



5 new out-of-the-box functionalities available for users of
SAP Asset Management in SAP S/4 HANA Cloud
Kevin Avila, Senior Manager, Ernst & Young, LLP
Session ID # ASUG82953

About the speaker

Kevin Avila

- Senior Manager, EY
- Nine years of SAP plant maintenance implementations for clients in the food and beverage, manufacturing, mining, oil and gas, and utilities industries.
- I graduate this Friday with my MBA from Rice University!

SAP Certifications

SAP Certified Application Associate –
Enterprise Asset Management
(Maintenance & Repair) with SAP ERP 6.0
EHP5

SAP Certified Application Associate –
Human Capital Management with SAP ERP
6.0 EHP4

Key outcomes/objectives

1

Understand the difference between SAP S/4 HANA Cloud and SAP S/4 HANA On-Premise

2

Learn how Fiori is changing the way maintenance personnel are using SAP

3

Utilize the customer influence process to help SAP prioritize future development

Agenda



Start

Mountain Pass
Materials at a
glance and project
overview

Understanding
the difference
between SAP S/4
HANA Cloud and
SAP S/4 HANA
On-Premise

Review new Fiori
maintenance
functionality
available for EAM
users

Finish

Learn how you can use
customer influence to
help SAP prioritize
future development

Mountain Pass Materials at a glance

MP Materials owns and operates Mountain Pass, the only **Rare Earth mining** and processing site in North America. The mine is located in Mountain Pass, California which is 55 miles south of Las Vegas.

Mountain Pass' bastnaesite ore is one of the world's highest quality Rare Earth deposits. The mine started production in 1952 and from the 1960s through the mid-1980s, it was the dominant source of Rare Earth minerals in the world. More recently, Chinese Rare Earth production has grown to account for 85% of the global supply, and Rare Earth mining and processing stopped in the United States.

Products that use Rare Earth elements



Porsche Mission E



Windmills



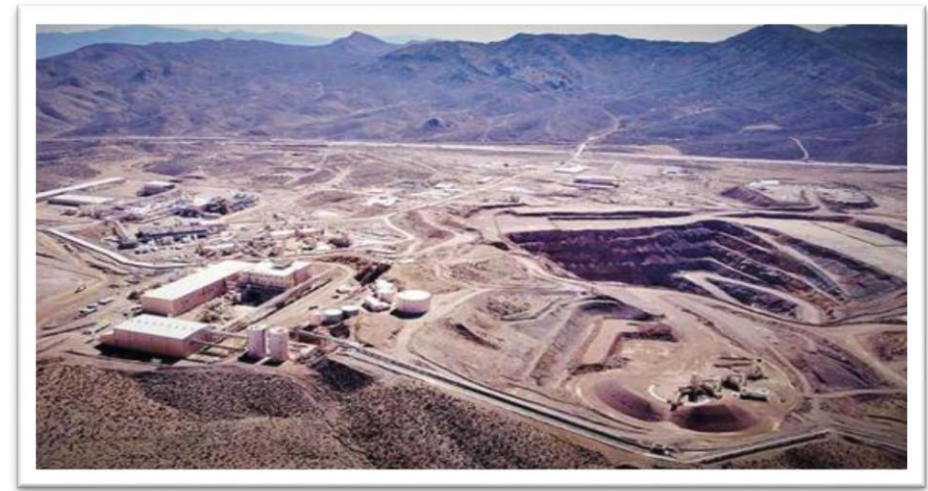
Jet **engines**



False **teeth**



Speakers



Company
background

Implementation

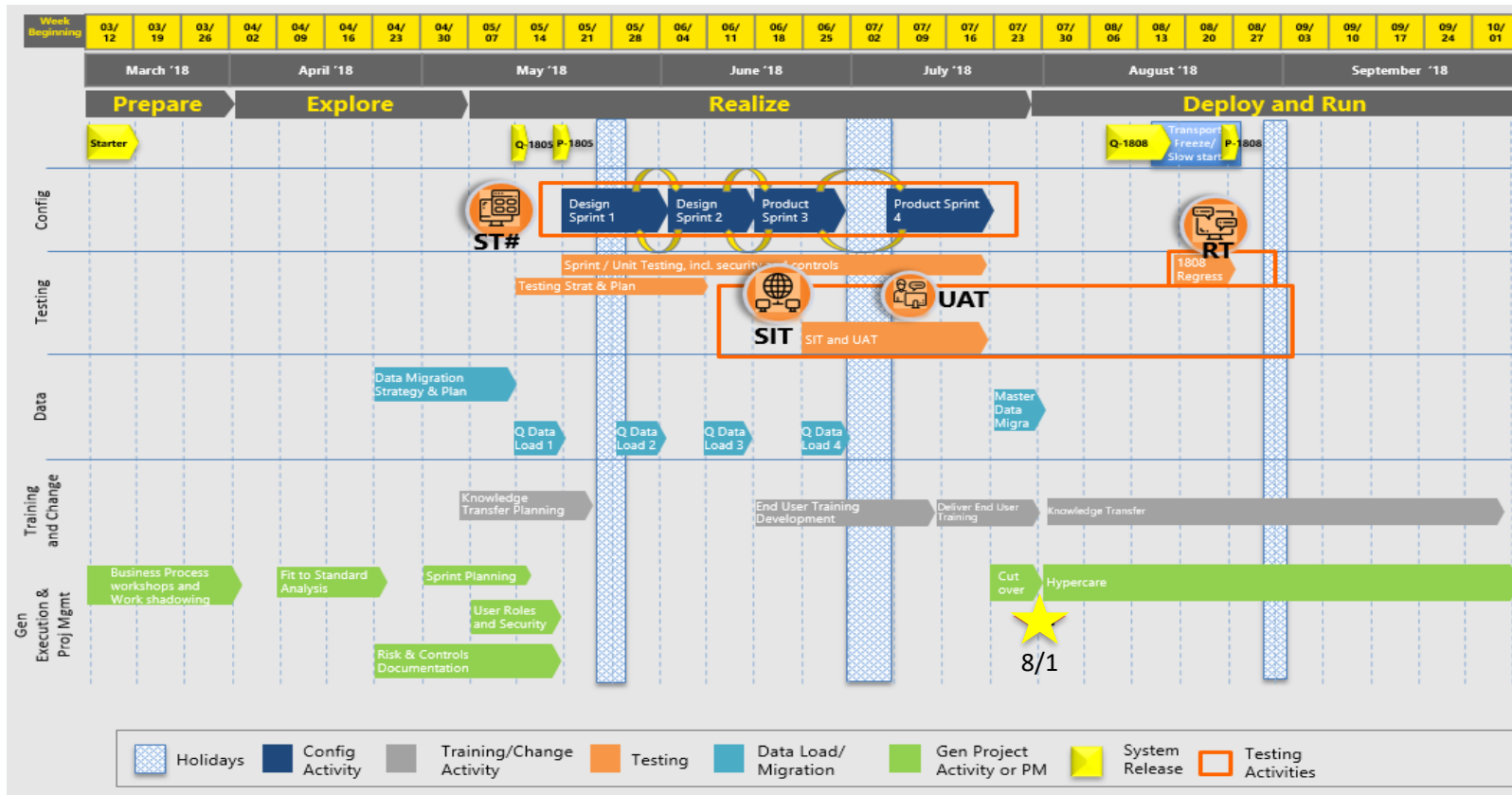
Cloud vs.
On-Premise

New EAM
functionality in
Fiori

Customer
Influence

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Mountain Pass Materials went live with SAP S/4 HANA Cloud on August 1, 2018



Project highlights

- First successful end-to-end implementation of SAP S/4HANA Cloud
- Processes included: Asset management (plant maintenance), production, inventory, quality, sales and distribution, sourcing and procurement, environmental health and safety, project systems and finance
- Asset management, finance, procurement, inventory, and sales and distribution went live in **5 months**
- Production and quality management went live in **7 months**

Company
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Implementation

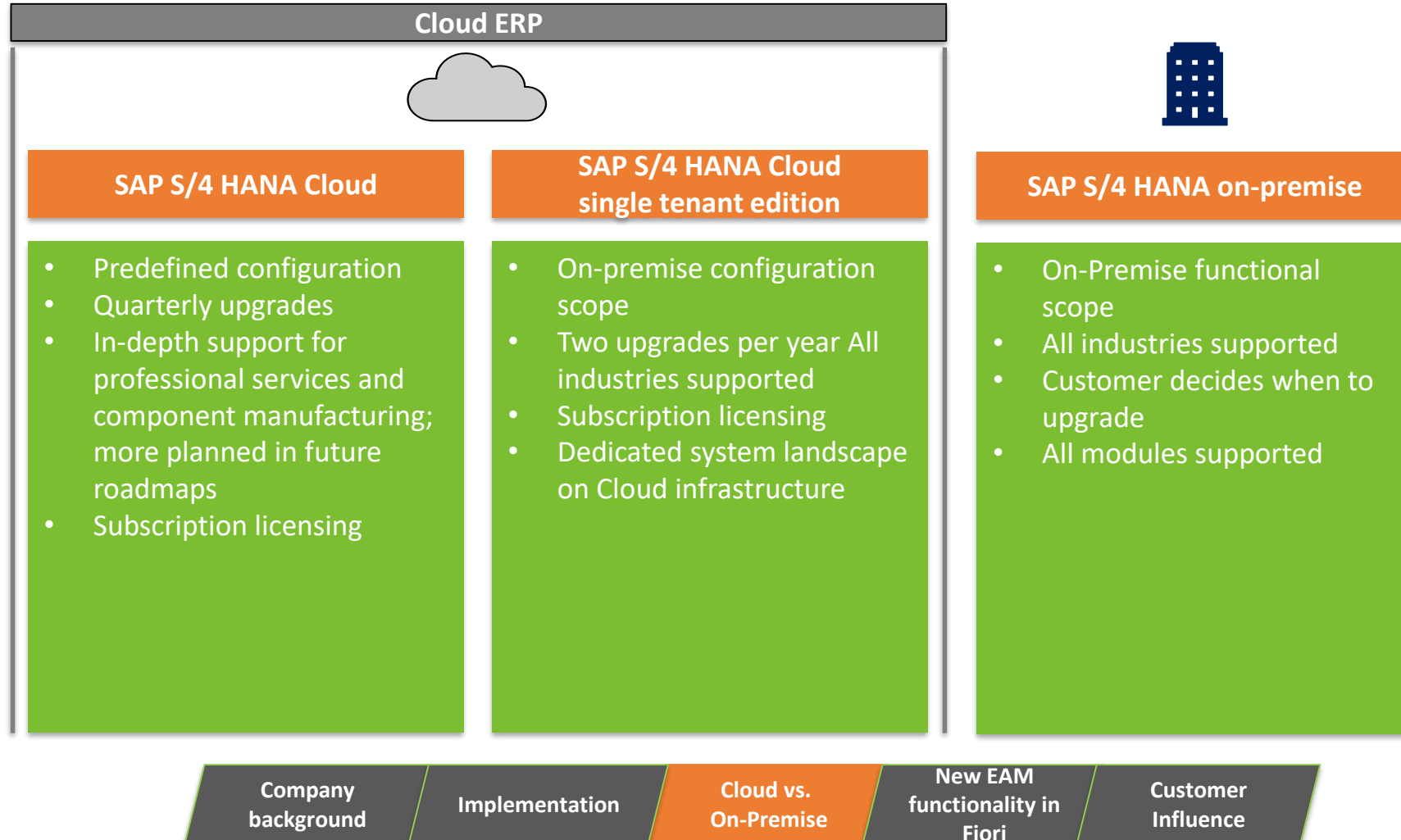
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Customer
Influence

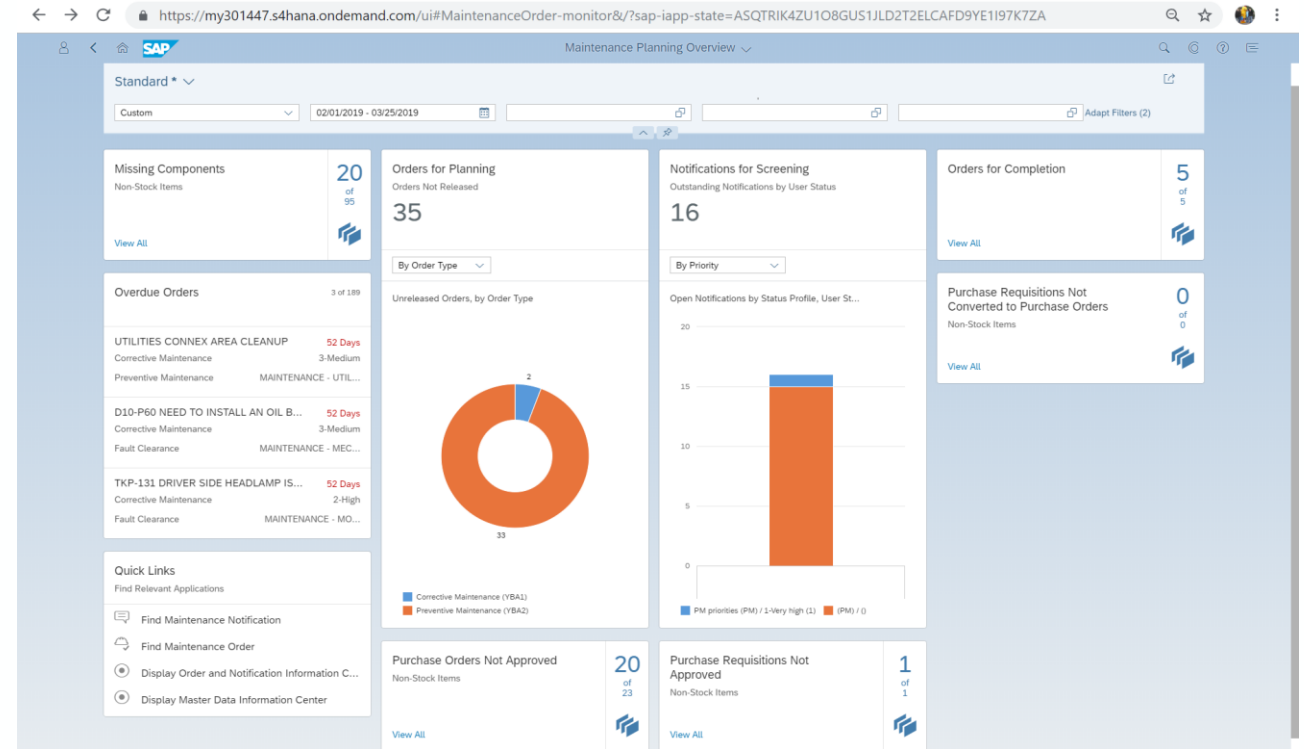
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S/4 HANA Cloud vs. S/4 HANA On-Premise



#1 - Maintenance planning overview (1809 release)

- Maintenance planning monitor to view maintenance activities that impact asset reliability and availability
- This dashboard enables planners to:
 - Monitor new maintenance requests
 - Monitor work orders that are still in planning
 - Mass technical competition (TECO) of work orders from the report
 - View overdue work orders, change the person responsible for the order and confirm time against the order
 - View missing materials ordered but not received
 - View purchase requisitions not approved
 - View purchase requisitions not converted to purchase orders



Company
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Implementation

Cloud vs.
On-Premise

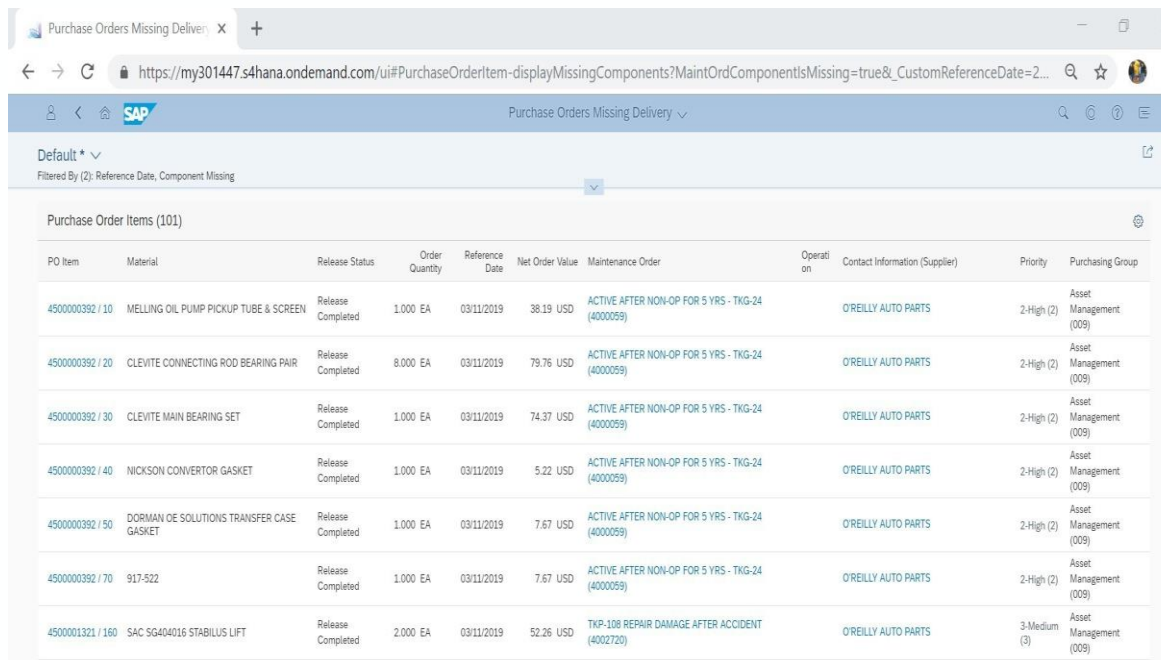
New EAM
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#1 Maintenance planning overview (1809 release)

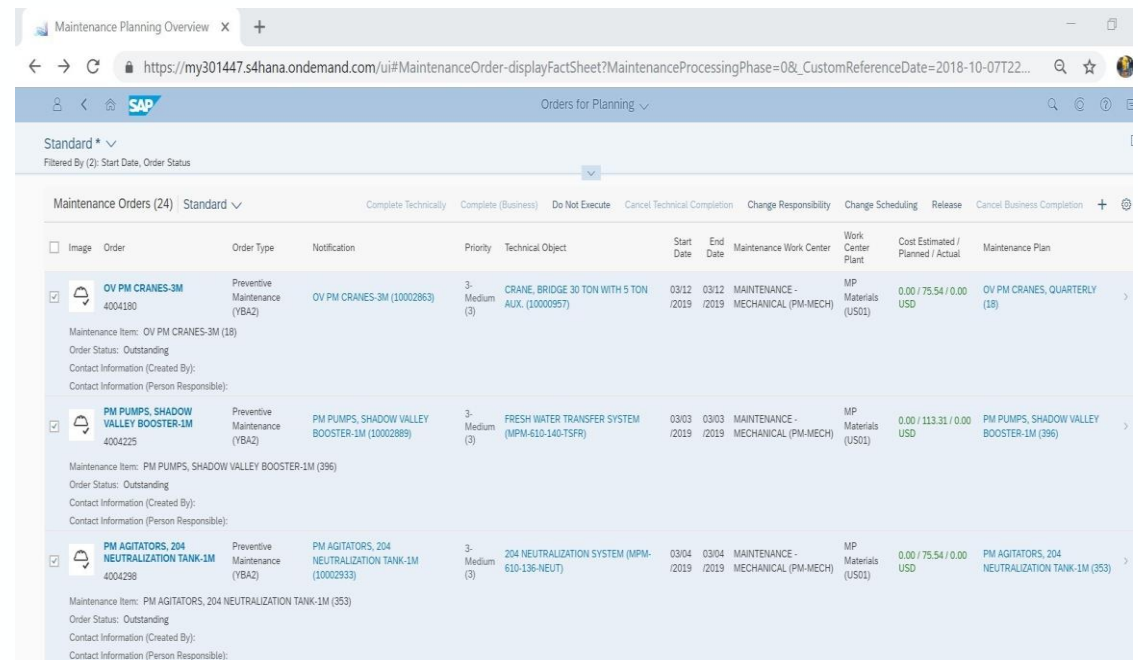
Purchase orders missing delivery



The screenshot shows the SAP 'Purchase Orders Missing Delivery' report. The browser address bar indicates the URL: <https://my301447.s4hana.ondemand.com/ui#PurchaseOrderItem-displayMissingComponents?MaintOrdComponentsMissing=true&CustomReferenceDate=2...>. The report is filtered by (2): Reference Date, Component Missing. It displays a table of 101 purchase order items.

PO Item	Material	Release Status	Order Quantity	Reference Date	Net Order Value	Maintenance Order	Operation	Contact Information (Supplier)	Priority	Purchasing Group
4500000392 / 10	MELLING OIL PUMP PICKUP TUBE & SCREEN	Release Completed	1.000 EA	03/11/2019	38.19 USD	ACTIVE AFTER NON-OP FOR 5 YRS - TKG-24 (4000059)		O'REILLY AUTO PARTS	2-High (2)	Asset Management (009)
4500000392 / 20	CLEVITE CONNECTING ROD BEARING PAIR	Release Completed	8.000 EA	03/11/2019	79.76 USD	ACTIVE AFTER NON-OP FOR 5 YRS - TKG-24 (4000059)		O'REILLY AUTO PARTS	2-High (2)	Asset Management (009)
4500000392 / 30	CLEVITE MAIN BEARING SET	Release Completed	1.000 EA	03/11/2019	74.37 USD	ACTIVE AFTER NON-OP FOR 5 YRS - TKG-24 (4000059)		O'REILLY AUTO PARTS	2-High (2)	Asset Management (009)
4500000392 / 40	NICKSON CONVERTOR GASKET	Release Completed	1.000 EA	03/11/2019	5.22 USD	ACTIVE AFTER NON-OP FOR 5 YRS - TKG-24 (4000059)		O'REILLY AUTO PARTS	2-High (2)	Asset Management (009)
4500000392 / 50	DORMAN OE SOLUTIONS TRANSFER CASE GASKET	Release Completed	1.000 EA	03/11/2019	7.67 USD	ACTIVE AFTER NON-OP FOR 5 YRS - TKG-24 (4000059)		O'REILLY AUTO PARTS	2-High (2)	Asset Management (009)
4500000392 / 70	917-522	Release Completed	1.000 EA	03/11/2019	7.67 USD	ACTIVE AFTER NON-OP FOR 5 YRS - TKG-24 (4000059)		O'REILLY AUTO PARTS	2-High (2)	Asset Management (009)
4500001321 / 160	SAC SG404016 STABILUS LIFT	Release Completed	2.000 EA	03/11/2019	52.26 USD	TKP-108 REPAIR DAMAGE AFTER ACCIDENT (4002720)		O'REILLY AUTO PARTS	3-Medium (3)	Asset Management (009)

Orders ready for planning



The screenshot shows the SAP 'Maintenance Planning Overview' report. The browser address bar indicates the URL: <https://my301447.s4hana.ondemand.com/ui#MaintenanceOrder-displayFactSheet?MaintenanceProcessingPhase=0&CustomReferenceDate=2018-10-07T22...>. The report is filtered by (2): Start Date, Order Status. It displays a table of 24 maintenance orders.

Image	Order	Order Type	Notification	Priority	Technical Object	Start Date	End Date	Maintenance Work Center	Work Center Plant	Cost Estimated / Planned / Actual	Maintenance Plan
<input checked="" type="checkbox"/>	OV PM CRANES-3M 4004180	Preventive Maintenance (YBA2)	OV PM CRANES-3M (10002863)	3-Medium (3)	CRANE, BRIDGE 30 TON WITH 5 TON AUX. (10000957)	03/12 /2019	03/12 /2019	MAINTENANCE - MECHANICAL (PM-MECH)	MP Materials (US01)	0.00 / 75.54 / 0.00 USD	OV PM CRANES, QUARTERLY (18)
Maintenance Item: OV PM CRANES-3M (18) Order Status: Outstanding Contact Information (Created By): Contact Information (Person Responsible):											
<input checked="" type="checkbox"/>	PM PUMPS, SHADOW VALLEY BOOSTER-1M 4004225	Preventive Maintenance (YBA2)	PM PUMPS, SHADOW VALLEY BOOSTER-1M (10002889)	3-Medium (3)	FRESH WATER TRANSFER SYSTEM (MPM-610-140-TSFR)	03/03 /2019	03/03 /2019	MAINTENANCE - MECHANICAL (PM-MECH)	MP Materials (US01)	0.00 / 113.31 / 0.00 USD	PM PUMPS, SHADOW VALLEY BOOSTER-1M (396)
Maintenance Item: PM PUMPS, SHADOW VALLEY BOOSTER-1M (396) Order Status: Outstanding Contact Information (Created By): Contact Information (Person Responsible):											
<input checked="" type="checkbox"/>	PM AGITATORS, 204 NEUTRALIZATION TANK-1M 4004298	Preventive Maintenance (YBA2)	PM AGITATORS, 204 NEUTRALIZATION TANK-1M (10002933)	3-Medium (3)	204 NEUTRALIZATION SYSTEM (MPM-610-136-NEUT)	03/04 /2019	03/04 /2019	MAINTENANCE - MECHANICAL (PM-MECH)	MP Materials (US01)	0.00 / 75.54 / 0.00 USD	PM AGITATORS, 204 NEUTRALIZATION TANK-1M (353)
Maintenance Item: PM AGITATORS, 204 NEUTRALIZATION TANK-1M (353) Order Status: Outstanding Contact Information (Created By): Contact Information (Person Responsible):											

Company background

Implementation

Cloud vs. On-Premise

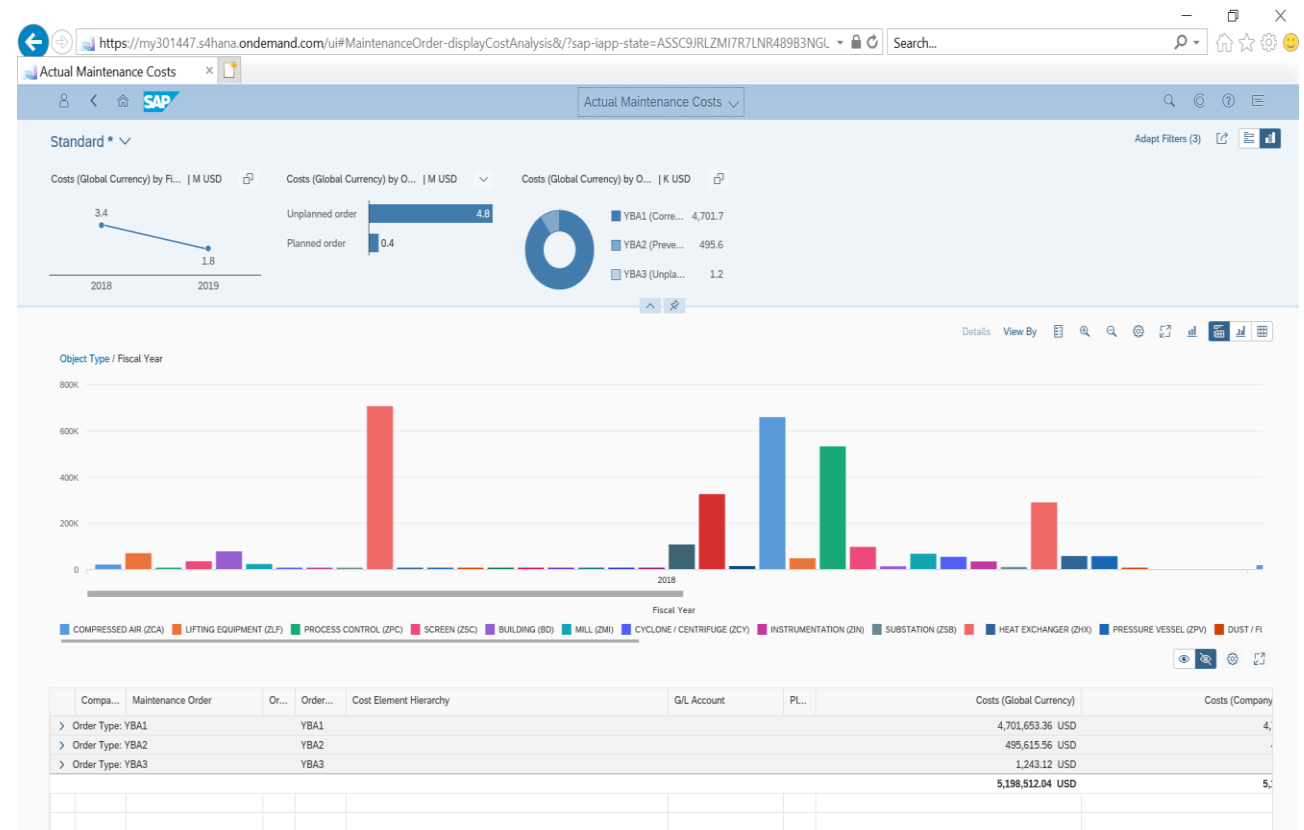
New EAM functionality in Fiori

Customer Influence



#2 - Actual cost analysis (1811 release)

- Actual maintenance costs can be viewed by each type of equipment.
- This new report will show the total cost of maintenance for each year, the percentage of unplanned versus planned maintenance and the total cost of maintenance for each work order type.



Company
background

Implementation

Cloud vs.
On-Premise

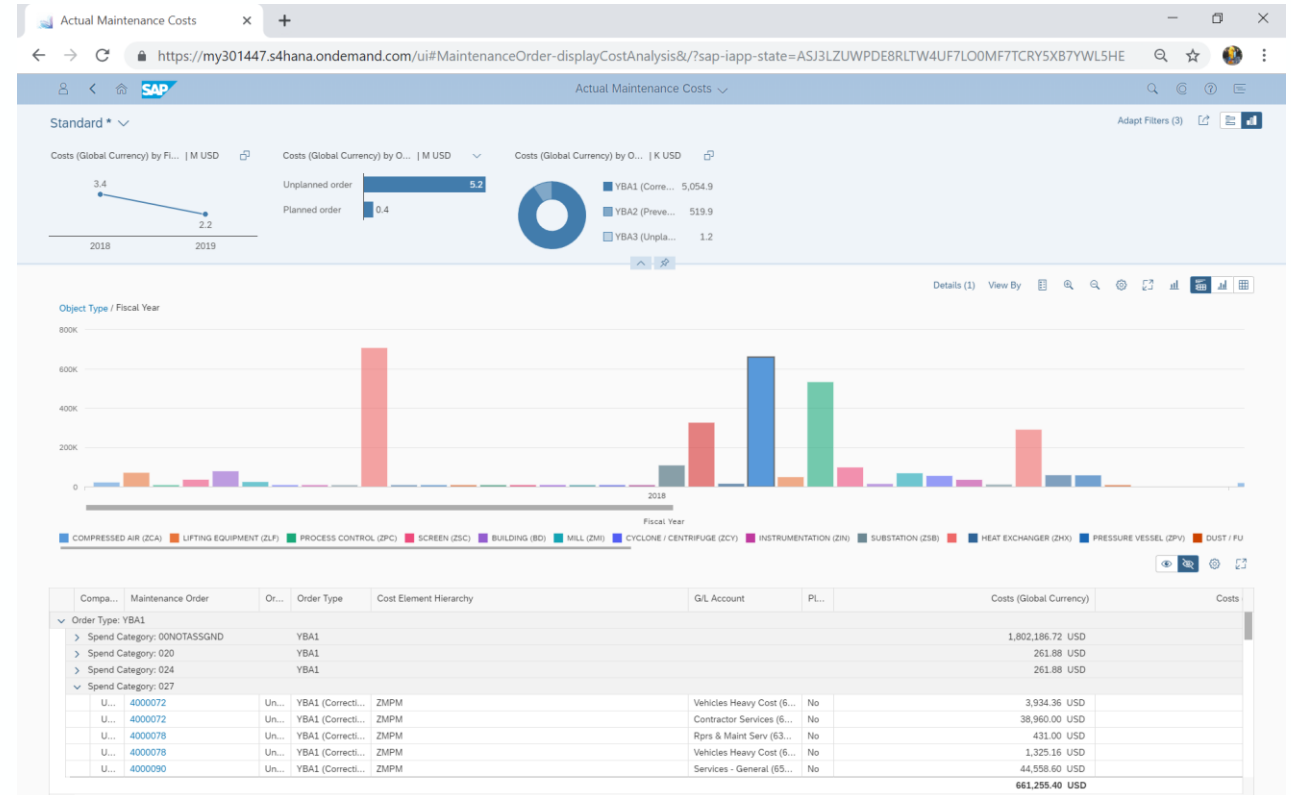
New EAM
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#2 - Actual cost analysis (1811 release)

- Maintenance cost can then be broken down by equipment type and analysed by the spend category that accounted for each type of cost (internal labor, contractors, internal materials, external materials, etc.)



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Cloud vs.
On-Premise

New EAM
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#3 - Mass generation of orders for maintenance notifications (1902 release)

- The SAP Fiori app Find Maintenance Notification allows users to perform mass generation of orders for maintenance notifications.
- The user can generate separate maintenance orders for every notification that is selected or generate one single maintenance order for all selected notifications.

The screenshot displays the SAP Fiori app interface for 'Find Maintenance Notification'. The main screen shows a list of maintenance notifications with columns for 'Notification', 'Notification Type', and 'Tech'. Two notifications are selected: 'VALIDATE IF W10X33 BEAMS ARE ON SITE' (10000015) and 'Change Mercury bulbs for LEDs' (10000031). A 'Generate Orders' dialog is open, allowing the user to configure the order generation process. The dialog includes fields for 'Maintenance Order Type' (set to '(None)'), 'Create Multiple Orders' (selected), 'Create Single Order with Header Notification' (unselected), and 'Header Notification' (set to '(None)'). A 'Generate' button is visible at the bottom right of the dialog.

Notification	Notification Type	Tech
<input type="checkbox"/> Notification		
<input checked="" type="checkbox"/> VALIDATE IF W10X33 BEAMS ARE ON SITE 10000015	Maintenance Request (M1)	PAS
<input checked="" type="checkbox"/> Change Mercury bulbs for LEDs 10000031	Maintenance Request (M1)	HAZ (100)

Generate Orders

*Maintenance Order Type: (None)

☒ Create Multiple Orders
☐ Create Single Order with Header Notification

Header Notification: (None)

Generate **Cancel**

#3 - Mass generation of orders for maintenance notifications (1902 release)

One of the biggest differences between notifications in S/4 HANA Cloud and S/4 HANA On-Premise is how the notification is converted into a work order. Notifications in S/4 HANA Cloud cannot be converted to work orders inside the individual notification. The Generate Orders button in the Find Maintenance Notifications app must be used for the conversion.

S/4 HANA Cloud Notification

Order and Notification List Display Notification: 10000922 x

← → ↻ <https://my301447.s4hana.ondemand.com/ui#MaintenanceNotification-display?QMNUM=000010000922&sp-ui-technology=WDA>

⌂ < 🏠 **SAP**
Display Notification: 10000922

Edit Refresh Set User Status ▾ Set System Status ▾ Additional Functions ▾

Notification: 10000922 Notification Type: ML Maintenance Request System Status: NOPR 📄 0 Document(s)

[General Data](#) Location Data Organizational Data Malfunction Data Task Data Activities Documents

Long Text: 09/19/2018 14:11:10 UTC (C8998000067)
Please describe the problem.

When did the problem start?
Ongoing, the reject barrels fill up over time

We need to create a PM for the Utilities group to inspect and keep in touch with Bucking Lab personnel on when to dump their barrels on a weekly basis and then get a consensus on the frequency that is needed.

General Data

Description:	Bucking Lab Reject Barrels	Priority:	
Required Start Date/Time:	09/19/2018 14:11:10	Required End Date/Time:	00:00:00
Technical Object:		Technical Object Type:	
Identifying Assets:		Material:	
Serial Number:		Assembly:	
Task List:		Assigned Order:	

Responsibilities

Work Center:		Work Center Plant:	
Planning Plant:		Person Responsible:	
Planner Group:			

S/4 HANA On-Premise Notification

Maintenance notification Edit Goto Extras Environment System Help

Change PM Notification: Maintenance Request

Notification: 10000028 M1: Leak on pump 1

Notific. Status: OSNO

Order:

Notification Reference object Malfunction, breakdown Location data Scheduling overview Item Tasks Activities

Reference Object

Functional loc.: 2010-MLKSTS-TANKO... TANKER BAY 2

Equipment: 10000007 PUMP WD2 DMAC ANALYZER M-1199

Assembly:

Subject

Coding:

Description: Leak on pump 1

02/06/2019 08:18:28 EST (KAVILA)
 Leak on pump 1.....

Responsibilities

Planner Group: / 2010

Main WorkCtr: MECHANIC / 2010 MECHANIC

Department resp:

Person respons.:

Reported By: KAVILA Notif. Date: 02/06/2019 08:12:38

#4 - Mass scheduling changes for maintenance notifications or work orders (1902 release)

- The SAP Fiori app Find Maintenance Notification allows users to **mass change notification priorities, required start dates and required end dates.**
- The SAP Fiori app Find Maintenance Order also allows users to **mass changes to work order priorities, required start dates and required end dates.**

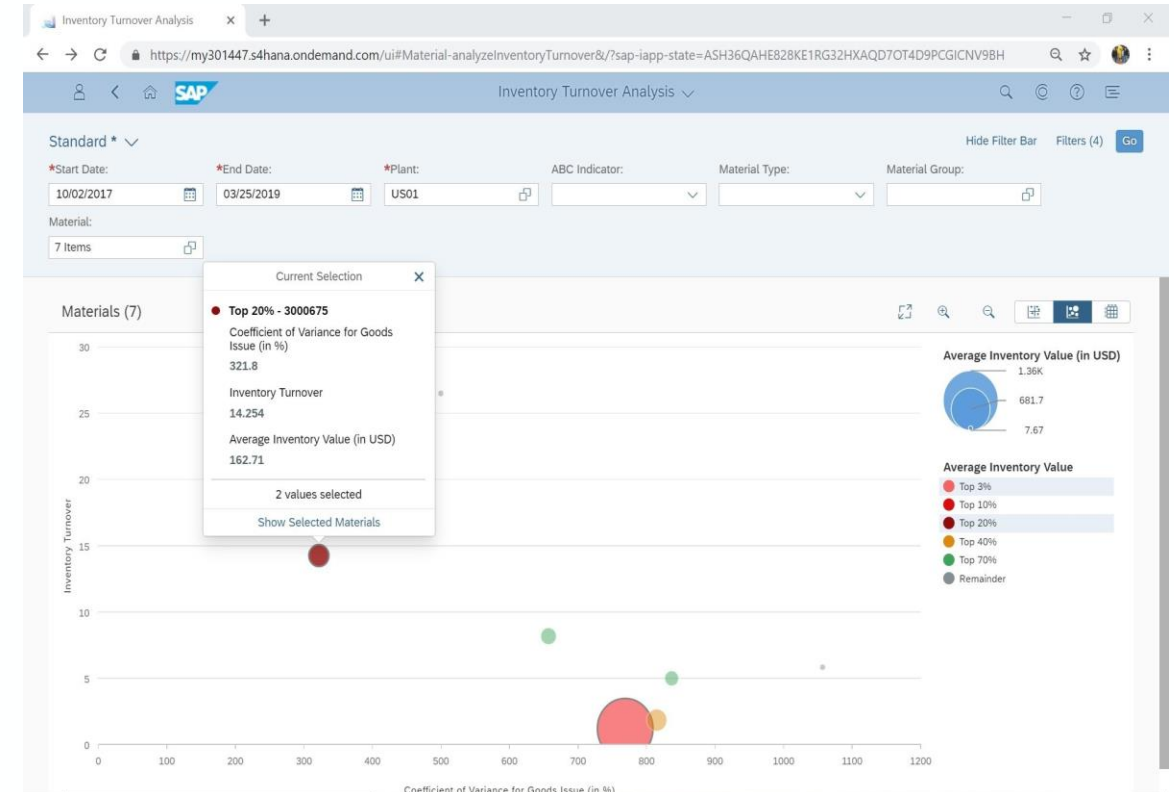
The image displays two screenshots of SAP Fiori applications. The top screenshot is the 'Maintenance Notifications' app, showing a list of notifications with a 'Change Scheduling' dialog box open. The dialog box allows users to change the priority (set to '2-High (2)'), required start date (set to '03/24/2019'), and required end date (set to '03/27/2019'). The bottom screenshot is the 'Maintenance Orders' app, showing a list of orders with a 'Change Scheduling' dialog box open. The dialog box allows users to change the priority (set to '3'), start date (set to '04/01/2019'), and end date (set to '04/01/2019'). Both screenshots show the 'Change Scheduling' button highlighted in the top right corner of the dialog box.

#4 - Mass scheduling changes for maintenance notifications or work orders (1902 release)

- Both apps change work order and notification data in real-time.
- This new functionality is similar to applying work order revisions or enabling mass work order changes by activating business functions (**LOG_EAM_CI_1**, **LOG_EAM_CI_5**, and **LOG_EAM_CI_7**).
- Mass work order data changes can be made to the header or operation steps in the S/4 HANA Cloud.
- Mass data changes can also be made to notification.
- Since revisions are currently not available in S/4 HANA Cloud, this new mass scheduling functionality enables the same functionality.

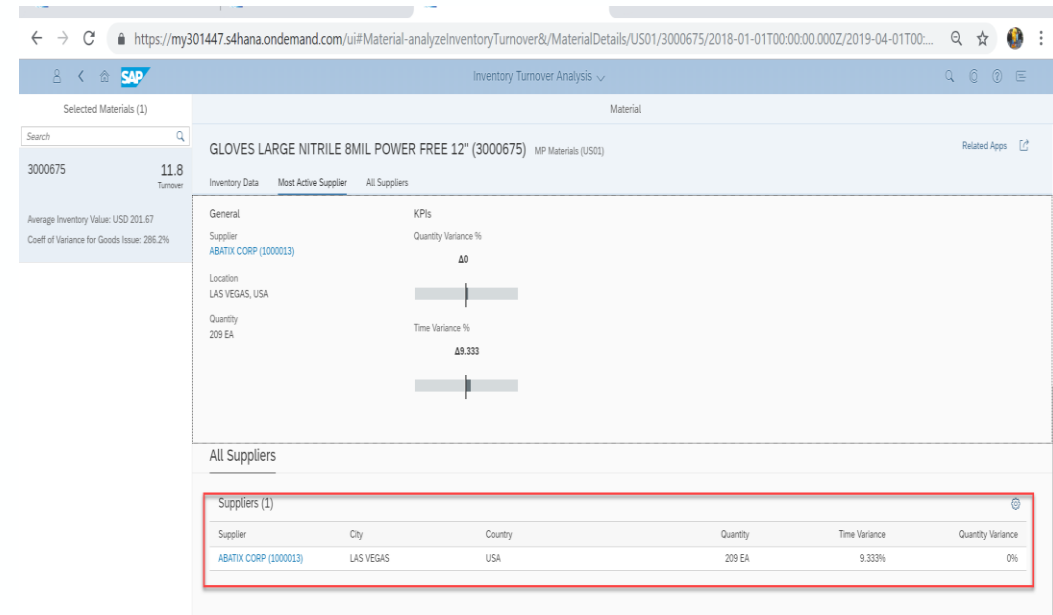
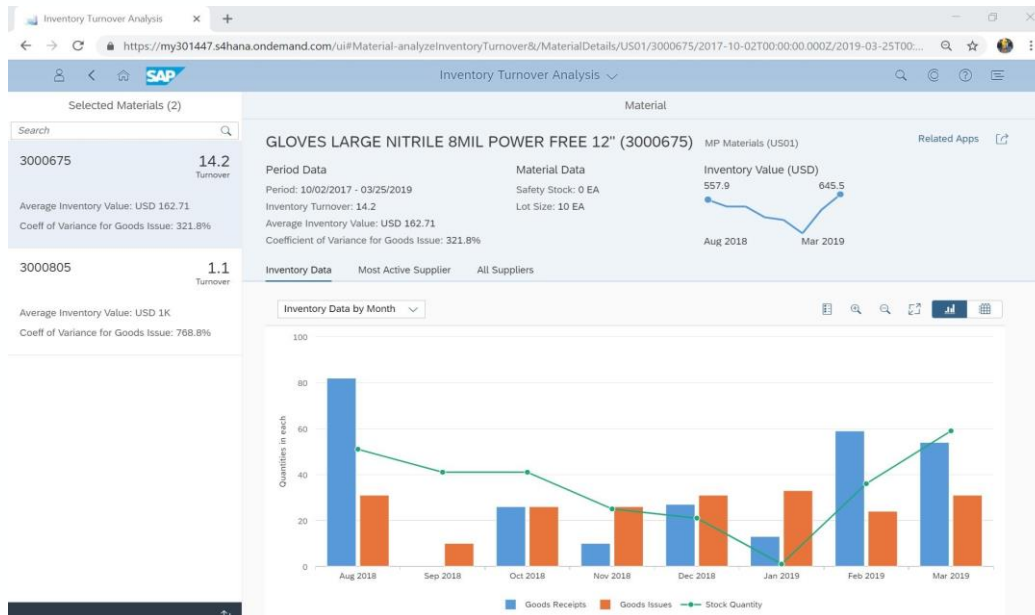
#5 - Inventory turnover analysis (1902 release)

- Inventory turnover can be viewed for a specific time range, material type, material group, storage location, or with one or multiple material numbers.
- Monthly turnover can be viewed for each material.
- This report will also list the most active purchasing suppliers for a material.



#5 - Inventory turnover analysis (1902 release)

- Selecting a material allows you to view the monthly trends for goods receipts, goods issues and current inventory values. All suppliers for the material can also be viewed with the quantity that has been purchased.



Company
background

Implementation

Cloud vs.
On-Premise

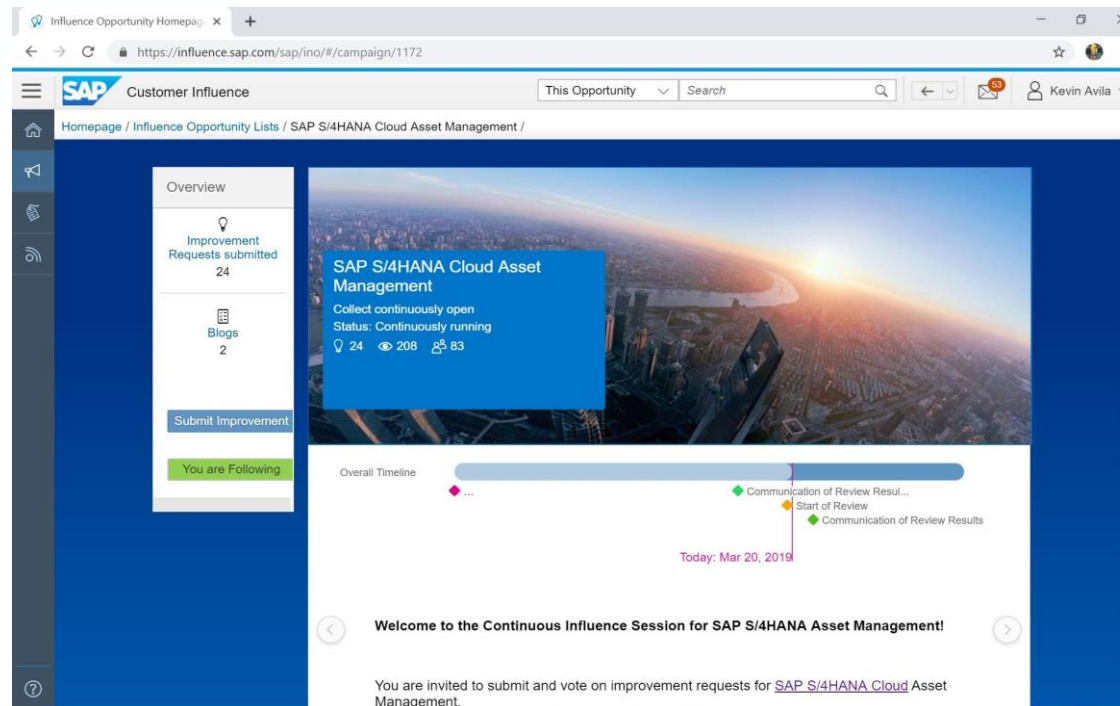
New EAM
functionality in
Fiori

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Customer influence site

- <https://influence.sap.com/sap/ino/#/campaign/1172>



Company
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Implementation

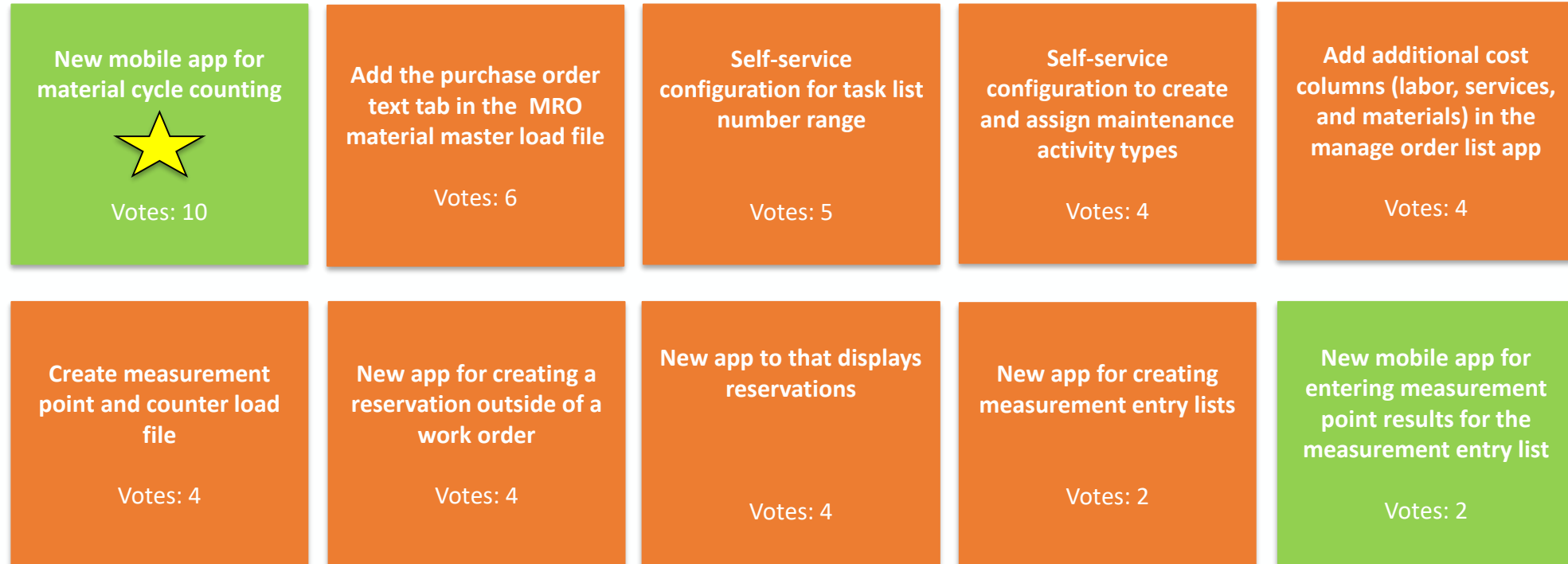
Cloud vs.
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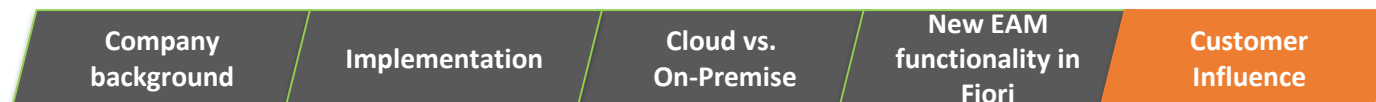
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Top Customer Influence topics for S/4 HANA Cloud Asset Management



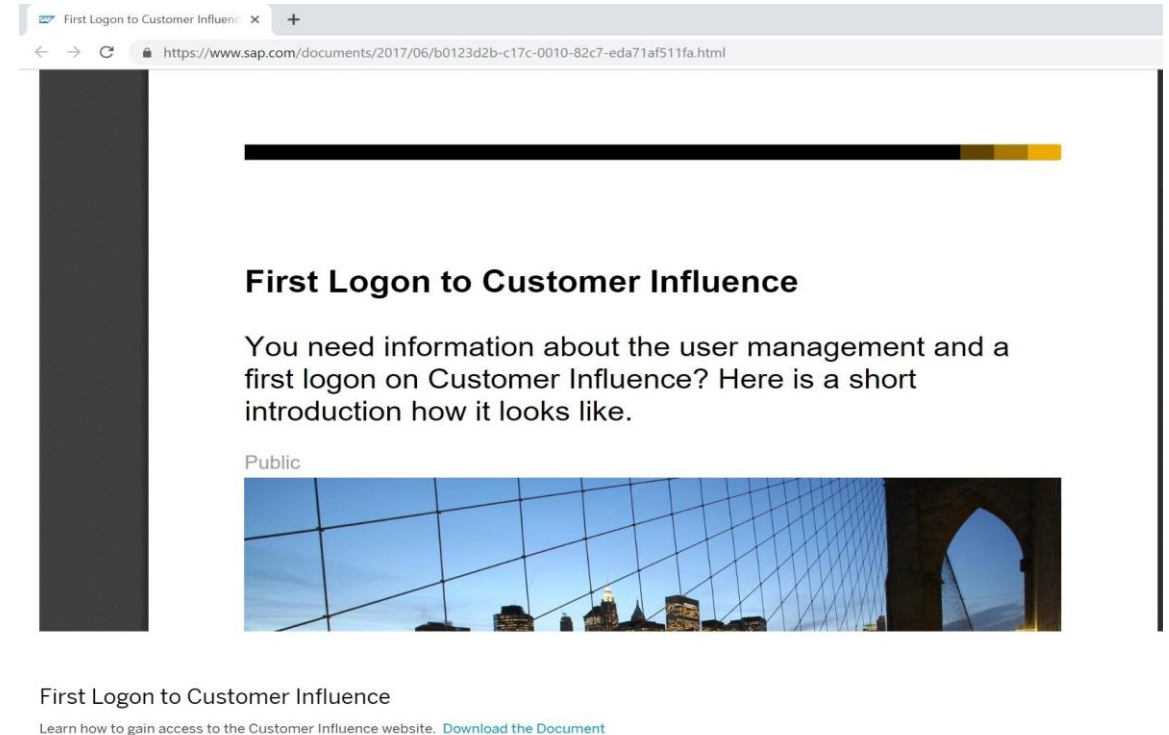
Legend



Prerequisite to use SAP Customer Influence

In order to use SAP Customer Influence, customers first have to log on to SAP Customer Influence and accept the terms of use and privacy policy.

<https://influence.sap.com/saps4hanacloud>



Company
background

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Cloud vs.
On-Premise

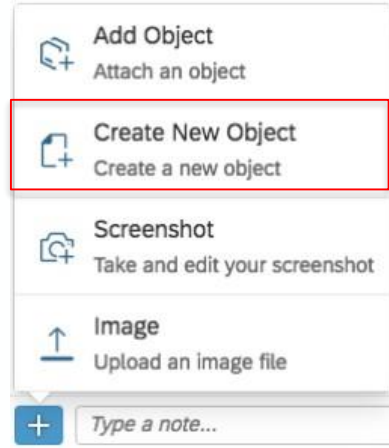
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Steps to submit improvement request to SAP Customer Influence

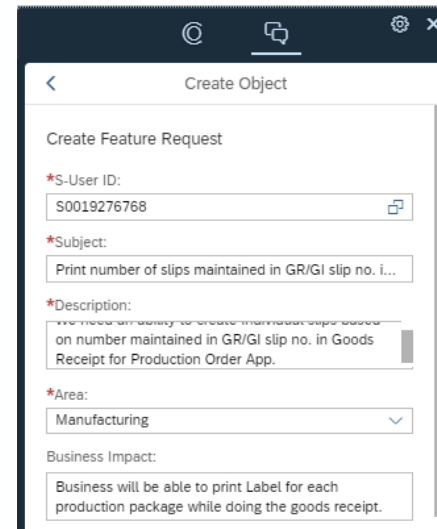
1. Assign business role **BR_APPL_SUPPORT_ENGINEER** to enable feature request to submit an idea (this step is performed in the identify and access management app in Fiori).
2. Click on the CoPilot icon at the top right of your screen to open SAP CoPilot. 
3. Create a new chat. [New Chat](#)
4. Create a new object.



Note: The Customer Influence site is using SAP Cloud Identity as identity and authentication management.

Steps to submit improvement request to SAP Customer Influence

5. Choose Feature Request Quick Create.
6. Complete the form.



The screenshot shows the 'Create Object' form in SAP Customer Influence. The form is titled 'Create Feature Request' and contains the following fields:

- *S-User ID:** S0019276768
- *Subject:** Print number of slips maintained in GR/GI slip no. i...
- *Description:** We need ability to create individual slips based on number maintained in GR/GI slip no. in Goods Receipt for Production Order App.
- *Area:** Manufacturing
- Business Impact:** Business will be able to print Label for each production package while doing the goods receipt.

Support Information

Feature Request

Support Incident

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Steps to submit improvement request to SAP Customer Influence

7. Select Create to submit the improvement request to SAP Customer Influence.

Create

8. Click on the overview card.



Print number of slips maintained in ...
Feature Request
213648

9. Click the improvement request ID under SAP Customer Influence Site to access the newly created request on SAP Customer Influence.



Print number of slips mainta
GR/GI slip no. in Goods Re
Production Order App
Feature Request
213648

213648

Created at:
06/20/2018, 13:11:35

S-User ID:
S0019276768

Subject:
Print number of slips maintained in GR.
Goods Receipt for Production Order Ap

Description:
We need an ability to create Individual
on number maintained in GR/GI slip no
Receipt for Production Order App.

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Presentation material

Access the slides from 2019 ASUG Annual Conference here:

<http://info.asug.com/2019-ac-slides>

Q&A

For questions after this session, contact me at kevin.avila@ey.com.

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