



# Oracle BI 12.2.1 New Features

## IOUG BIWA SIG TechCast

**November 20, 2015**

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**<http://www.vlamiS.com>**

# Oracle BI 12.2.1 New Features Agenda

- IOUG, BIWA and Vlamis background
- Agenda for reviewing features:
  - Lots of new features – mostly demo
  - More information (Q&A)
- Use Questions or Chat or Questions to communicate  
[www.vlamis.com](http://www.vlamis.com)

The screenshot shows the Vlamis website's 'Papers and Presentations' page. The navigation bar includes 'Home', 'Blog', 'About Us', 'Data Mining', 'OBIEE', 'OLAP', 'Papers and Presentations', 'Services', 'Technologies', 'Training', and 'More'. The 'Papers by Year' sidebar has a red box around the '2013' link. The main content area is titled 'Papers and Presentations | 2013' and lists several presentations with abstracts and presentation links.

The screenshot shows a GoToWebinar interface. The 'Screen Sharing' window is active, showing a 'Showing screen' status. The 'Audio' section shows 'Telephone' selected and 'Mic & Speakers' as an option. The 'Chat' window is highlighted with a red box and contains the following text:  
3:26 PM: Thank you Dan for a great rehearsal! We look forward to your live webcast!  
IOUG Headquarters (to Me - Private):  
3:29 PM: Questions will appear here  
Below the chat window, it says 'Organizers and Panelists Only' and 'Send'. At the bottom, it displays 'REHEARSAL: IOUG BIWA SIG Webcast: What's New in OBIEE 11.1.1.9', 'Webinar ID: 102-674-339', and 'This session is being recorded.' The GoToWebinar logo is at the bottom right.



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BIWA Summit 2016, Jan 26-28

Oracle HQ Conference Center

Business Intelligence, Warehousing and Analytics  
and Spatial

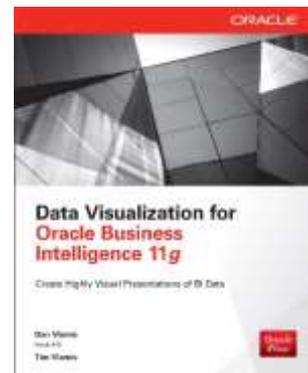
IOUG Special Interest Group

[www.biwasummit.org](http://www.biwasummit.org)



# Dan Vlamis and Vlamis Software Solutions

- Vlamis Software founded in 1992 in Kansas City, Missouri
- Developed more than 200 Oracle BI systems
- Specializes in ORACLE-based:
  - Data Warehousing
  - Business Intelligence
  - Data Mining and Predictive Analytics
  - Data Visualization
- Expert presenter at major Oracle conferences
- Conference chair for BIWA Summit 2014 - 2016
- [www.vlamis.com](http://www.vlamis.com) (blog, papers, newsletters, services)
- Co-author of book “Data Visualization for OBI 11g”
- Co-author of book “Oracle Essbase & Oracle OLAP”
- Oracle University and Gold Partner
- Beta tester for OBIEE 11g & 12c



ORACLE EDUCATION RESELLER

ORACLE Gold Partner

Specialized  
Oracle Business Intelligence  
Foundation Suite 11g



# Month of IOUG BIWA Techcasts

Time	Title
Nov 19 12pm	Oracle BI 12.2.1 New Features
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Dec 9 12pm	Oracle Data Visualization Cloud Service Live Demo
Dec 16 12pm	Oracle BI 12.2.1 New Features (repeat)

More information and sign up at [www.vlami.com/papers2015/#novdec](http://www.vlami.com/papers2015/#novdec)



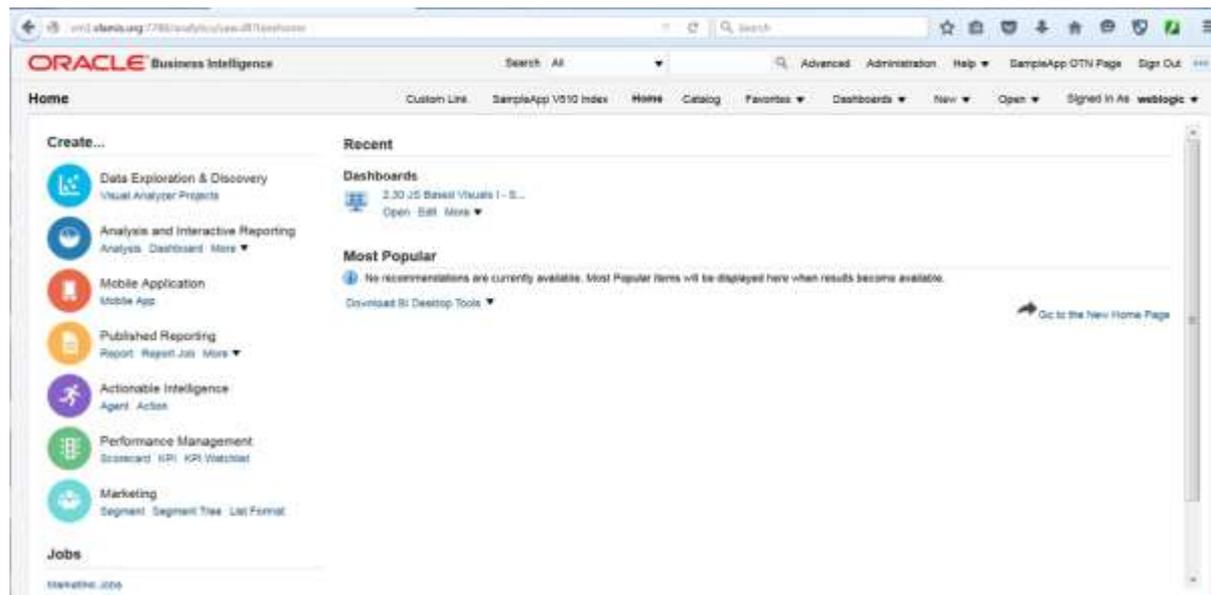
# OBIEE Major Releases

- 11.1.1.3 (August 2010)
  - Huge release with major new functionality
- 11.1.1.5 (May 2011)
  - BIWA TechCast May 25: [Oracle BI 11.1.1.5 Released - Changes and New Features](#)
  - Platform for BI Apps 7.9.6.3 to migrate to OBIEE 11g
  - Introduction of BI Mobile (iPad only)
  - OLAP integration
  - 64-bit Admin Tool, separate install
- 11.1.1.6 (February 2012)
  - BIWA TechCast Feb 29: [Oracle BI 11.1.1.6 New Features](#)
  - Platform for Exalytics (announced Oct 2011)
  - TimesTen integration
  - New features mostly for Exalytics
- 11.1.1.6.2 and 11.1.1.6.2 BP1 (May 2012 and June 2012)
  - BIWA TechCast Aug 1: [Oracle BI 11.1.1.6.2 BP1 New Features](#)
  - BI Mobile rewrite
  - Trellis Views
- 11.1.1.7 (April 2013)
  - BIWA TechCast Apr 5 [Oracle BI 11.1.1.7 New Features](#)
  - Freeze headers/scroll bars for tables and pivot tables
  - View and manipulate BI content in SmartView in Excel and enhanced export
  - New Oracle R Enterprise (ORE) integration and capabilities
- 11.1.1.9 (May 2015)
  - BIWA TechCast Jun 4, 2015 [Oracle BI 11.1.1.9 New Features IOUG BIWA SIG TechCast](#)
  - Control # decimal places on scores in OSSM
  - Search in Subject Areas pane
  - New Treemap view
  - Global variables and Save Column As choice in Criteria tab
- 12.2.1 (October 2015)

Prior release presentations at [www.vlamiS.com](http://www.vlamiS.com)

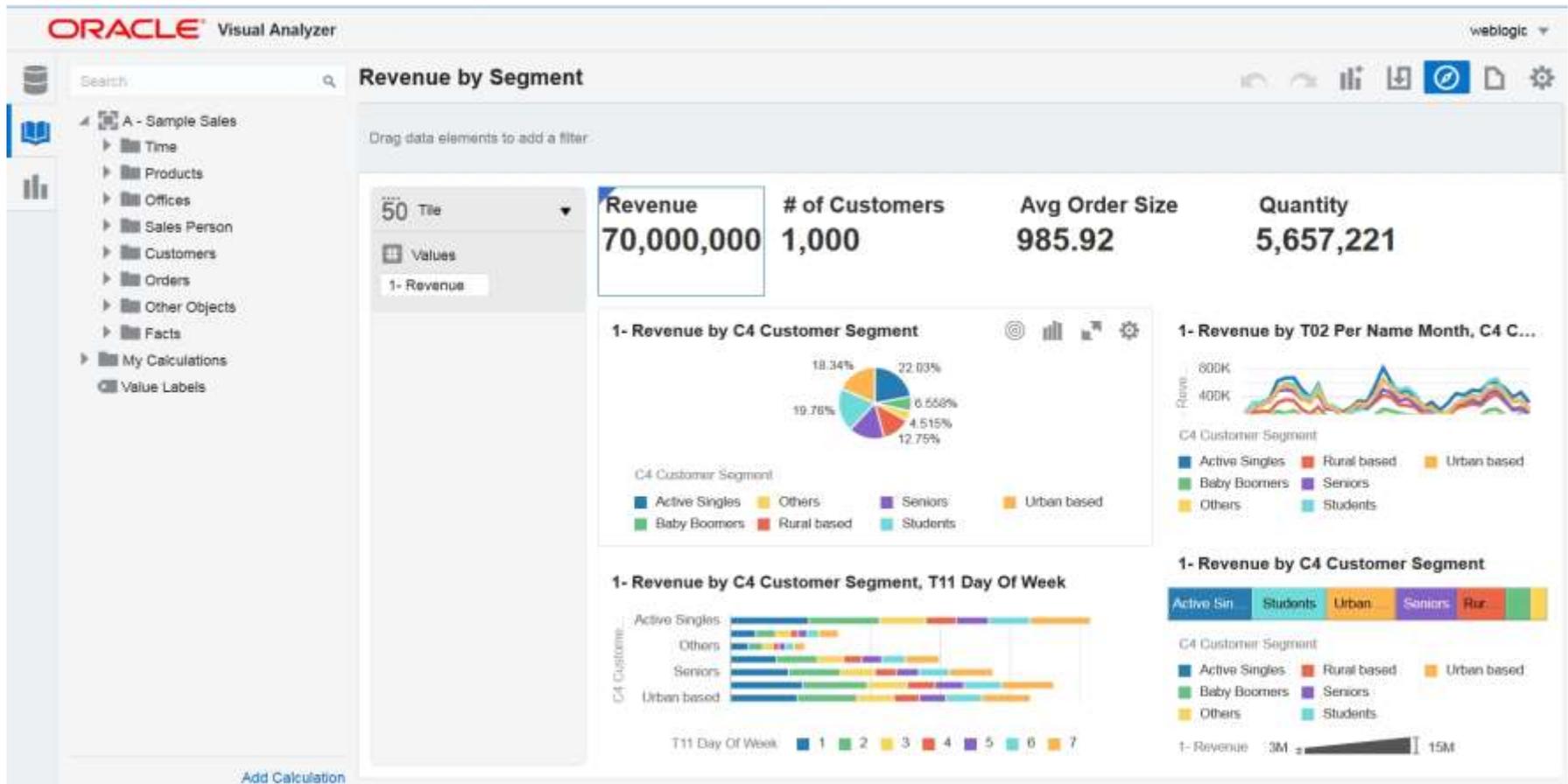
# 12.2.1 End-User Enhancements

- Alta UI skin focuses on content – clean page design
- Redesigned classic BI home page – consistent with other Oracle products



# 12.2.1 End-User Enhancements

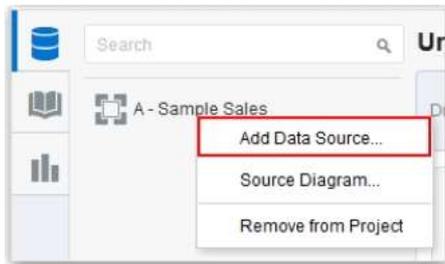
- New Visual Analyzer data visualizations ease data exploration – new interface. Does cost extra.



# 12.2.1 End-User Enhancements

- Data mashup capabilities – no RPD modifications

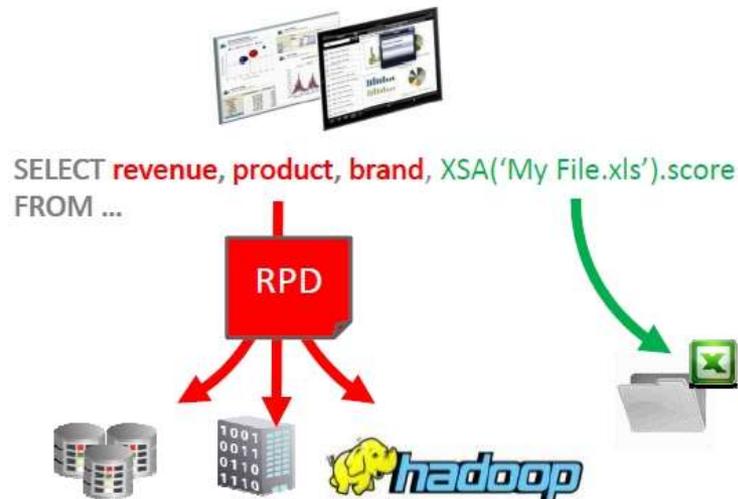
Add your own data files



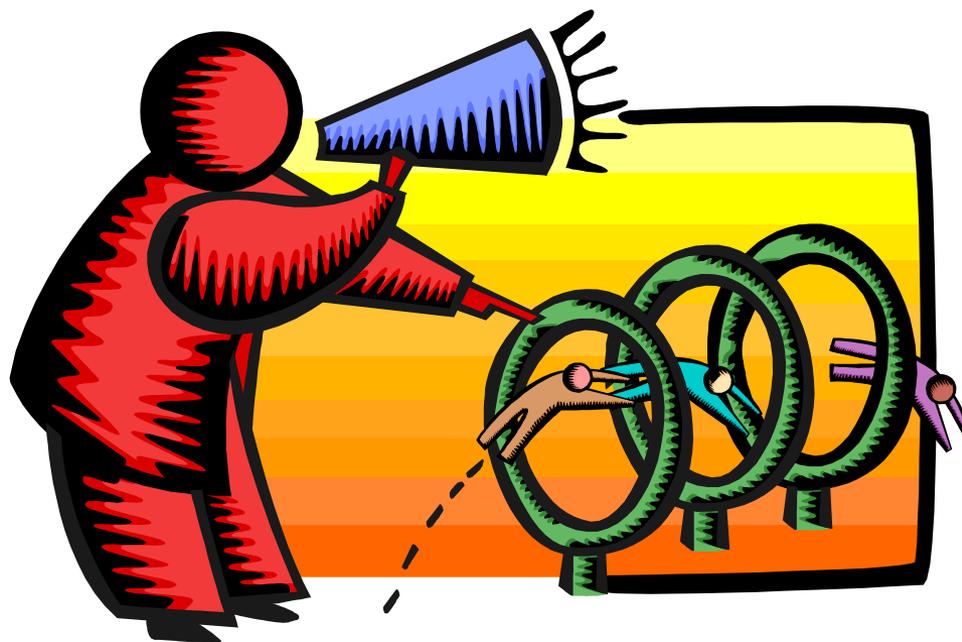
Example: Upload a File



Access your data directly from an analysis w/o any RPD dependencies

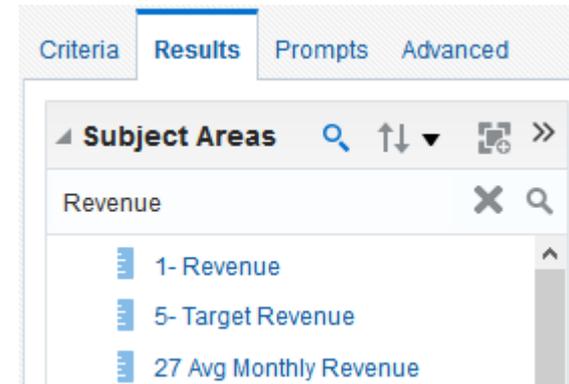


# Demonstration of Visual Analyzer



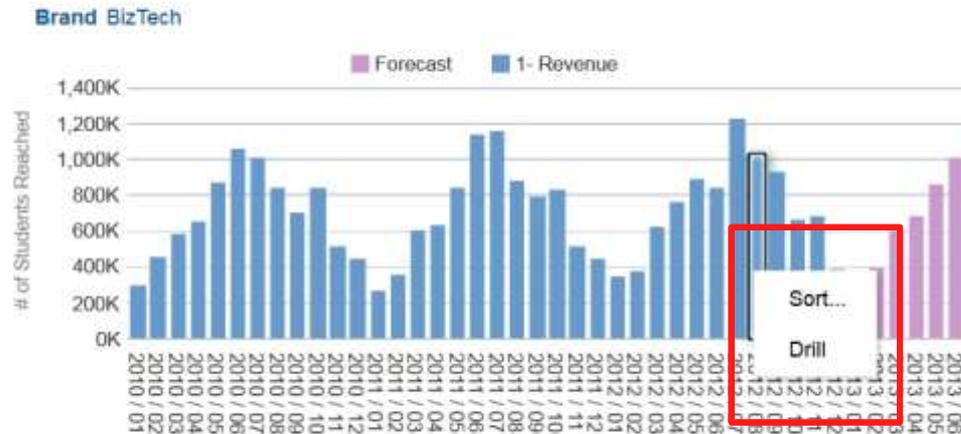
# 12.2.1 End-User Enhancements

- Enhanced subject area pane – including search through metadata
- Right-click all graphs and cells



## Forecasting Revenue by Month

Formula: forecast("Base Facts"."1- Revenue", ("Time"."T02 Per Name Month" timeMonth), 'forecast', 'n')



Brand FunPod

# 12.2.1 End-User Enhancements

- Improved view rendering using HTML 5 – including new Heat Matrix view type

The screenshot displays a software interface with three main components:

- Left Panel (Views):** A list of visualization types including Best Visualization, Recommended Visualization for, Title, Table, Pivot Table, Performance Tile, Treemap, **Heat Matrix** (highlighted with a red box), Trellis, Graph, Gauge, Funnel, Map, Filters, and Selection Steps.
- Layout Panel:** Configuration options for the Heat Matrix view, including:
  - Columns:** P3 LOB
  - Rows:** D1 Office
  - Color By:** Revenue
  - Style:** Percentile Binning
  - Bins:** Quartile (4)
  - Color:** A color scale from light purple to dark purple.
  - Binning Properties:** A table defining quartiles and their corresponding colors.
- Main View:** A Heat Matrix visualization showing data for various offices (rows) across three categories (columns): Communic..., Digital, and Electronics. The color intensity represents revenue values. A **Column Properties** dialog box is overlaid on the matrix, showing a table of conditions and values for the columns.

State	Column Format	Data Format	Conditional Format	Interactive	Write Back
1. rank@Memo	(Base Fact)	1-Row... is less than 21	Value: 23	As	X
2. rank@Memo	(Base Fact)	1-Row... is less than 26	Value: 23	As	X
3. rank@Memo	(Base Fact)	1-Row... is less than 21	Value: 23	As	X
4. rank@Memo	(Base Fact)	1-Row... is less than 18	Value: 23	As	X
5. rank@Memo	(Base Fact)	1-Row... is less than 11	Value: 23	As	X
6. rank@Memo	(Base Fact)	1-Row... is less than 8	Value: 23	As	X
7. rank@Memo	(Base Fact)	1-Row... is equal to 11	Value: 23	As	X

Label	Color
0 %	
25 %	First Quartile
50 %	Second Quartil
75 %	Third Quartile
100 %	Fourth Quartile

# 12.2.1 End-User Enhancements

- Improved methods of creating groups, calculated items and measures

The image shows two overlapping dialog boxes from a software application. The background dialog is titled 'New Calculated Measure' and has tabs for 'Column Formula' and 'Bins'. It includes fields for 'Folder Heading', 'Column Heading', a checkbox for 'Contains HTML Markup', and a dropdown for 'Aggregation Rule (Totals Row)' set to 'Default'. Below these are 'Available' and 'Column Formula' sections, with a 'Subject Areas' tree on the left showing a hierarchy: A - Sample Sales > Time > Products > Offices > Sales Person > Customers > Orders > Other Objects > Facts. The foreground dialog is titled 'Insert Function' and displays a list of functions: Forecast, Period Rolling, To Date, Analytics (expanded), Cluster, Evaluate Script (highlighted), Outlier, and Regr. Below the list, it shows 'Selected: Evaluate Script', 'Syntax: EVALUATE\_SCRIPT(script\_file\_path, output\_column\_name, options, [runtime\_binded\_column\_options])', 'Where' (with a text area containing details about script\_file\_path, output\_column\_name, options, and runtime\_binded\_column\_options), 'Example' (with a code snippet), and 'Description' (explaining the function's purpose). Both dialogs have 'OK' and 'Cancel' buttons at the bottom.

OK Cancel



# 12.2.1 End-User Enhancements

- Improved analytic capabilities – new pre-built functions and add custom R scripts

**8.00 BI Server Advanced Analytics**

Overview | Binning | Trendline | **Forecast** | Outlier | Cluster | Regression | Eval Script - Delay Prediction | R Image

**Description:** This is an example of OBIEE 12c FORECAST() function. This function takes a measure parameter e.g. revenue and a variable list of time dimensions, and forecasts values for 'n' periods into future. BI Server interfaces with R execution engine in order to produce these forecast results.

Number of months to forecast:

**Forecasting Revenue by Month**

Formula: forecast('Base Facts'-'1- Revenue', ('Time'-'T02 Per Name Month'&timeMonth), forecast, 'numPeriods=6')

**Brand BizTech**

**Brand FunPod**

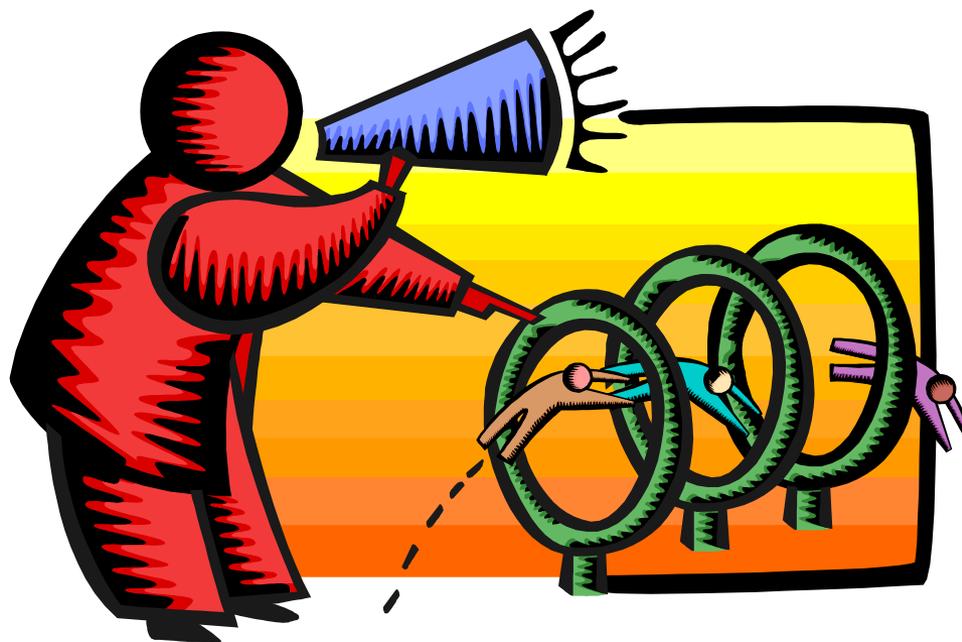
Month	1- Revenue			Forecast		
	BizTech	FunPod	HomeView	BizTech	FunPod	HomeView
2013 / 06				1,005,116	953,386	863,261
2013 / 05				862,895	749,042	804,945
2013 / 04				682,404	519,879	540,549
2013 / 03				602,268	557,638	490,728
2013 / 02				394,027	444,518	317,136
2013 / 01				302,271	280,408	225,211
2012 / 12	383,992	638,331	270,344			
2012 / 11	683,957	739,517	504,870			
2012 / 10	666,635	612,301	433,821			
2012 / 09	931,964	836,503	660,897			
2012 / 08	1,027,117	852,418	1,257,016			
2012 / 07	1,222,814	719,377	1,009,194			
2012 / 06	843,917	760,422	494,697			
2012 / 05	887,083	678,986	665,158			
2012 / 04	765,774	585,846	577,644			
2012 / 03	625,815	888,286	465,466			
2012 / 02	373,054	531,951	194,019			
2012 / 01	346,263	310,189	244,389			



# OBIEE 12.2.1 Extra Thoughts

- Much Cleaner Interface for the users
  - Visual analyzer and Mashups empower users to explore their data
  - Trend Analysis and Clustering directly available for users
  - New Ask/Search capability in VA home screen
- Additional Analytic tools integrated (e.g. R)
  - Call R functions directly
- Simpler installation for the Administrator
  - Fast, simple installation
  - Out of Place Migration (no impact to 11g environments)
  - Migration utility easily migrates 11g Webcat, RPD, and security scheme to new environment
- Preparing for 12c
  - Baseline Validation Tool (works back to 11.1.1.7.1)

# Demonstration of New Features



# 12.2.1 Admin and Development

- Baseline Validation Tool eases migration and migration worry-free migration from 11g
- Migration: BAR files simplify application content backup and migration

- **Creating the BAR File from Current Environment:**



***exportServiceInstance**(domainHome, serviceInstanceKey, workDir, exportDir, applicationName=None, applicationDesc=None, applicationVersion=None, includeCatalogRuntimeInfo=false, includeCredentials=None)*

- **Importing the BAR file in Target environment:**

***importServiceInstance**(domainHome, serviceInstanceKey, barfile)*

- No More GUIDs
- No more OPMN (startup / shutdown – much cleaner)



# Reorganized Documentation

ORACLE Help Center | Middleware | Search products | Welcome Brian

< Middleware

- Get Started
- Tasks
- Deploy
- Learn More
- Books**

## Oracle Fusion Middleware 12c (12.2.1)

### Oracle Business Intelligence - Tasks

Get Started

**Release Notes**  
Release Notes for Oracle BI  
All Fusion Middleware release notes

**Learn About Oracle BI**  
Overview

**Install Oracle BI**  
Learn about the installation process  
Install Oracle BI  
Perform post-installation tasks

**Migrate BI EE from an 11g Release**  
Migrate Oracle Business Intelligence

**Oracle BI Products**  
Oracle BI Enterprise Edition  
Oracle BI Publisher

**Use Cases and Examples**  
BI EE sample application

**Related Documentation**  
Oracle Business Intelligence Mobile Products  
Oracle Exalytics  
Oracle Essbase

<http://docs.oracle.com/middleware/1221/bisuite/index.html>

(click Books link to get New Features in Version 12.2.1 section)



# SampleApp v511 on 12.2.1 *Coming*

- Demo today based on SampleApp v511
- Download SampleApp from:  
    OTN (SampleApp 511 will be available shortly)
- Demonstrates new features
- Runs as fully-contained VM on VirtualBox
- See demos on Oracle BI TechDemo YouTube Channel  
<https://www.youtube.com/user/OracleBITechDemos>



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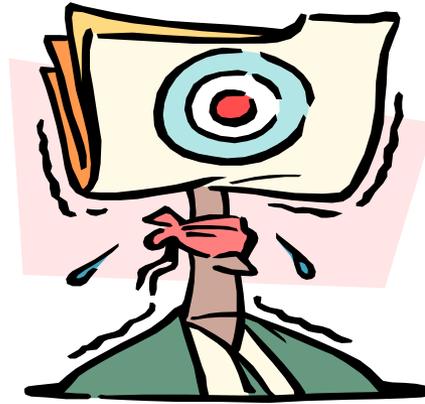


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# Questions?



More information on:

Vlamiis Software: [www.vlamiis.com](http://www.vlamiis.com), [dvlamiis@vlamiis.com](mailto:dvlamiis@vlamiis.com)

IOUG BIWA: [www.ioug.org](http://www.ioug.org), [www.oraclebiwa.org](http://www.oraclebiwa.org)

BIWA Summit 2016: [www.biwasummit.org](http://www.biwasummit.org)

SampleApp: <http://www.oracle.com/technetwork/middleware/bi-foundation/obiee-samples-167534.html>

OBIEE Doc Getting Started (also see [Books](#) link)

<http://docs.oracle.com/middleware/1221/bisuite/index.html>

OBIEE Doc Complete Library :

<http://docs.oracle.com/middleware/1221/bisuite/docs.htm>

BI Tech Demos by SampleApp team on YouTube

<https://www.youtube.com/user/OracleBITechDemos>