

Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.



Agenda

- Thoughts on The Future of Maintenance Practice and Systems
- Oracle Maintenance Cloud
- Maintenance Cloud Customers
- Quick Tour Demo
- Maintenance Cloud Development Roadmap
- Q & A

The Future of Maintenance Practice and Systems

Lights Out

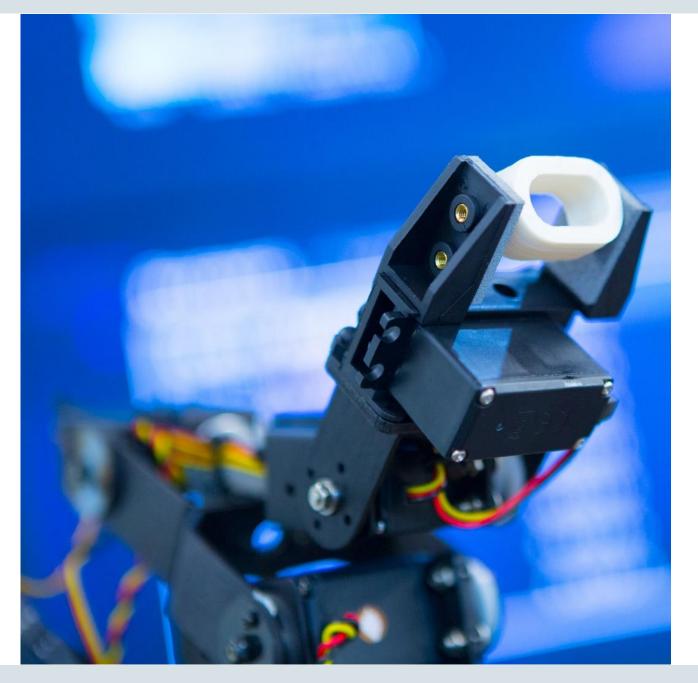




Younger Workforce



Robots



Robot Digression...

• We don't have time for this 12 minute video, but, I highly recommend checking it out to understand the state of the art and range of robot applications:

https://www.youtube.com/watch?v=8vIT2da6N_o

We do have time for this 30 second video:

https://www.youtube.com/watch?v=LikxFZZO2sk

Cautionary bonus:

https://www.youtube.com/watch?v=KxaWvJziXA&t=0s&index=9&list=FLVgsVQL 3SwO4u-k-uIZ9zw



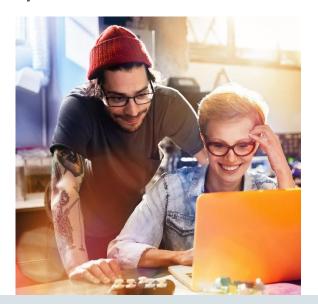
Smarter Machines



Will We All Need to be Data Scientists?

- Technical Skills
 - Degreed in Statistics, Computer
 Science, or Engineering
 - Experience
 - Statistical Analysis
 - Data Mining
 - Programming
 - Structured and Unstructured Data

- Business Skills
 - Communication
 - Collaboration
 - Problem Solving
 - Curiosity and Intuition





What These Trends Mean for Maintenance Systems

- Must be more intuitive and easier to use
- More direct machine integration
- Systems will be used for query and analysis more than transactions
- Use of machine learning and AI for predictions and recommendations
- Must be deployed in the cloud to keep up with technology innovation





Why Software Must be in the Cloud

- What happens after you select and install on-premise software?
 - You don't update it for at least 3-5 years
- What happens when you buy and install a smart phone app?
 - It is updated and improved regularly

- Cloud software is updated and improved regularly and, better than a smart phone, you don't need to worry about the hardware.
- Cloud software grows in value over time.



Oracle Maintenance Cloud Ready for the Future Today!



Oracle Maintenance Cloud Part of the Integrated Oracle SCM Cloud

Supply Chain Cloud Broader, simpler footprint **IDEATE-TO-**

PLM / Quality

Inventory Orchestration Internet Of Things

Cost / **Financials**



COMMERCIALIZE

Innovate Innovation Management

Project Management

Product Development

Product Hub

Commercialize



SOURCE-TO-SETTLE Source

Contract

Purchase

Settle

Sourcing & Contracts

Supplier Qualification Management

Purchasing

Make

Repair

Develop

Self-Service & Supplier Portal

Pavables



ORDER-TO-CASH **Capture**

Promise

Orchestrate

Deliver

Order Management

Supply Chain Planning

Asset Management

Configurator

Global Order Promising

Inventory & Shipping



PLAN-TO-**PRODUCE (MOM)** Plan

Manufacturing & Quality

Inventory & Costing

Supply Chain Orchestration

Optimize

Optimize



MAINTAIN-TO-OPTIMIZE Plan

Maintenance

Inventory & Costing

Analyze Performance



Oracle Maintenance Cloud



Yesterday's SCM Won't Get You There

Traditional legacy, on premise SCM

Heavy customization

SaaS 1.0 complements

YESTERDAY

TOMORROW

Complete and Connected, Intelligent Cloud Suite

A business innovation and transformation platform with applied emerging technologies

Continuous access to innovation











Maintenance Cloud Benefits

Control Costs and Improve Productivity

An enterprise approach to asset management can result in increased system reliability, extension of the life of current assets and lower service costs

ORACLE' Maintenance Cloud

Knowledge Capture and Insight

Powerful new technological capabilities give workers new visibility and insight to capture and optimize maintenance operations and processes

Promote Sustainability

Reduce energy use and enhance environmental sustainability by more effectively managing assets

Manage Risk and Ensure Safety

Provide visibility and control over critical assets that affect risk, compliance and business performance



Comprehensive Support for Maintenance

Asset Definition

- Asset Identification
- Reference Information
- Parts Lists
- Location
- Asset History

Work Orders

- Work definition
- Parts Lists
- Resource Requirements
- Work Dispatch list
- Material and resource transactions
- Transaction history



Inventory Management

- Receiving
- Stock Management
- Replenishment
- Physical Inventory Management
- Optional Lot and Serial Control of Parts

Cost Management

- Cost by work order
- Configurable cost methods and rules
- Flexible accounting
- Cost history and analysis



Maintenance Cloud Vision

Prescriptive Maintenance

Relies on information provided by predictive methods to identify problems and identify root cause of failure.

Goal: Identify problems and isolate the source of the failure.

Predictive Maintenance

Equipment condition rather than time intervals determines the need for service.

Goal: correct the problem before the equipment actually fails can save time and money and avoid downtime and repair costs.

Reactive Maintenance

Oldest maintenance approach
Goal: Equipment isn't repaired until its broken.

Leads to costly downtime, higher maintenance costs, safety hazards.

Preventive Maintenance

Time-based or planned maintenance.

Goal: Maintain equipment in a healthy condition.

Wasteful, may lead to over servicing or under servicing, higher inventory costs.



IOT ENABLED SUPPLY CHAIN **INSIGHT-DRIVEN**



CLOUD BASED SAAS APPLICATIONS REDUCE TIME TO VALUE

DETECT

Device Signals

ANALYZE

Business Events

ACT

IoT Devices

Building Sensors













Equipment





Mobile Devices





IoT Cloud Applications

Asset Monitoring





Fleet

Monitoring











Application Clouds

Revenue and Billing







Manufacturing



Service



Asset Monitoring



Production Monitoring



Fleet Monitoring



Connected Worker



Service Monitoring for Connected Assets



Oracle Maintenance Cloud Customers

Wonderful Citrus

Wonderful citrus...

A division of The Wonderful Company and the largest vertically integrated grower, packer and shipper of fresh citrus

Challenge

The Wonderful company was facing a global business transformation challenge including an ERP re-implementation to address growing pains. Its overall strategy to move to an all-Cloud solution enables the flexibility and scalability it needs to grow.

Solution

Oracle SCM Cloud:

- Oracle Logistics Cloud
- Oracle Manufacturing & Maintenance Cloud
- Oracle Order Management Cloud
- Oracle Procurement Cloud

Oracle ERP Cloud:

- Oracle Financials Cloud
- Oracle Project Portfolio
 Management Cloud

Result

 Expected to leverage a Cloud solution that will provide scalability and ease of bringing on acquisitions



Oracle Maintenance Cloud Quick Tour Demo



Oracle Maintenance Cloud Development Roadmap

Maintenance Cloud Updates

- Quarterly Update Cycle
- Every Customer takes updates during the same month of each quarter
- New Features are "Op In"
- Quarterly Updates are like a the Monthly and Quarterly Financial Close

Oracle Applications: Current Release & Roadmap

Oracle Maintenance Cloud

Current Release 18C

Overall

- Applications Extensibility (AppsComposer, REST)
- Expanded OTBI
- Customer Enhancements

Maintenance Management

- Enhanced Asset Definition Asset 360
 - Physical Asset Hierarchy
 - Descriptive Flex Field Support
 - Support for Images
 - Single UI for All Assets
- Meter-Based Maintenance Programs
- Resource Instances
- Meter Reading Transaction History
- ERES for Maintenance Exceptions
- Import Work Definition

Internet of Things

- MNT Programs IoT-Based Conditional Events
- MNT Programs Optimization Using Machine Learning

Next

Overall

- Applications Extensibility (AppsComposer, REST)
- Expanded OTBI
- Customer Enhancements

Maintenance Management

- Maintenance Parts Procurement
- Support for Multi-ORG Asset
- User Defined Work Order Statuses
- Parts Removal and Replace User Interface
- Work Requests
- Quality Inspections
- Cost Roll-Up by Asset
- ERES for Work Order Completion
- · HCM Integration (Resource Validation)
- Work Order Status Chat Bot

Internet of Things

- Enhanced MNT Programs Optimization Using Machine Learning
- Support for Sensor Based Predictive MNT
- Real Time Asset Performance Display
- Automated Meter Reading Update

Future

Overall

- Applications Extensibility (AppsComposer, REST)
- Expanded OTBI
- Customer Enhancements

Maintenance Management

- Work Order Workflow Approval Framework
- Work Order Cost Estimating
- Asset Configuration Management
- Multiple, Logical Relationships
- Fixed Asset Integration
- **Projects Integration**
- Meter Template Management
- Batch Repairs
- Failure Analysis
- Resource Crews
- Regulatory Work Order Requirements
- Supplier Warranty

Internet of Things

Enhanced Machine Learning



Oracle Maintenance Cloud A final word from our sponsor

The Modern Business Experience

Don't miss the most important Oracle Maintenance Cloud Conference of 2019. Hear from live customers as they share their experience in the Cloud.

Register now at oracle.com/limitless

Presented by **ORACLE**

March 19–21, 2019
LAS VEGAS

Define the Future of Finance, HR, and Supply Chain



Get More Information

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Questions





ORACLE® Maintenance Cloud

ORACLE®