- **Provision:** Create instances in IBM Cloud with OpenShift Cluster
- **Installation:** Install MAS
- **Security/privacy/compliance**
- **Configuration:** Configure system, services & applications
- **Monitor:** Continuous monitoring of performance and security
- **Upgrade:** Patch fixes and upgrades
- **Backup & recovery:** Daily backup & DR support
- **Availability:** 99.9% Availability SLA



Monitor

Monitoring with AI-based Anomaly Detection at Enterprise-Scale



Solution

- Enterprise scale Monitoring
- AI-based anomaly detection
- KPI/rules and custom models



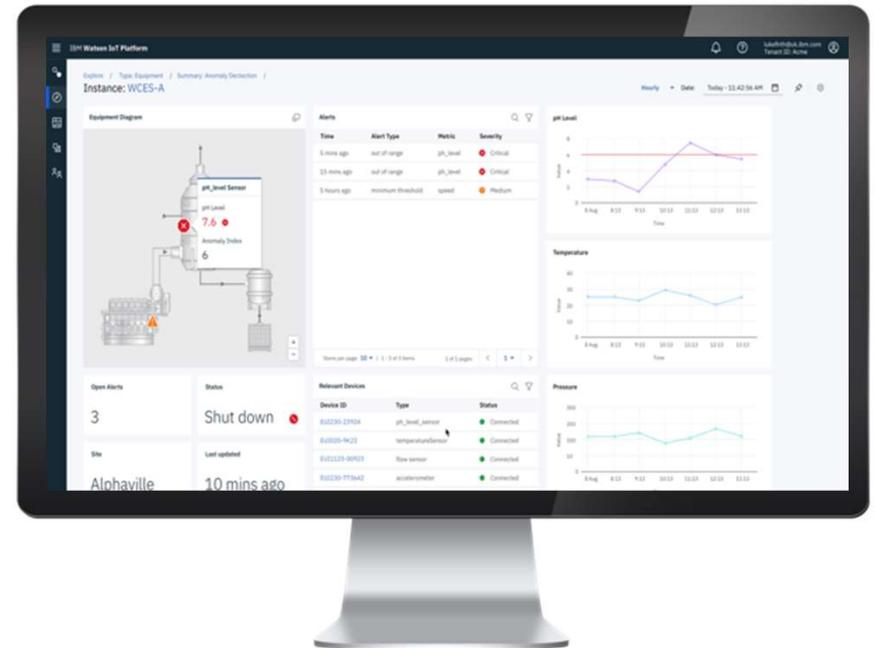
Capabilities

- Easily Configurable dashboard: No-code widgets
- Enterprise wide view of operation
- Workflow to drive ownership of issues
- Auto-generation of work orders
- Rapid data integration
- Scalable dashboard filtering and management



Business Value

- Reduce unplanned downtime
- Shorten duration of outages
- Increase production output
- Decrease wasted time investigating false-positive alerts



Health

IBM Maximo APM - Asset Health Insights



Solution

- Consolidated global view of assets
- Health Visibility and Analysis
- Condition based actions
- Replacement Planning



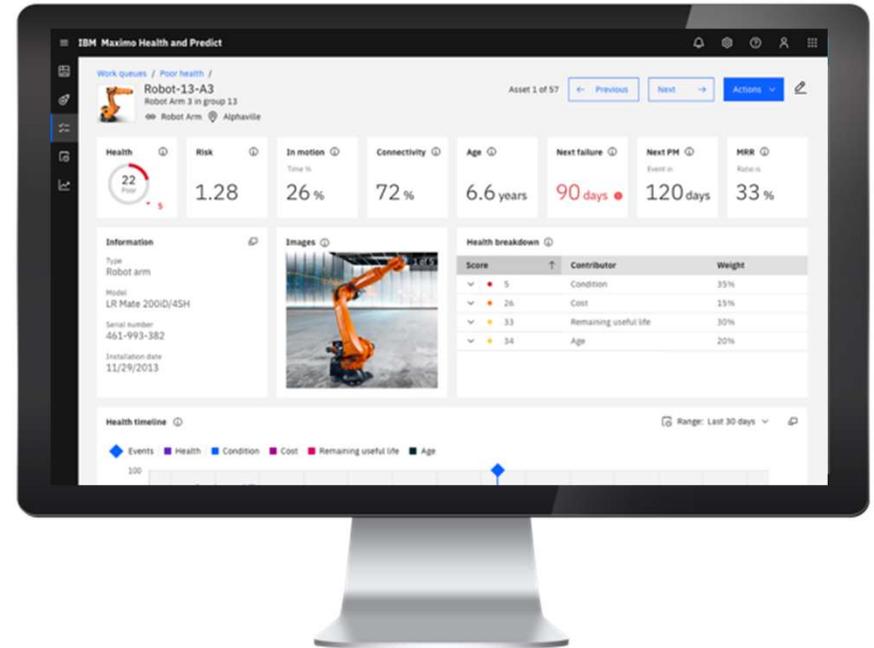
Capabilities

- Dashboard with cards, map view, spreadsheet view
- Fleet-wide view and health drilldown
- Health based notifications and actions
- Flexible health scoring by asset type or groups
- Sensor data integration
- Job plan efficacy analysis
- Refurbish / replace prioritization



Benefits

- Reduce fleetwide operational risk by focusing on the right assets
- Increase asset availability
- Reduce unnecessary preventive maintenance
- Reduce time to make capital replacement planning decisions



Predict

IBM Maximo APM - Predictive Maintenance Insights



Solution

- Build asset failure models
- Predict failures
- Determine factors that contribute to failure
- Incorporate sensor data into models



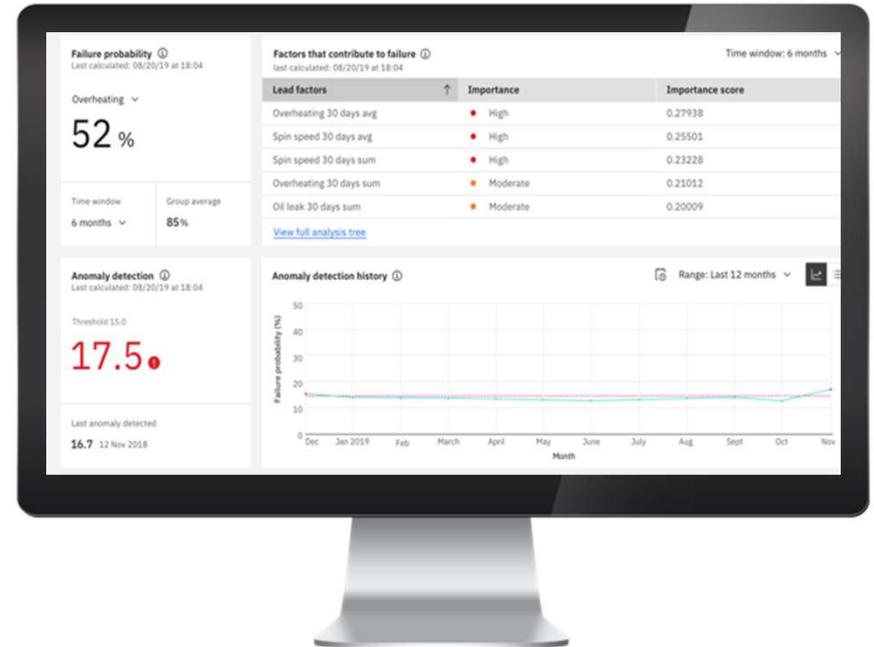
Capabilities

- Templates provided to build common predictive models
- Score predictive models using Watson ML
- View pre-built visualizations
- Workflow for managing assets
- Work queues for managing and tracking actions



Benefits

- Reduced failures
- Reduced maintenance costs
- Improved asset utilization
- Extended life of asset
- Increased production output



Visual Inspection

Point and Click AI Solution

Key Benefit



Time to Value
– Fast, Easy, Accurate



Detect and Correct
– At The Point of Installation



Asset Maintenance
– AI Powered Insights



Empower Subject Matter Experts
– AI Technology

IBM Maximo Application Suite | Visual Inspection | Data sets | Models | Custom assets | Deployed models | Projects | adminuser

Welcome to IBM Maximo Visual Inspection

- Create data set**
Start by adding images and video files to a data set.
- Prepare data**
Label objects in images and video frames, then use auto labeling to finish adding labels to the whole data set; assign categories to images or videos, or label actions in videos.
- Train model**
Select a few custom options to create your model.
- Deploy model**
Deploy the trained model and receive an API link for an inference device.

[Get started](#)

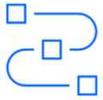
Now Available on Maximo Application Suite

Safety



Business Value

- Avoidance of injury claims
- Reduced Workforce disruption
- Compliance of worksite safety plan
- Increased employee availability



Application

- Analytics solution for workplace safety utilizing IoT devices
- Contextual incident detection (event and measurement data captured and processed in near real-time)
- Safety abnormalities leveraging Edge enabled Event Action Engine



Capabilities

- Mobile App and Dashboards for Worker, Supervisor, Safety Officer
- Pre-integrated devices for key use cases
- Pre-build analytics (KPIs) to determine safety events
- Pre-integration with Maximo HSE, Incident Management
- Flexible integration with 3rd party systems of engagement

