MIRAL Experiences

DIGITAL TRANSFORMATION

PAPER-BASED MAINTENANCE TO DIGITAL PLATFORM: STREAMLINE, AUTOMATE & EMPOWER

NATHIQ SYED
Planning & Projects Director

MIRAL Experiences

Ferrari World Abu Dhabi

Yas Waterworld Abu Dhabi

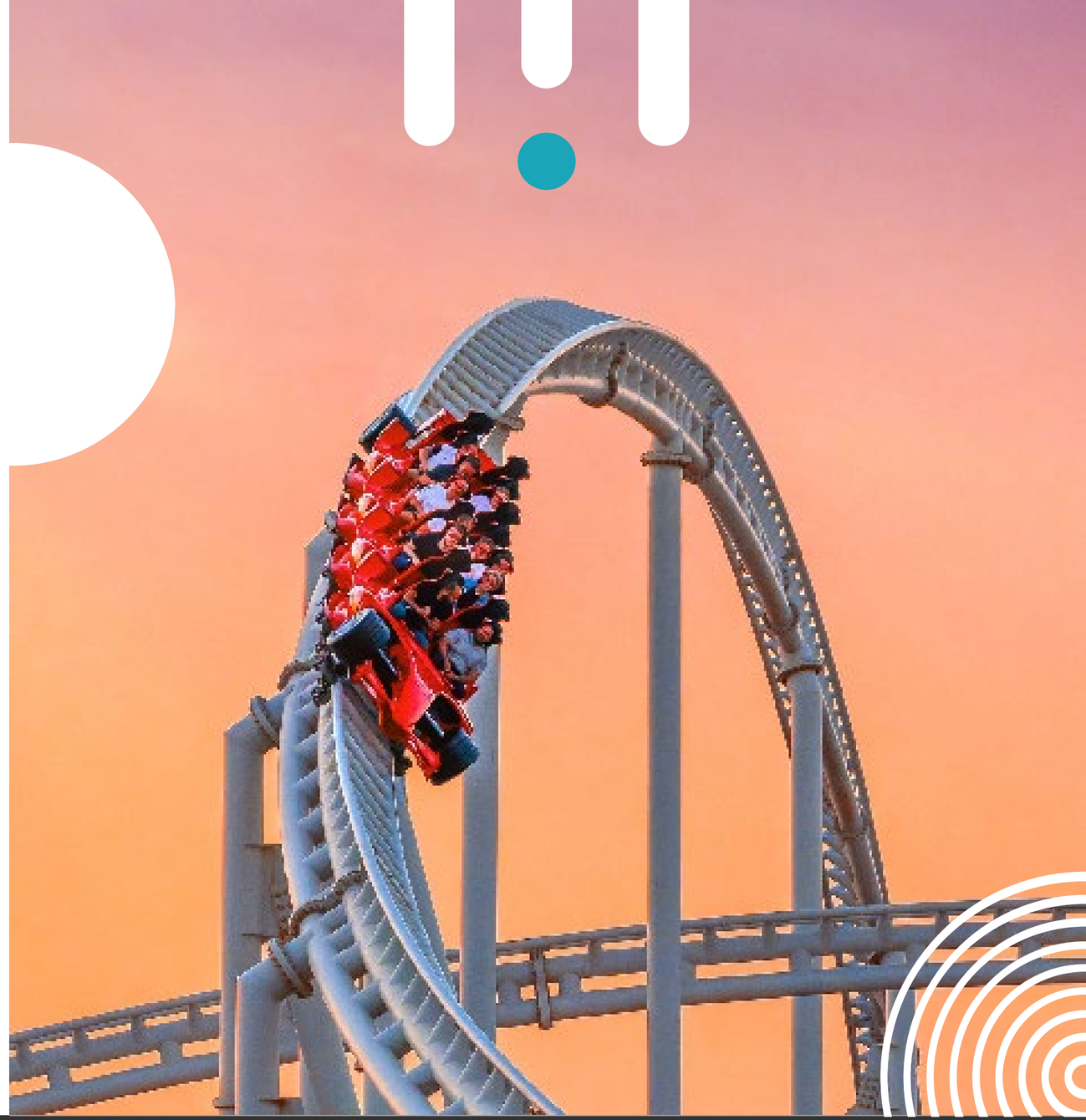
Warner Bros. World Abu Dhabi

CLYMB Indoor Skydiving & Climbing

Qasr Al Watan Abu Dhabi

SeaWorld Abu Dhabi

Al Ain Zoo



MAXIMO IN NUMBERS

1 Organization

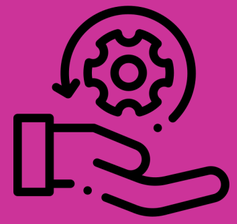
6 Sites

245
Maximo Users

380
Mobile Users

30,000+
Assets

800
PM Schedules



571
Daily PM’s

150k
Workorders/year

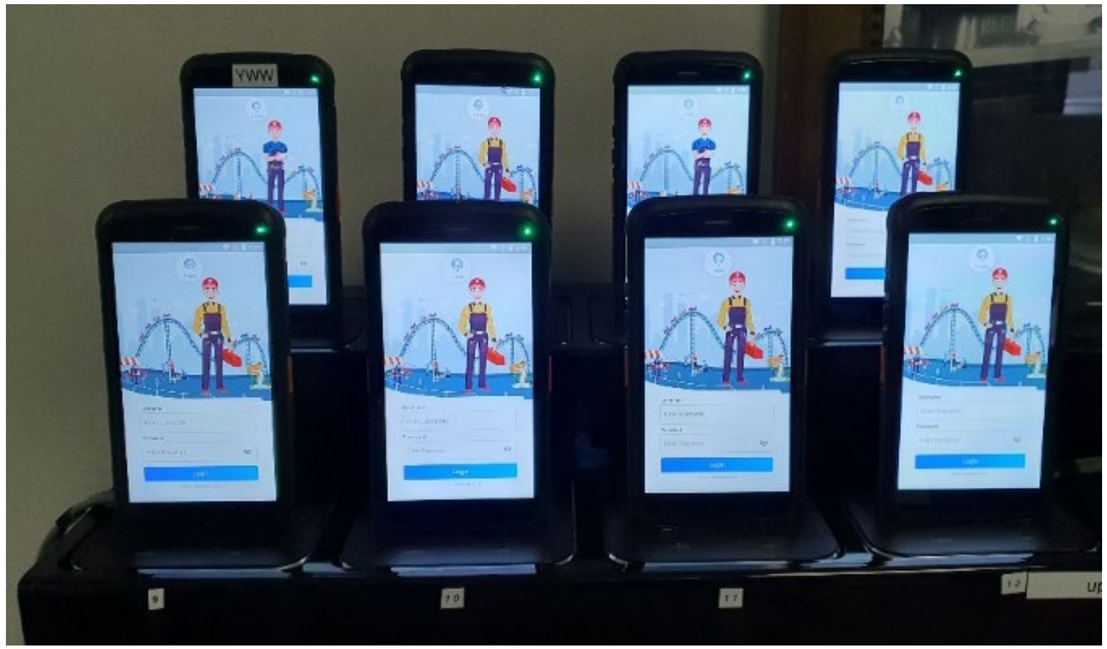
"THE ONLY CONSTANT IN LIFE IS CHANGE."

Heraclitus

What does Transformation Look like?

MIRAL Experiences

Here you go……. **TRANSFORMATION**



Green Lantern
The Flash
Superman
Wonder Woman
Batman
Cyborg

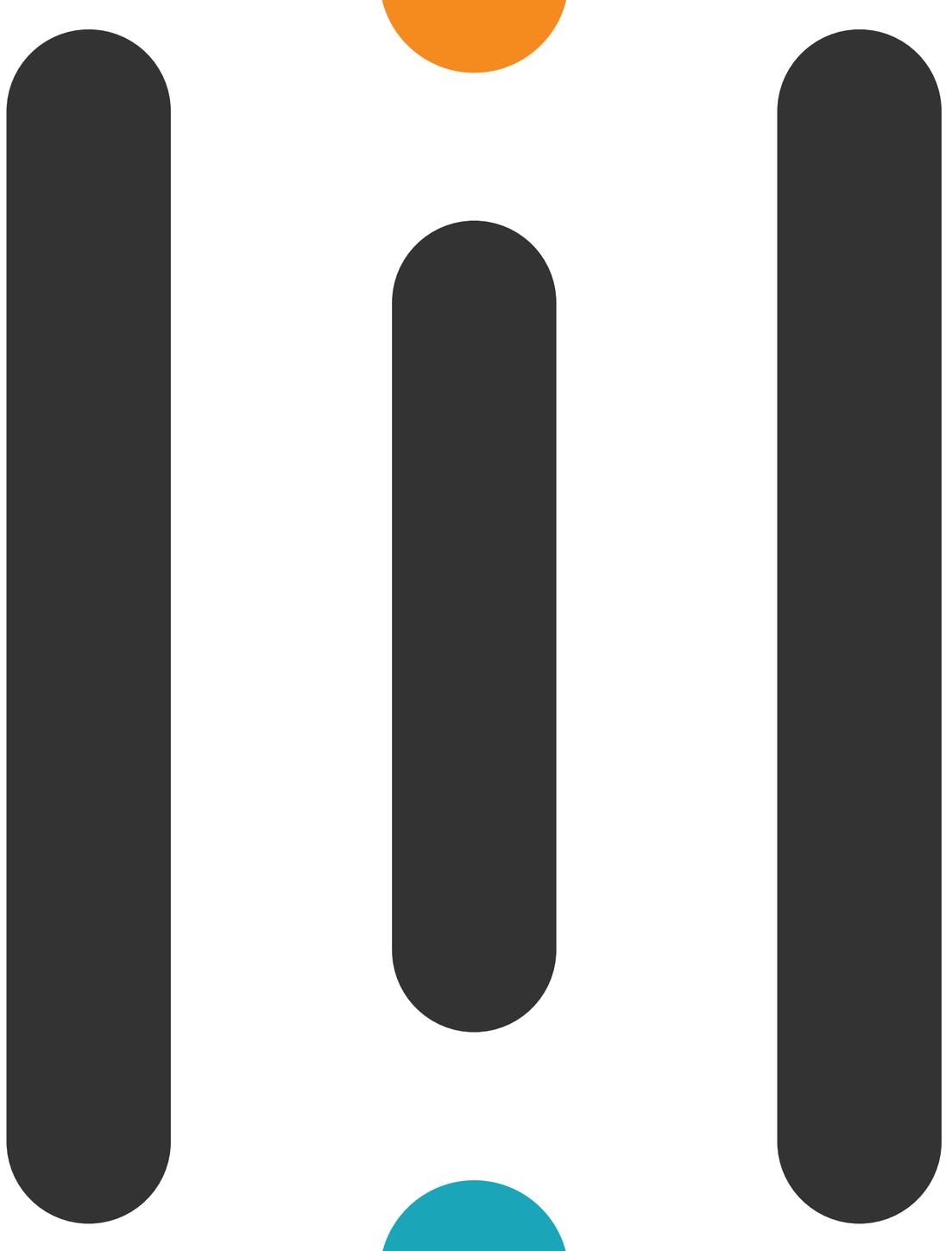
TRANSFORMATION

EXISTING PRACTICES

THOUGHT PROCESS

PROOF OF CONCEPT

PROJECT IMPLEMENTATION



EXISTING PRACTICE

CHECK LIST

Frequency: DAYS
Location: CC CC Batman:Knight Flight
Work Order: 12834155 7901 Batman Daily PM Vehicle 03

ID Number	Signature	Date/Time Started	Date/Time Finished	Duration
33591		13/2 2:30	13/2 4:00	1h 30min

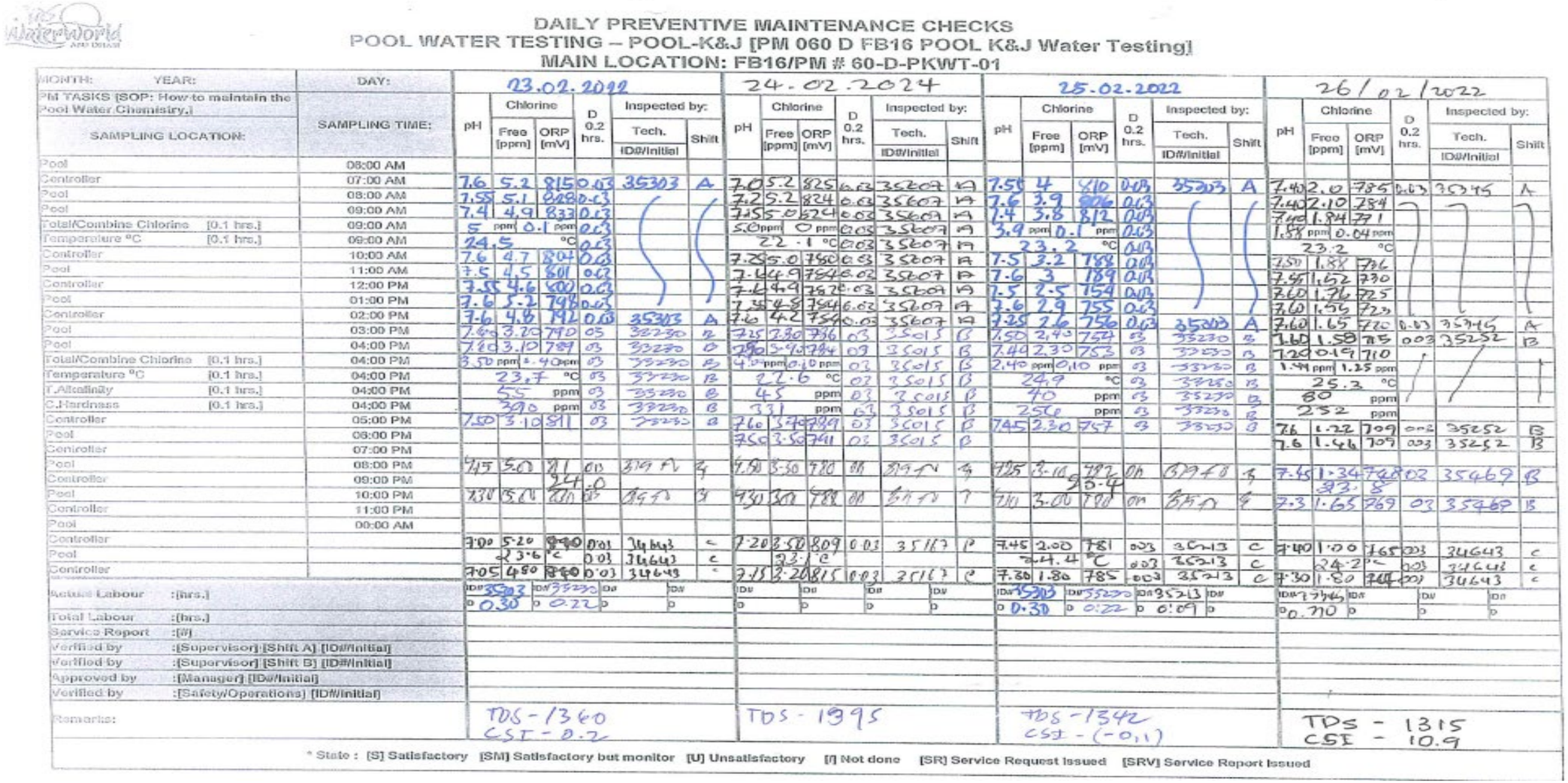
Target Date	13/2/20
Date/Time Started	
Date/Time Finished	
Theoretical Capacity	
Total Available	
Starts from OCC	

Team Leaders Name	Praveen T R
Team Leaders Sign	
PM Number	7901-D-CC-VEH-03
Job Plan	JP-D-CC-VEH-01
Job Plan Duration (Hrs.)	05:36
Zone	RIDES
SiteId	WBAD

Task / WO #	Description	Ref:	OK	Not OK	Initials/ID	Comments
10	Vehicle Transport: Visual Check (VC) Inspect ride vehicle for the following: Signs of oil leaks around the gearbox (KUKA robot). Investigate and report any issues found to supervision prior to ride opening.		✓		33591	
20	Vehicle Transport: Visual Check (VC) Inspect vehicle track scrapers for condition and security. Investigate, repair or replace as needed prior to ride opening.		✓		"	
30	Vehicle Transport: Visual Check (VC) Inspect the vehicle caster wheels for condition and security. Investigate, replace as needed prior to opening the ride		✓		"	
40	Vehicle Transport: Visual Check (VC) Inspect pinch wheels and gas springs for proper adjustment and wear. Adjust or replace as necessary, report any issues found to supervision prior to ride opening.		✓		"	
50	Vehicle Transport: Visual Check (VC) Check gas springs of pinch drive mechanism for pressure and secure mounting. Pressure should be 1550 psi on a straight section of track, Recharge as needed.		✓		"	Front = 1500 PSI Rear = 1600 PSI
60	Vehicle Transport: Visual Check (VC) Visually inspect each pinch wheel for damage including gouges (greater than 3 mm -1/8 inch),embedded debris (greater than 1/2 inch), and delamination. Replace as needed.Also check for indications of grease or oil.If present,use a rag dampened with a mild degreaser to clean,and soap water afterwards.		✓		"	
70	Vehicle Transport: Visual Check (VC) Visually inspect the pinch drive mechanism for lubrication leakage.Any leakage over the pinch wheels is unacceptable. Verify that all electrical connectors are secure.		✓		"	
80	Vehicle Transport: Visual Check (VC) Visually inspect bus bar brushes for wear and cleanliness. Replace or clean as necessary prior to ride opening.		✓		"	

MIRAL Experiences

EXISTING PRACTICE

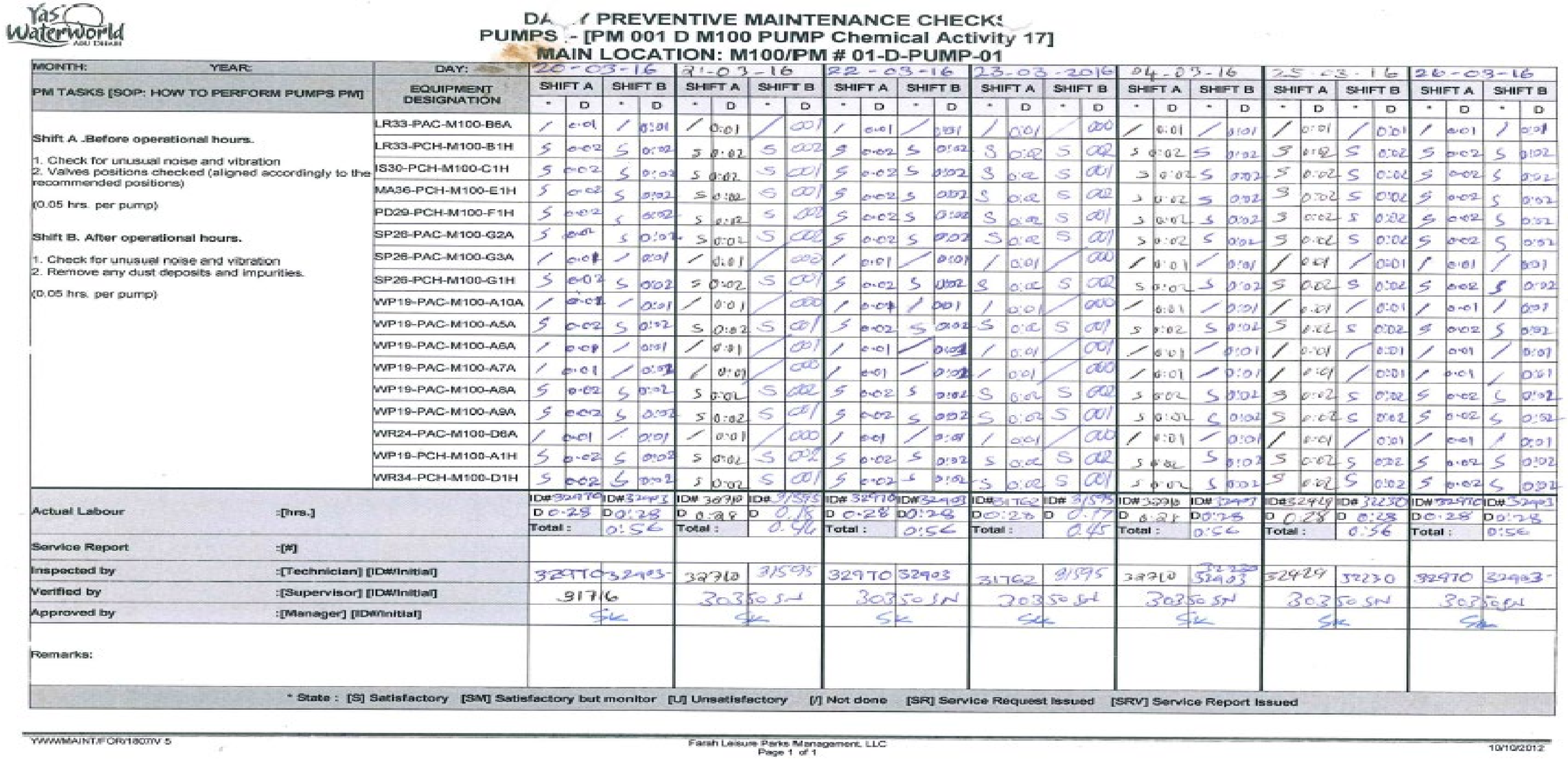


DAILY PREVENTIVE MAINTENANCE CHECKS
POOL WATER TESTING – POOL-K&J [PM 060 D FB16 POOL K&J Water Testing]
MAIN LOCATION: FB16/PM # 60-D-PKWT-01

MONTH: YEAR:	DAY:	23.02.2022							24.02.2024							25.02.2022							26/02/2022						
PM TASKS [SOP: How to maintain the Pool Water Chemistry.]			Chlorine		D 0.2 hrs.	Inspected by:			Chlorine		D 0.2 hrs.	Inspected by:			Chlorine		D 0.2 hrs.	Inspected by:			Chlorine		D 0.2 hrs.	Inspected by:	
SAMPLING LOCATION:	SAMPLING TIME:	pH	Free [ppm]	ORP [mV]		Tech. ID#/Initial	Shift	pH	Free [ppm]	ORP [mV]		Tech. ID#/Initial	Shift	pH	Free [ppm]	ORP [mV]		Tech. ID#/Initial	Shift	pH	Free [ppm]	ORP [mV]		Tech. ID#/Initial	Shift
Pool	06:00 AM																								
Controller	07:00 AM	7.6	5.2	815	0.03	35303	A	7.0	5.2	825	0.03	35207	A	7.55	4	810	0.03	35203	A	7.40	2.0	785	0.03	35345	A
Pool	08:00 AM	7.55	5.1	828	0.03			7.2	5.2	824	0.03	35607	A	7.6	3.9	806	0.03			7.40	2.10	784			
Pool	09:00 AM	7.4	4.9	833	0.03			7.15	5.0	824	0.03	35609	A	7.4	3.8	812	0.03			7.40	1.84	771			
Total/Combine Chlorine [0.1 hrs.]	09:00 AM	5 ppm	0.1 ppm		0.03			5.0 ppm	0 ppm		0.03	35607	A	3.9 ppm	0.1 ppm		0.03			1.88 ppm	0.04 ppm				
Temperature °C [0.1 hrs.]	09:00 AM	24.5	°C		0.03			22.1	°C		0.03	35607	A	23.2	°C		0.03			23.2	°C				
Controller	10:00 AM	7.6	4.7	804	0.03			7.25	5.0	780	0.03	35207	A	7.5	3.2	788	0.03			7.50	1.88	736			
Pool	11:00 AM	7.5	4.5	801	0.03			7.44	4.9	784	0.03	35207	A	7.6	3	789	0.03			7.56	1.62	730			
Controller	12:00 PM	7.55	4.6	800	0.03			7.44	4.9	782	0.03	35209	A	7.5	2.5	754	0.03			7.60	1.76	725			
Pool	01:00 PM	7.6	5.2	798	0.03			7.35	4.8	784	0.03	35207	A	7.6	2.9	755	0.03			7.60	1.56	729			
Controller	02:00 PM	7.6	4.6	812	0.03	35303	A	7.6	4.2	784	0.03	35607	A	7.25	2.6	756	0.03	35203	A	7.60	1.65	720	0.03	35345	A
Pool	03:00 PM	7.60	3.20	790	03	35230	B	7.25	2.80	796	03	35015	B	7.50	2.45	764	03	35230	B	7.60	1.58	715	003	35252	B
Pool	04:00 PM	7.60	3.10	789	03	35230	B	7.20	3.40	784	03	35015	B	7.44	2.30	753	03	35230	B	7.20	0.19	710			
Total/Combine Chlorine [0.1 hrs.]	04:00 PM	3.50 ppm	2.40 ppm		03	35230	B	4.0 ppm	0.10 ppm		03	35015	B	2.40 ppm	0.10 ppm		03	35230	B	1.99 ppm	1.25 ppm				
Temperature °C [0.1 hrs.]	04:00 PM	23.7	°C		03	35230	B	22.6	°C		03	35015	B	24.9	°C		03	35230	B	25.2	°C				
T.Alkalinity [0.1 hrs.]	04:00 PM	55	ppm		03	35230	B	45	ppm		03	35015	B	40	ppm		03	35230	B	80	ppm				
C.Hardness [0.1 hrs.]	04:00 PM	390	ppm		03	35230	B	331	ppm		03	35015	B	256	ppm		03	35230	B	252	ppm				
Controller	05:00 PM	7.50	3.10	811	03	35230	B	7.46	3.40	789	03	35015	B	7.45	2.30	757	03	35230	B	7.6	1.22	709	002	35252	B
Pool	06:00 PM							7.65	3.50	741	03	35015	B							7.6	1.46	709	003	35252	B
Controller	07:00 PM																								
Pool	08:00 PM	7.45	5.0	791	03	35469	B	7.50	3.50	790	03	35469	B	7.25	3.10	792	03	35469	B	7.45	1.34	748	03	35469	B
Controller	09:00 PM			24.0												24.4					33.8				
Pool	10:00 PM	7.30	5.0	790	03	35469	B	7.30	3.50	788	03	35469	B	7.10	3.00	790	03	35469	B	7.3	1.65	769	03	35469	B
Controller	11:00 PM																								
Pool	00:00 AM																								
Controller		7.00	5.20	790	0.03	34643	C	7.20	3.50	809	0.03	35117	C	7.45	2.00	781	003	35213	C	7.40	1.00	765	003	34643	C
Pool			23.6	C	0.03	34643	C		23.1	C					24.4	°C	003	35213	C		24.2	°C	003	34643	C
Controller		7.05	4.80	840	0.03	34643	C	7.15	3.20	815	0.03	35117	C	7.30	1.80	785	003	35213	C	7.30	1.80	744	003	34643	C
Actual Labour :[hrs.]		ID# 35303	ID# 35230	ID#	ID#			ID#	ID#	ID#	ID#			ID# 35303	ID# 35230	ID# 35213	ID#			ID# 34643	ID#	ID#	ID#		
		0.30	0.22											0.30	0:22	0:09				0.70					
Total Labour :[hrs.]																									
Service Report :[#]																									
Verified by :[Supervisor] [Shift A] [ID#/Initial]																									
Verified by :[Supervisor] [Shift B] [ID#/Initial]																									
Approved by :[Manager] [ID#/Initial]																									
Verified by :[Safety/Operations] [ID#/Initial]																									
Remarks:		TDS - 1360 CSI - 0.2						TDS - 1995						TDS - 1342 CSI - (-0,1)						TDS - 1315 CSI - 10.9					

* State : [S] Satisfactory [SM] Satisfactory but monitor [U] Unsatisfactory [/] Not done [SR] Service Request Issued [SRV] Service Report Issued

EXISTING PRACTICE



Yas WaterWorld ABU DHABI

DA[illegible] PREVENTIVE MAINTENANCE CHECKS
PUMPS - [PM 001 D M100 PUMP Chemical Activity 17]
MAIN LOCATION: M100/PM # 01-D-PUMP-01

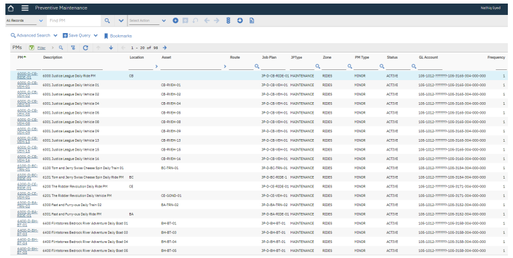
MONTH:	YEAR:	DAY:	20-03-16				21-03-16				22-03-16				23-03-2016				24-03-16				25-03-16				26-03-16			
PM TASKS [SOP: HOW TO PERFORM PUMPS PM]		EQUIPMENT DESIGNATION	SHIFT A		SHIFT B		SHIFT A		SHIFT B		SHIFT A		SHIFT B		SHIFT A		SHIFT B		SHIFT A		SHIFT B		SHIFT A		SHIFT B		SHIFT A		SHIFT B	
			*	D	*	D	*	D	*	D	*	D	*	D	*	D	*	D	*	D	*	D	*	D	*	D	*	D	*	D	*	D
Shift A .Before operational hours. 1. Check for unusual noise and vibration 2. Valves positions checked (aligned accordingly to the recommended positions) (0.05 hrs. per pump)		LR33-PAC-M100-B6A	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01
		LR33-PCH-M100-B1H	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02
		IS30-PCH-M100-C1H	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02
		MA36-PCH-M100-E1H	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02
		PD29-PCH-M100-F1H	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02
Shift B. After operational hours. 1. Check for unusual noise and vibration 2. Remove any dust deposits and impurities. (0.05 hrs. per pump)		SP26-PAC-M100-G2A	S	0:01	S	0:01	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02
		SP26-PAC-M100-G3A	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01
		SP26-PCH-M100-G1H	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02
		WP19-PAC-M100-A10A	/	0:01	/	0:01	/	0:01	/	0:00	/	0:01	/	0:01	/	0:01	/	0:00	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01
		WP19-PAC-M100-A5A	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02
		WP19-PAC-M100-A6A	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01
		WP19-PAC-M100-A7A	/	0:01	/	0:01	/	0:01	/	0:00	/	0:01	/	0:01	/	0:01	/	0:00	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01
		WP19-PAC-M100-A8A	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02
		WP19-PAC-M100-A9A	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02
		WR24-PAC-M100-D6A	/	0:01	/	0:01	/	0:01	/	0:00	/	0:01	/	0:01	/	0:01	/	0:00	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01	/	0:01
		WP19-PCH-M100-A1H	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02
		WR34-PCH-M100-D1H	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:01	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02	S	0:02
Actual Labour	:[hrs.]		ID# 32970 D 0:29 Total :	ID# 32903 D 0:28 0:56	ID# 32970 D 0:28 Total :	ID# 31595 D 0:18 0:46	ID# 32970 D 0:28 Total :	ID# 32903 D 0:28 0:56	ID# 31762 D 0:28 Total :	ID# 31595 D 0:17 0:45	ID# 32970 D 0:21 Total :	ID# 32903 D 0:28 0:56	ID# 32429 D 0:28 Total :	ID# 32230 D 0:28 0:56	ID# 32970 D 0:28 Total :	ID# 32903 D 0:28 0:56												
Service Report	:[#]																													
Inspected by	:[Technician] [ID#/Initial]		32970	32903	32970	31595	32970	32903	31762	31595	32970	32903	32429	32230	32970	32903														
Verified by	:[Supervisor] [ID#/Initial]		30350 SM		30350 SM		30350 SM		30350 SM		30350 SM		30350 SM		30350 SM															
Approved by	:[Manager] [ID#/Initial]		SK		SK		SK		SK		SK		SK		SK															
Remarks:																														

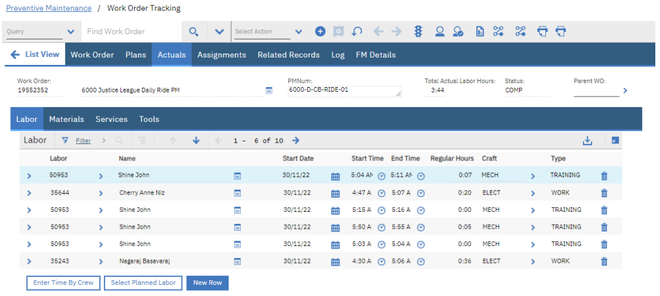
* State : [S] Satisfactory [SM] Satisfactory but monitor [U] Unsatisfactory [/] Not done [SR] Service Request Issued [SRV] Service Report Issued

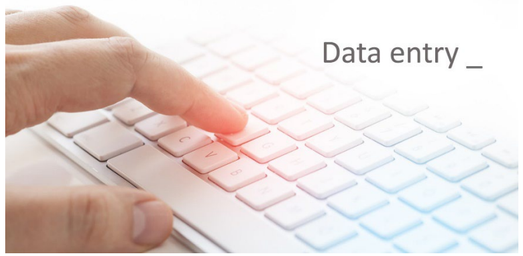
YWWMAINT/FOR/180/IV 5 — Farah Leisure Parks Management, LLC Page 1 of 1 — 10/10/2012

MIRAL Experiences

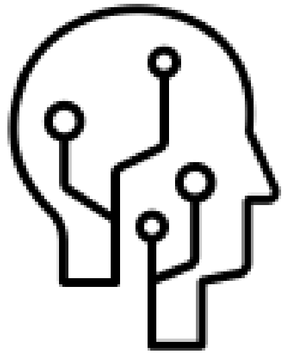
EXISTING WORKFLOW



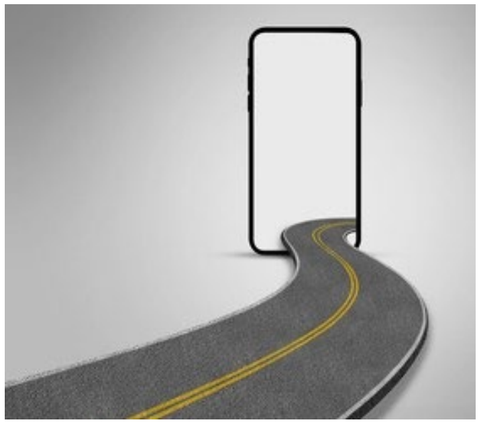




THOUGHT PROCESS



- What’s Next?
- How do we evolve?
- What is going on around?
- How do we adapt?
- How do we start?



The Journey of a Thousand Miles Begin with a Single Step

BUSINESS CASE

Missing Functionalities

- Real time Data availability
- Automated System
- Reducing Inconsistencies
- Warehouse Functionalities

Purpose

- Migration from paper-based work systems to enhanced Mobile solution
- Real Time data entry and Manpower utilization efficiency
- Reducing manual efforts – Work Order Printing, Data Encoding to Maximo
- Accurate Data Encoding from source, Dashboards and Reports
- Warehouse : Automation of Physical Counts, GRN’s, Issuances, Returns, Transfers.

ROI - RETURN ON INVESTMENT

Manpower

Reduction in Admin Man hours/year – 7,300 hrs.

Reduction on Admin Expenses/year – $55,000 approx.

GOGREEN

Average Papers sheets Printed - 450,000

Average Costs of Printing – $10,000

EFFICIENCY

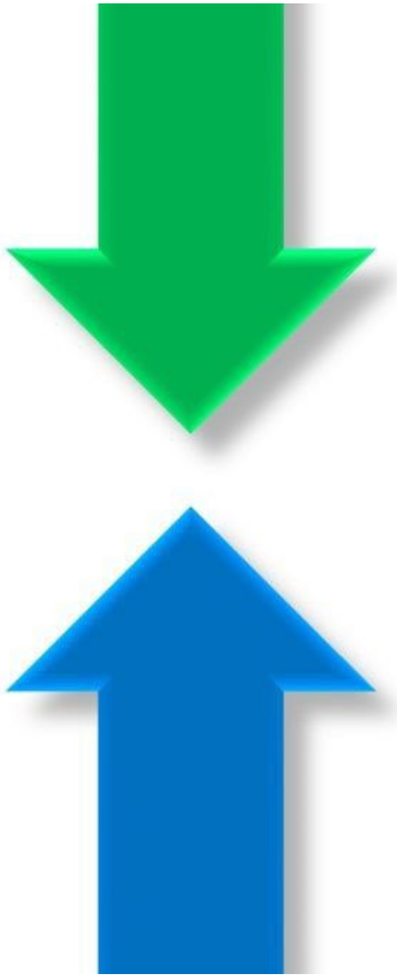
Mobility

Data Accuracy

Real-time Data

Reduced Manual Intervention

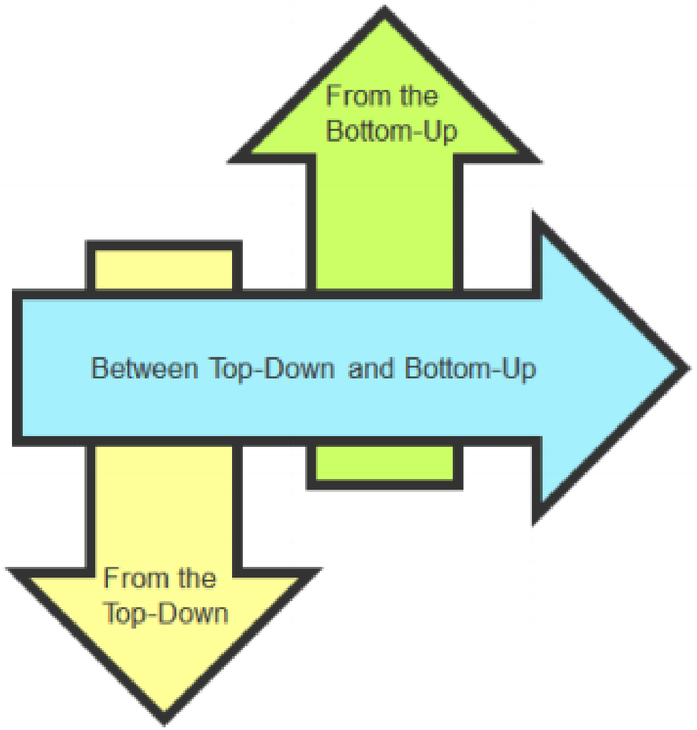
APPROACH



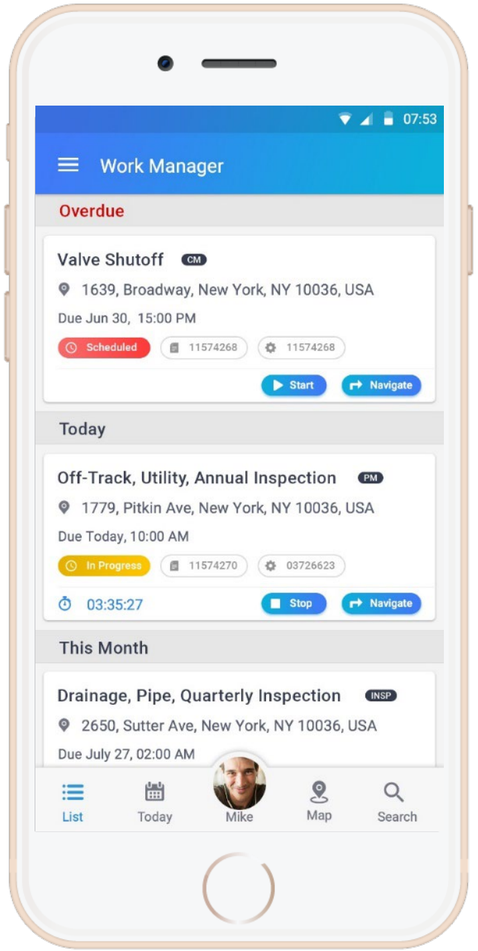
Top Down?

OR

Bottom Up?



PROOF OF CONCEPT



STRATEGY
PREPARATION IS HALF VICTORY

Drivers for successful Maximo Mobile Implementation

ONE T-EAM... ONE MAINTENANCE DREAM

PROOF OF CONCEPT

Zone	Emp. ID & Name	Application Feedback
Rides	Ramil (TL-33508)	1. NEED TO ADD FILTER FUNCTIONS (BY: RIDES NAME, TARGET DATE, STATUS, ZONE AND ETC) SIMILAR TO MAXIMO
		2. OBSERVED THAT LETTERS ARE LAGGING AS I TYPE IN SEARCH BOX (SLOW)
		3. I ASSIGNED SOME PM'S FOR RAVI AND RAKESH (DATED MARCH 4, 2019) BUT NOTHING APPEARED ON THEIR DEVICES, THEY TRIED LOGGING IN AND OUT BUT STILL NOTHING NOTHING APPEARED IN THEIR DEVICE. IF THEY TRY TO PRES THE CALENDAR BY MARCH 4, 2019 STILL NO PM SHOWING ON THEIR DEVICES. AFTER 4 HOURS @ 6:00 AM I CHECK MNTC-006-KEST, PM'S ASSIGNED ARE SHOWING UP TO LOKESH BUT APPLICATION FUNCTION IS STILL SLOW
		4. WORK ORDER NUMBER SHOULD ALSO APPEAR ON THE PM LIST.
		5. MUKESH LOGIN HAS ERROR, CAN'T LOG IN.
	Shanoob (Tech-33628)	1. AFTER COMPLETING 1 WORKING , ALL DISAPPEARED IN MY SCREEN.-K71 Tablet 7 Inch
		2. T-EAM APPS IS LITTLE BIT SLOW.-K71 Tablet 7 Inch
		3. SOMETIMES I CAN'T SIGN UP TO THE APPLICATION.-K71 Tablet 7 Inch
		4. WE CAN'T CARRY THE TABLET IN SOME TASK.-K71 Tablet 7 Inch
		5. WE CAN'T REVIEW ANY COMPLTED WORK ORDER.-K71 Tablet 7 Inch
		6. IN WORKORDER NOTIFICATION SCREEN "START" OPTION IS TOO SMALL.-K71 Tablet 7 Inch
		7. REMOVE CALL BUTTON.-K71 Tablet 7 Inch
		8. MINIMIZE WORKORDER DETAIL SECTION INSIDE WORK ORDER SO THAT TASK CAN BE SEEN EASILY.-K71 Tablet 7 Inch
		9. BATTERY CONSUMPTION IS GOOD, WHEN I TOOK IT WAS 95% AS OF 15:00 THEN RETURN IT BACK AT 18:00 AT 93% BATTERY PERCENTAGE-Chainway
		10. COMPARE TO TABLET ITS MORE EASY TO CARRY AND USE.-Chainway
	Lokesh (Tech-33687)	1. APPLICATION IS VERY SLOW.-Blackview
		2. APPLICATION SCREEN NEEDS TO BE BIG.-Blackview
		3. NEED SAFETY MOBILE COVER.-Chainway
		4. APPLICATION IS WORKING GOOD. SPEED IS GOOD-Chainway
	Ravi (Tech-33619)	1. NO WORK ASSIGNMENT WAS ALOTTED FOR ME-K71 Tablet 7
		2. 04.03.2019 (MNTC-0001-TW) PM ASSIGNED TO ME IS NOT SHOWING IN MY DEVICE.
		3. WORK WAS NOT ASSIGNED TO ME.
	Anthony (Tech-33613)	1. ATTACHING FILES MAKE ERROR IN WORKORDER.
		2. CAN'T ABLE TO UNDO THE TICK/COMPLETED TASK AFTER SOMETIME.
		3. COMPLETED WORKORDER IS NOT VANISHING FROM MY INBOX EVEN AFTER REFRESHING AND IT SHOWS SOME ERROR IN WORK ORDER.
		4. ADDIDTIONAL TASK, SHOULD NOT BE REQUIRED FOR TECHNICIANS DEVICE.
		5. IF IT'S POSSIBLE TO REDUCE THE WORKORDER DESCRIPTION SPACE AND UTILIZE IT FOR OTHER DETAILS.
		6. NO OPTIONS TO UNDO THE TICKED TASK.
		7. EVEN WITHOUT STARTING THE WORK WE CAN TICK THE TASK.

PROOF OF CONCEPT

Mobile Device Feedback							
Emp. ID & Name						Site : Zone : Date :	
Model	Rating	1 (Low)	2	3 (Med)	4	5 (High)	Additional Comments
Chainway MNTC-008-KEST MNTC-0001-TW	Screen Size						
	Screen Resoultion						
	Battery						
	Easy to use						
	Easy to carry						
	Ruggedness Level						
K71 Tablet 7 Inch MNTC-009-KEST	Screen Size						
	Screen Resoultion						
	Battery						
	Easy to use						
	Easy to carry						
	Ruggedness Level						
Blackview MNTC-006-KEST MNTC-007-KEST	Screen Size						
	Screen Resoultion						
	Battery						
	Easy to use						
	Easy to carry						
	Ruggedness Level						
Zebra MNTC-004-TW	Screen Size						
	Screen Resoultion						
	Battery						
	Easy to use						
	Easy to carry						
	Ruggedness Level						
Newland MNTC-002-TW	Screen Size						
	Screen Resoultion						
	Battery						
	Easy to use						
	Easy to carry						
	Ruggedness Level						

OUR PARTNER

Thiran Technologies

THIRAN is an IT Software Services company that delivers business solutions leveraging cutting edge technology & products to Enterprise clients. With THIRAN, Clients are assured of a best in class and cost-effective solution, Innovative & High-Quality Services

01

Global Presence

Presence in 4 Countries
(UAE, KSA, USA & INDIA)

02

Happy Customers

35+ Clients across the Globe

03

Domain Experience

450+ person years of experience
65+ SME's

04

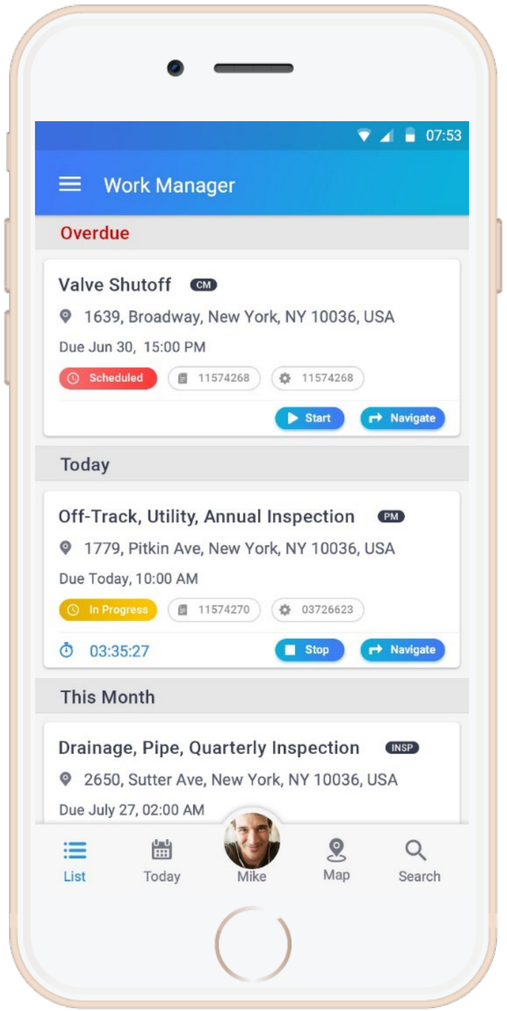
What we do

Technology Consulting, EAM Product Engineering, Blockchain, AI & Application Development Services

T-EAM MOBILE SUITE

T-EAM currently interacts with IBM's Maximo application system in both real-time (connected) as well as offline (disconnected) modes.

T-EAM currently provides functionality for approving PR, PO, Workorder & MR, Inventory, Work Execution and Inspection.



T-EAM Framework has been designed to integrate with Maximo using MIF

Built using Google's Flutter Framework (Hybrid) – Single code base

IBM Approved Mobile Solution for Maximo

T-EAM MOBILE SUITE

Work Execution App

Inspection App

Inventory App

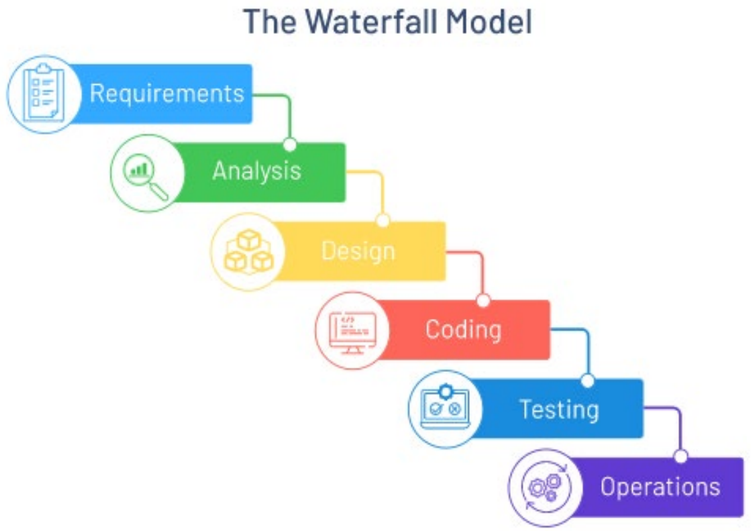
Manager's App

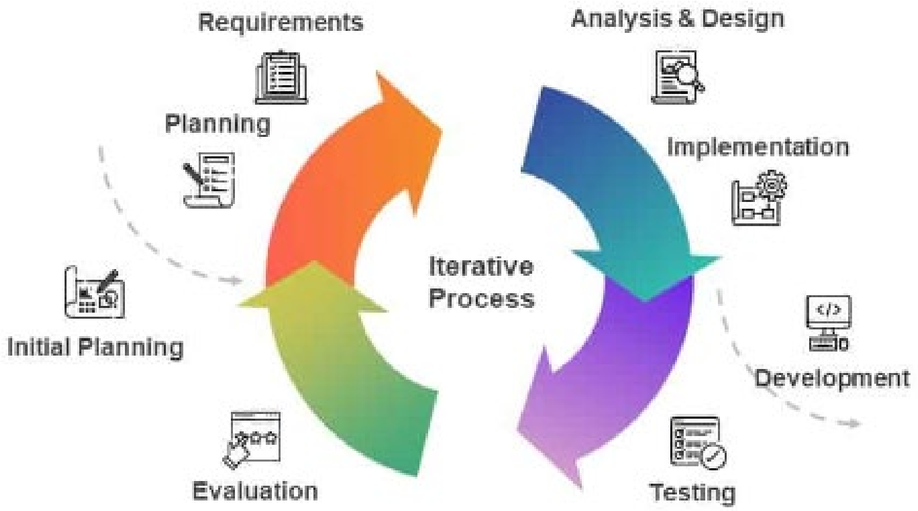
Asset Data Collection App

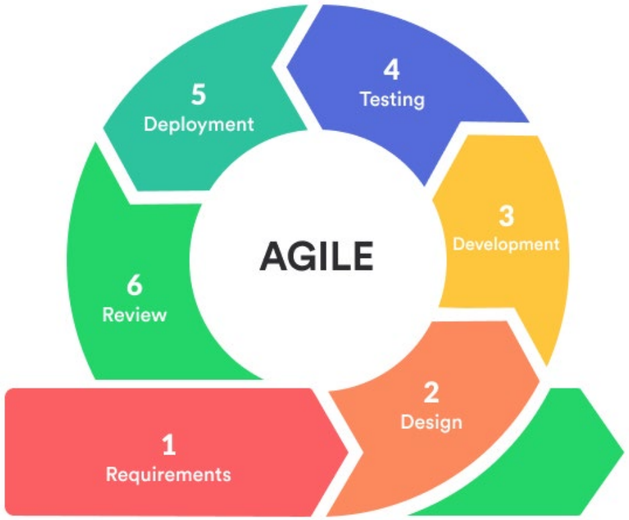
Thiran Technologies

100% Customizable to Fit Your Needs

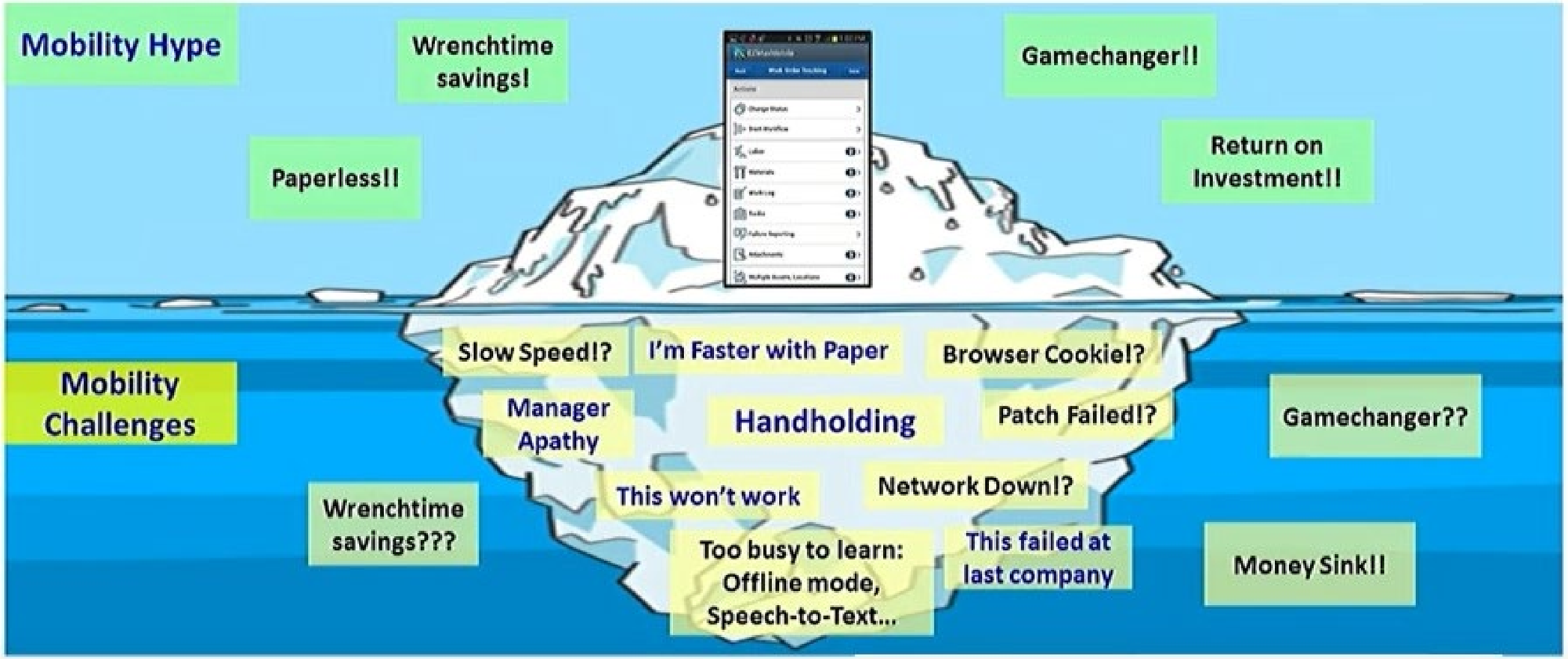
PROJECT IMPLEMENTATION







OUR EXPERIENCE



We have experienced "all of the above".

Maintenance at your Finger Tips

we really mean it !

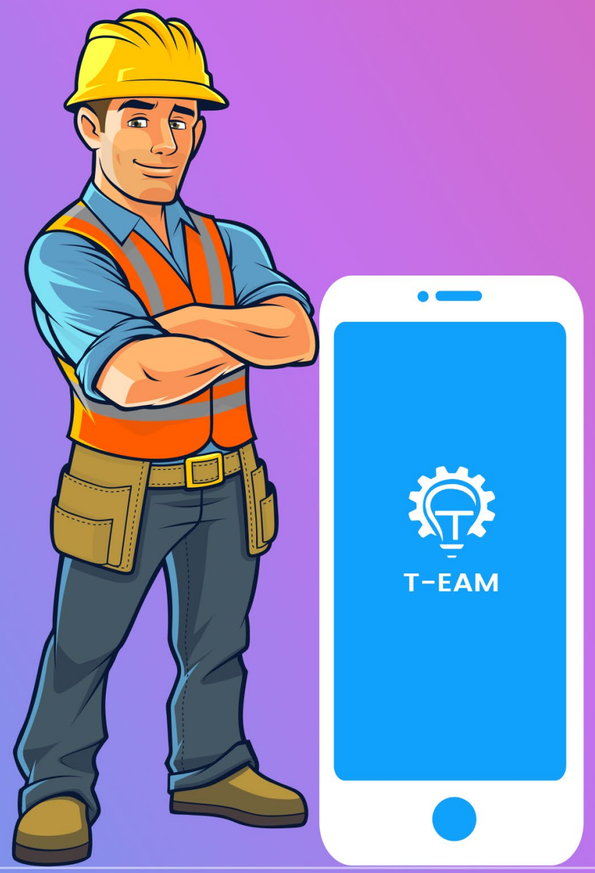
Photo and Documents Function
Take photos and attach or send easily documents with a single tap.

Offline Mode
Do your service activities in the field without interruption, even if a network connection is not available.

Work Day Schedule
See and overview all activities of your day and easily manage them. Technician Assignment, Status tracking etc.

Paperless
Enter all relevant order data, working times, execution details and more.

Material
Record Materials used for the work or request for additional materials.



SOP's Online
Online access to SOP's and many more.

Follow-Up WO (SRV & CM)
Create Follow-up (SRV & CM) & Service Request

Time Spent
Automatic capture of Time spent

Gaining More Time For Other Activities
Optimize your time and free yourself for other value-added activities, as the app can relieve you from a lot of planning work.

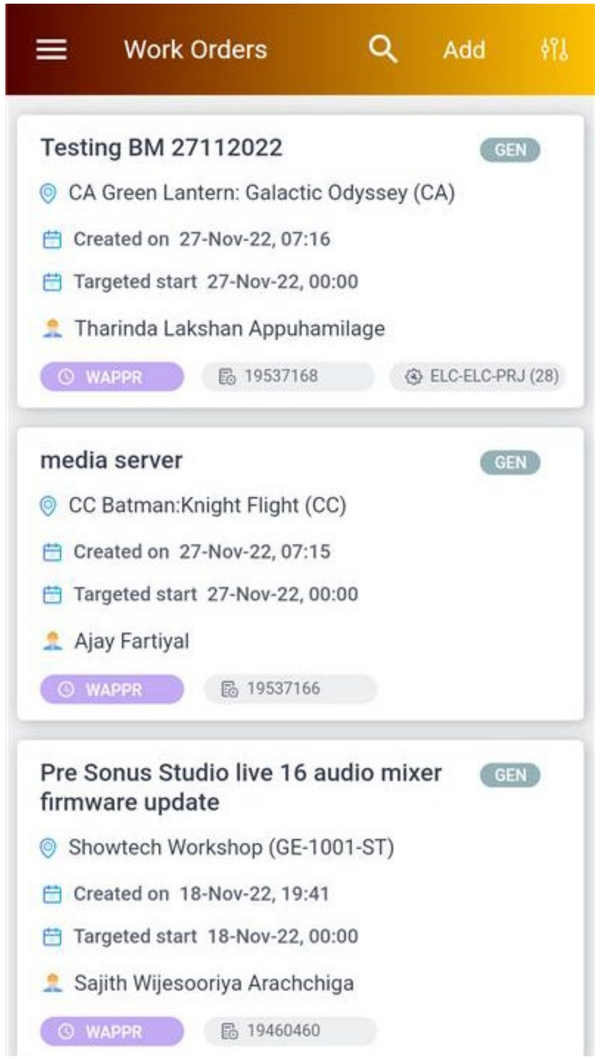
Improve Responsiveness
As a technical service team, react quickly and efficiently and remain competitive, with automated workflows combined with real time data.

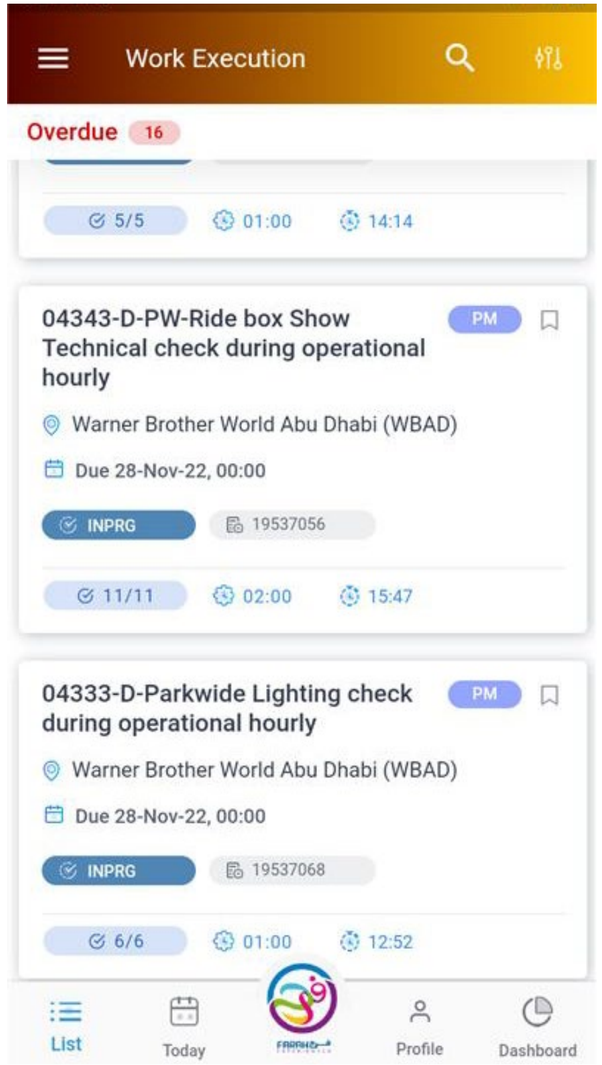
MIRAL Experiences

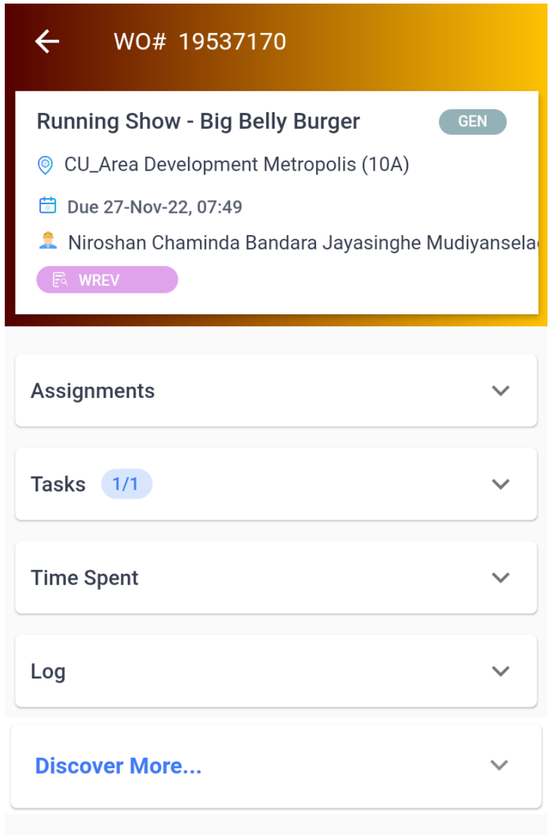
CURRENT PRACTICE

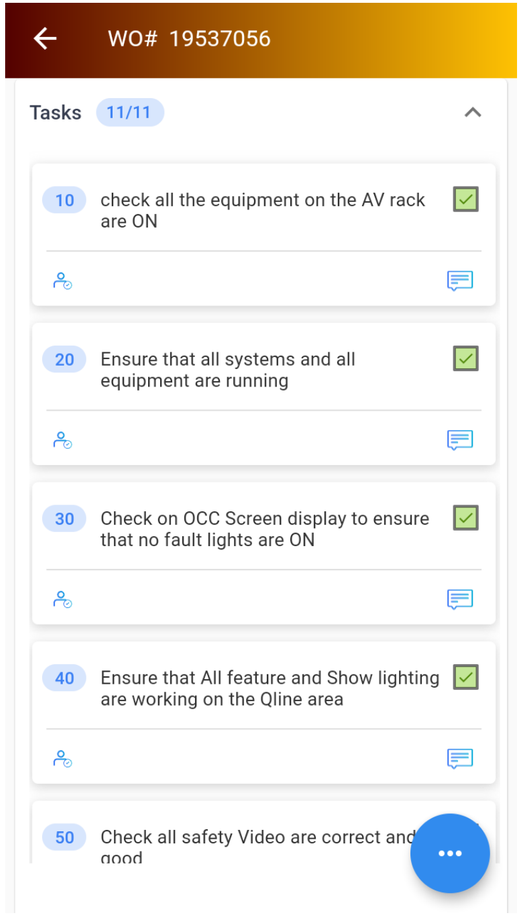
TEAM LEADER

T-EAM APPLICATION - WORK EXECUTION

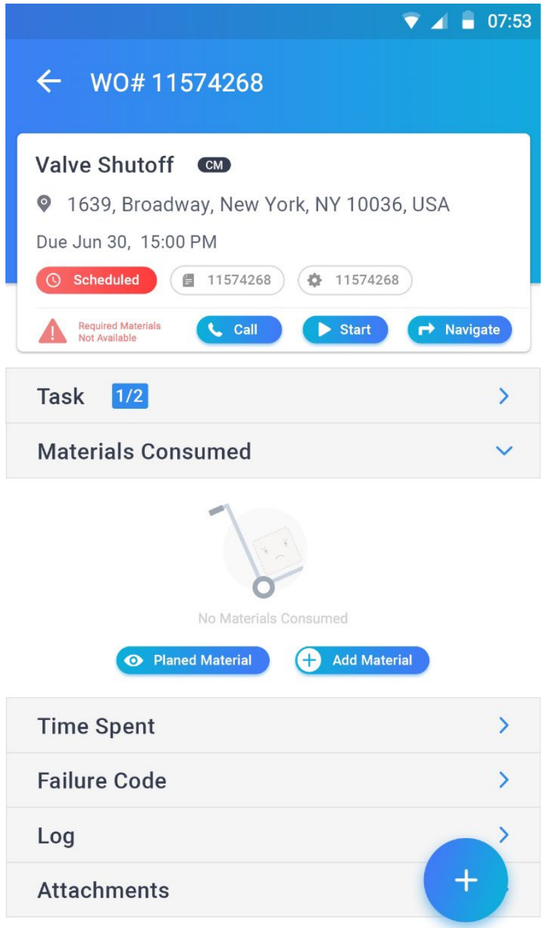


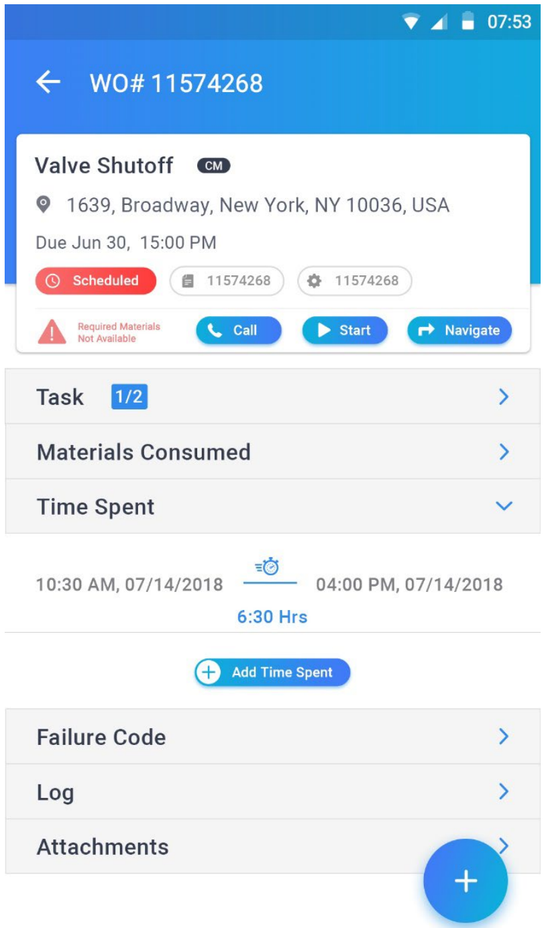


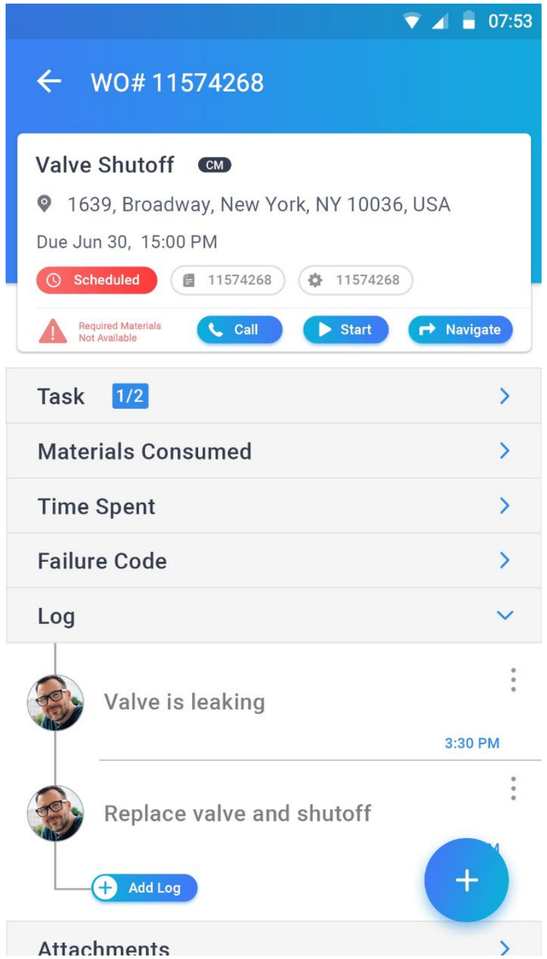


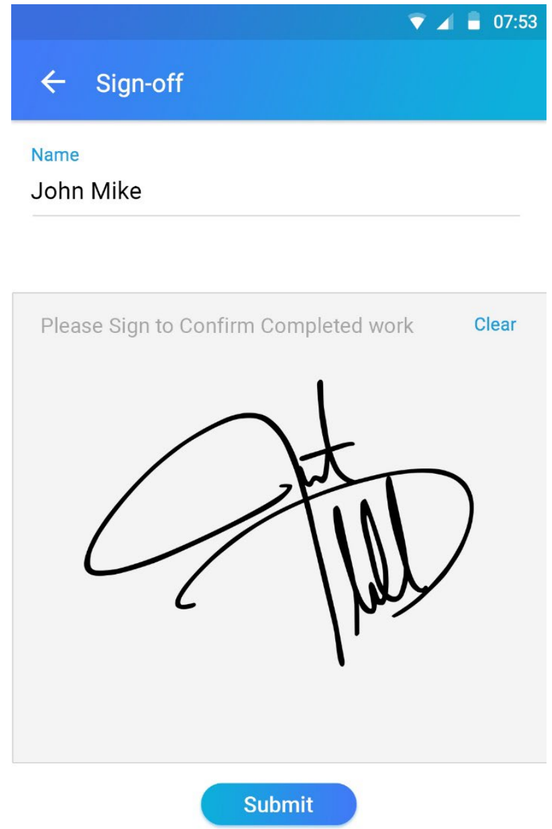


T-EAM APPLICATION - WORK EXECUTION









T-EAM APPLICATION – INVENTORY APP

The objective is to enhance our existing maintenance inventory management system by transitioning it to a fully automated mobile solution, leveraging Maximo technology.

Furthermore, we seek to innovate our warehouse inventory management by deploying the Maximo Mobile Solution.

This enhancement will tackle our present challenges, streamline manual processes, facilitate paperless transactions, and equip our organization with the efficiency, precision, and data-driven decision-making capabilities crucial for sustained success in a competitive marketplace.

SOLUTIONS

Issue Items to a work order using reservation list or without reservation list

This feature allows users to allocate items to a specific work order either by referencing a reservation list or without the need for a reservation list. It provides flexibility in managing inventory allocations for various work orders.

Goods Receipts against a PO

With this feature, users can receive goods against a purchase order. It ensures that received items are properly documented and accounted for in the inventory system, enabling efficient tracking of incoming inventory.

Carry out receipt inspections and asset serialization

This functionality enables users to perform inspections upon receipt of goods to ensure quality and accuracy. Additionally, it supports asset serialization, allowing each item to be uniquely identified and tracked throughout its lifecycle.

Return received items (Return to Vendor)

Users can utilize this feature to return received items to the vendor when necessary. It streamlines the return process, facilitating efficient management of vendor returns and ensuring accurate inventory records.

Receive the materials returned by maintenance team

This feature enables users to receive materials that have been returned by the maintenance team. It ensures that items returned for repair or replacement are properly documented and reintegrated into inventory.

Update the lot # of the receiving material by scanning the barcode

Users can update the lot number of received materials by scanning the barcode associated with each item. This functionality enhances accuracy and efficiency in lot tracking, ensuring compliance with regulatory requirements and quality standards.

Perform the inventory cycle count

This feature allows users to conduct periodic inventory cycle counts to verify the accuracy of inventory records. It supports inventory accuracy initiatives by identifying discrepancies and facilitating timely adjustments to inventory levels.

Review and reconcile the inventory balances

With this functionality, users can review and reconcile inventory balances to ensure accuracy and integrity of inventory data. It provides insights into inventory discrepancies, facilitating corrective actions to maintain optimal inventory levels and minimize stockouts or overstock situations.

Issue based on FIFO-FEFO method

Issuances

Issuances Return

Barcode Scanning

Reports

GRN

Goods Return

Cycle Count Approval

Quality inspection

Invoice Scanning

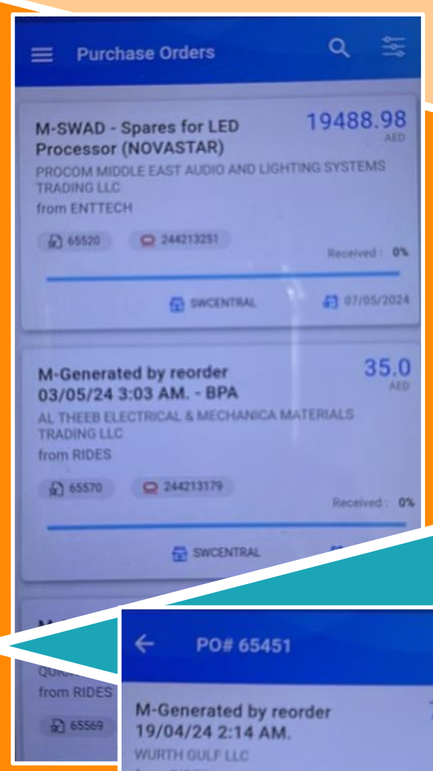
Cycle Count

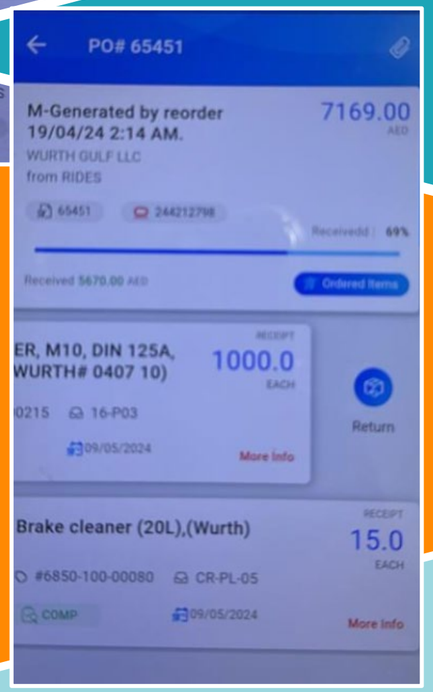
Expiry updating

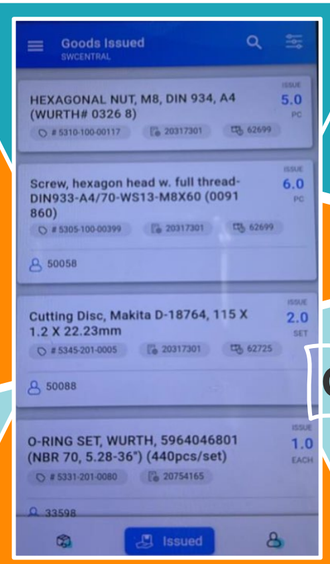
Lot number updating

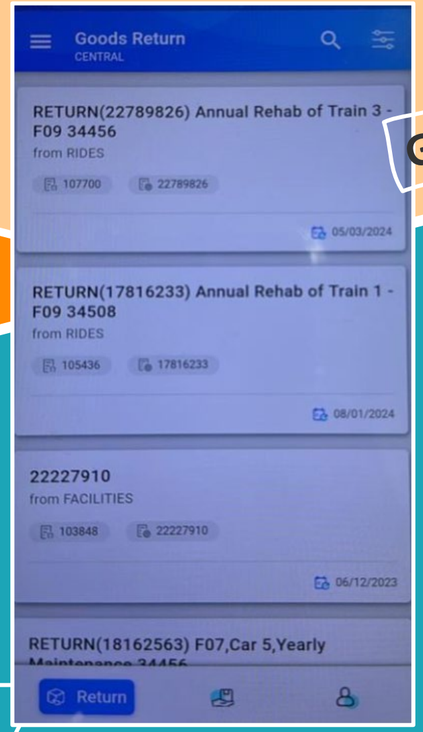
Issuer's digital signature via mobile

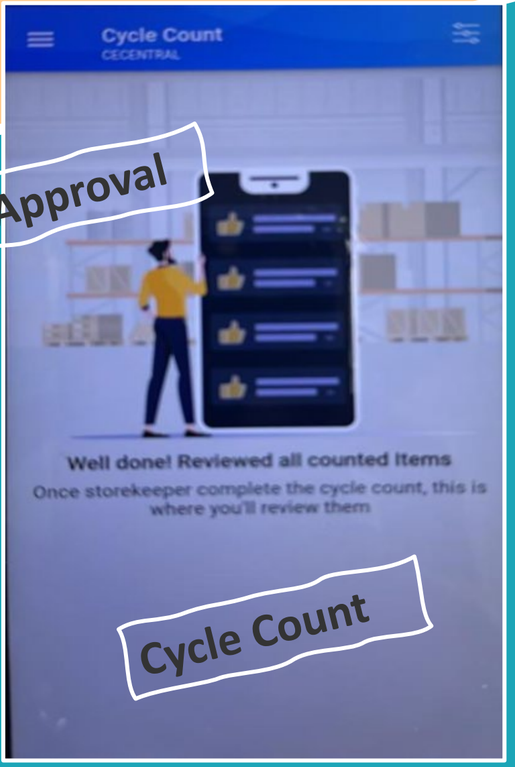
Receiver's digital signature via mobile











REPORTS

Yas Waterworld ABU DHABI

DAILY PREVENTIVE MAINTENANCE CHECKS POOL WATER TESTING

Date October 28, 2021

SAMPLING LOCATION	SAMPLING TIME	pH	Chlorine		oC / ppm	Inspected By	
			Free [ppm]	ORP [mV]		Tech	Name
16503288 - 036 Daily WP19 POOL A P101 Water Testing							
Controller	07:00 AM	7.35	4.00	824.00		33001	Aneesh Mon Baby Kutty
Pool	08:00 AM	7.40	4.00	826.00		33001	Aneesh Mon Baby Kutty
Pool	09:00 AM	7.35	4.00	828.00		33001	Aneesh Mon Baby Kutty
Temperature °C[0.1 hrs.]	09:00 AM				27.4	33001	Aneesh Mon Baby Kutty
Total Chlorine [0.1 hrs.]	09:00 AM				4.1	33001	Aneesh Mon Baby Kutty
Combine Chlorine [0.1 hrs.]	09:00 AM				0.1	33001	Aneesh Mon Baby Kutty
Controller	10:00 AM	7.35	2.20	820.00		33001	Aneesh Mon Baby Kutty
Pool	11:00 AM	7.40	2.60	802.00		33001	Aneesh Mon Baby Kutty
Controller	12:00 PM	7.35	2.40	800.00		33001	Aneesh Mon Baby Kutty
Pool	01:00 PM	7.40	797.00	2.20		33001	Aneesh Mon Baby Kutty
Controller	02:00 PM	7.40	3.40	799.00		33001	Aneesh Mon Baby Kutty
Pool	03:00 PM	7.45	2.00	794.00		33465	Victoria Shikoyeni
C.Hardness[0.1 hrs.]	04:00 PM				500	33465	Victoria Shikoyeni
Pool	04:00 PM	7.55	3.60	802.00		33465	Victoria Shikoyeni
T.Alkalinity [0.1 hrs.]	04:00 PM				75	33465	Victoria Shikoyeni
TDS	04:00 PM				3920	33465	Victoria Shikoyeni
Temperature °C[0.1 hrs.]	04:00 PM				28.9	33465	Victoria Shikoyeni
Total Chlorine [0.1 hrs.]	04:00 PM				4	33465	Victoria Shikoyeni
Combine Chlorine [0.1 hrs.]	04:00 PM				0.4	33465	Victoria Shikoyeni
Saturation Index	04:00 PM				0.15	33465	Victoria Shikoyeni
Controller	05:00 PM	7.55	3.90	811.00		33465	Victoria Shikoyeni
Controller	07:00 PM	7.20	3.30	820.00		33465	Victoria Shikoyeni
Pool	08:00 PM	7.20	3.50	823.00		33465	Victoria Shikoyeni
Temperature °C[0.1 hrs.]	09:00 PM				28	33465	Victoria Shikoyeni
Pool	10:00 PM	7.30	3.20	820.00		33465	Victoria Shikoyeni
Pool	02:00 AM	7.20	3.40	826.00		33476	Ajit Kumar Swain

REPORTS

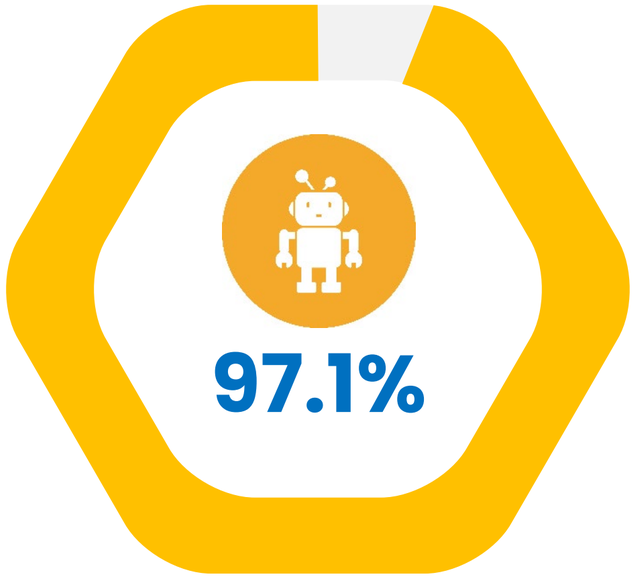
Breakdown Maintenance Report - SWAD

WO Num	Description	Work Type	Location	Location Description	Asset Num	Status	Zone	Down Time Start From	Down Time Start To	Down Time Duration	Failure Class	Problem Code	Problem Details	Cause Code	Cause Details	Remedy Code	Remedy Details	Site
25441305	Eel Racer, Ride, Dispatch Enable Push Button Discrep	BM	MO2A	EEL RACER - MICRO OCEAN	MO2A-RIDE-1	COMP	RIDES	May 8, 2024 4:50:00 PM	May 8, 2024 4:53:00 PM	00:03	ELECTRICAL	RIDEBRKDOWN	Warning 6.16 - Dispatch En	OPERATION	operator mistake	RESET	fault reset done ride handover to ops	SWAD
25441228	Eel Racer, Ride, Dispatch Enable Push Button Discrep	BM	MO2A	EEL RACER - MICRO OCEAN	MO2A-RIDE-1	COMP	RIDES	May 8, 2024 2:43:00 PM	May 8, 2024 2:46:00 PM	00:03	ELECTRICAL	OTHERS	Warning 6.16 - Dispatch En	OPERATION	Operator didn't press the di	RESET	Reset the fault and handed	SWAD
25441287	Jelly Plunge, Ride, Fast Descent Command Valve 1 ar	BM	MO2B	JELLY PLUNGE - MICRO OCEAN	MO2B-RIDE-1	COMP	RIDES	May 8, 2024 2:21:00 PM	May 8, 2024 4:14:00 PM	01:53	ELECTRICAL	RIDEBRKDOWN	Due to Alarm [CLOS,2.23]	MAINTENANCE	Contactors were faulted	REPLACE	Replaced the contactors wi	SWAD
25441319	Hypersphere360, Ride, ASI Gateway Peripherie Fault,	BM	PO2A	HYPERSPHERE 360 (AR2A) - POL	PO2A-RIDE-1	COMP	RIDES	May 8, 2024 5:47:00 PM	May 8, 2024 5:50:00 PM	00:03	ELECTRICAL	RIDEBRKDOWN	90+RCP1-U4 ASI Gateway	MAINTENANCE	ASI Gateway Peripherie Fau	RESET	Reset the fault Handover to ops	SWAD
25436050	Hypersphere 360,Ride, ASI gateway peripherie fault,	BM	PO2A	HYPERSPHERE 360 (AR2A) - POL	PO2A-RIDE-1	COMP	RIDES	May 8, 2024 10:44:00 AM	May 8, 2024 10:47:00 AM	00:03	ELECTRICAL	RIDEBRKDOWN	90+RCP1-U2 Restraints AS	OPERATING	while lapbar closings time fa	RESET	Reset.	SWAD
25441275	Hypersphere 360, Ride. ASI Gateway Peripherie Fault	BM	PO2A	HYPERSPHERE 360 (AR2A) - POL	PO2A-RIDE-1	COMP	RIDES	May 8, 2024 4:19:00 PM	May 8, 2024 4:21:00 PM	00:02	ELECTRICAL	RIDEBRKDOWN	90+RCP1-U2 Restraint ASI	MAINTENANCE	ASI Gateway Peripherie Fau	RESET	Reset the fault Handover to ops	SWAD
25441215	Hypersphere 360, Ride, ASI Gateway peripherie fault	BM	PO2A	HYPERSPHERE 360 (AR2A) - POL	PO2A-RIDE-1	COMP	RIDES	May 8, 2024 2:46:00 PM	May 8, 2024 2:49:00 PM	00:03	ELECTRICAL	RIDEBRKDOWN	90+RCP1-U2 Restraints AS	OPERATING	while lap bar closings time f	RESET	Reset.	SWAD
25436056	Hypersphere 360, Falsefloor, Overspeed down, Repos	BM	PO2A	HYPERSPHERE 360 (AR2A) - POL	PO2A-RIDE-1	COMP	RIDES	May 8, 2024 11:30:00 AM	May 8, 2024 11:35:00 AM	00:05	ELECTRICAL	RIDEBRKDOWN	due to the Falsefloor when	OPERATING	while the Falsefloor is comir	RESET	Repositioned the Falsefloor	SWAD
25441314	Hypersphere360, Ride, False floor Encoder Speed Dis	BM	PO2A	HYPERSPHERE 360 (AR2A) - POL	PO2A-RIDE-1	COMP	RIDES	May 8, 2024 4:53:00 PM	May 8, 2024 5:14:00 PM	00:21	ELECTRICAL	RIDEBRKDOWN	Falsefloor Encoder speed Discrepancy 21+MCC4-U1 Rotation	MAINTENANCE	Discrepancy fault. Drive motion command fault.	RESET	Reset the fault Handed over to ops	SWAD
Totals										02:36								

OUTCOME

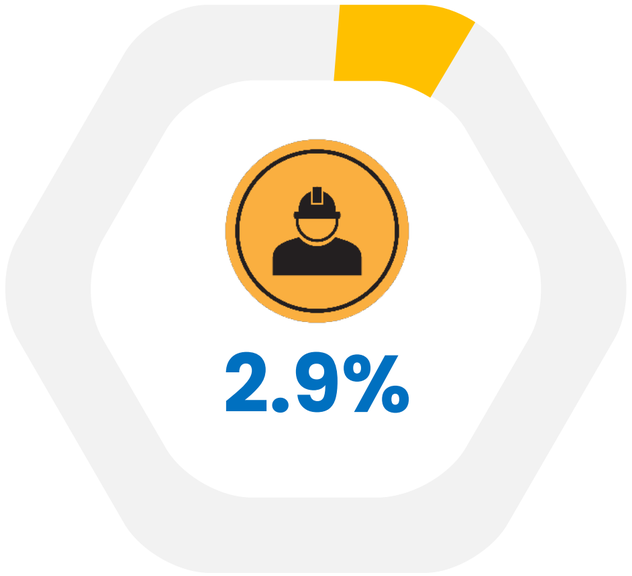
71,671 Labor Actuals were encoded to Maximo in a month

Auto Labor Entries



VS

Manual Labor Entries



69,650

2,021

69,650 Labor Actuals were encoded using Maximo Mobile Solution across all Sites and Zones.

2,021 Labor Actuals were encoded manually across all Sites and Zones.

COGNITIVE DASHBOARD – FUTURE IMPROVEMENTS

ASSET & GEO TAGGING – FUTURE IMPROVEMENTS

Q
A

THANK YOU!