

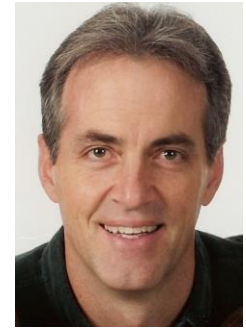
# Maximo v7.6.0.6 Feature Pack release

October 21, 2016



Unlocking potential.  
Achieving results.

- Russ Anderton – Cohesive Solutions, Vice President



- Lisa Stuckless – IBM Offering & Strategy Manager



- Kim Woodbury – IBM Offering & Strategy Manager



# Introduction

**Session Objective:** share the most current Maximo product information with our customers. Formally released today, 7.6.0.6 is the current feature pack release from IBM.

## Cohesive Solutions...

- Largest U.S. Maximo implementation organization in North America with more IBM certified consultants than anyone
- Clients in Oil & Gas, Utilities, Manufacturing, Public Sector
- Full range of Maximo consulting services:
  - Business Process/Best Practices
  - Upgrades & Integration
  - Training
- Value-added Solutions:
  - Performance Management (Propel)
  - Zero Downtime Upgrades (SDU)
  - RCM Solution for Maximo

## Online Poll:

Question 1: What version of Maximo are you using?

Later...

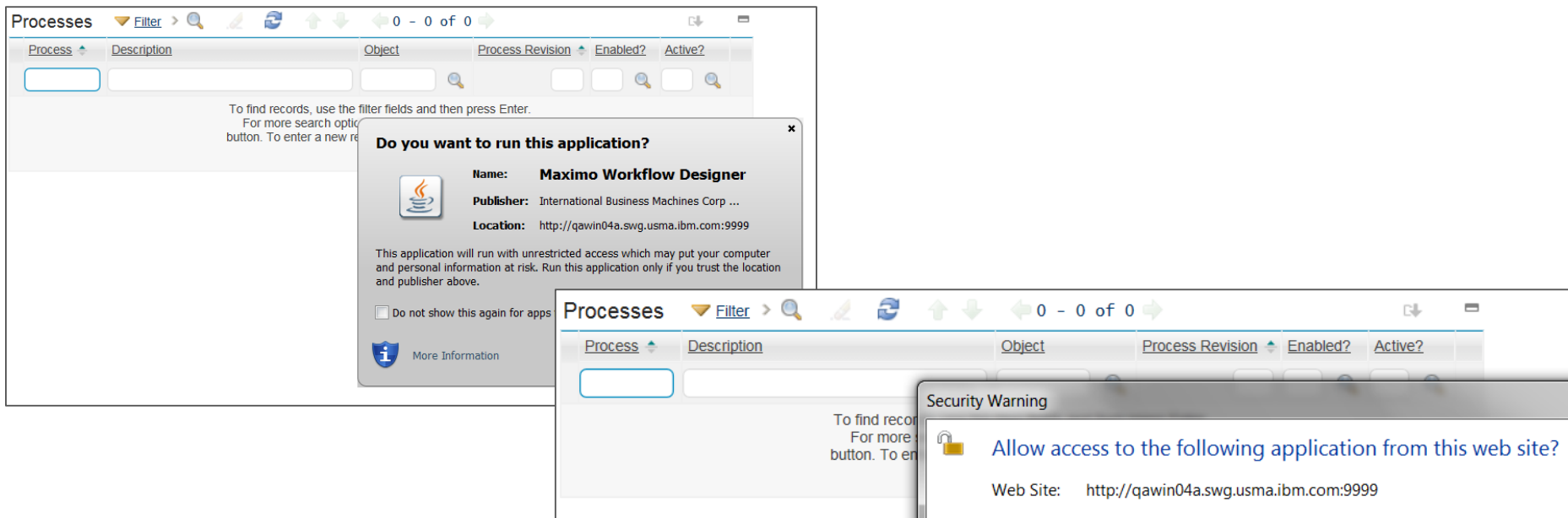
Question 2: When do you plan on upgrading to v7.6?

# Maximo 7.6.0.6 Feature Pack – Available TODAY!

- Workflow Canvas applet replacement
- BIM support in core
- License Tracking feature
- Work Centers
  - Data Set Designer
  - Service Requester
- Certifications: WebSphere 9 with JDK 1.8, WebLogic 12.2.x with JDK 1.8, DB2 11.1, jTDS

# Applet Replacement for Workflow

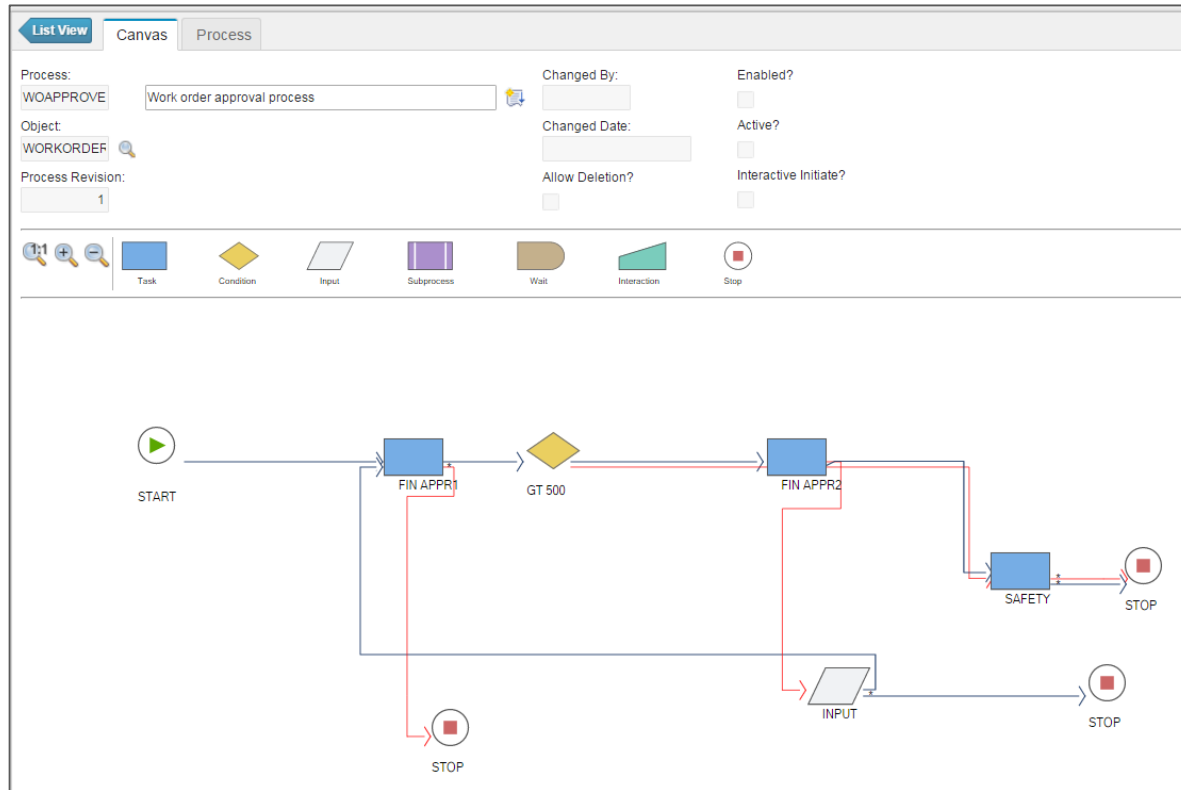
- New Workflow Designer canvas that replaces the version requiring Java applet technology, a local JRE, and prompting for frequent updates.



- Like for Like functionality to current WF canvas with minor enhancements.
  - Provide indication of an action when defined on a routing line. Top RFE.
  - Zoom refactoring

# New Workflow Designer

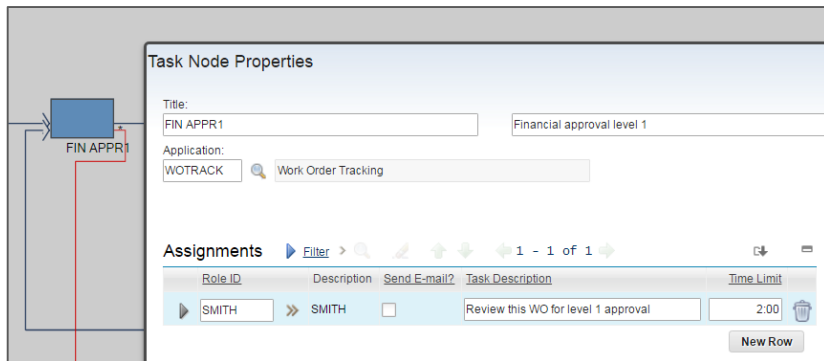
- New Designer canvas – no applet! Runs on any supported browser



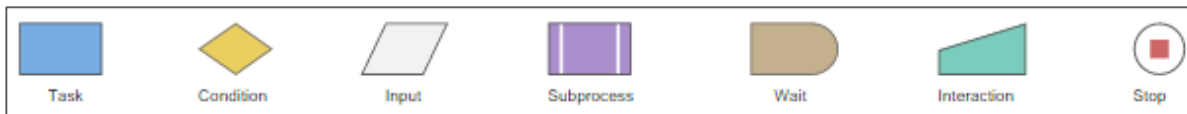
# Benefits of the new Designer

Usability, navigation, and property information are derived from the original, requiring no retraining. There has been no change to the underlying workflow business rules or objects.

Double click (or right click) a node – properties are the same.



Nodes are the same, refactored for newer color scheme.



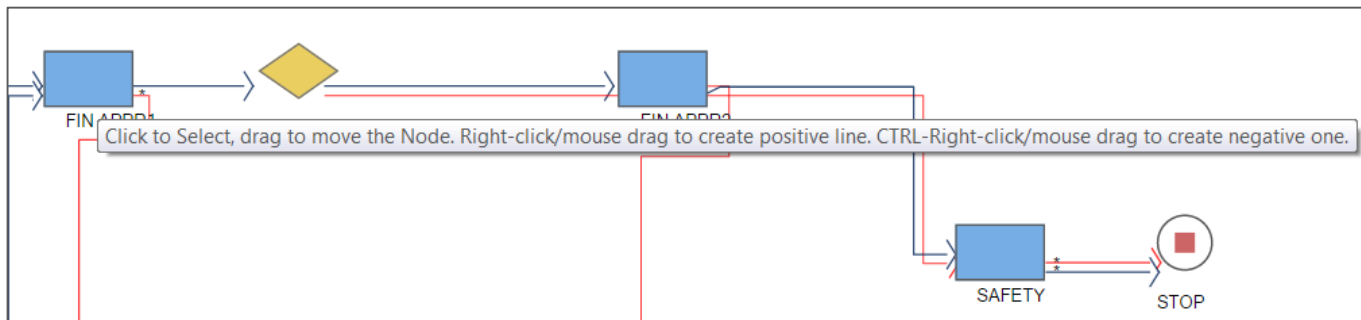
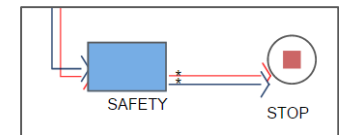


# New or Modified Features

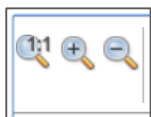
Provide indication of an action when defined on a routing line. Top RFE.

Indicators on routing lines show that actions are defined on those lines.

Hover text explains the drawing modes.



Reset and zoom factors slightly refactored



# Why use BIM integration for Maximo

BIM integration improves customer operational efficiencies and provides the bases for visualization and further capabilities in the IoT era

## Save time and cost

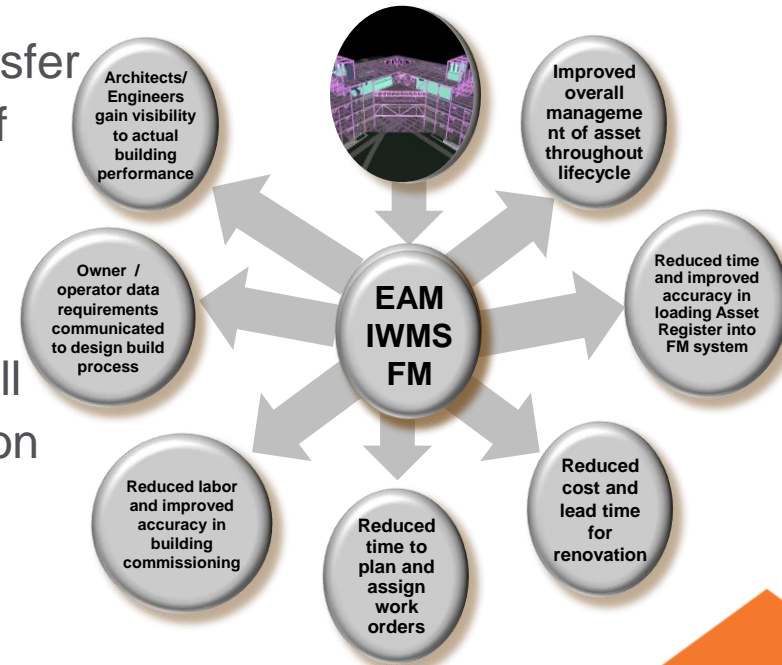
Accelerated schedules and reduced costs on transfer of the building data at hand-over and at the time of commissioning of a building

## Improve information management

Availability and accuracy of building information will assist operations, maintenance, and communication

## Visualization

3D viewer provides efficient operations, reduced risks, and operational costs and rich context by providing accurate graphical representation of the assets



# BIM Integration for Maximo available with Feature Pack 7.6.0.6

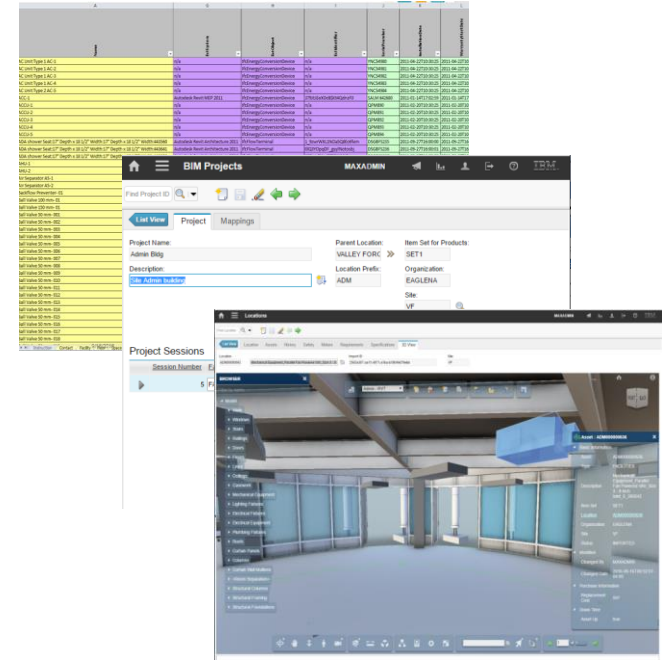
*Two apps added to support BIM Integration*

## BIM Projects – COBie import

- Configure global COBie and Maximo settings to streamline the data import process
- Manage BIM projects directly from one location
- Manage the building commissioning process and the update of all your Maximo assets and locations

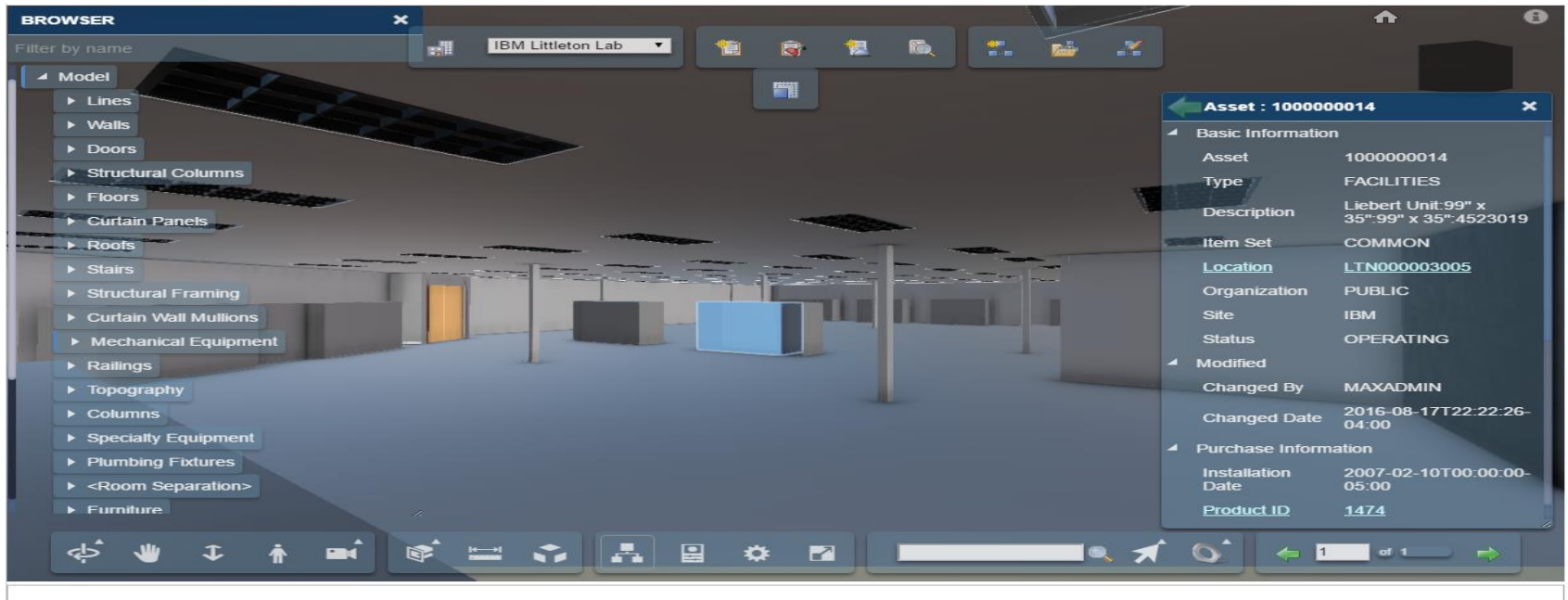
## Manage BIM Viewer - 3<sup>rd</sup> party viewer

- Integrate a 3<sup>rd</sup> party viewer with Maximo to view your building in 3D
- Create or review service requests and job plans for assets directly in the viewer



# BIM + Viewer

Viewer API is available to enable customer choice of a viewer



\*. Real IBM facility shown in Autodesk's LMV(Large Model Viewer) API

# License Tracking Tool

A number of applications and reports will be introduced with 7.6.0.6 to provide users with a way to register their entitlements and track their actual usage to better identify under or over utilization.

- To enable license monitoring users will need to:
  - Create license records.
  - Configure and enable the License Usage Monitor cron task.
  - Optionally, assign licenses to specific users.
- After the cron task runs, license usage information is displayed on the License Use tab.
  - Frequency of monitoring is every minute.
- The License Usage Monitor application displays only the most recent license usage data but historical license data can be accessed through provided reports.
- By default, license data is saved in the database for 2 years. This can be configured using the System Properties application.
- Provides a list of applications that are related to each product and allows users to add custom applications.
- Additional documentation:  
[http://www.ibm.com/support/knowledgecenter/SS8CCV\\_7.6.0.5/com.ibm.mbs.doc/lic/c\\_monitor\\_use\\_sw\\_lic.html](http://www.ibm.com/support/knowledgecenter/SS8CCV_7.6.0.5/com.ibm.mbs.doc/lic/c_monitor_use_sw_lic.html)

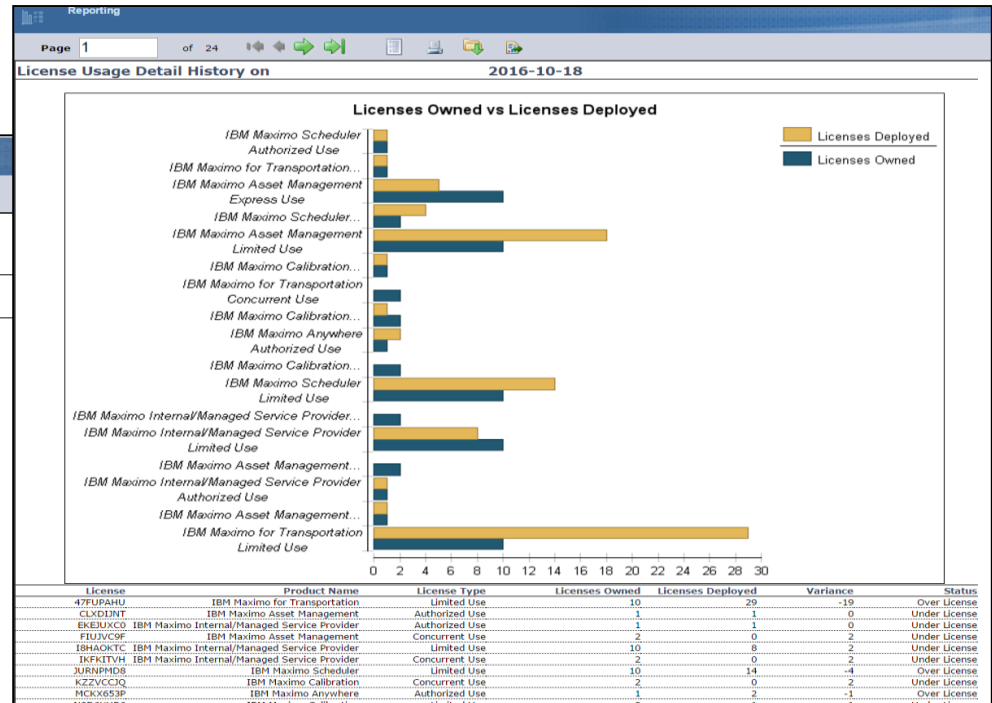
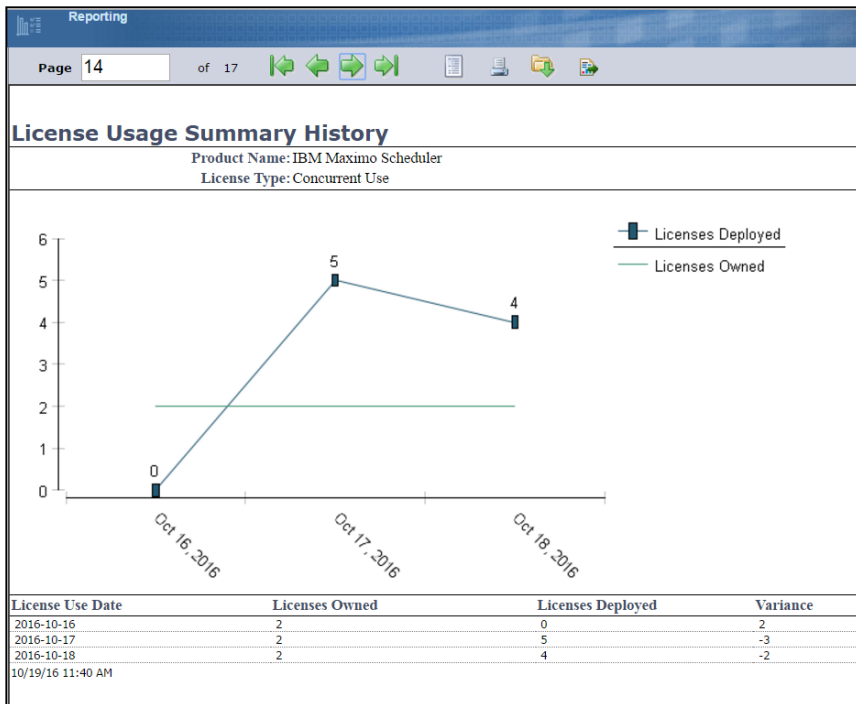
# License Tracking Tool – Support Matrix

	AUTHORIZED	CONCURRENT	EXPRESS	LIMITED	ASSET	SERVER
MAM	✓	✓	✓	✓	-	-
MaM SaaS	✓	✓	✓	✓	-	-
Transportation	✓	✓	-	✓	-	-
Service Provider	✓	✓	-	✓	-	-
Oil and Gas	✗	✗	-	✗	-	-
Utilities	✗	✗	-	✗	-	-
Anywhere	✓	-	-	-	-	-
Scheduler	✓	✓	-	✓	-	-
Asset Configuration Manager	✗	✗	-	✗	-	-
Aviation	✗	✗	-	✗	-	-
Health, Safety and Environment Manager	✗	✗	-	✗	-	-
Linear Asset Manager	✗	✗	-	✗	-	-
Spatial Asset Manager	✗	✗	-	✗	-	-
Calibration	✓	✓	-	✓	-	-
Nuclear Power	✗	✗	-	✗	-	-
Mobile Suite	✗	✗	-	✗	-	-
Asset Health	-	-	-	-	✓	-

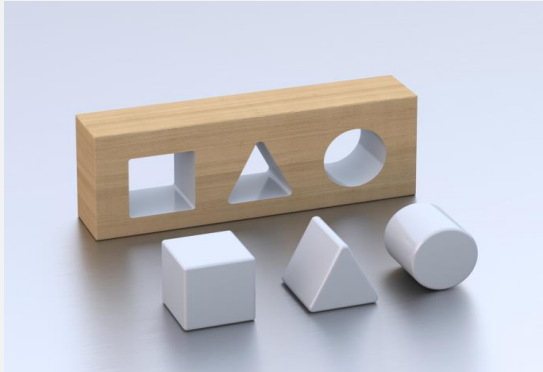
- License Not Possible
- ✗ Future Deliverable
- ✓ License Supported

# Sample License Tracking Report

Licenses are monitored every minute over a 24 hour time period... so peak usage over a single day is reported.



# A New User Experience - Our Three Objectives



## 1 Simple

What if there was a simpler way of doing things with Maximo?



## 2 Innovative

What if we pulled information and actions out of our apps and made them relevant to users at the moment they need them?



## 3 Responsive

What if users had the same experience no matter what device they held in their hands?



# Evolution of the Maximo User Experience

What we've been hearing...

*"Our younger users have higher expectations around usability"*

*"When are you going to modernize Maximo?"*

*"When is the next technology shift coming?"*



Our approach...

- Provide new process focused way to interact with Maximo through Work Centers
- Meet technical requirements: Perceptive, Responsive, Stateless, Touch enabled
- Respond to existing usability/administrative enhancement requests

# Maximo Work Centers

Offering Perceptive, Stateless, Responsive applications for a more intuitive user experience.

- With **continuous delivery** new **Work Centers** will be made available that work in conjunction with 7.6

- Target key user types and **processes**

## *Service Request Work Center*

Focus: Creating and viewing SRs.

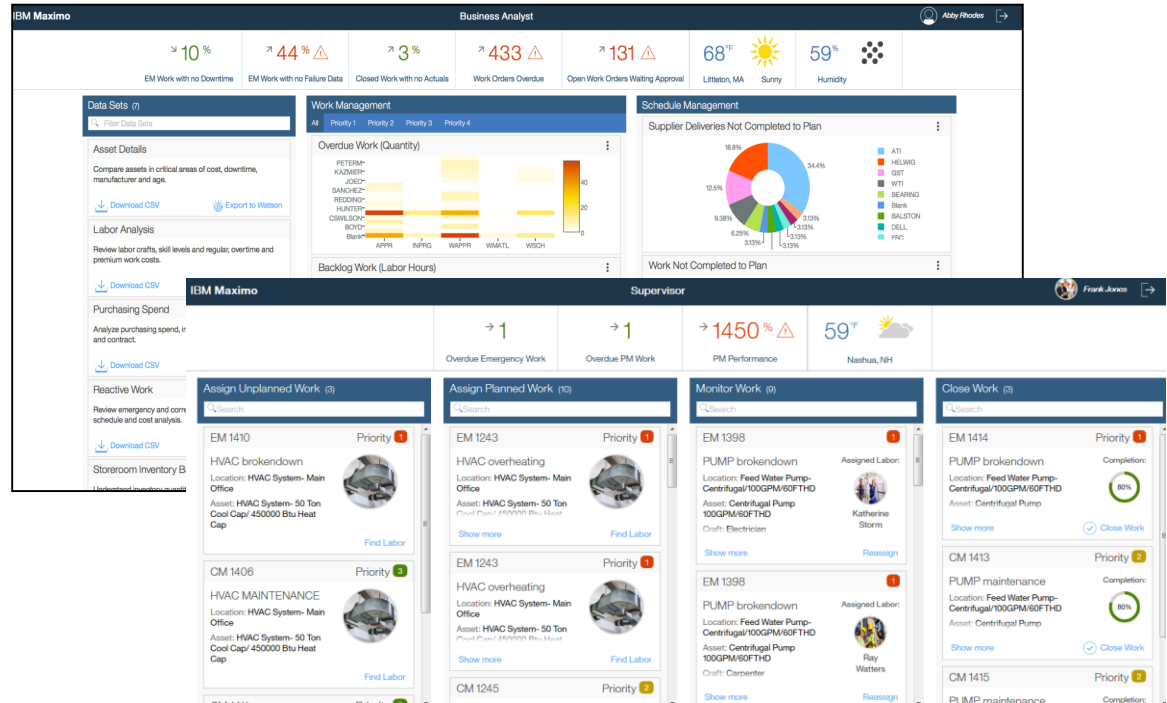
Quote: "Where is my SR I created yesterday and when will it be resolved."

## *Business Analyst Work Center*

Focus: Analyzing data to best Manage Assets

Quote: "What will I investigate today to help improve operation and user performance"

*Inspection, Supply Chain, Cost View, Administrative*



Role Based

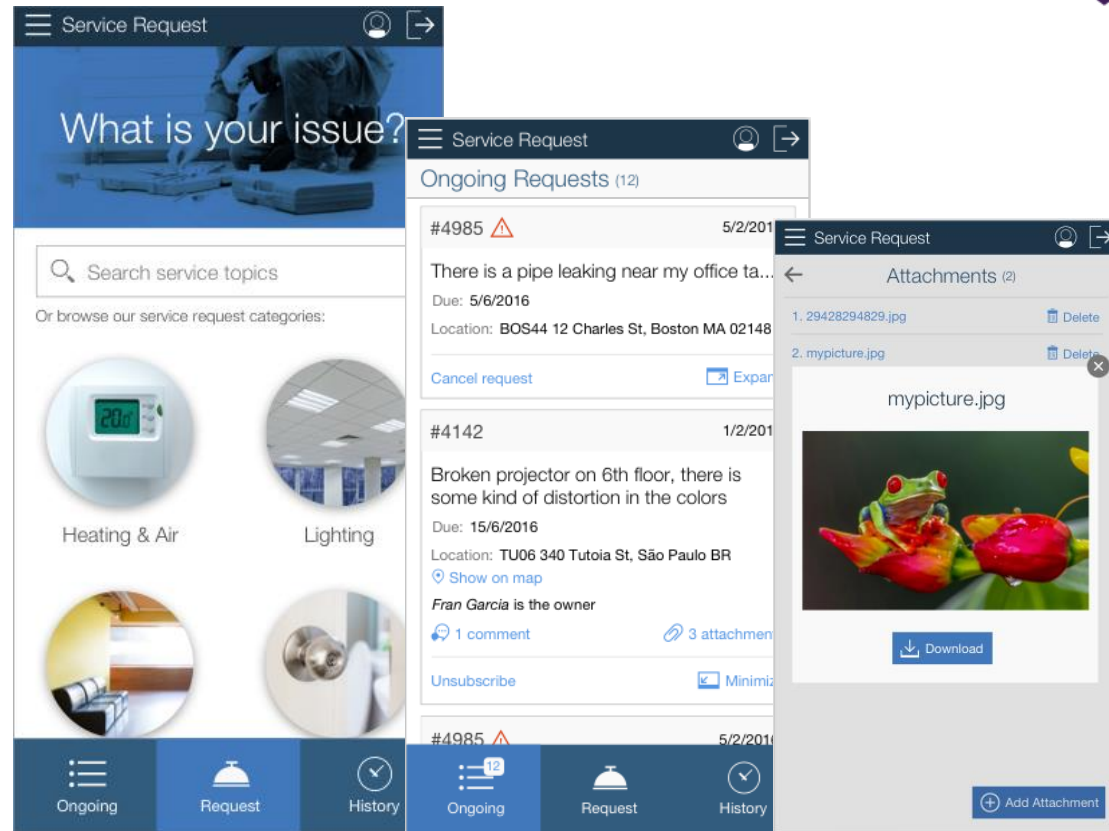
Data Driven

Interactive

Intuitive

# Service Request Work Center

- Guided SR creation that makes it easy for end-users to report issues.
  - Customizable steps
  - Avoid duplicate records by suggesting and following similar SRs
  - Uses ticket templates in a way to pre-define issue and classify the record
- Searchable SR history
- Easy attachment of pictures of the problem.

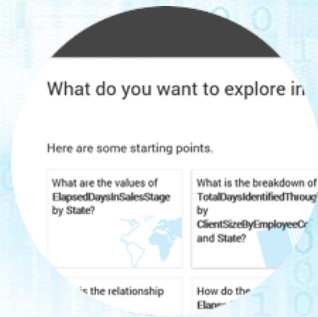


# IBM Watson Analytics

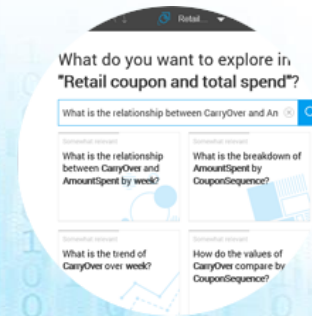
## Self-service analytics capabilities in the cloud



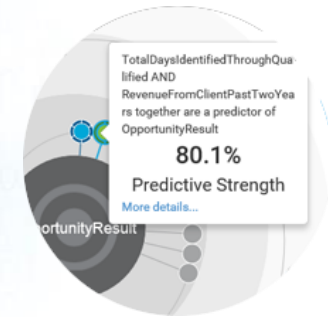
**Single Analytics Experience**



**Fully Automated Intelligence**

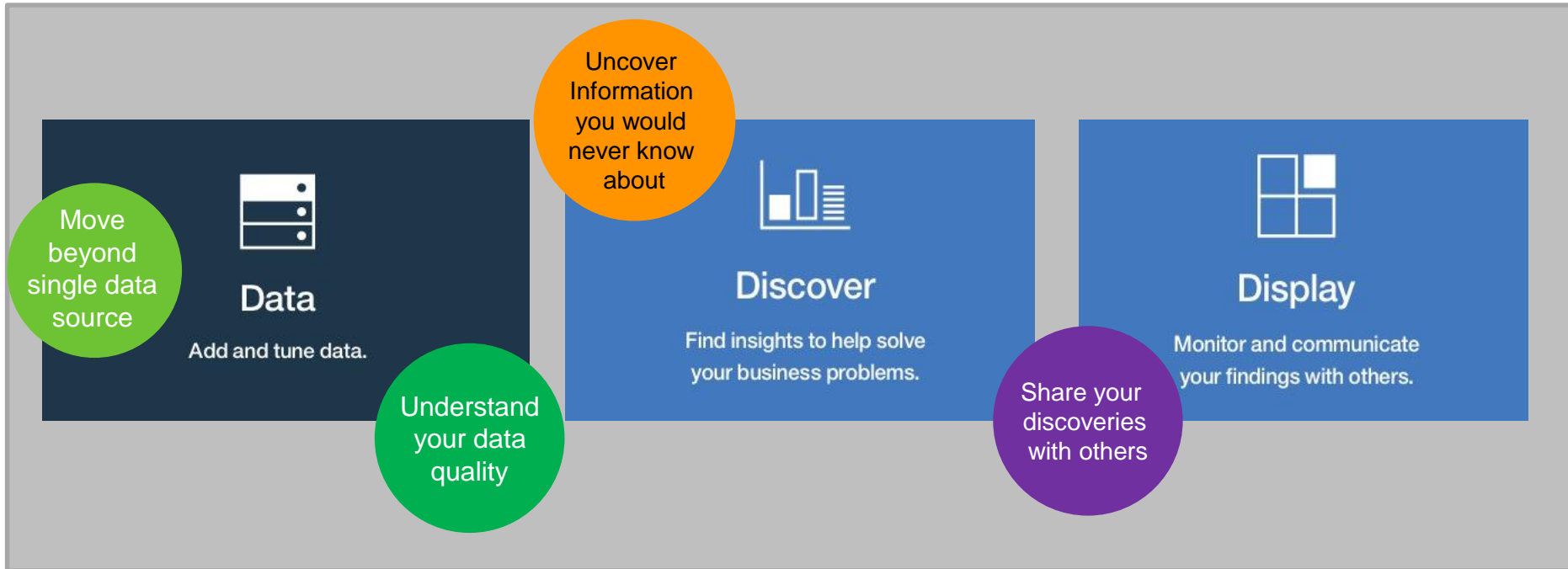


**Natural Language Dialogue**



**Guided Analytic Discovery**

# Watson Analytics 2.0 ... Data > Discover > Display



Free Online Training at <http://bigdatauniversity.com/>

# Maximo Business Analyst Work Center – 7.6.0.5 June, 2016

Maximo to Watson Integration

Targets Specific User Persona

The screenshot displays the IBM Maximo Business Analyst Work Center interface. At the top, there is a navigation bar with the user name 'Abby Rhodes' and a search icon. Below the navigation bar, a dashboard provides a quick overview of key performance indicators (KPIs):

- EM Work with no Downtime: 10% (green arrow pointing up)
- EM Work with no Failure Data: 44% (red arrow pointing up)
- Closed Work with no Actuals: 3% (green arrow pointing up)
- Work Orders Overdue: 433 (red arrow pointing up)
- Open Work Orders Waiting Approval: 131 (red arrow pointing up)
- Weather: 68°F, Sunny, Littleton, MA
- Humidity: 59%

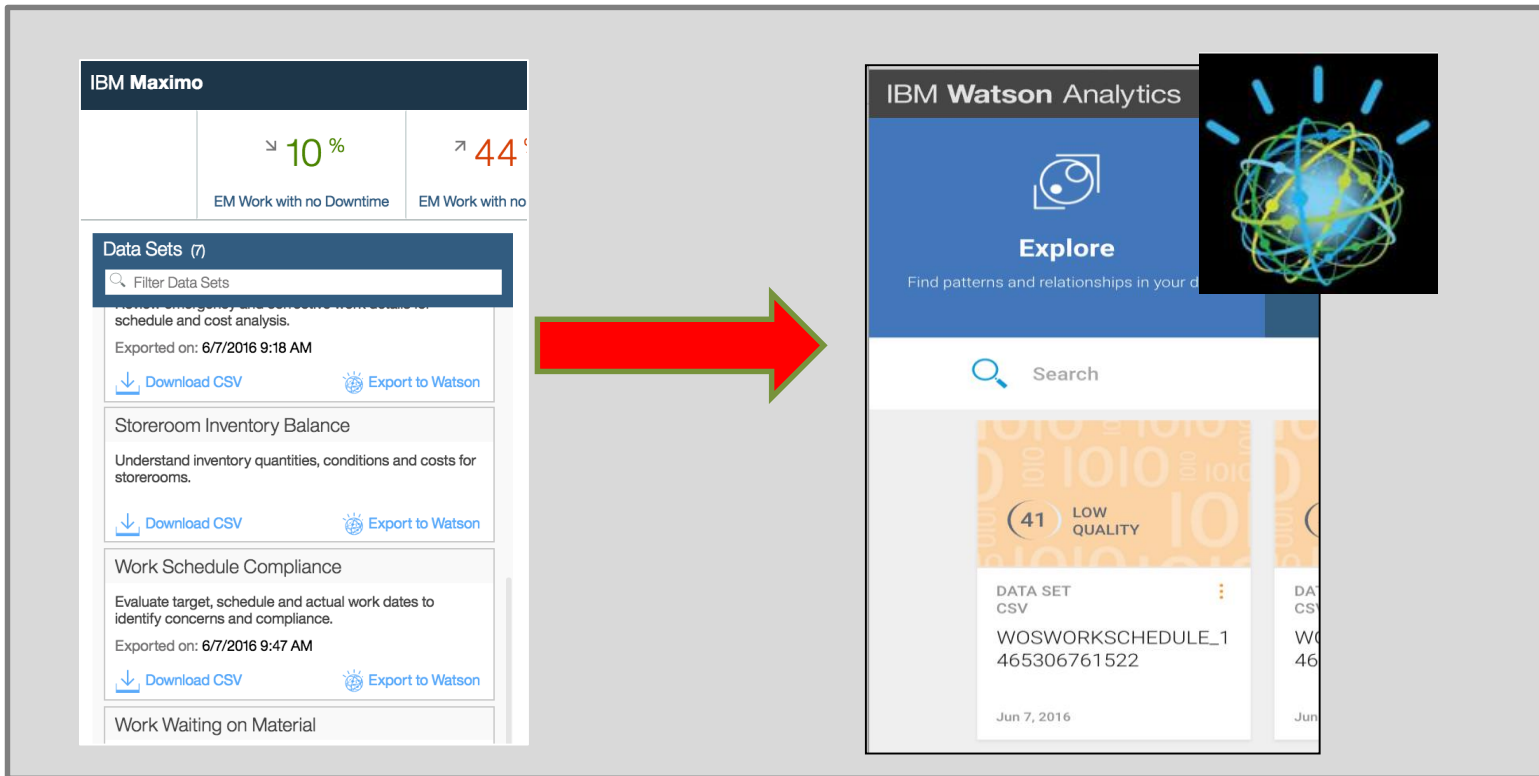
The main content area is divided into several sections:

- Data Sets (7):** A search bar for filtering data sets.
- Asset Details:** A section for comparing assets in critical areas of cost, downtime, manufacturer, and age. It includes 'Download CSV' and 'Export to Watson' options.
- Labor Analysis:** A section for reviewing labor crafts, skill levels, and overtime costs. It also includes 'Download CSV' and 'Export to Watson' options.
- Purchasing Spend:** A section for analyzing purchasing spend, including vendor, site, and contract details. It includes 'Download CSV' and 'Export to Watson' options.
- Reactive Work:** A section for reviewing emergency and corrective work details for schedule and cost analysis. It includes 'Download CSV' and 'Export to Watson' options.
- Storeroom Inventory Balance:** A section for understanding inventory quantities, conditions, and costs.
- Work Management:** A section with a 'Priority' filter (All, Priority 1, Priority 2, Priority 3, Priority 4). It contains:
  - Overdue Work (Quantity):** A horizontal bar chart showing overdue work quantity for various assets (PETERM, KAZMIER, JOED, SANCHEZ, REDDING, HUNTER, CSWILSON, BOYD, Blank) across different work order types (APPR, INPRG, WAPPR, WMATL, WSCH).
  - Backlog Work (Labor Hours):** A vertical bar chart showing backlog work in labor hours for categories: PM, Blank, CP, CM, EM, EV, MINOR, GAL, SIG, MAJOR.
  - Waiting on Material Work (Quantity):** A pie chart showing 50% Blank and 50% EV.
- Schedule Management:** A section with:
  - Supplier Deliveries Not Completed to Plan:** A donut chart showing the percentage of supplier deliveries not completed to plan, broken down by vendor (ATI, HELWIG, GST, WTI, BEARING, Blank, BALSTON, DELL, FSC).
  - Work Not Completed to Plan:** A map of the United States with a blue circle highlighting a specific geographic area.

Intuitive User Interface

# Maximo to Watson Analytics Integration!

7 Pre-Configured Data Sets *and* Seamless Export to Watson Analytics!



# Maximo 7.6.0.6 Delivers Data Sets + You can create your own!

The image displays two screenshots from the IBM Maximo interface. The left screenshot shows a dashboard with various data sets and charts. A red arrow points from the 'Data Sets (7)' section to the 'Data Set Designer' window on the right.

**Data Set Designer - Configure Content (Step 2 of 4)**

Select the fields that you want to use in your data set. You can rename the fields, change their order, and sort them.

**Available fields**

Object Set	Fields
Asset Details	<b>TOOLRATE</b> Tool Rate
Asset Items	<b>TOTALCOST</b> Total Cost
Asset Safety Plan	<b>TOTDOWNTIME</b> Total Downtime
Contract Asset Details	<b>TOTUNCHARGEDCOST</b> Total Uncharged Cost
Inventory	<b>UNCHARGEDCOST</b> Uncharged Cost
Location	<b>USAGE</b> Usage
Manufacturer	<b>VENDOR</b> Vendor
Meters	<b>WARRANTYEXPDATE</b> Warranty Expiration Date
Preventive Maintenance	<b>YTDTCOST</b> YTD Cost
Spare Parts	
Specifications	
Status (Must Be Fields)	
User and Custodian Details	
Work Order	

**Selected fields**

- ASSETNUM**  
Asset
- ASSETTYPE**  
Type
- PRIORITY**  
Priority
- FAILURECODE**  
Failure Class
- MANUFACTURER**  
Manufacturer
- TOTDOWNTIME**  
Total Downtime
- TOTALCOST**  
Total Cost

**Sort by (maximum of 3)**

- PRIORITY
- TOTALCOST
- MANUFACTURER

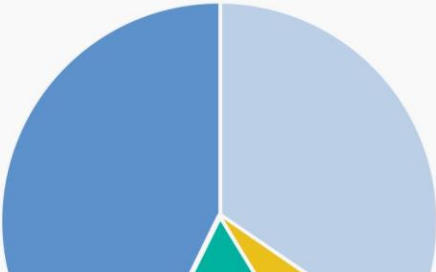


# Watson Analytics Display: Storybooks


IBM Watson Analytics IBM Maximo Asset Management: Asset Cross ...

IBM Maximo: Asset Performance Expert top findings Ask a question

Asset Total Costs



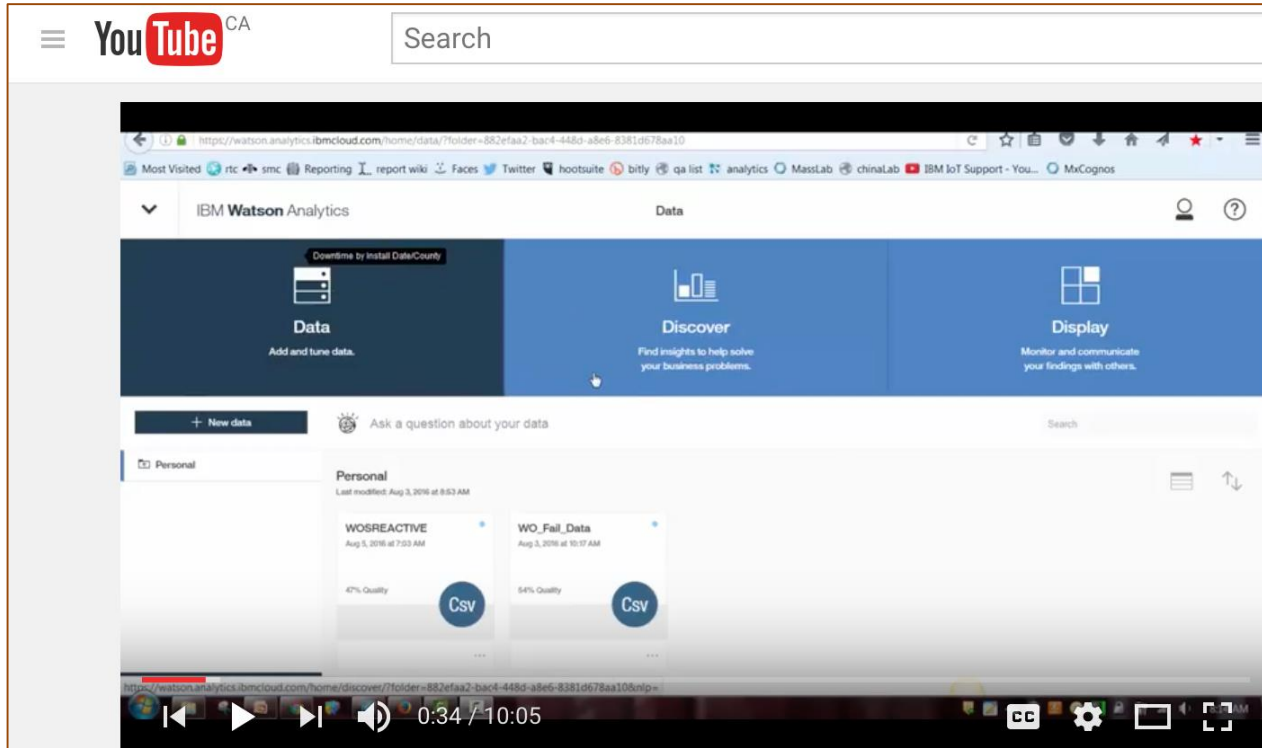
Asset Total Downtime



Assets Views by Manufacturer Asset YTD to Budget Costs

The image shows a screenshot of an IBM Watson Analytics dashboard. At the top, there's a navigation bar with a dropdown arrow, the text 'IBM Watson Analytics', and 'IBM Maximo Asset Management: Asset Cross ...'. On the right side of the navigation bar are icons for editing, user profile, and help. Below the navigation bar is a large banner image of industrial machinery with the text 'IBM Maximo: Asset Performance'. To the right of the banner are two buttons: 'Expert top findings' and 'Ask a question'. The main content area is divided into four panels. The top-left panel is titled 'Asset Total Costs' and contains a pie chart with three segments: a large blue one, a smaller light blue one, and a very small green and yellow one. The top-right panel is titled 'Asset Total Downtime' and contains a bar chart with 12 bars of varying heights, with a yellow line connecting the tops of the bars. The bottom-left panel is titled 'Assets Views by Manufacturer' and the bottom-right panel is titled 'Asset YTD to Budget Costs'. The dashboard is decorated with colorful geometric shapes in the corners.

# Maximo with Watson Analytics Recorded Demos



<https://ibm.biz/BdrbrN>

# Free Online Training at Watson IoT Academy

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Lisa ▾

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IBM Watson IoT Platform

IBM Asset Management

IBM Facilities Management

IBM Continuous Engineering

## Take Control of Your Business Assets

IBM Enterprise Asset Management solutions enable you to manage all types of assets, including plant, production, infrastructure, facilities, transportation, and communications. The powerful tools enable you to easily identify areas of risk, set policies to monitor assets, and predict asset performance.

# Interconnect 2017

- *The Premier Cloud & Mobile Conference*  
*March 19 - 23*  
*MGM Grand & Mandalay Bay, Las Vegas, NV*
  
- Call for papers announced – just extended to November 11<sup>th</sup>
  - <https://www.ibm.com/cloud-computing/us/en/interconnect>
  
- Internet of Things  
Asset Management Technologies
  - Predictive Maintenance and Quality
  - Maximo Asset Health Insights
  - Maximo Mobility



# About Cohesive Solutions

- Cohesive Solutions operates out of Kennesaw, Georgia. Cohesive provides business process transformation and consulting services which enables organizations to achieve higher ROI from their assets and the information technology that manages and maintains those assets. Cohesive's professionals have been serving clients since 1990.
- For more information visit [www.cohesivesolutions.com](http://www.cohesivesolutions.com) or contact Russ Anderton at [randerton@cohesivesolutions.com](mailto:randerton@cohesivesolutions.com).