

# DRIVING ASSET MANAGEMENT ***FORWARD***

# MAVEN

**IBM**  
Gold  
Business Partner



© 2023 Maven Asset Management, Inc.

The background is a dark blue gradient with a subtle pattern of binary code (0s and 1s) in a lighter blue. In the foreground, there are large, 3D, isometric letters in shades of purple and blue. The letters 'M', 'A', 'S', 'T', 'E', 'R', 'M', 'I', 'N', 'D' are visible, arranged in a way that suggests they are part of a larger word or phrase. The letters have a metallic or glossy finish, reflecting light. The overall aesthetic is modern and tech-oriented.

# Maximo MASTermind Hackathon

*Awards Ceremony*  
November 17, 2023

# THANK YOU.





# THE JUDGES



**Cynthia  
Ahr**

**Arrow  
Electronics**



**Edward  
Warnick**

**IBM**



**Steven  
Shull**

**IBM**



**Terrence  
O'Hanlon**

**Reliabilityweb**



**Maura  
Abad**

**Reliabilityweb**

# QUICK OVERVIEW

The background is a dark blue gradient with a subtle pattern of binary code (0s and 1s). In the foreground, there are large, 3D, stylized letters 'K', 'A', 'G', and 'N' in shades of purple and blue. A thin blue line curves across the right side of the image.

**104** Participants

**22** Teams

**7** Coaches

# IN TWO WEEKS...

We **WORKED** together to improve our MAS Knowledge.

We **EXPLORED** the new capabilities of the application suite.

We **IDENTIFIED** solutions that can be used to close the gap between available technologies and maintenance operations.

We **BUILT** models for problematic assets to proactively improve and manage their health.



# KEY TAKEAWAYS

1. Training and education on MAS is absolutely critical to future successes.
2. We discovered that the new system is not intimidating and looks similar to previous versions.
3. Inspection forms are a useful tool to gather data in a more efficient manner.



# KEY TAKEAWAYS

4. Differences between Maximo 7.6.1 Asset Health Insights and MAS Health require additional translation and conversions of equivalent configuration components to achieve the same functionality.
5. We learned how to connect devices in Monitor and create dashboards for process data.





# KEY TAKEAWAYS

6. Achieved a notable decrease in unplanned downtime, resulting in higher asset uptime.

7. Quality, integrated meter data and data analyst skills are desirable for configuring meaningful Health scores.



# AWARD CATEGORIES



Most Creative

Alignment with Uptime Elements

Most Insightful Dashboard

Ease of Use

Best Predictive Maintenance Application

\*Project awards determined by objective representatives from IBM, Arrow, and Reliabilityweb

# FINALIST PRESENTATIONS





# TEAM UPS

Yogesh Bhatt, Steve Tokic, Heidi Schwake, Rita Effio, Michael Fletcher, Michael Jakubowski, and Christi Moseley

**PROJECT GOAL:** Create a predictive maintenance dashboard based on an 'ease of use' principle.

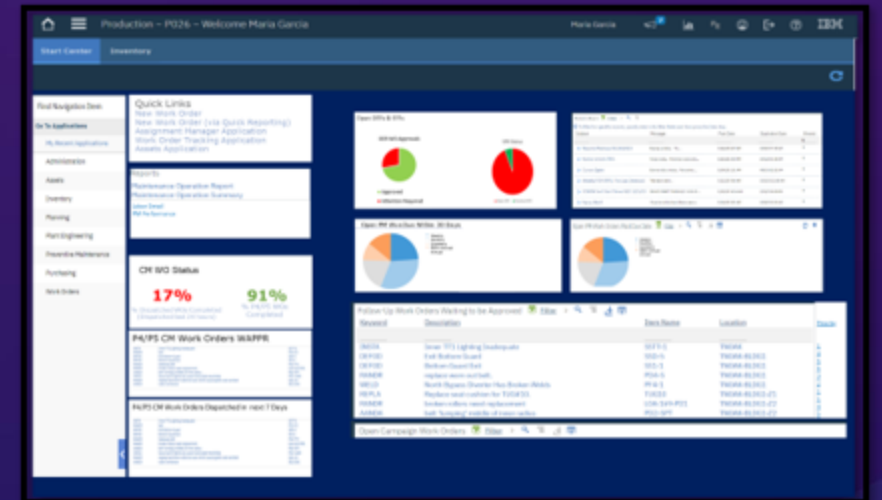
**ACCOMPLISHMENTS:** We successfully created a dashboard that would mimic what we would want to see in our own organization. While the actual data presented in the dashboard does not reflect the predictive nature we were looking for, we gained a clearer understanding of the process and how we will be formatting in the future.

# TEAM UPS

## Current Setup / Proposed Setup

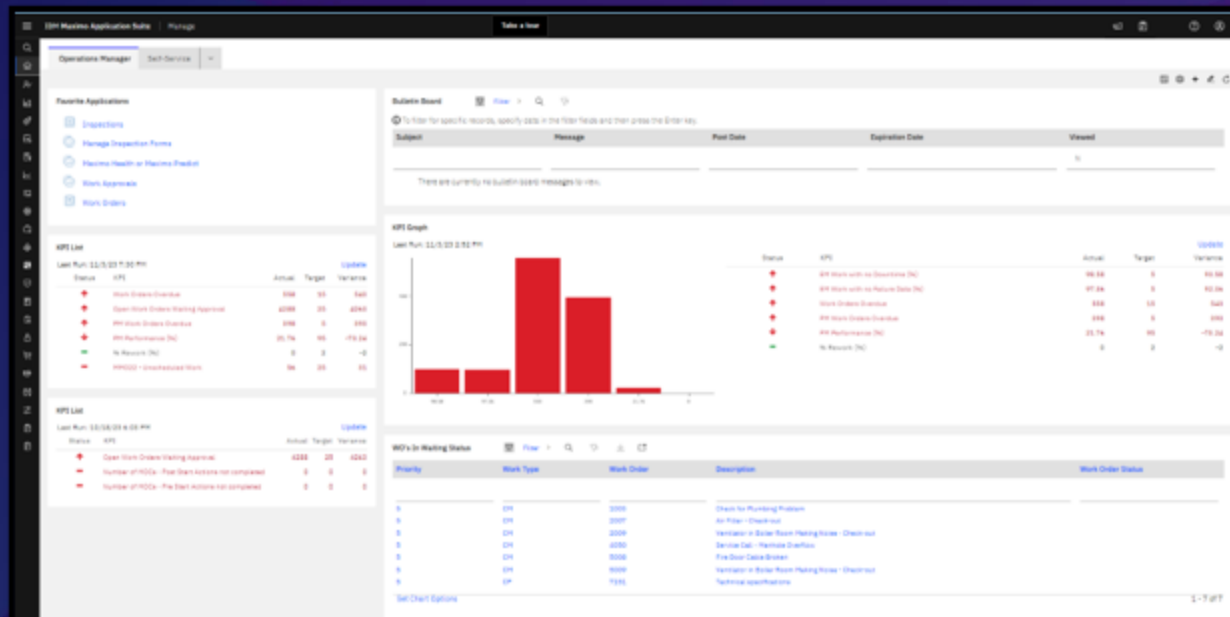


Current Start Center



Internally Proposed Start Center

# TEAM UPS



## PMI Inspection Form

The screenshot shows the PMI Inspection Form interface. It features a table with columns: 'Inspection Item', 'Status', and 'Description'. The 'Inspection Item' column contains a list of items, including '10. Standing Reference the Plant Engineering Drawing', '11. Reference GSA-01 SPS Conveyor Standards Manual', '12. Reference GSA-01 SPS Conveyor Standards Manual', '13. Ensure GSA-01 stickers are positioned at go', '14. Remove motor connection junction box cover', '15. Remove motor fan cover and clean. Check in', and '16. Verify all mounting bolts are properly secured'. The 'Status' column shows 'Complete' for the first item and 'Not Complete' for the others. The 'Description' column provides detailed instructions for each item.

Inspection Item	Status	Description
10. Standing Reference the Plant Engineering Drawing	Complete	
11. Reference GSA-01 SPS Conveyor Standards Manual: If there is a pinch point or nip point within 8 inches of the proposed guard location, a maximum gap of 3/2 in. is acceptable. If there is no pinch point or nip point within 8 in. of guard location,	Not Complete	
12. Reference GSA-01 SPS Conveyor Standards Manual: If there is a pinch point or nip point within 8 inches of the proposed guard location, a maximum gap of 3/2 in. is acceptable. If there is no pinch point or nip point within 8 in. of guard location,	Not Complete	
13. Ensure GSA-01 stickers are positioned at go	Not Complete	
14. Remove motor connection junction box cover	Not Complete	
15. Remove motor fan cover and clean. Check in	Not Complete	
16. Verify all mounting bolts are properly secured	Not Complete	



# TEAM ASSET ALCHEMISTS

Julia Bales, Lynne Waldron, Cecilla Goergen, Jason Garlow, Gwen Colbeth,  
and Nat Landin

**ACCOMPLISHMENTS:** Creating the Maximo Life Cycle for our fleet - Locations, Item Master, Asset Template, Assets, Rotating Assets, Job Plans, Storerooms, PMs, Meters, Purchasing, Work Order Tracking, Start Center portlets.

# TEAM X MARKS THE SPOT

Kim Johnson, Kathy Seabrook, Julio Orozco, and Morgan Mosley

**ACCOMPLISHMENTS:** We used new functionality and had a chance to create inspection forms, crews, and use graphical scheduler to manage our workorder backlog.

# TEAM DALLAS ALL-STAR

Dionne Ritter, Victor Bosh, and Elizabeth Martinez

**ACCOMPLISHMENTS:** This process would allow for proactive replacement before asset reaches failure. Identifying assts manufacturers/models that are not economical/viable replacements; providing database arguments to decision-makers on what to and not to purchase.



# TEAM HEALTH HACKERS

Jennifer Lawrence-Jones , Fredrick Ndwaru, and Megha Tatiya

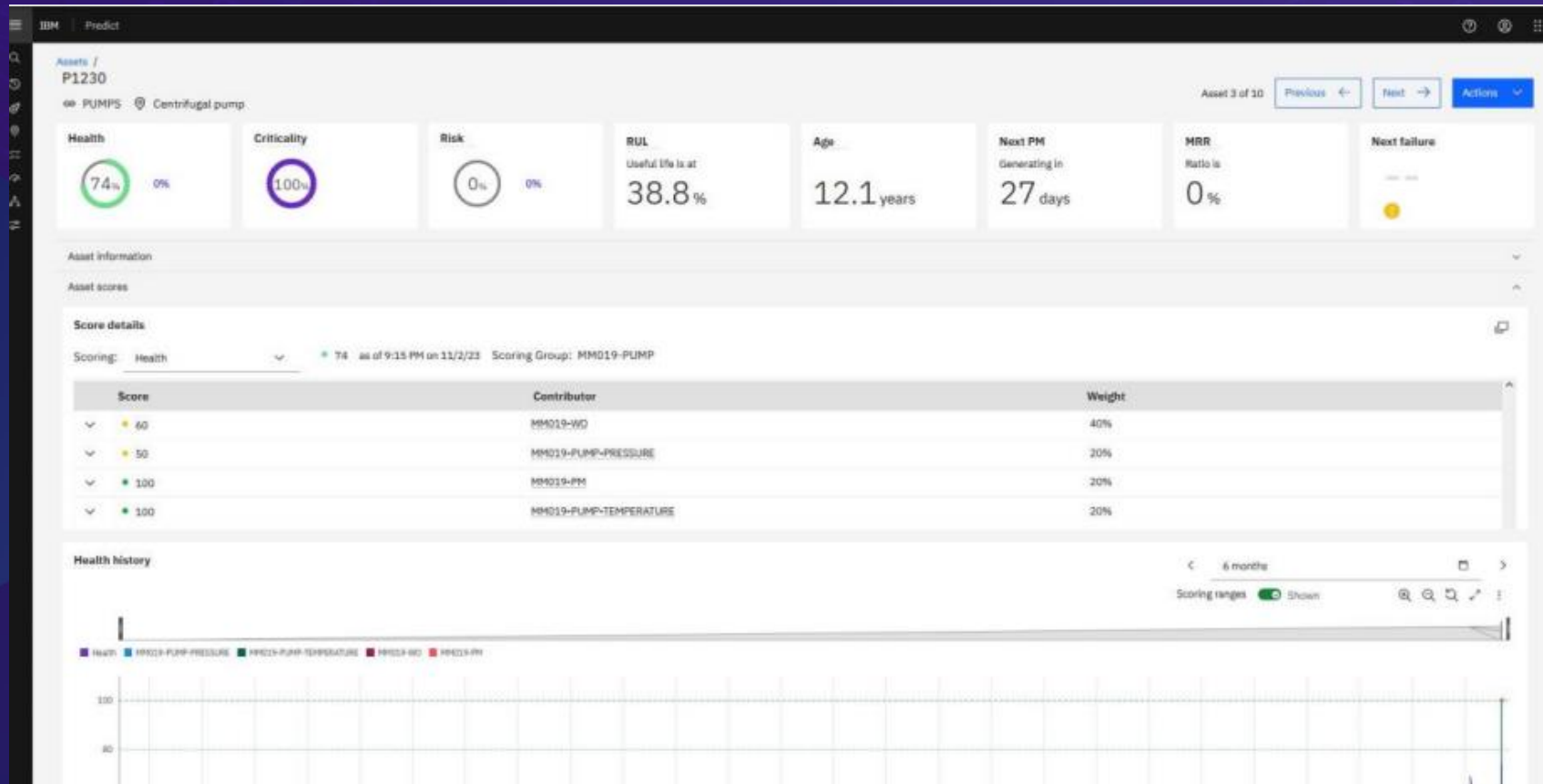
**ACCOMPLISHMENTS:** Determined the asset characteristics on an asset that affects it's health. Then defined characteristics meters and domain values with possible asset conditions. After which, mapped the meters to contributors to create scoring methods.

# TEAM MM019

Alexandru Vulpes and Sayed Saeed

**ACCOMPLISHMENTS:** We started by creating a basic data model in Manage, but without focusing too much on Manage. We improved the ability to early identify poorly maintenance assets using the scoring rules. We improved the visibility of the process data by creating a dashboard in Maximo Monitor.

# TEAM MM019



By creating our scoring methods for criticality and risk, we were able to reach our result: create our view that our reliability engineer could use in order to take decisions.



# TEAM MASTer BLASTER

Phil Runion, Galina Leonova, and Ty Hull

**ACCOMPLISHMENTS:** Modeled meter data in Monitor (MM021\_bridget\_from\_basic\_template\_li) and attempted to feed the data into Manage but could not interface this data due to security. Configured three “MM021-BRIDGE” assets in the Health application showing Health, Criticality, RUL, Age, Next PM, and MRR values based on collected data in Manage. Created a MM021 Bridge Asset start center to display Health score data for Manage users to see where they spend most of their time.

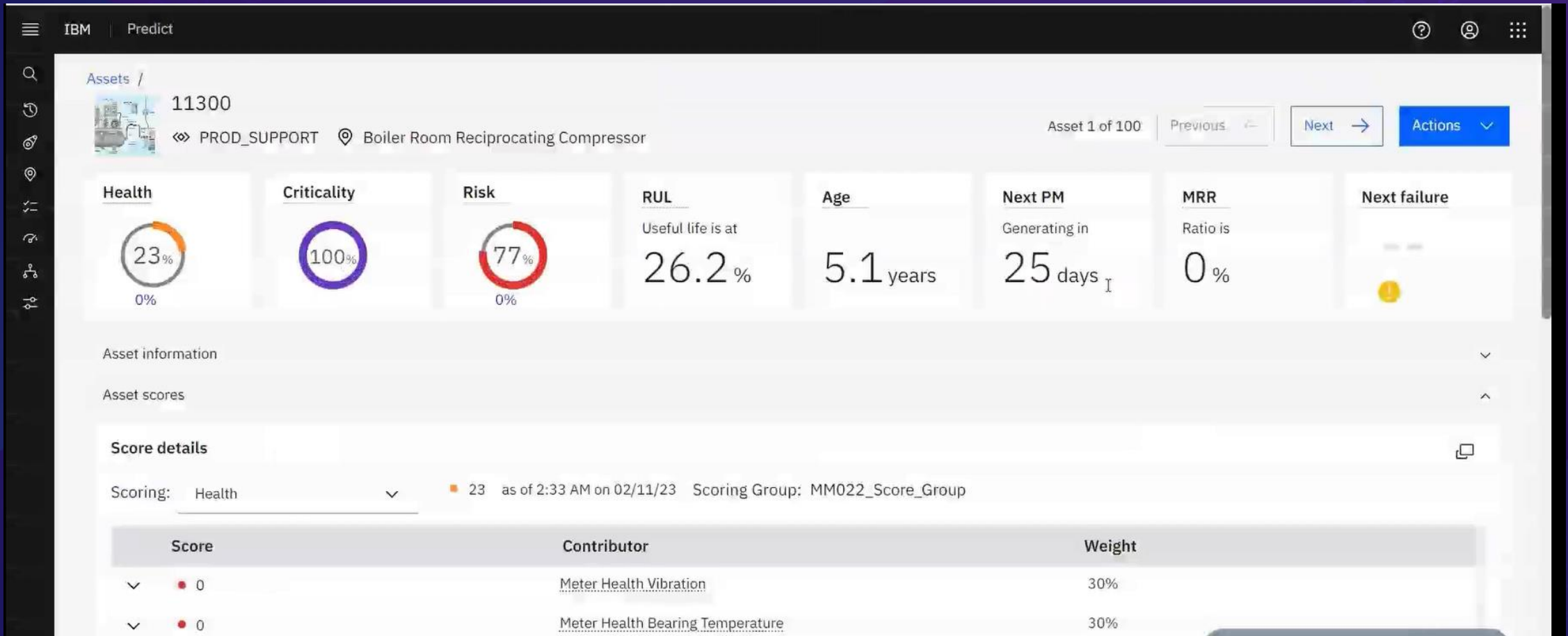
# TEAM MAS MASters

Tanishk Rathi, Ramya Chaturvedi, Tinnokesh AP, and Kalaiselvan Matheswaran

## ACCOMPLISHMENTS:

1. The utilization of the Monitor enabled reliability engineers to visualize and analyze OT data effectively.
2. Leveraging Maximo's health insights led to increased asset uptime and productivity.
3. The implementation of Health Insights played a pivotal role in preventing unplanned downtime and avoiding over-maintenance.

# TEAM MAS MASTers



# TEAM MAS MASTers

The screenshot displays the IBM Maximo Application Suite Monitor interface. The top navigation bar includes the IBM Maximo Application Suite logo, the Monitor tab, a 'Take a tour' button, and user profile icons. The main content area is divided into a left sidebar and a main dashboard.

**Left Sidebar (Monitor):**

- Hierarchies:** A tree view showing the asset hierarchy. The path is: PRIMARY > NEEDHAM > BOILER > BR300 > 11300 > MM022\_AIRCOMPRESSOR\_DT: MM022\_AIRCOMP\_11... (selected). Other assets listed include 11340, 11340, BR400, FLTGAR, OFFICE, and PACKAGE.
- Locations:** A list of locations.
- Assets:** A list of assets.

**Main Dashboard (Metrics Dashboard):**

The dashboard shows the selected asset's details and metrics. The breadcrumb path is: masdev / EAGLENA / MM022 / / BR300 / MM022\_AIRCOMPRESSOR\_DT: MM022\_AIRCOMP\_11... A 'Setup' button is visible in the top right corner.

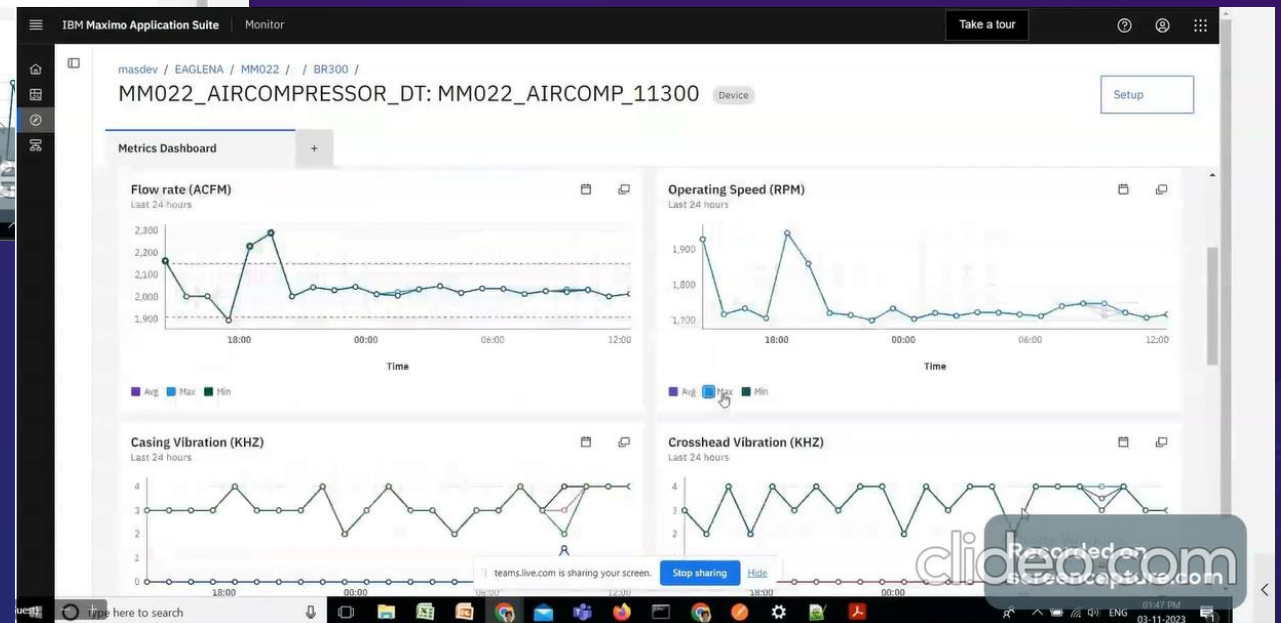
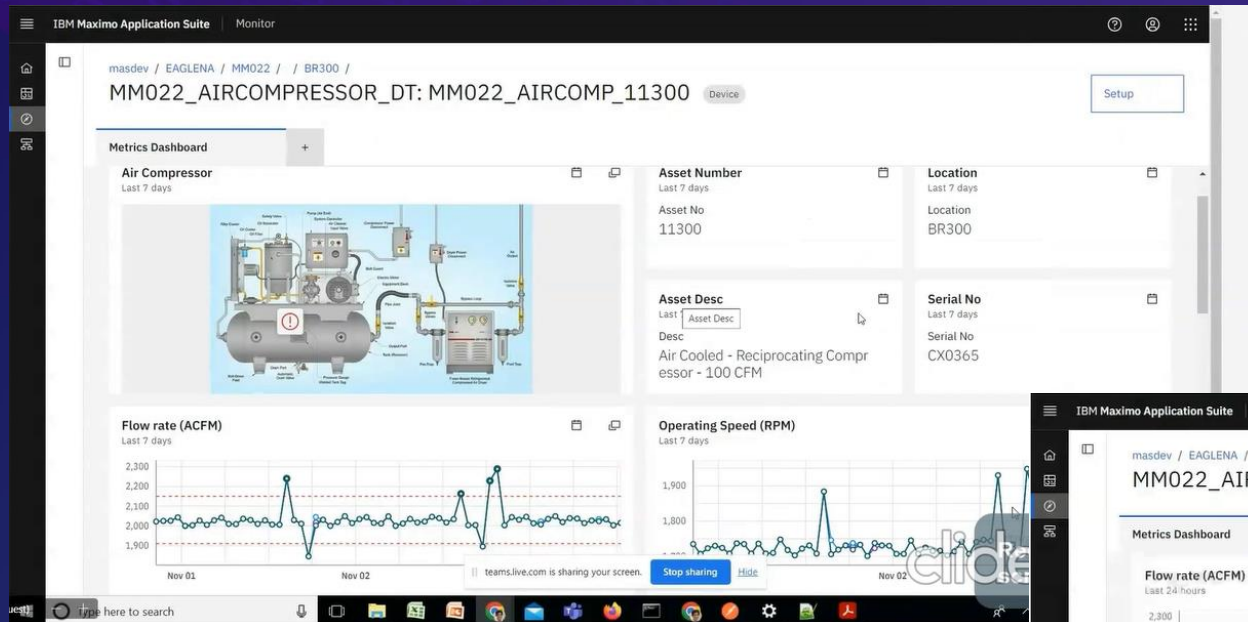
**Metrics Dashboard:**

- Serial No:** Last 7 days. A bar chart shows a single data point.
- Location:** Last 7 days. The location is BR300.
- Asset Desc:** Last 7 days. The description is Air Cooled - Reciprocating Compressor...
- Asset Numb...:** Last 7 days. The asset number is 11300.
- Flow rate (ACFM):** Last 7 days. A line chart shows a single data point at 2,300.

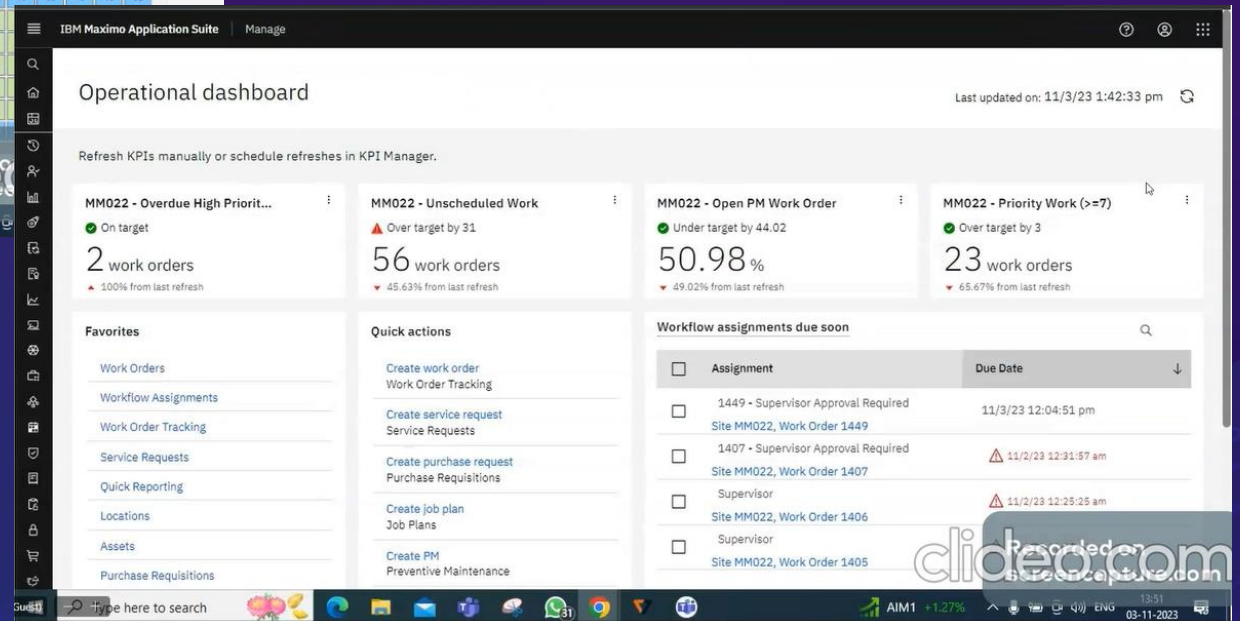
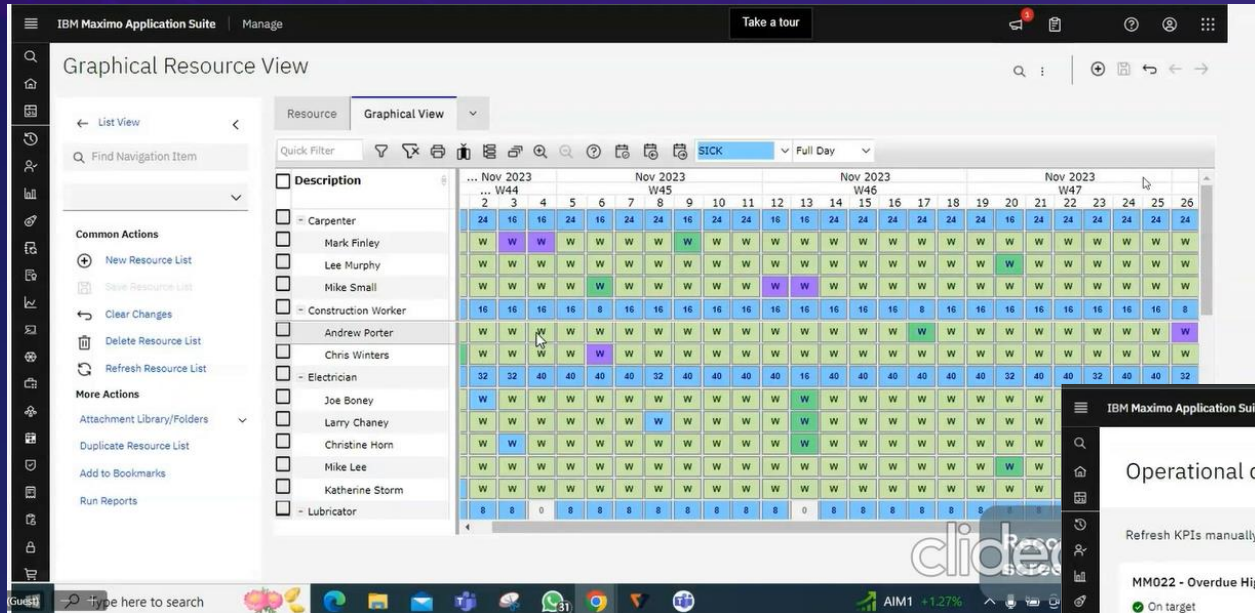
The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the date and time (01:44 PM, 03-11-2023). A watermark 'clideo.com' is visible in the bottom right corner.



# TEAM MAS MASTers

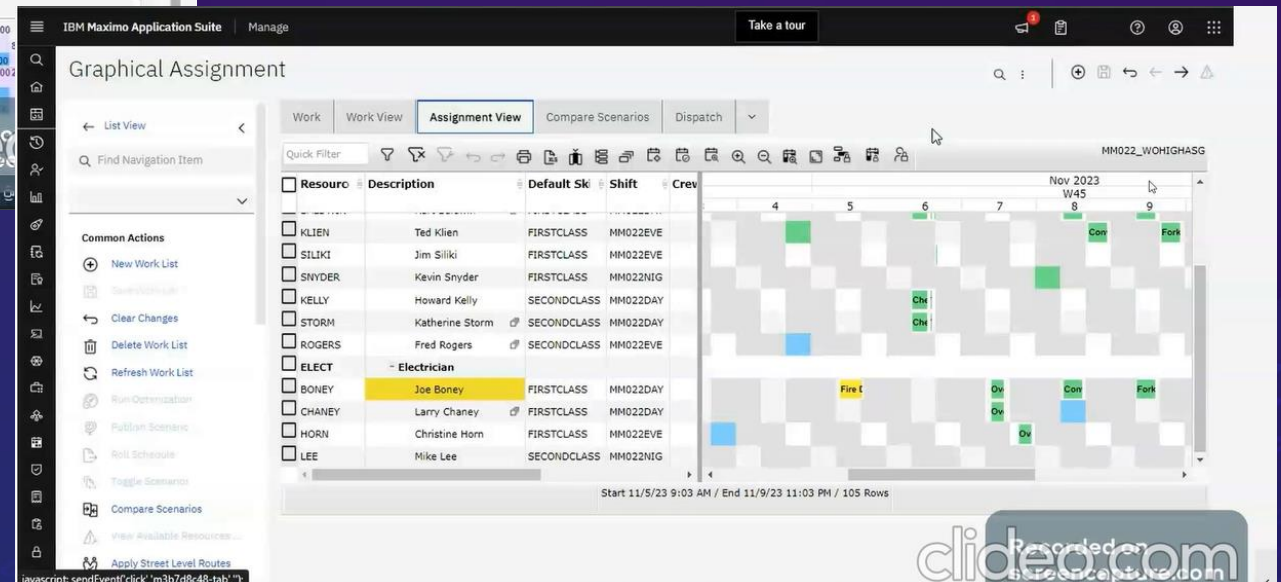
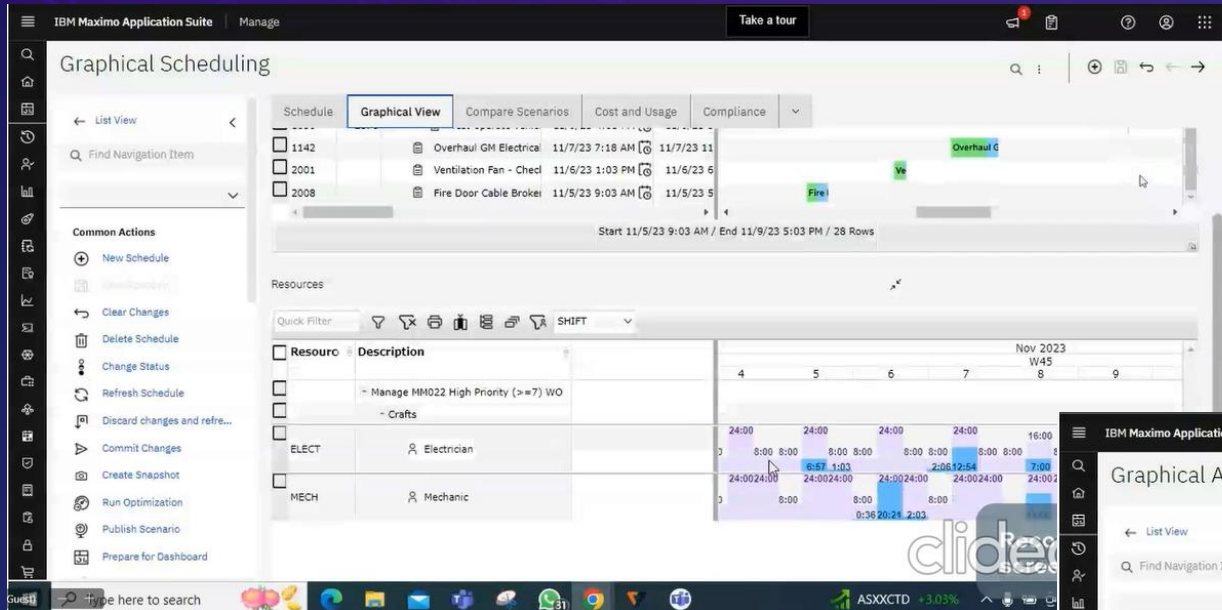


# TEAM MAS MAsTERS





# TEAM MAS MASTers



# TEAM MAS MASTers

14:14 27%

< Inspections ✓

☰ Daily inspectio... ⓘ 0/8

11300 Air Cooled - Reciprocating C...

1. • Is there any leakage (air, oil and water) in compressor?

• At least one selection is required

✓ Yes

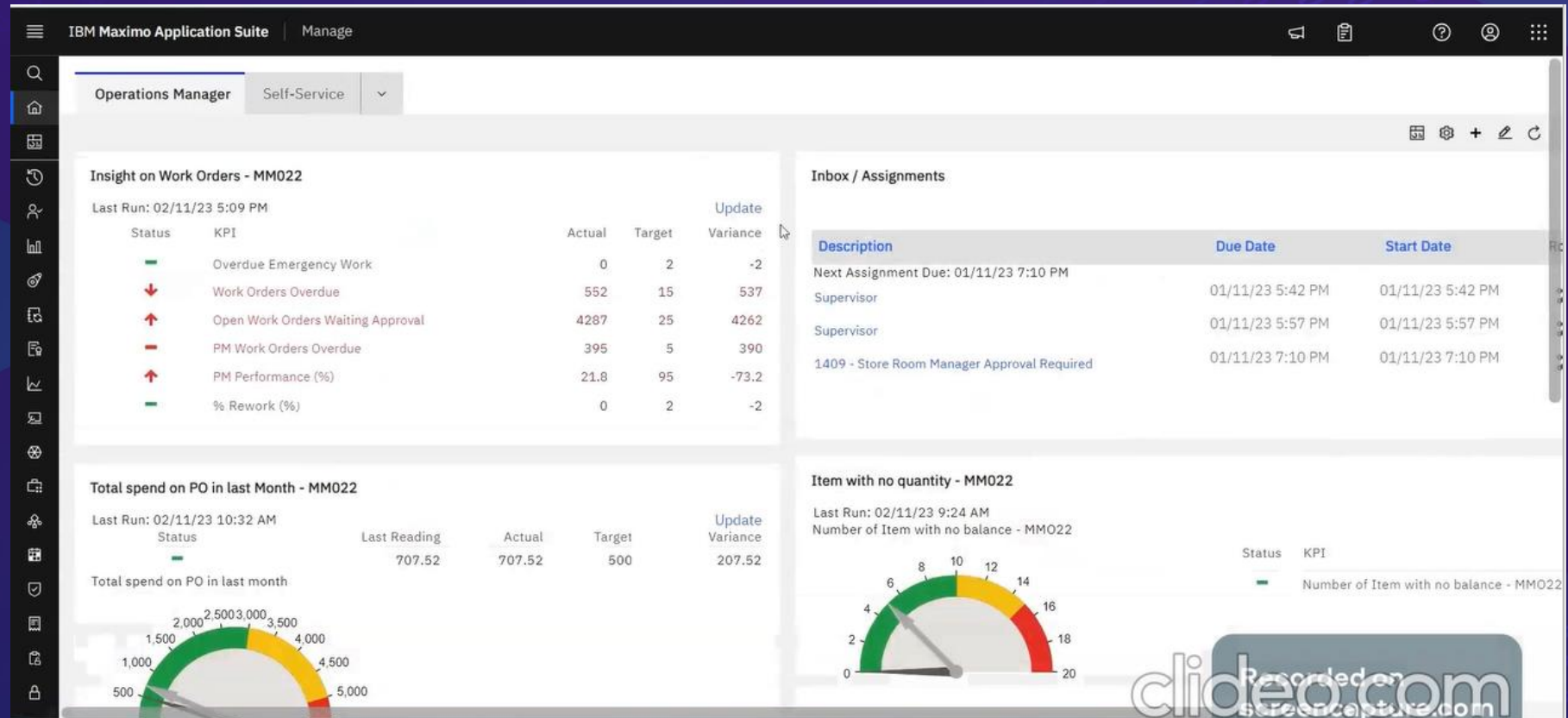
✗ No

2. • Do you notice any excess moisture or condensation? Has it increased over time?

• At least one selection is required

✓ Yes

IBM Maximo





# THE WINNERS



# MOST CREATIVE



## MAS MASters (Team 22)

# ALIGNMENT WITH UPTIME ELEMENTS



**X Marks the Spot  
(Team 7)**

# MOST INSIGHTFUL DASHBOARD



MAStEr Blaster  
(Team 21)



# EASE OF USE



• **Health Hackers  
(Team 16)**

# BEST PREDICTIVE MAINTENANCE APPLICATION



**Dallas All-Star  
(Team 15)**

# SECOND PLACE



**MM019**  
**(Team 19)**

# FIRST PLACE



## MAS MASters (Team 22)



The background of the slide features a 3D isometric illustration of the letters 'KANG' in a vibrant purple and blue color scheme. The letters are rendered with a sense of depth and perspective, set against a dark blue background with a subtle pattern of binary code (0s and 1s).

# CONGRATS TO ALL!

**NOTE:** Certificates were emailed this morning,  
and shirts will be mailed soon.

# MAVEN

...

**IBM**  
Gold  
Business Partner



© 2023 Maven Asset Management, Inc.