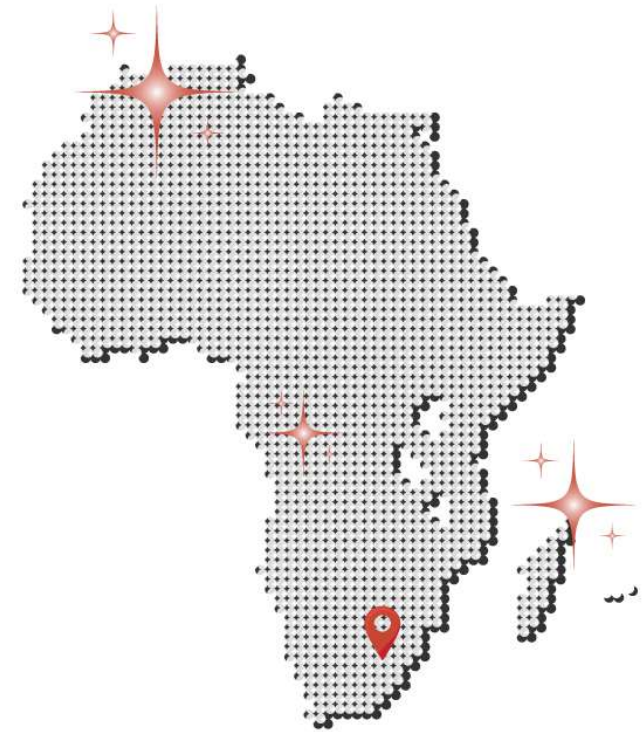




Exploring IPM Insights & Auto Predictions

Lydia Maksoud

Oracle ACE Pro



2023, 24 & 25
GOLD WINNER

Exploring IPM Insights & Auto Predictions

 **Lydia Maksoud** – Senior EPM Consultant, Brovanture
<http://lydia-maksoud-epm.blogspot.com>

November 2025

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About Me



Lydia Maksoud
Senior EPM Consultant
EPM Planning

Based in **London**



**Oracle ACE
Pro**

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Expertise in
Oracle Cloud Platform
in EMEA–Western Europe

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Service
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Expertise in
Oracle Cloud EPM Financial
Consolidation and Close
in EMEA–Western Europe

1st UK EPM Consultancy on PBCS Beta Program
1st Consultancy to implement PBCS
1st Consultancy to implement FCCS
1st UK Oracle Cloud Excellence Implementer –
recognised by Oracle as experts in Oracle Cloud SaaS



United Kingdom

South Africa

Ireland

United States

Established
in **2005**

40+
Oracle
Certified
Consultants



Customer
Experience is
Key

Oracle Cloud
EPM Expertise
certification

**Winner UKOUG EPM Partner of
the Year**



2024, 2023 & 2019

100+



Customers

Brovanture **success** is bringing **REAL value** to
our Customers



HM Government
G-Cloud
Supplier



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Agenda

- 1 ➤ What is IPM?
- 2 ➤ Who can access IPM?
- 3 ➤ Why implement IPM?
- 4 ➤ IPM Demo

What is IPM?

Overview of IPM

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IPM Overview



- Intelligent Performance Management (IPM)
- Incorporated directly into EPM Planning applications, with no separate installs required
- Purpose of IPM is to:
 1. **AutoPredict** – Provide automated predictions using Predictive Planning methods
 2. **Insights** – Analyse data and give insight into anomalies or patterns which may otherwise go unnoticed
- Schedule insight jobs to automate the above and reduce manual effort
- Increase accuracy and save time on future forecasting
- Released as part of the November 2021 (21.11) update
- New features including Events, Calendars, Tags, Summaries & Smart View

Auto-Predictions



- Automatically **predicts future periods** based on historical data in the system
- Uses the same time-series forecasting and statistical methods as **Predictive Planning**, but isn't limited to a form!
- Results of auto-predictions can be stored in a specified slice in EPM
- Used as part of generating **Prediction Insights**, for comparison to future Forecasts
- More accurate with more historic data - should be at least twice the amount of history as the number of future periods being predicted
- Optional to create auto-predictions during configuration
- Bring your own machine learning

Events

- Add context to Predictions
- Different types of events:
 - **One-off** – An event you don't expect to be repeated, but do want to include it in the data
 - **Repeat** – An event that is regularly repeated, where increases or decreases will also be repeated, e.g. Christmas
 - **Skip** – an event you don't expect to be repeated, and don't want to include in the data. Data for Skip events is removed from the series.

Events

Actions ▾

Add Event

Q Search

Calendar UK

Name ▾	Description ▾	Type ▾	Calendar ▾	Starts on ▾	Duration ▴	Interval ▾	Occurrences	Active	Actions
Christmas	Run up to festive peri	Repeat	UK	FY23->Dec	1	12	FY23->Dec	+ ☒	✓ ✕

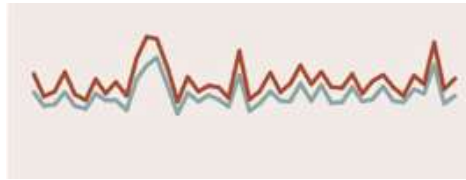
Types of Insight

Forecast Variance & Bias Insight



Measures variance and/or bias between two **historical** scenarios

Prediction Insight



Measures variance between two **future** scenarios

Anomaly Insight



Detects anomalies in recent **Actual** months

Insights List

List of insight details

Insights									
Search									
#jul_forecast Type Anomaly Status Open Priority High More Filters									
85 results									
☐	Priority	Impact	Value	POV	Type	Details	Status	Created	Comments
☐	High	83.43%	\$363K	Sales US - East-Ultra Notebook 13 in	Anomaly	Actual Product Revenue 90.97% lower in Jun FY24	Open	3/31/25 11:53 PM	
☐	High	70.80%	\$398.66K	Sales US - East-Ultra Notebook 15 in	Anomaly	Actual Product Revenue 82.91% lower in Jun FY24	Open	3/31/25 11:53 PM	
☐	High	50.93%	\$2,462	Line 2-FM IT-Base Resource	Forecast Variance & Bias	Actual Contract Revenue - Cost Plus 13.80% lower than forecast	Open	3/31/25 11:52 PM	
☐	High	49.94%	\$32,780	Line 1-FM IT-Base Resource	Forecast Variance & Bias	Actual Contract Revenue - Cost Plus 12.54% lower than forecast	Open	3/31/25 11:52 PM	2
☐	High	52.56%	\$4.38M	Sales US - East-Tablet 8 in	Anomaly	Actual Product Revenue 221.56% higher in Jun FY24	Open	3/31/25 11:53 PM	
☐	High	82.37%	\$169.63K	Manufacturing US-Machinery and Equipment	Forecast Variance & Bias	Actual Capital Expenditure 19.61% higher than forecast	Open	3/31/25 11:46 PM	1
☐	High	32.97%	\$27,376	Sales US - West	Forecast Variance & Bias	Actual Total Travel and Entertainment Expense 30.94% lower than forecast	Open	5/7/25 3:49 AM	
☐	High	47.60%	\$157.85K	Sales US - West-273-Ultra Power Server 3000 Series	Anomaly	Actual 41000-Revenue - Domestic 64.50% lower in Jun FY24	Open	3/31/25 11:47 PM	
☐	High	40.31%	\$52,460	Line 1-FM IT-Base Resource	Prediction	Predicted Contract Revenue - Cost Plus 31.98% lower than forecast	Open	3/31/25 11:52 PM	2
☐	High	41.08%	\$7.9M	Sales US - East-Smart Phone 6 in	Anomaly	Actual Product Revenue 139.43% higher in Jun FY24	Open	3/31/25 11:53 PM	

Insights Summary

Generative AI Summary of selected Insights

InsightsConfigureML ModelsTags

Summary

Search

#jul_forecastCreated 2025-10-17 - 2025-10-24

3 results

Summary Name	POV
☐ Forecast Variance - Green Servers	A_41000, No Cost Center, OEP_Working, USD, L_10, OEP_Forecast, IC_000
☒ Revenue Analysis - Sales South	FY24, OFS_Product Revenue, OEP_Actual, Jun, OEP_Working, US Market, USD, OFS_Load
☐ Revenue Analysis - Technology - Sales West	A_41000, USD, OEP_Actual, OEP_Working, FY24, IC_000, Jun, L_10, No Cost Center

Revenue Analysis - Sales South

In 'Sales US - South, Electronic Products', an anomaly was observed for Product Revenue in Jun FY24. Product Revenue during this period was valued at \$28.96M, which is a significant increase of 56.54% from the historical average value of \$18.5M over the past 24 months.

Electronic Products:

- Smartphones:** The 'Smartphones' category generated \$16.08M of Product Revenue in Jun FY24, marking a significant 66.50% increase compared to the historical average of \$9.66M. It contributed 55.54% to the Product Revenue which is a substantial increase compared to its historical average contribution of 52.21%.

Created by Oracle AI • 5/4/25 6:37 PM

InsightsSummary

Forecast Variance & Bias Insights

Reveals potential hidden bias in forecasts submitted by planners by analysing past data

Actual Contract Revenue - Cost Plus 12.54% lower than forecast

Forecast Variance & Bias | Line 1-FM IT-Base Resource

Cancel

Dismiss

The actual Contract Revenue - Cost Plus value for Line 1,FM IT,Base Resource for the last 2 years was 2.58M whereas the forecasted Contract Revenue - Cost Plus value for the same period was 2.95M. The actual Contract Revenue - Cost Plus values are typically 12.54% lower than the forecasted Contract Revenue - Cost Plus values.



Insights AI

Explainability

Comments 2

During the period from Jul FY22 to Jun FY24, the actual Contract Revenue - Cost Plus amounted to \$2.58M, which is notably lower than the forecasted figure of \$2.95M. This variance between the actual and the forecast reflects a substantial deviation, amounting to a percentage difference of 59.91% and a mean deviation of \$32,780.

It is worth noting that the forecast values were significantly higher than the actual values for 5 periods under analysis, indicating over-forecasting bias.

Created by Oracle AI • 8/21/25 5:19 AM

What would you like to do?

	Jul FY22	Aug FY22	Sep FY22	Oct FY22	Nov FY22	Dec FY22	Jan FY23	Feb FY23	Mar FY23	Apr FY23	May FY23	Jun FY23	Jul FY23	Aug FY23	Sep FY23	Oct FY23	Nov FY23	Dec FY23
Forecast (OEP_Forecast)	99,406	111K	154K	118K	126K	73,856	155K	69,348	79,381	142K	177K	105K	149K	106K	156K	123K	114K	111K
Actual (OEP_Actual)	12,334	60,633	126K	54,497	128K	114K	82,184	106K	93,132	108K	146K	123K	136K	116K	87,851	102K	165K	147K

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- Analysis of data history & variances
- Context with natural language processing
- Options provided for action based on insight

Insight Explainability Panel

Additional information on each insight:

- Insights AI
- Explainability
- Comments

Insights AI

Explainability

Comments 2

During the period from Jul FY22 to Jun FY24, the actual Contract Revenue - Cost Plus amounted to \$2.58M, which is notably lower than the forecasted figure of \$2.95M. This variance between the actual and the forecast reflects a substantial deviation, amounting to a percentage difference of 59.91% and a mean deviation of \$32,780.

It is worth noting that the forecast values were significantly higher than the actual values for 5 periods under analysis, indicating over-forecasting bias.

Created by Oracle AI • 8/21/25 5:19 AM

Insights AI

Explainability

Comments 2

Variance analysis

59.91%

Mean absolute percentage error

\$32,780

Mean absolute deviation

MAPE ⓘ

Variance metric

20.00%

Threshold

Yes

Historical variance

59.91%

Metric value

49.94% ⓘ

Impact (Standard variance)

Bias analysis

RPD ⓘ

Bias metric

40.00%

Threshold

Insights AI

Explainability

Comments 2

Enter Comments

8/21/25 5:19 AM

Amy.Marlin

There are delays in milestone signoff as well resource level availability for contractual fulfilment. This [#risk](#) mitigation options are being discussed in [#bu_review](#) meetings. We will highlight this in [#jun_mbr](#) as well. As with [#jul_forecast](#) we are still in discussion internally.

8/21/25 5:19 AM

Henry

[@Amy.Marlin](#) - What is the reason for this variance? This impacts the overall [#forecastaccuracy](#) for [#jun_forecast](#) What are the measures required to improve in [#jul_forecast](#) ? Is there any [#risk](#) that needs to be highlighted in [#jun_mbr](#) review meeting?

Prediction Insights

Analyses variances between predicted scenarios such as forecasts and computer-generated projections

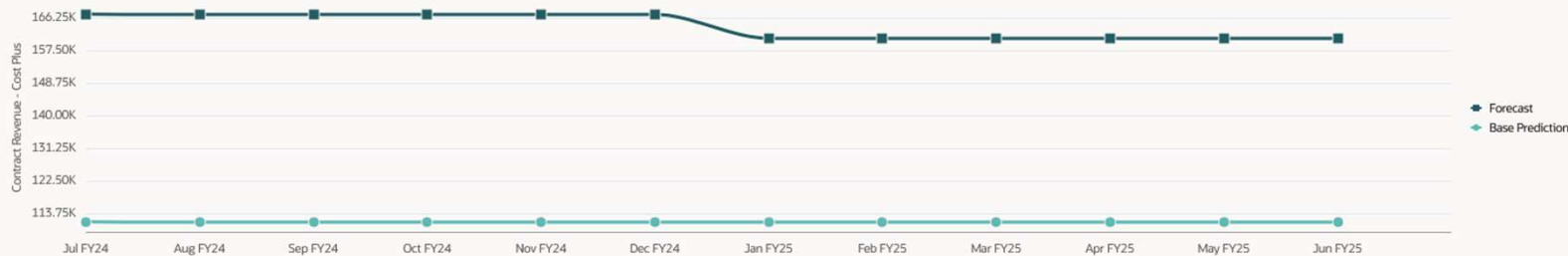
Predicted Contract Revenue - Cost Plus 31.98% lower than forecast

Prediction | Line 1-FM IT-Base Resource

Cancel

Dismiss

The Contract Revenue - Cost Plus predicted value for Line 1,FM IT,Base Resource for the next 12 periods is 1.34M whereas the forecasted Contract Revenue - Cost Plus value for the same period is 1.97M. The predicted Contract Revenue - Cost Plus values are typically 31.98% lower than the forecasted Contract Revenue - Cost Plus values.



Insights AI

Explainability

Comments 2

The sum of predicted Contract Revenue - Cost Plus in the upcoming 12 months is anticipated to reach \$1.34M, in contrast to the forecast of \$1.97M. This outcome reflects a substantial variance between the forecast and the base prediction, amounting to a mean percentage difference of 47.01% and a mean absolute difference of \$52,460.

Created by Oracle AI • 8/21/25 5:19 AM



What would you like to do?

	Jul FY24	Aug FY24	Sep FY24	Oct FY24	Nov FY24	Dec FY24	Jan FY25	Feb FY25	Mar FY25	Apr FY25	May FY25	Jun FY25
Forecast (OEP_Working)	167K	167K	167K	167K	167K	167K	161K	161K	161K	161K	161K	161K
Base Prediction (Best Case)	112K	112K	112K	112K	112K	112K	112K	112K	112K	112K	112K	112K

OVERRIDE

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Anomaly Insights

Identifies inconsistency in historic actuals by highlighting outlier values

Actual Onsite Labor Expense 135.15% higher in Jun FY24

Anomaly | Line 4-Future Engineering 2020-Base Resource

Cancel

Dismiss

Line 4,Future Engineering 2020,Base Resource's Onsite Labor Expense for Jun FY24 was 51,890 which is 135.15% higher than the overall periodic average of 22,067.



Insights AI

Explainability

Comments 1

The Onsite Labor Expense for Jun FY24 experienced a notable uptick when compared to the historical monthly average. With a recorded figure of \$51,890 this past month, the Onsite Labor Expense surpasses the historical mean of \$22,067 by a significant margin of \$29,823, or close to 135.15%.

In assessing the data over the previous 24 months, no anomalies have been previously detected.

Taking into account the historical fluctuations in the data over the specified period, it is evident that this month's Onsite Labor Expense stands as an outlier. As a result, we strongly recommend a thorough review of this development.

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Benefits of IPM

Data Quality

- Finds issues that may have otherwise gone unnoticed
- Suggests data fixes which will improve data accuracy
- Encourages users to trust quality of system data

Efficiency

- Auto-predictions reduce manual effort
- Automation of insights cuts down manual tasks for validating data
- Reduces need for in-depth data analysis prior to reporting

Collaboration

- Provide common store of historical biases or areas of insight
- Encourages conversation around specific data points, rather than whole data sets

Who can access IPM?

Licensing support for IPM

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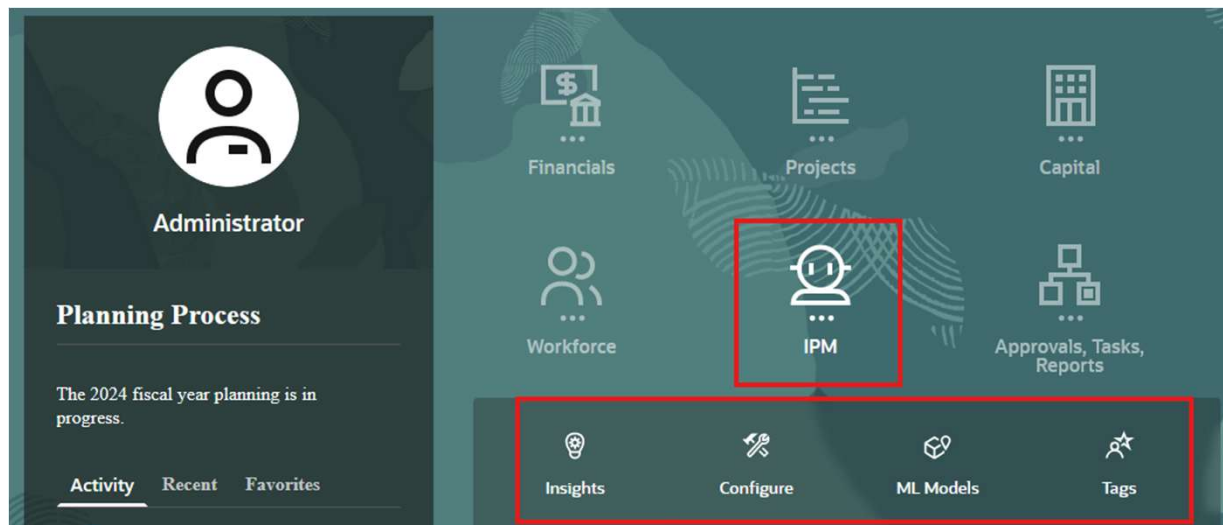
IPM Availability Matrix

SKU	Business Process	App Type	IPM Availability	Comments
EPM Enterprise	Planning	Modules	Supported	Hybrid Required
		Custom	Supported	Hybrid Required
		Free Form	Supported	Hybrid Required
		Cash Forecasting	Supported	Hybrid Required
	Financial Consolidation and Close		Supported	Hybrid Required
	Enterprise Profitability and Cost Mgmt		Supported	Hybrid Required
	Tax Reporting		Supported	Hybrid Required
	Other Business Processes		Not Supported	
Legacy SKU	Planning	EPBCS	Not Supported	
		PBCS	Not Supported	
EPM Standard	Planning	Standard Module	Not Supported	

Source: https://docs.oracle.com/en/cloud/saas/planning-budgeting-cloud/pfusa/insights_considerations.html

IPM Insights via Web

Released as part of the 21.11 update in November 2021. If applicable to your SKU, the IPM icon will automatically be included on your navigation flow, as below:



The IPM cluster consists of:

- **Insights** – the dashboard which will display insights for planners
- **Configure** – for administrators to setup new prediction/insight functionality
- **ML Models** – allows admins to setup a custom machine learning model
- **Tags** – administer & manage available tags for insights

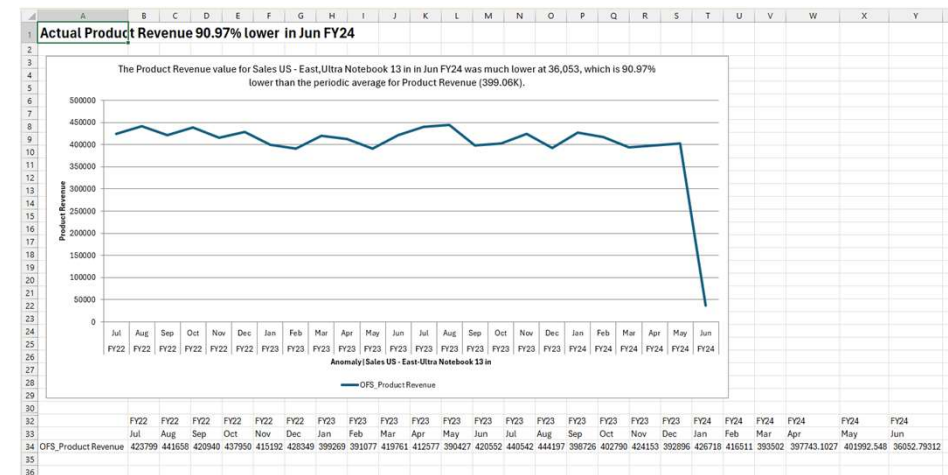
IPM Insights via Excel Smart View

Smart View version **25.100** was released as part of the 25.04 update in April 2025, which enables use of IPM insights via Smart View in Excel.

Able to view list of insights, then perform the following:

1. **Analyse** a particular insight (tick one) – will open a new ad hoc grid containing the insight data for analysis
2. **Insert Function** (tick one) – will create a HsGetInsight function for the selected insight
3. **Insert** into a sheet (tick one or more) – will insert a static view of the insight information, including a visual graph and grid, as shown in the web interface

Impact	Value	Details	POV	Type	Priority	Status
☐ 83.4...	363,004	Actual Product Revenue 90.97% lower in Jun FY24	Sales US - East-Ultra Notebook...	Anomaly	High	Open
☐ 70.8...	398,664	Actual Product Revenue 82.91% lower in Jun FY24	Sales US - East-Ultra Noteboo...	Anomaly	High	Open
☐ 61.5...	2,462	Actual Contract Revenue - Cost Plus 13.80% lower than forecast	Line 2-FM IT-Base Resource	Forecast Va...	High	Open
☐ 59.9...	32,780	Actual Contract Revenue - Cost Plus 12.54% lower than forecast	Line 1-FM IT-Base Resource	Forecast Va...	High	Open
☐ 52.5...	4,383,420	Actual Product Revenue 221.56% higher in Jun FY24	Sales US - East-Tablet 8 in	Anomaly	High	Open
☐ 51.7...	169,630	Actual Capital Expenditure 19.61% higher than forecast	Manufacturing US-Machinery ...	Forecast Va...	High	Open
☐ 49.5...	27,376	Actual Total Travel and Entertainment Expense 30.94% lower t...	Sales US - West	Forecast Va...	High	Open
☐ 47.6...	157,848	Actual 41000-Revenue - Domestic 64.50% lower in Jun FY24	Sales US - West-273-Ultra Po...	Anomaly	High	Open
☐ 47.0...	52,460	Predicted Contract Revenue - Cost Plus 31.98% lower than for...	Line 1-FM IT-Base Resource	Prediction	High	Open
☐ 41.0...	7,901,760	Actual Product Revenue 139.43% higher in Jun FY24	Sales US - East-Smart Phone ...	Anomaly	High	Open
☐ 40.3...	29,823	Actual Onsite Labor Expense 135.15% higher in Jun FY24	Line 4-Future Engineering 202...	Anomaly	High	Open
☐ 40.0...	34,061	Actual Total Marketing Expense 24.07% lower than forecast	Sales US - West	Forecast Va...	High	Open
☐ 39.4...	9,734,888	Actual Product Revenue 130.19% higher in Jun FY24	Sales US - East-Smartphones	Anomaly	High	Open
☐ 39.4...	28,951	Predicted Total Marketing Expense 27.88% lower than forecast	Sales US - West	Prediction	High	Open
☐ 37.8...	41,660	Actual Total Facilities Expenses 18.32% lower than forecast	Sales US - East	Forecast Va...	High	Open
☐ 36.6...	904,217	Actual Product Revenue 115.71% higher in Jun FY24	Sales US - East-Sentinal Stan...	Anomaly	High	Open
☐ 36.0...	543,336	Actual Product Revenue 112.74% higher in Jun FY24	Sales US - East-Sentinal Cust...	Anomaly	High	Open
☐ 35.9...	98,401	Actual 41000-Revenue - Domestic 52.92% lower in Jun FY24	Sales US - West-274-Ultra Po...	Anomaly	High	Open
☐ 35.5...	4,095,489	Actual Product Revenue 110.37% higher in Jun FY24	Sales US - East-Tablets	Anomaly	High	Open



IPM in FCC

IPM insights available in FCC since July (25.07) patch
Only 1 insight type available – **Anomaly!**

Learn more about FCC at **4pm today!**

Streamlined Consolidation: See the Connected Close in Action

Sarah Dow & Kim Kannemeyer

Actual Sales 69.5% higher in Dec FY23

Anomaly | North America

Cancel

Dismiss

The average periodic Sales value for North America was 147.29M. However, the value for Dec FY23 was 249.6M, which is 69.5% higher than the average.



Insights AI

Explainability

Comments 0

The Sales for the month of December FY23 experienced a notable uptick when compared to the historical monthly average. With a recorded figure of 249.6M, the Sales surpass the historical mean of 147.29M by a significant margin of 102.31M, or close to 69.5%.

In assessing the data over the previous 12 months, no anomalies have been previously detected.

Taking into account the historical fluctuations in the data over the specified period, it is evident that this month's Sales stands as an outlier. As a result, we strongly recommend a thorough review of this development.

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Why implement IPM?

Benefits of IPM

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Why implement Auto Predict?

To produce future predictions based on latest set of historic Actuals, aiming to reduce overall manual forecasting effort

- Large Data sets
- Not limited to running on a form
- Prediction scenario for comparison to Forecast
- Pre-fill base Forecast
- Scheduled



Example Use Case – Auto Predict Driver

- IPM auto-prediction data can be surfaced on forms for users to review
- This data can then be referenced using a smart list driver

Seed Overheads Drivers - FC1 ⓘ

Currency	ExchRate	User_Version	User_Division	User_Account	User_Entity
Local Currency	Input Rate	Working	Division	Total Overheads	201 --

	FY23 Forecast 1	FY23 Forecast 1	FY23 Forecast 1	Actual
	Driver CostCentre	Driver CostCentre	Total Cost Centres	Total Cost Centres
	Driver Country	Driver Country	Total Country	Total Country
	Driver Selection	Driver Spread	Base	Extended Prediction with Anomalies Removed
	FY23	FY23	FY23	FY23
	BB	BB	YearTotal	YearTotal

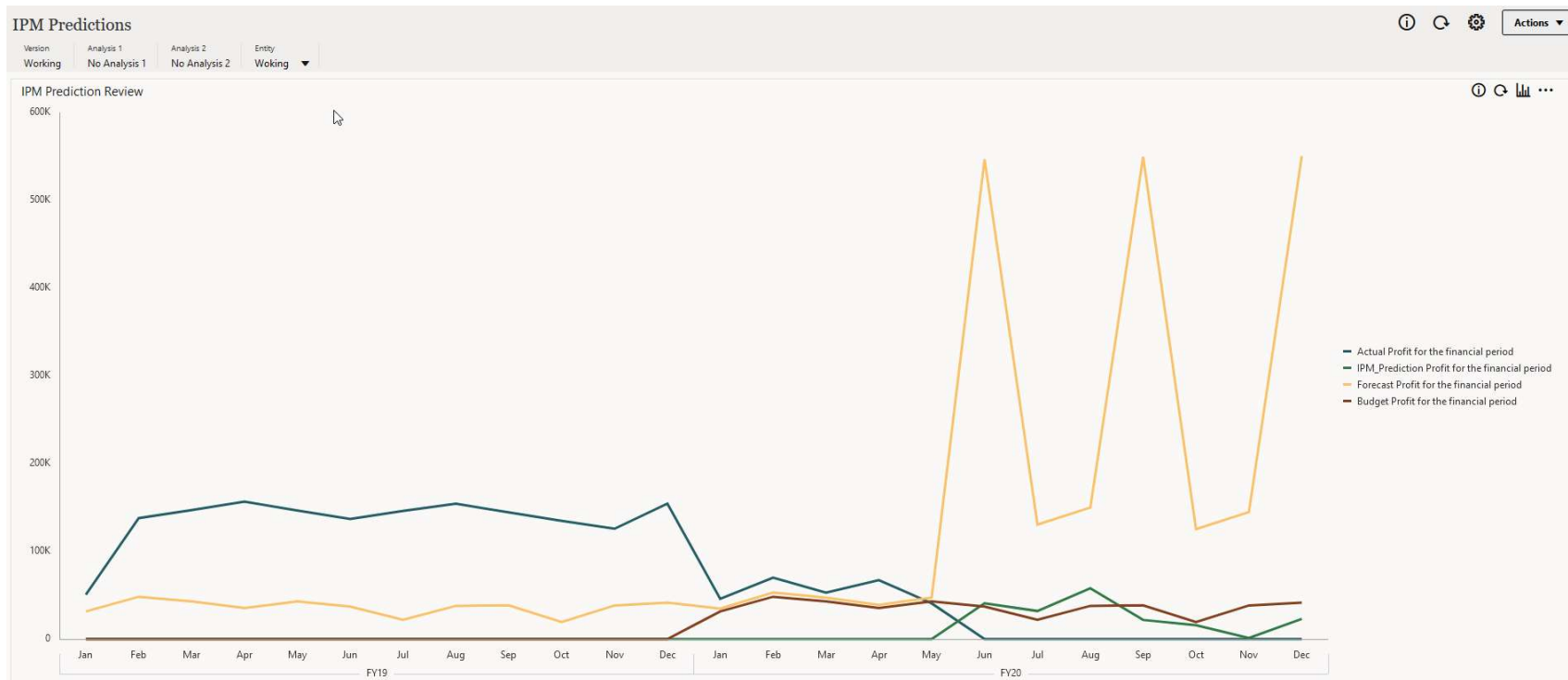
	Total Overheads
201 --	03700 -- Freight Cost
201 --	03700M -- Freight Cost Mfg

	Actual Prediction
	Actual Prediction

Entries
Search
Name
-
Manual
Actual Prediction
Actual Prediction - Year 2 %
Budget - Finalised
Budget - Finalised - Year 2 %

Example Use Case – Comparison

- Compare the IPM Auto Prediction against Actuals, Budget and Forecasts



Prediction Report

- Download report of prediction methods used and accuracy for each combination

Run By	Job Start	Job End	Duration (minutes)	Total Series	Successful Series
Service Administrator	Mar 29, 2023 1:29:23 PM	Mar 29, 2023 1:29:33 PM	0.15	1347	488
		Reference Data	Base Prediction		
Date Range	Jan-FY21 - Dec-FY23, (24)	Jan-FY23 - Jun-FY25, (30)			
Cube	PLOSS	PLOSS			
POV Dimensions					
Scenario	Actual	Actual			
Version	Working	Working			
Division					
Currency	"Local Currency"	"Local Currency"			

	A	B	C	D	E	Currency	F	Local Currency	G	Local Currency	H
1						Series Dimensions					
2	Status	Code	Accuracy	Method	Account		Entity		Cost Centre		Country
3	Success		82.25%	ARIMA	01000 -- Sales	400 --			200 -- Margin		United States
4	Error		0.00%	None	01000 -- Sales	410 --			000 -- Balance Sheet		Canada
5	Success		91.87%	ARIMA	01000 -- Sales	410 --			100 -- Commercial Margin		Canada
6	Error		0.00%	None	01000 -- Sales	420 --			200 -- Margin		Mexico
7	Success		28.75%	DMA	01000 -- Sales	420 --			000 -- Balance Sheet		Mexico
8	Success		0.00%	ARIMA	01020 -- Discounts	400 --			200 -- Margin		United States
9	Error		0.00%	None	01020 -- Discounts	420 --			200 -- Margin		Mexico
10	Success		72.25%	ARIMA	01020 -- Discounts	420 --			000 -- Balance Sheet		Mexico
11	Success		31.50%	ARIMA	01030 -- Intercompany Sa	400 --			200 -- Margin		United States
12	Success		31.50%	ARIMA	01030 -- Intercompany Sa	745 --			200 -- Margin		United States

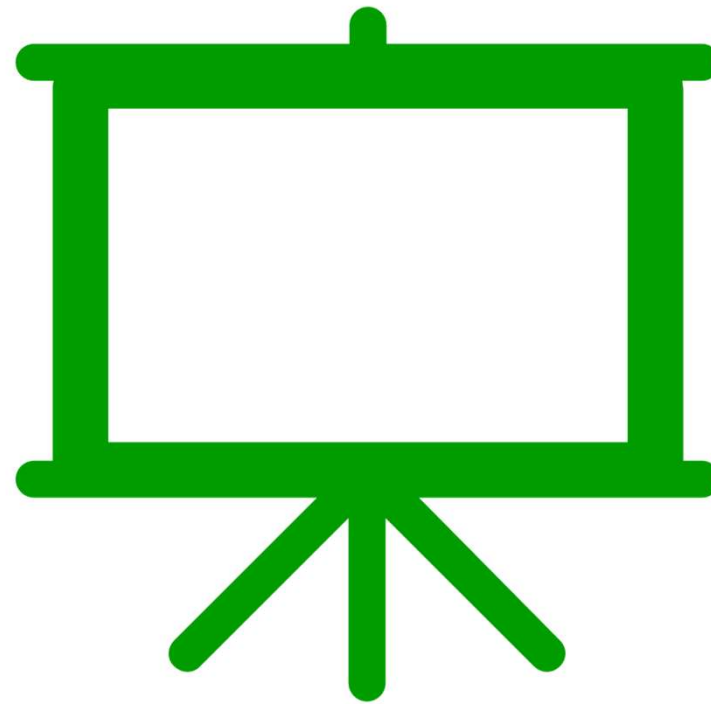
Why implement IPM Insights?

Difficult to detect hidden anomalies or biases due to complex build-up of data structures, including:

- Trends
- Seasonality
- Other (Holiday etc.)
- Residual
- Identify Events



Insights Demo



Summary & IPM Roadmap

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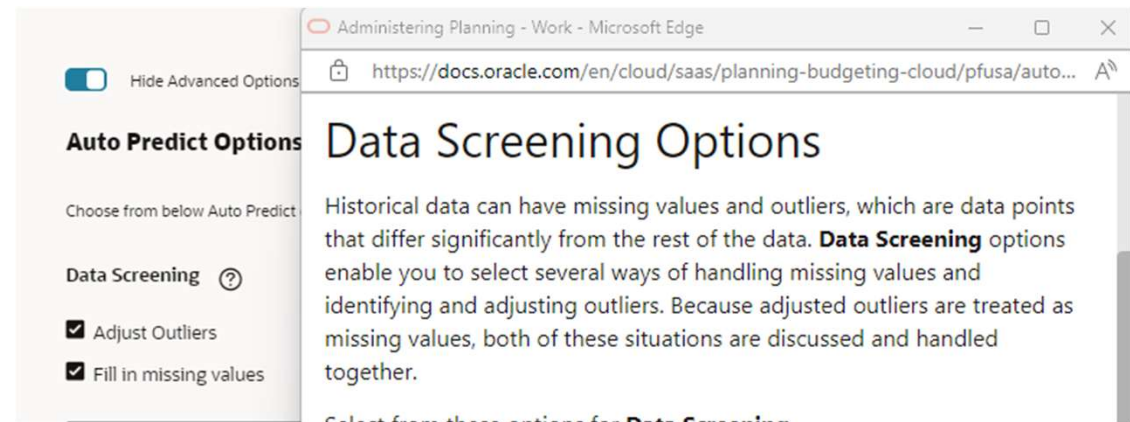
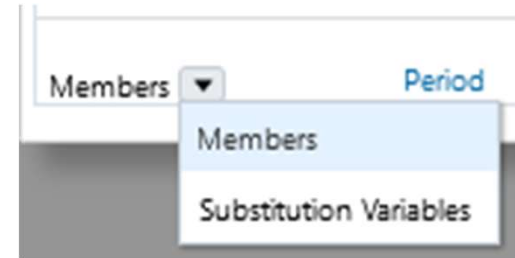
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Helpful Features

- Periods setup
 - Can use substitution variables
 - Or can use Scenario periods
- Help buttons
 - Useful to explain statistical methods
 - Very well documented
- Scheduling
 - Jobs can be automated by scheduling in job console
 - Can run via REST API
- Prediction Reports



Limitations

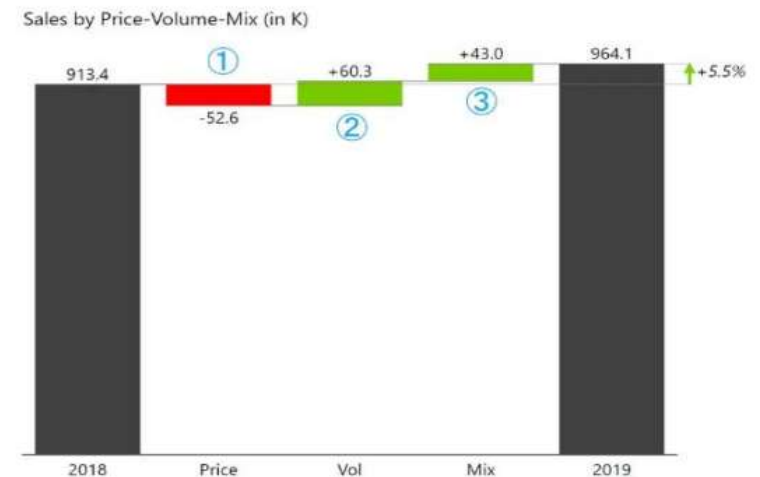
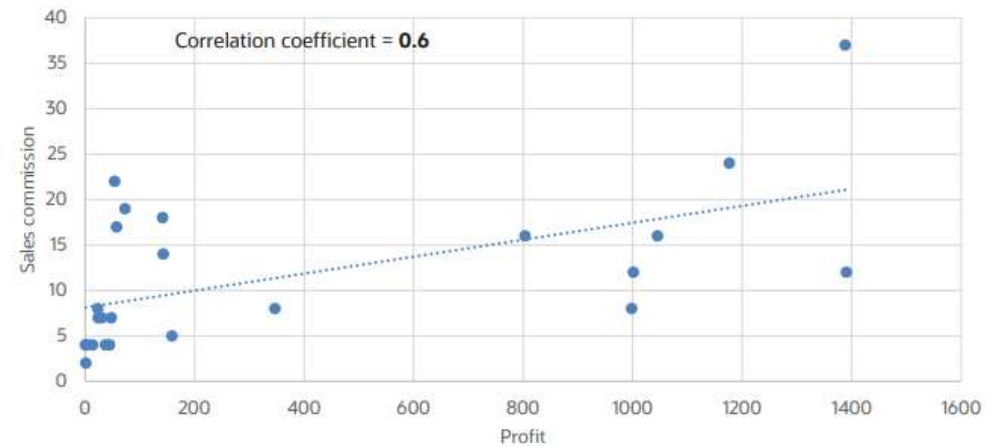
- Historic Data
 - Prediction results are more accurate the more historical data you have. There should be at least twice the amount of historical data as the number of prediction periods.
 - When series have less than six historical data points, Auto Predict does not use forecasting, instead it uses a straight line fit for the prediction series.
 - Threshold limit
 - maximum threshold limit for the member selections when predicting
-  Error 02:14 PM X

Unable to load the following resource: Unable to save this artifact as Analyze cube's member selection exceeds the threshold limit.
Consider redesigning the artifact by breaking Auto Predict job into multiple jobs.
- Missing / inconsistent Values
 - Recommend using ASO upper levels for consistency

IPM Roadmap *(safe harbour)*

Expecting 2 new insight types:

1. **Correlation insight** – uses cross-correlations to determine relationships between two data series over time
2. **Price Volume Mix insight** – used to break down the change in revenue or margins into some key components: price impact, volume impact, and product mix impact



Thanks for listening!



Any questions?

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For more info on IPM Insights:

- <https://brovanture.com/intelligent-performance-management-ipm-in-the-november-2021-release-of-oracle-cloud-epm/>
- <https://docs.oracle.com/en/cloud/saas/planning-budgeting-cloud/pfusa/insights.html>



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