

DRIVING ASSET MANAGEMENT ***FORWARD***

MAVEN

IBM
Gold
Business Partner

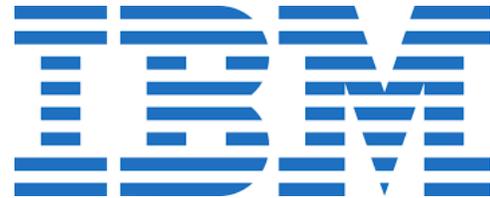
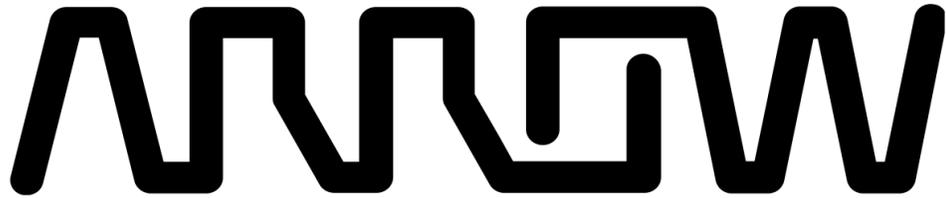




Maximo MAsTermind Hackathon

Awards Ceremony
November 17, 2023

THANK YOU.



THE JUDGES



**Cynthia
Ahr**

**Arrow
Electronics**



**Edward
Warnick**

IBM



**Steven
Shull**

IBM



**Terrence
O'Hanlon**

Reliabilityweb

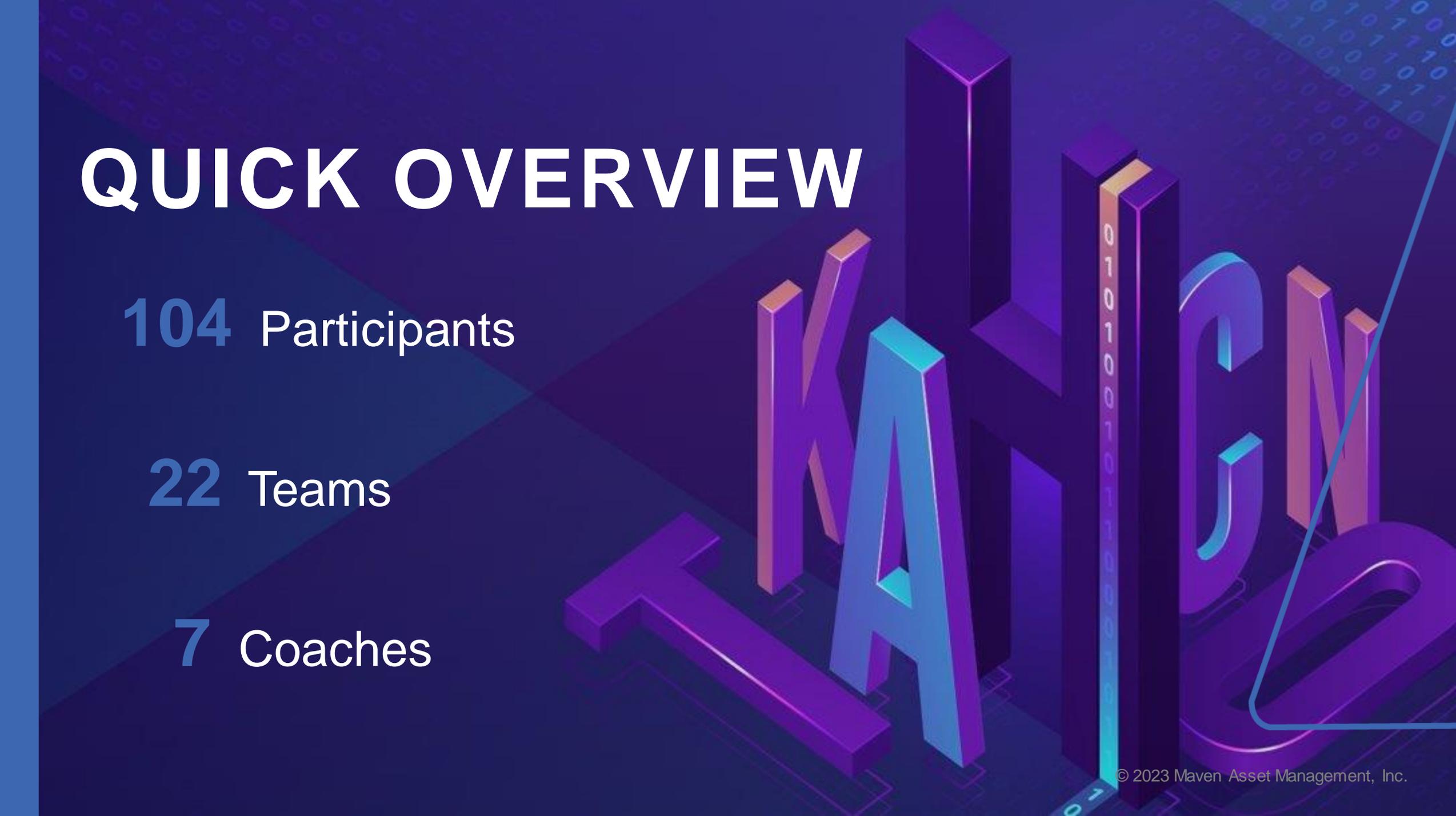


**Maura
Abad**

Reliabilityweb



QUICK OVERVIEW



104 Participants

22 Teams

7 Coaches

IN TWO WEEKS...

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

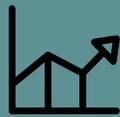
We **EXPLORED** the new capabilities of the application suite.

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.

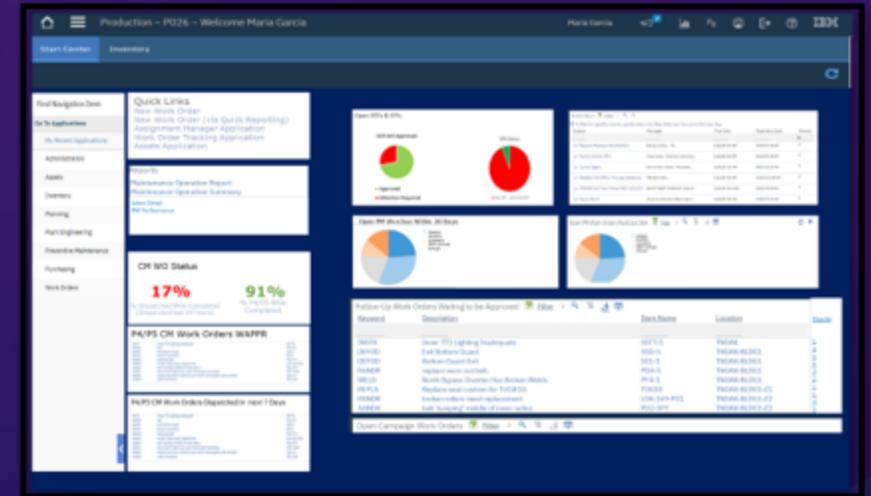
ACCOMPLISHMENTS: We successfully created a dashboard that would mimic what we would want to see in our own organization. While the actual data presented in the dashboard does not reflect the predictive nature we were looking for, we gained a clearer understanding of the process and how we will be formatting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

TEAM UPS

Current Setup / Proposed Setup

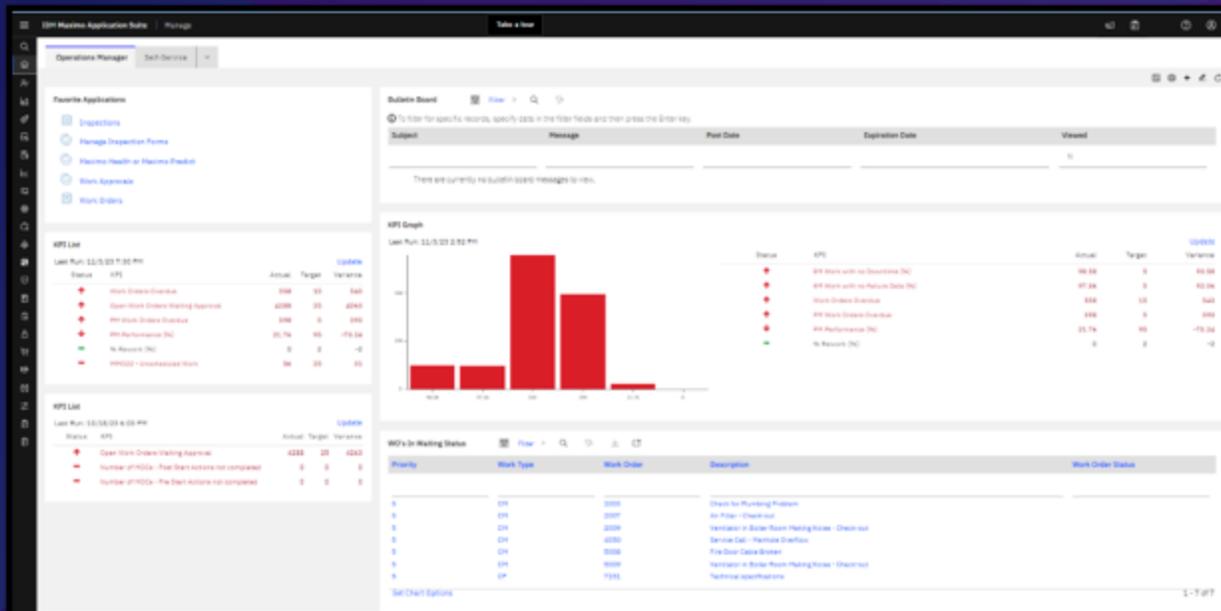


Current Start Center



Internally Proposed Start Center

TEAM UPS



PMI Inspection Form

The screenshot shows the PMI Inspection Form interface. It includes a header for 'Conveyor PM-10' and a list of inspection items with their status (e.g., 'Completed', 'Not Acceptable').

Item	Status
16. 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, a maximum gap of 3/2 in. is acceptable. If there is no pinch point or nip point within 8 in. of guard location.	Completed
17. Standing Reference the Plant Engineering Co.	Not Acceptable
18. 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 Acceptable
19. Ensure GSA-01 stickers are positioned of go.	Not Acceptable
20. Remove motor connection junction box cover.	Not Acceptable
21. Remove motor fan cover and clean. Check L.	Not Acceptable
22. Verify all mounting bolts are properly secured.	Not Acceptable

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

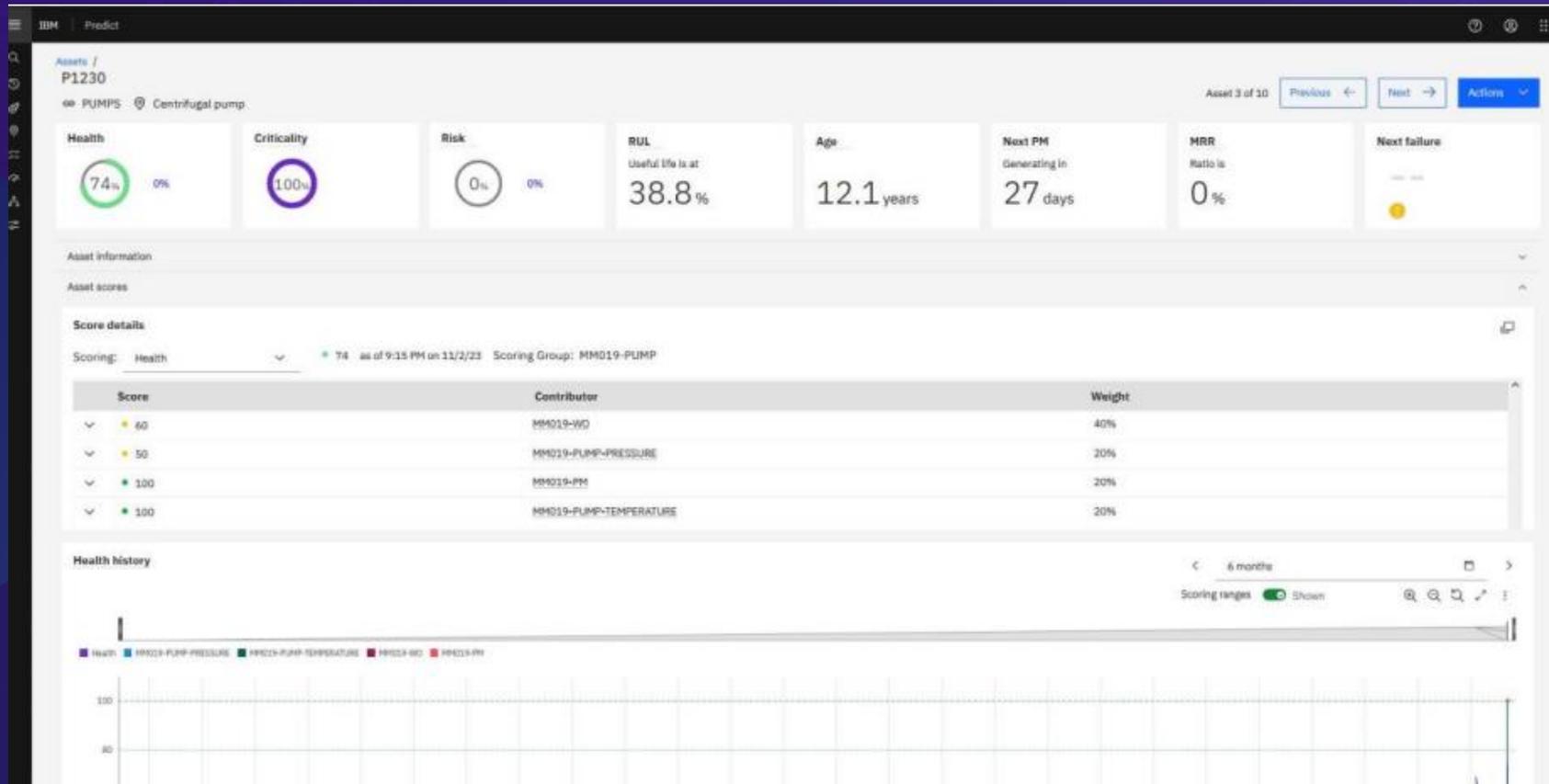
ACCOMPLISHMENTS: Determined the asset characteristics on an asset that affects it's health. Then defined characteristics meters and domain values with possible asset conditions. After which, mapped the meters to contributors to create scoring methods.

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

The screenshot displays the IBM Predict interface for an asset. The top navigation bar includes the IBM logo and the word 'Predict'. The main content area shows the asset ID '11300' and its location 'PROD_SUPPORT Boiler Room Reciprocating Compressor'. A row of metrics is presented as cards: Health (23%), Criticality (100%), Risk (77%), RUL (Useful life is at 26.2%), Age (5.1 years), Next PM (Generating in 25 days), MRR (Ratio is 0%), and Next failure (indicated by a yellow warning icon). Below these are sections for 'Asset information', 'Asset scores', and 'Score details'. The 'Score details' section shows a score of 23 for 'Health' as of 2:33 AM on 02/11/23, with a scoring group of MM022_Score_Group. A table below lists contributors to the score:

Score	Contributor	Weight
0	Meter Health Vibration	30%
0	Meter Health Bearing Temperature	30%

TEAM MAS MASTERS

The screenshot displays the IBM Maximo Application Suite Monitor interface. The top navigation bar includes the text "IBM Maximo Application Suite" and "Monitor", along with a "Take a tour" button and user profile icons. The main content area is titled "Monitor" and shows a breadcrumb path: "masdev / EAGLENA / MM022 / / BR300 /". The asset name is "MM022_AIRCOMPRESSOR_DT: MM022_AIRCOMP_11...". A "Setup" button is visible in the top right.

The interface is divided into two main sections. On the left is a "Hierarchies" sidebar with a tree view showing the following structure:

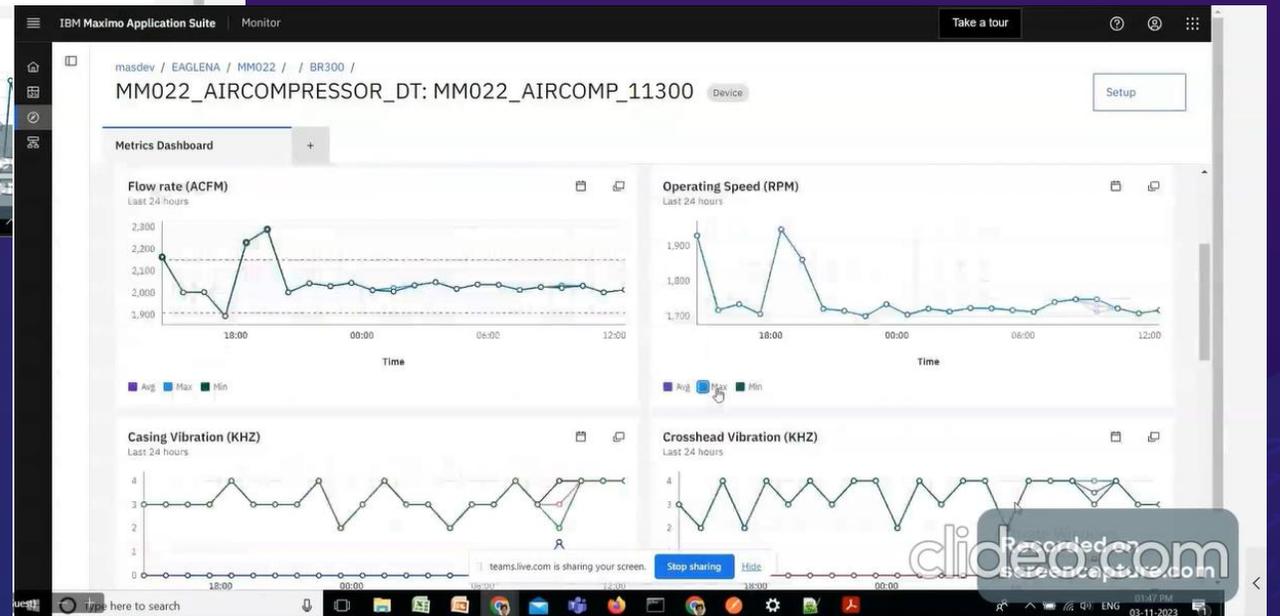
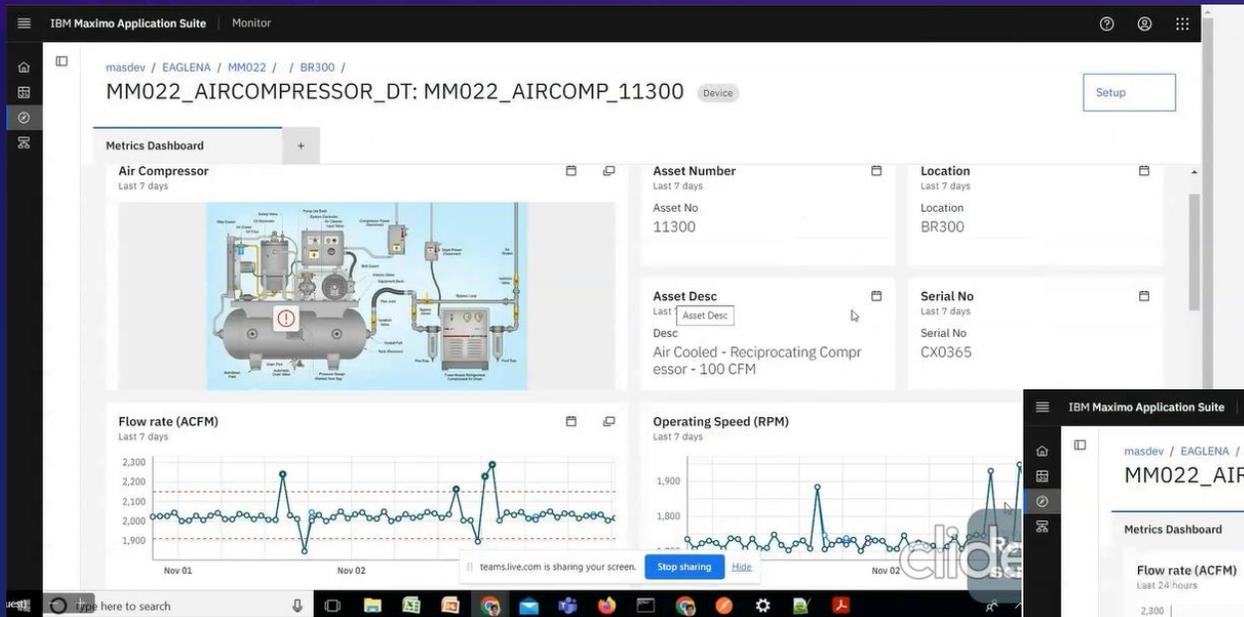
- PRIMARY
 - NEEDHAM
 - BOILER
 - BR200
 - BR230
 - BR300
 - 11300
 - MM022_AIRCOMPRESS
 - 11340
 - 11340
 - BR400
 - FLTGAR
 - OFFICE
 - PACKAGE

On the right is a "Metrics Dashboard" for the selected asset. It includes a "Last updated on:" field, a "View device in Connect" link, and a "Last 7 days" time range selector. The dashboard contains several data cards:

- Serial No** (Last 7 days): [Redacted]
- Location** (Last 7 days): Location BR300
- Asset Desc** (Last 7 days): Desc Air Cooled - Reciprocating Compressor...
- Asset Num...** (Last 7 days): Asset No 11300
- Flow rate (ACFM)** (Last 7 days): 2,300

At the bottom of the dashboard, there is a "teams.live.com is sharing your screen." notification with "Stop sharing" and "Hide" buttons. A "clideo.com" watermark is present in the bottom right corner of the dashboard area. The Windows taskbar at the bottom shows the system tray with the date "03-11-2023" and time "01:44 PM".

TEAM MAS MASTERS



TEAM MAS MASTERS

IBM Maximo Application Suite | Manage | Take a tour

Graphical Resource View

Resource: Graphical View

Quick Filter: SICK | Full Day

Description	Nov 2023 W44	Nov 2023 W45	Nov 2023 W46	Nov 2023 W47
Carpenter	24	16	16	24
Mark Finley	W	W	W	W
Lee Murphy	W	W	W	W
Mike Small	W	W	W	W
Construction Worker	16	16	16	16
Andrew Porter	W	W	W	W
Chris Winters	W	W	W	W
Electrician	32	32	40	40
Joe Boney	W	W	W	W
Larry Chaney	W	W	W	W
Christine Horn	W	W	W	W
Mike Lee	W	W	W	W
Katherine Storm	W	W	W	W
Lubricator	8	8	8	8

Common Actions: New Resource List, Save Resource List, Clear Changes, Delete Resource List, Refresh Resource List, Duplicate Resource List, Add to Bookmarks, Run Reports

IBM Maximo Application Suite | Manage

Operational dashboard

Last updated on: 11/3/23 1:42:33 pm

Refresh KPIs manually or schedule refreshes in KPI Manager.

KPI	Status	Value	Trend
MM022 - Overdue High Priorit...	On target	2 work orders	▲ 100% from last refresh
MM022 - Unscheduled Work	Over target by 31	56 work orders	▼ 45.63% from last refresh
MM022 - Open PM Work Order	Under target by 44.02	50.98 %	▼ 49.02% from last refresh
MM022 - Priority Work (>=7)	Over target by 3	23 work orders	▼ 65.67% from last refresh

Favorites: Work Orders, Workflow Assignments, Work Order Tracking, Service Requests, Quick Reporting, Locations, Assets, Purchase Requisitions

Quick actions: Create work order, Work Order Tracking, Create service request, Service Requests, Create purchase request, Purchase Requisitions, Create job plan, Job Plans, Create PM, Preventive Maintenance

Workflow assignments due soon:

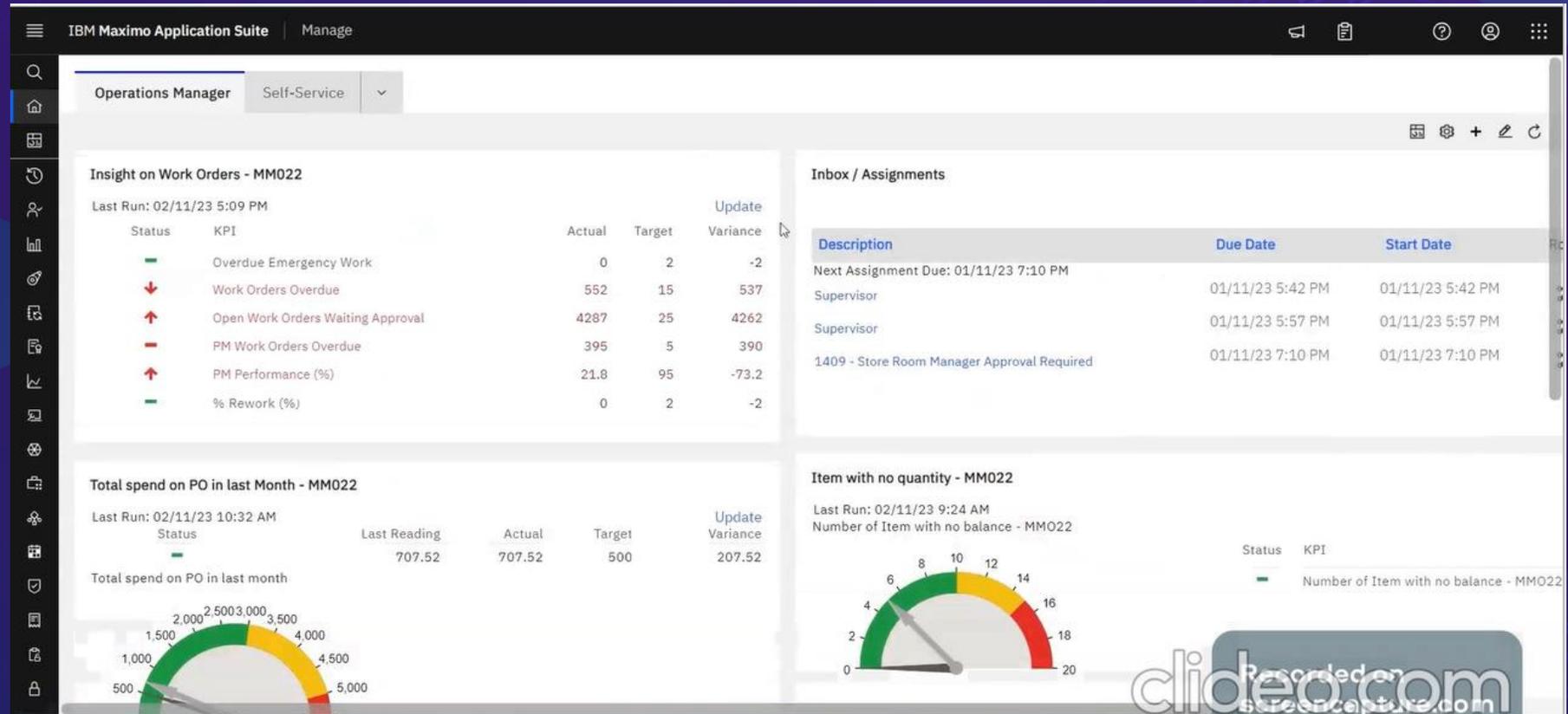
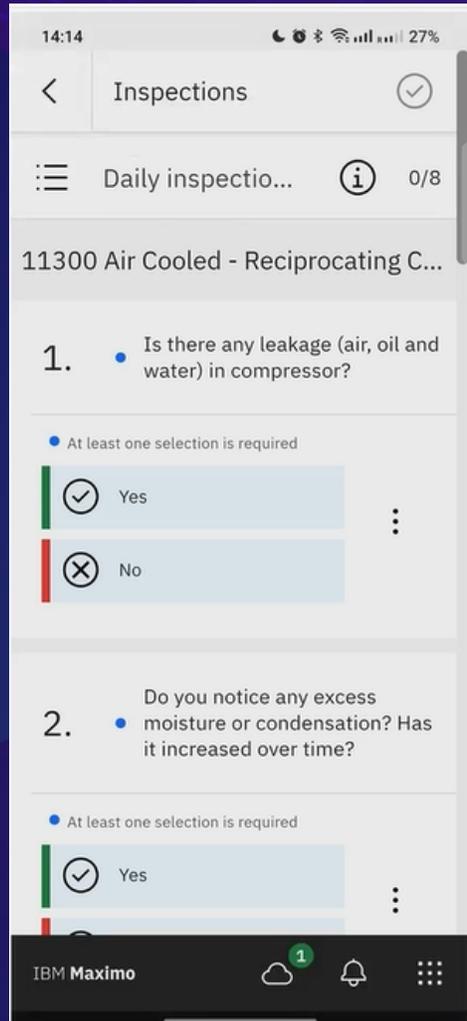
Assignment	Due Date
1449 - Supervisor Approval Required Site MM022, Work Order 1449	11/3/23 12:04:51 pm
1407 - Supervisor Approval Required Site MM022, Work Order 1407	▲ 11/2/23 12:31:57 am
Supervisor Site MM022, Work Order 1406	▲ 11/2/23 12:25:25 am
Supervisor Site MM022, Work Order 1405	

TEAM MAS MASTERS

The screenshot shows the 'Graphical Scheduling' interface in IBM Maximo. The top navigation bar includes 'List View', 'Graphical View', 'Compare Scenarios', 'Cost and Usage', and 'Compliance'. A search bar is present. The main area displays a Gantt chart for a schedule starting on 11/5/23 at 9:03 AM and ending on 11/9/23 at 5:03 PM. The chart shows tasks such as 'Overhaul GM Electrical', 'Ventilation Fan - Check', and 'Fire Door Cable Broker'. A 'Resources' table is visible below the chart, listing 'ELECT' (Electrician) and 'MECH' (Mechanic). The interface includes a sidebar with 'Common Actions' like 'New Schedule', 'Clear Changes', and 'Delete Schedule'.

The screenshot shows the 'Graphical Assignment' interface in IBM Maximo. The top navigation bar includes 'List View', 'Work View', 'Assignment View', 'Compare Scenarios', and 'Dispatch'. A search bar is present. The main area displays a Gantt chart for an assignment starting on 11/5/23 at 9:03 AM and ending on 11/9/23 at 11:03 PM. The chart shows assignments for resources like 'KLIEN', 'SILIKI', 'SNYDER', 'KELLY', 'STORM', 'ROGERS', 'ELECT', 'BONEY', 'CHANEY', 'HORN', and 'LEE'. A 'Resources' table is visible below the chart, listing 'ELECT' (Electrician) and 'MECH' (Mechanic). The interface includes a sidebar with 'Common Actions' like 'New Work List', 'Clear Changes', and 'Delete Work List'.

TEAM MAS MASTERS



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

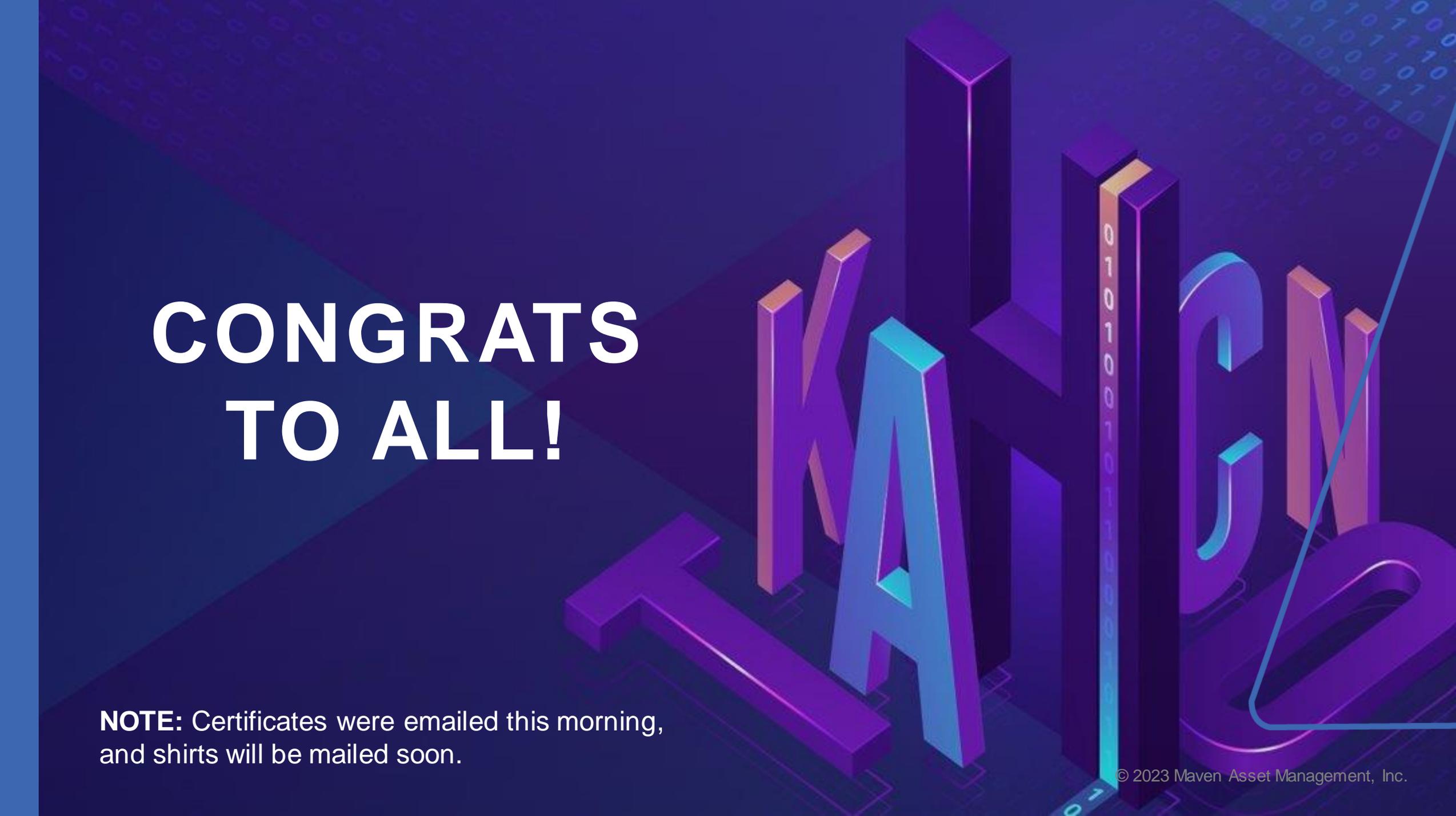


MM019
(Team 19)

FIRST PLACE



MAS MASTers (Team 22)



**CONGRATS
TO ALL!**

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

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Business Partner



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