



Rotating Equipment Maintenance Dashboard

Data & Analytics (DNA) Team



EXECUTIVE SUMMARY

With the support of the Data & Analytics team, we have developed a centralized Equipment Maintenance Tracker application to digitize and streamline maintenance operations for rotating equipment. The system is designed to improve visibility, reduce manual efforts, and ensure compliance through real-time tracking and standardized workflows.

This demo will cover:



Introduction and architecture of the Equipment Maintenance Tracker.



Live demonstration of core functionalities.



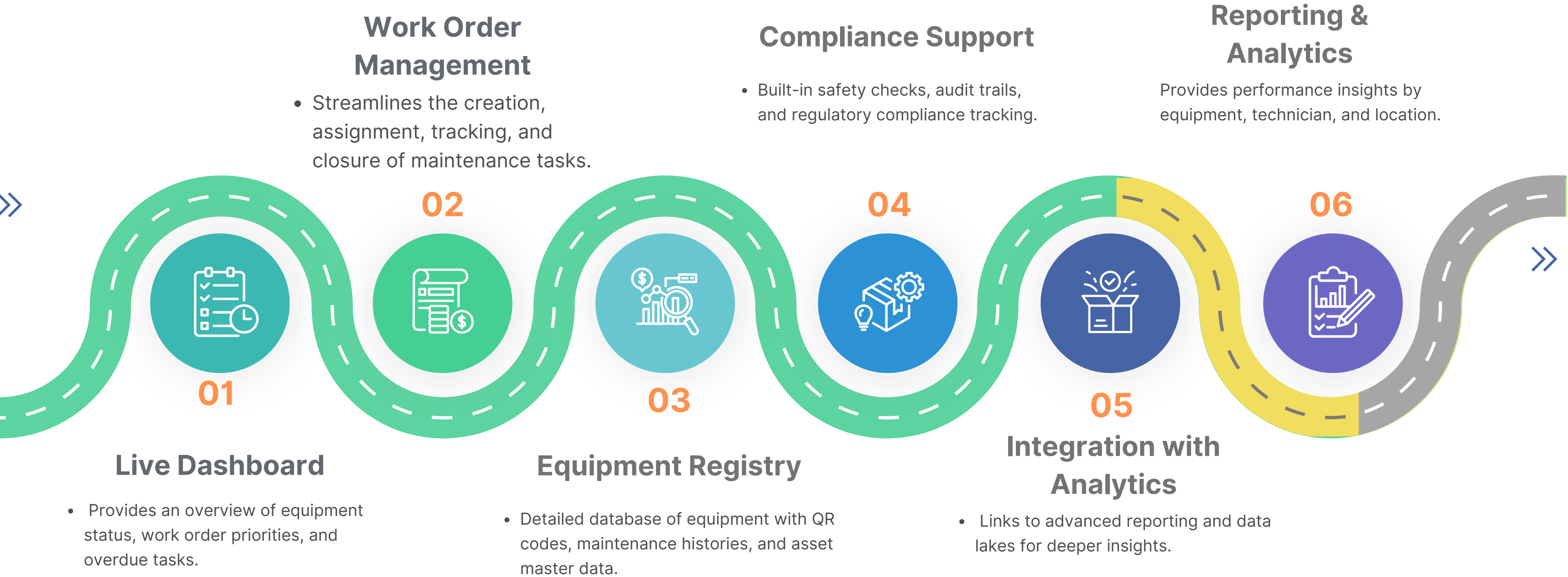
Feedback collection to guide next steps.



Status updates on two other key initiatives: the Maintenance Activity Portal and AI-powered Smart Suggestion System (SSS)

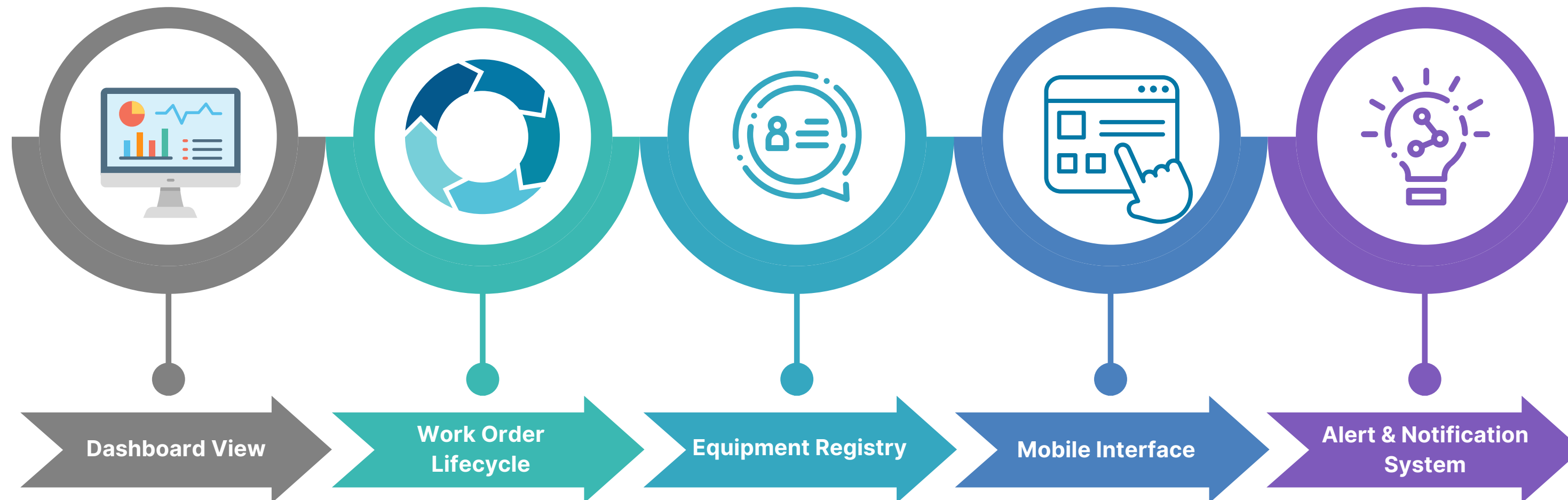
Equipment Maintenance Tracker – Overview

The Equipment Maintenance Tracker is a web-based solution developed to improve how we manage our rotating equipment. It ensures better planning, monitoring, and reporting of maintenance activities.



LIVE DEMO – APPLICATION IN ACTION

This demonstration will walk you through key components of the system



- An **interactive visual summary** of active, overdue, and completed maintenance tasks. **KPIs such as average turnaround time, backlog, and compliance rates** are also displayed.

- Walkthrough of creating a work order, **assigning it to the appropriate technician**, updating the status during execution, and closing with remarks and **checklist completion**.

Accessing detailed information about specific machines, including **previous work orders**, upcoming schedules, and **QR code scanning** for mobile access.

- A technician's view that supports field updates, even in **low-network conditions**, with seamless sync when back online.

- Demonstrating how the system sends **real-time alerts** and notifications for overdue tasks, maintenance reminders, and urgent issues. This ensures that **technicians and managers** are promptly informed of any critical maintenance actions that need attention.

PROJECT TIMELINE

Phase:
1

Equipment Maintenance Tracker

Status :  Completed

Target Completion: June 2025

Phase:
1

Maintenance Activity Portal

Status :  80% Complete

Target Completion: August 2025

Phase:
1

AI-powered SSS

Status :  Completed

Target Completion: May 2025

Phase:
2

AI-powered SSS

Status :  In Progress

Target Completion:

Phase:
3

AI-powered SSS

Status :  Planned

Target Completion: Q4 2025

FEEDBACK & NEXT STEPS

We value the input of the Maintenance Team in ensuring this solution is tailored to your daily workflows and operational needs.

Feedback Discussion Points:

- Are the KPIs and dashboard views aligned with your daily priorities?
- Is the work order flow intuitive and efficient?
- Are there additional reports or features that could add value?
- Any gaps in compliance tracking or documentation?

Next Steps:

- Incorporate suggested refinements from today's session.
- Complete mobile enhancements and finalize portal testing.
- Launch Equipment Maintenance Tracker for full departmental use.
- Progress AI-powered SSS into Phase 2 with predictive capability.
- Plan rollout of the Maintenance Activity Portal following final UAT.



Thank You



Qatar Petrochemical Company

Team : Digital Team, QAPCO

Leader : Head of Data & Analytics

Presenter: Data Architect

For Your Attention!

