

ORACLE

Session 41930 - Introduction To Oracle's BI Foundation & Tools

Tobin Gilman Senior Director, BI Product Marketing 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.

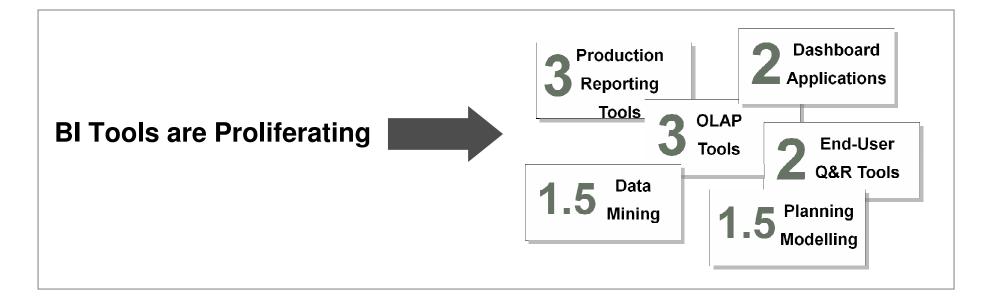
The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.





The BI Paradox

More Tools, Fewer Users



But Adoption is Low



<15%

Agenda

- BI Market Trends
- Oracle's EPM System
- Oracle's BI Foundation & Applications
- Summary & Questions

Business Intelligence Remains the #1 Priority

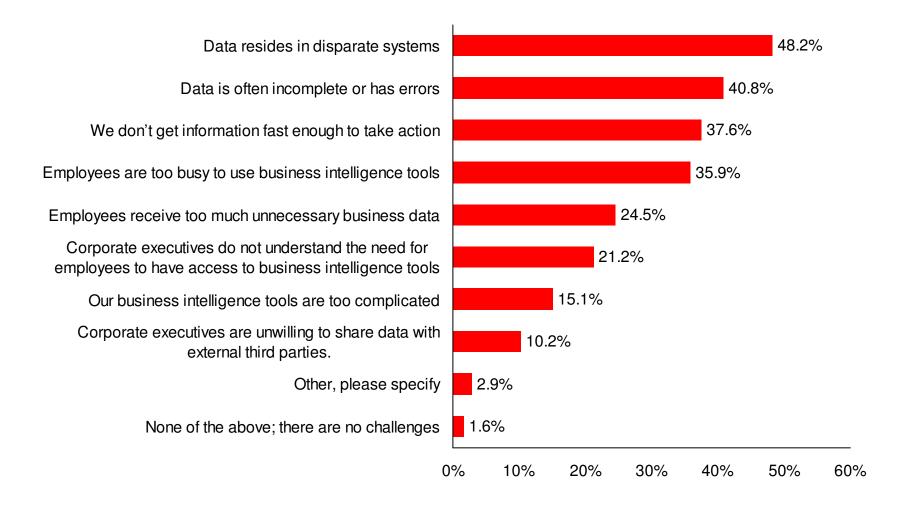
Business Intelligence Tops the Strategic Technology List Since customer service and growth are important, it makes sense that the most important technology in 2007 is business intelligence. Bl is a family of technologies that promises to offer better insight into customer behavior and market opportunities. Business process management technologies should do the same for internal processes. However, while BI gets good grades for meeting expectations, BPM suites and platforms often fall short (as our Customer Strategies Survey found). The other top technologies on the list are no surprise—they've been critically important for years, not only for pulling data together, but also for helping users make sense of it. N=215 2.1 Which five technologies will make the most significant contribution to your company's business strategy in 2007? below \$1 billion \$1 billion or more total Business intelligence/data mining 37% 35% 39% 2 **Business process management** 34 32 Web services/service-oriented architecture 22 0 32 41 ____ Collaboration and workflow 31 30 33 Data and systems integration 27 25 30

Source: CIO Insight, "The Future of I.T.: What's on Tap for 2007 and Beyond," January 16, 2007

Major BI Challenges

Economist Intelligence Unit

The Economist



The IT Dilemma

BUSINESS USERS WANT

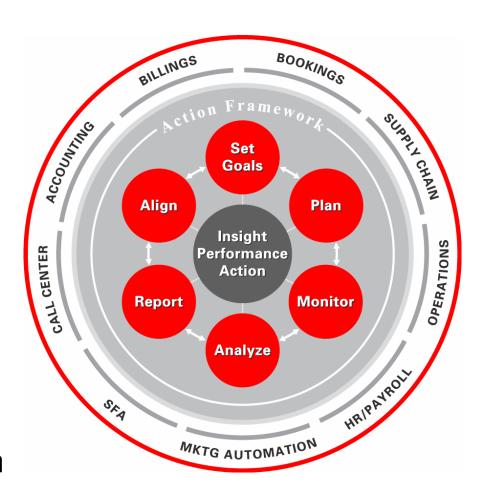
- Flexibility & choice
- Insight & alignment
- Relevant access

IT WANTS

- Fewer tools
- User self-service
- Secure systems

Oracle's EPM System Vision Focus on Today and Plan for Tomorrow

- Link strategic goals to operational decisions
- Integrates all management processes
- Deliver consistent, reliable insights to drive action
- Lower costs and reduces system complexity
- Single version of the truth



Oracle's Enterprise Performance Management System

EPM Workspace

Performance Management Applications

BI Applications

Business Intelligence Foundation

Fusion Middleware



Systems



Data Warehouse Data Mart



OLAP



SAP, Oracle, Siebel, PeopleSoft, Custom

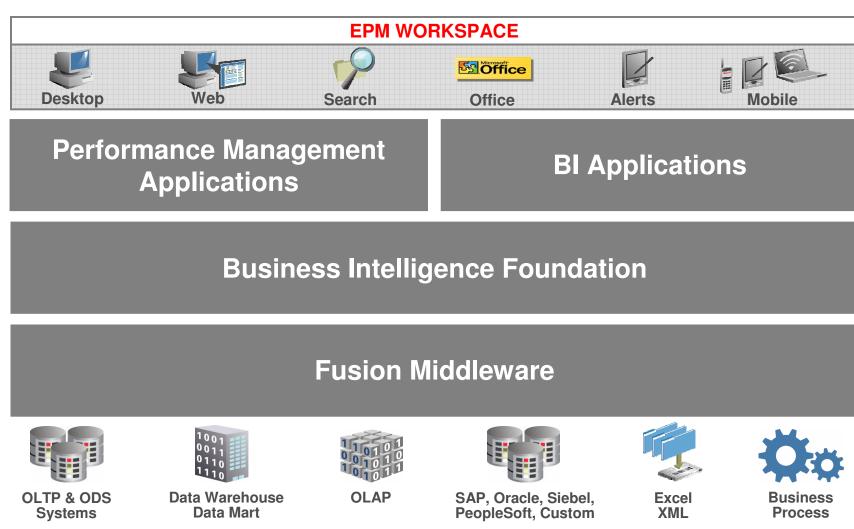


XML



Business Process

Pervasive Information Access Through a Multi-Channel EPM Workspace



Leverages Fusion Middleware

EPM Workspace

Performance Management Applications

BI Applications

Business Intelligence Foundation

FUSION MIDDLEWARE

SOA

Data Quality

Data Integration

MDM

Identity Management Content Management

Business Process Management



OLTP & ODS Systems



Data Warehouse Data Mart



OLAP



SAP, Oracle, Siebel, PeopleSoft, Custom



Excel XML



Business Process

Hot-Pluggable With Existing IT Investments

PORTALS



Any JSR 168 Portal

DATA MINING



Oracle Data Mining, SPSS, SAS

APPLICATIONS



Oracle EBS, Siebel, SAP, PeopleSoft, JD Edwards...

DESKTOP TOOLS



Excel, Outlook, Lotus Notes...

Oracle Enterprise Performance Management System Oracle Business Intelligence Foundation

SECURITY



Oracle Kerberos iPlanet MSFT AD Novell Custom Others...

DATA ACCESS



Oracle RDBMS
Oracle OLAP Option
Microsoft SQL Server
Microsoft Analysis Services
IBM DB2
Teradata
Essbase
SAP BW
XML, Excel, Text

DATA INTEGRATION



Oracle Data Integrator (Sunopsis) Oracle Warehouse Builder Informatica Ascential Others...

Highly Scalable BI Foundation

EPM Workspace

Performance Management Applications

BI Applications

BUSINESS INTELLIGENCE FOUNDATION

Common Enterprise Information Model

Essbase BI Server Predictive Analytics

Fusion Middleware



OLTP & ODS Systems



Data Warehouse Data Mart



OLAP



SAP, Oracle, Siebel, PeopleSoft, Custom



Excel XML



Business Process

Confucius Says...

"Not all Questions are Created Equal"

Questions Can be Worlds Apart

What is our performance?

- What are the top 10 markets?
- What is the gap to forecast?
- What customers are most profitable?
- What are revenues by product compared to last year?
- What are sales by product, store and quarter?
- What is the trend for employee-related costs?
- What is our open headcount?

How can we improve performance?

- What if we increase promotional lift by 10% in our major markets?
- What happens to our forecast if the dollar declines by 5% to the Euro?
- What happens to gross margin if our materials costs increase by 20%?
- Which customers drive 80% of our overall profitability?
- What happens to same store sales if inventory turns increase by 5%?

Situational

Forward-looking

Diverse Needs in the "BI Pyramid"

Standardized Reporting

- Dashboards
- Publishing
- Pixel-perfect

1250 Users, 400 Reports, 3 Months, 1 Admin



Pitney Bowes is the world's largest producer of postage meters. Implemented Oracle BI Applications (Sales, Service, and Marketing Analytics) to over 1,250 employees.

BEFORE

- Poor measurement of employee performance in sales and service
- Lack of customer insight no consistent, real-time view
- Slow "Customer Inquiry Response Time"
- No single source of customer data for segmentation
- High reliance on IT for information

AFTER

- "Turned the tides" in sales force with better insight into performance
- Enhanced sales productivity with 360° view of customer relationship
- Increased customer responsiveness, leading to greater satisfaction/retention
- Unified customer data for better marketing segmentation and targeting
- Customer-facing employees empowered with the information they need



Diverse Needs in the "BI Pyramid"



Standardized Reporting

- Dashboards
- Publishing
- Pixel-perfect

9/11 Crisis in the Airline Industry

Southwest Airlines adapts



83 million passengers a year

63 destinations

3300 flights a day

Needs

- Determine how long cash balances of \$1 billion would last – immediately
- Develop capital spending plans and
 15 month rolling forecasts in 1 day
- Create business cockpits for executives and other functional areas to track key metrics



After

- Ability to forecast within 2% of outcome, providing top-bottom and bottom-top analysis
- Analysis provided comfort level (no employees laid off; no need for government loans)
- Finance moved to spending 10% accumulating data and 90% analyzing (75% / 25% before)

Common Modeling Applications



- What-if
- Scenarios
- Allocations

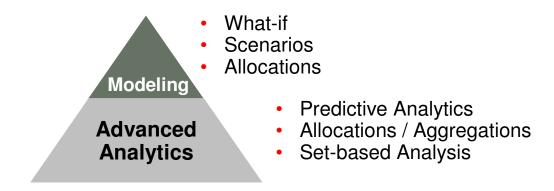
- Customer Profitability
- Demand Planning
- Brand Valuation
- Loan Default Risk
- Store Profitability

- Promotional Response
- Financial Planning
- Supply Chain Optimization
- Customer Churn
- Workforce Planning

Standardized Reporting

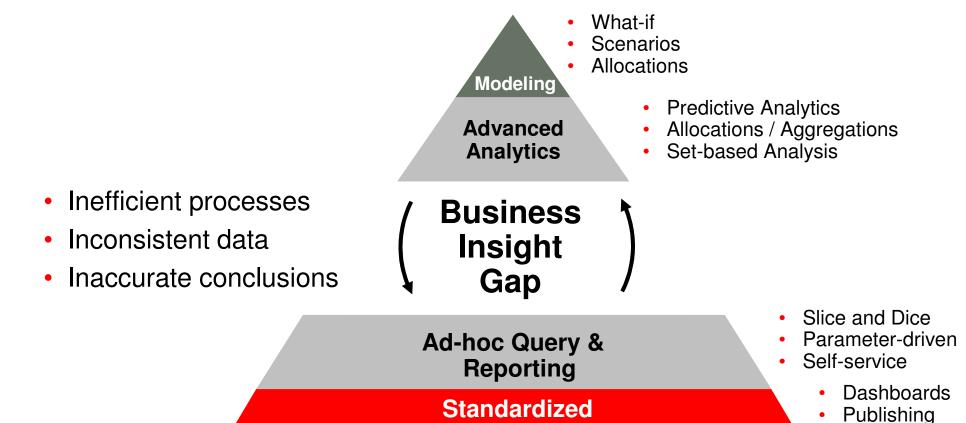
- Dashboards
- Publishing
- Pixel-perfect

Diverse Needs in the "BI Pyramid"





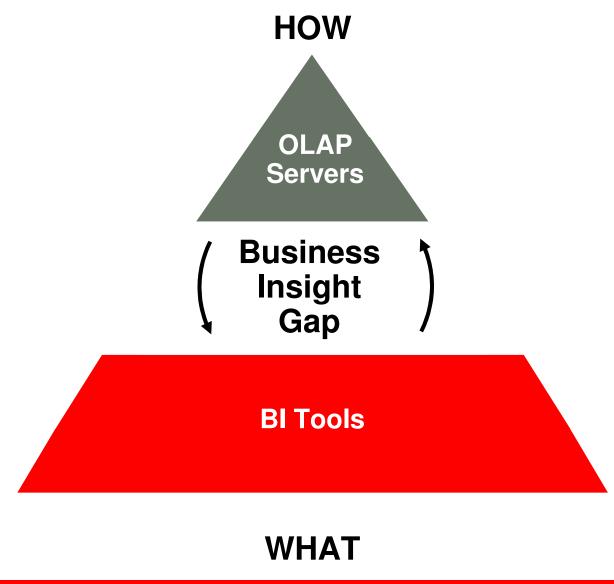
Reality: No Single Tool Spans the BI Pyramid



Reporting

Pixel-perfect

Different Tools Answer Different Questions



Deployments Have Differing Objectives

HOW

- Replaces Excel applications
- Modeling new outcomes
- Maintained by analysts

OLAP Servers

Business Insight Gap

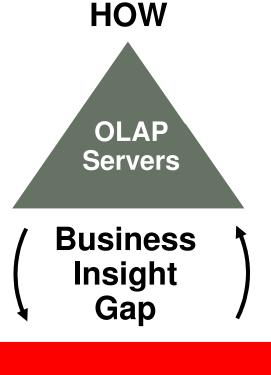
- Replaces custom systems
- Information consistency
- Managed centrally by IT

BI Tools

WHAT

What's Needed: A Single BI Foundation

- Power to answer any question
- Pyramid of needs
- Pervasive information access
- Performance on an enterprise scale



BI Tools

WHAT

Oracle's Unified BI Foundation Meeting All BI Pyramid Needs

- What-if
- Advanced Analysis
- Predictive Analytics
- Consistent definitions
- Role-based views
- Model-driven
- Prepackaged applications
- Ad-hoc query
- Report Publishing

Essbase

Common Enterprise Information Model

Oracle BI Suite EE Plus

Common Enterprise Information Model

Enables Consistency, Security, Reuse, Flexibility

PRESENTATION LAYER



- User Roles, Preferences
- Simplified View
- Logical SQL Interface

Role-Based Views of the Information Relevant to the User

SEMANTIC OBJECT LAYER

- Dimensions
- Hierarchies
- Measures
 - MeasuresCalculations
 - Aggregation Rules
 - Time Series

Consistent Definition of Business Measures, Metrics, Calculations

PHYSICAL LAYER



- Map Physical Data
- Connections
- Schema

Model Once, Deploy Everywhere









Across Any Data Sources

Enterprise Information Model Benefits

BUSINESS BENEFITS

Consistent, Accurate Information

Business User Self Service

Choice of Front End Tools

Role-Based, Secure Access

Transparent Information Access

TECHNICAL BENEFITS

Model Once, Deploy Anywhere

Reduced User Support

Enables Phased BI Standardization

Supports IT Compliance Initiatives

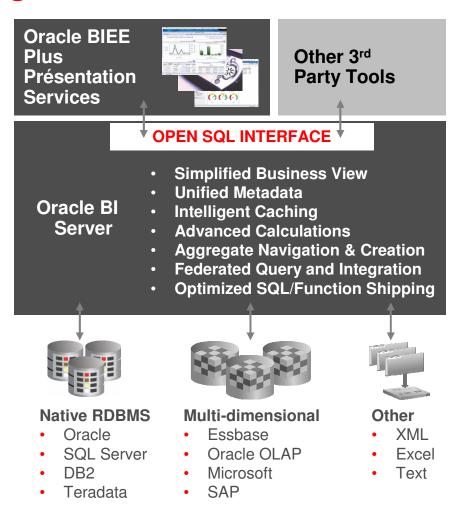
Easier Upgrades & Changes



Oracle BI Server

Simplified, Powerful, Intelligence Across Sources

- Simplified business model view
- Advanced calculation & integration engine
- Intelligent request generation and optimized, distributed data access
- Mission critical scalability and performance
- Foundation for all OBIEE presentation services



The Value of Oracle BI Suite EE Plus

CUSTOMER CHALLENGES		ORACLE VALUE
Fragmented view		Single view, 14 TB across 3 systems
Unintuitive	\Rightarrow	7,000 out of 7,400 employees use
Data latency		Real-time global view – 500 top execs
Expensive to maintain		400 dashboards, 1,250 users, 1 admin
Slow deployments		3,000+ users live in 3.5 months
Limited scalability		1,000,000+ users on 15 TB of data
ROI	\Rightarrow	500%; \$30M savings

Essbase OLAP Server

Rich Business User Experience

- Superior tools for the business user
- Broadest analytic functionality
- "Speed of thought" response

Highly Advanced Calculation Engine

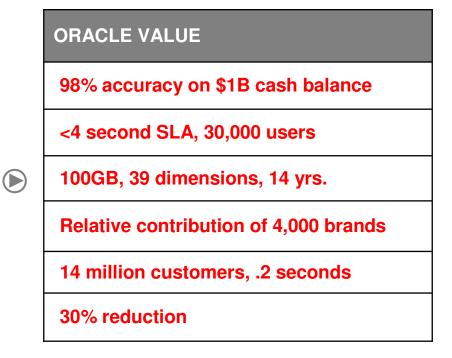
- Superior calculation power
- Comprehensive library of functions
- Extensive financial and time intelligence

Custom Analytic Environment

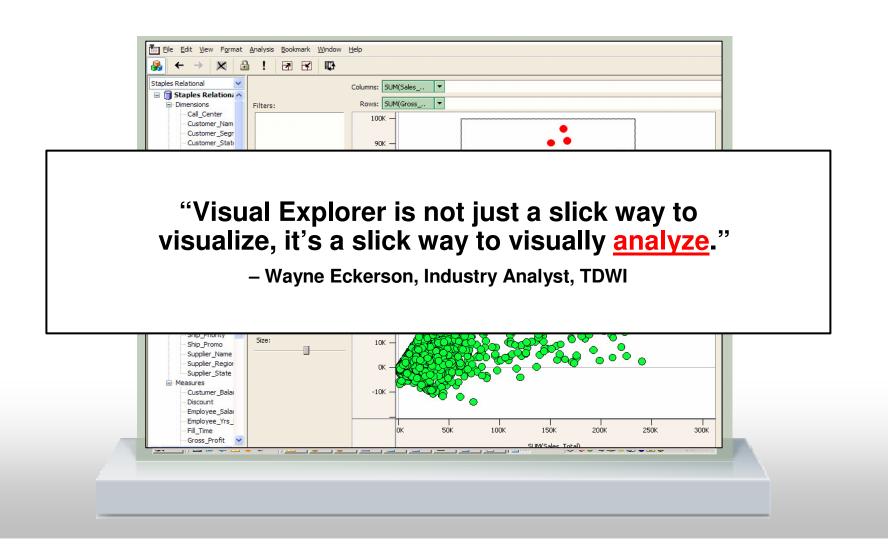
- Optimized storage
- Enterprise scale forward looking applications
- Premium performance

Modeling & Analysis Problems Solved With Essbase...

CUSTOMER CHALLENGES	
Forecast accuracy	
Scalable query performance	
Massive data sets	
Brand valuation	
Customer profitability	
Delayed reporting cycles	



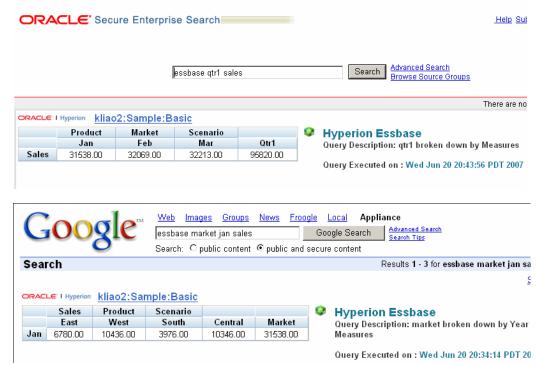
Plus a Range of Superior Reporting Tools...



Analytics Made Easy - Search Integration

- Multiple search providers
 - Oracle Secure Search
 - Google One Box

 Returns structured response to unstructured query



Query governed by user's security credentials – SSO token

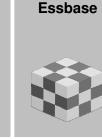
Pervasive Information Access

One Platform, One Model, Multiple Delivery Channels















MS Office & Outlook Integration



Common Enterprise Information Model

Integrated Security, User Management, Personalization **Multidimensional Calculation and Integration Engine Intelligent Request Generation and Optimized Data Access Services**











Files Excel XML



Business Process

Pervasive Information Delivery

Production Reporting



- "Pixel-perfect" reporting and publishing
- Report layout using Microsoft Word and Adobe Acrobat
- Single product for all document needs invoices, checks, financial statements, government forms, etc.

Financial Reporting



- Formatted financial statements
- Built-in financial intelligence
- XBRL support

Ad Hoc Query



- Powerful ad-hoc analysis via 100% Web UI
- Create & modify charts, pivots and dashboards
- True business user self sufficiency via intuitive, simplified business model

Interactive Dashboards



- Live, intuitive, personalized dashboards
- Immersive experience with limitless dashboard to dashboard navigation
- Dynamic, event-driven guided analytics lead users from insight to action

Pervasive Information Delivery (continued)

Detections & Alerts



- Automated problem/opportunity detection and alerts
- Notification and content delivered to any device in multiple formats (PDF reports, Briefing Books, etc.)
- Multi-step analysis, analytic workflows, and business process integration

MS Office Integration



- Excel, PowerPoint, Word, & Outlook
- Dynamic updates across applications
- Authoring and consumption

Disconnected & Mobile Analytics



- Offline interactive reports, briefing books and dashboards
- Connect, synch and go
- PDA's, Phones, Laptops

Desktop Gadgets



- Always on
- Personalized functionality & insight
- Collaboration via report sharing, discussion, chat

Comprehensive BI Applications

EPM Workspace

Performance Management Applications

	BI APPLICATIONS										
s	Service	Marketing	Order Mgmt.	Supply Chain	HR	Finance					

Business Intelligence Foundation

Sale

Fusion Middleware



Systems



Data Warehouse Data Mart



OLAP



SAP, Oracle, Siebel, PeopleSoft, Custom



Excel XML



Business Process

ORACLE

Comprehensive BI Applications

Complete, Prebuilt, Best Practice BI Solutions























China de la composition della	200				即. P. 点	
Sales	Service & Contact Center	Marketing	Order Management & Fulfillment	Supply Chain	Financials	Human Resources
Pipeline Analysis	Churn Propensity	Campaign Scorecard	Order Linearity	Supplier Performance	A/R & A/P Analysis	Employee Productivity
Triangulated Forecasting	Customer Satisfaction	Response Rates	Orders vs. Available Inventory	Spend Analysis	GL/Balance Sheet Analysis	Compensation Analysis
Sales Team Effectiveness	Resolution Rates	Product Propensity	Cycle Time Analysis	Procurement Cycle Times	Customer & Product Profitability	HR Compliance Reporting
Up-sell/ Cross-sell	Service Rep Effectiveness	Loyalty and Attrition	Backlog Analysis	Inventory Availability	P&L Analysis	Workforce Profile
Cycle Time Analysis	Service Cost Analysis	Market Basket Analysis	Fulfillment Status	Employee Expenses	Expense Management	Turnover Trends
Lead Conversion	Service Trends	Campaign ROI	Customer Receivables	BOM Analysis	Cash Flow Analysis	Return on Human Capital

Prebuilt adapters:

ORACLE"

PeopleSoft.



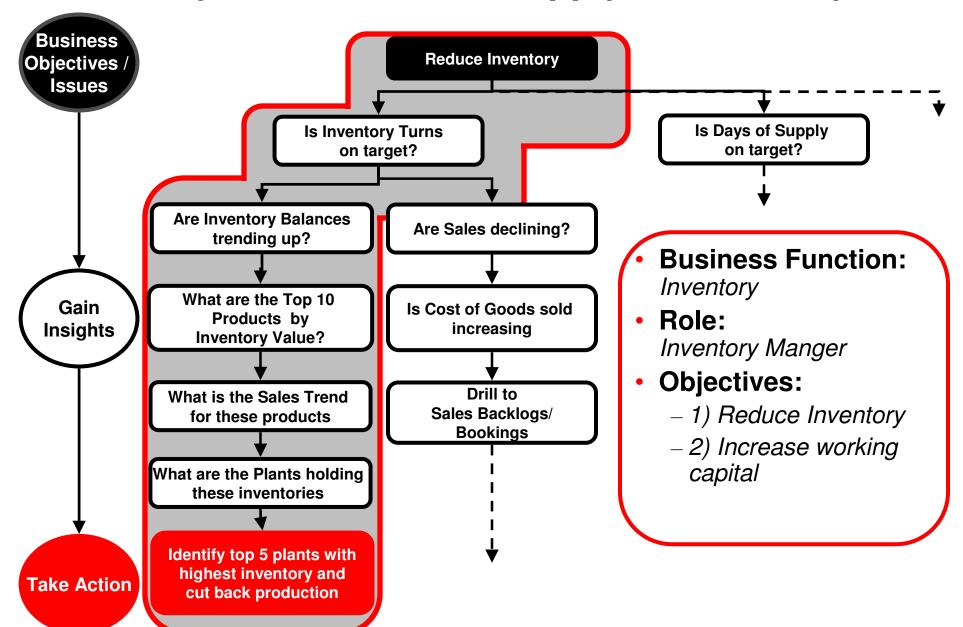


Other Operational & Analytic Sources

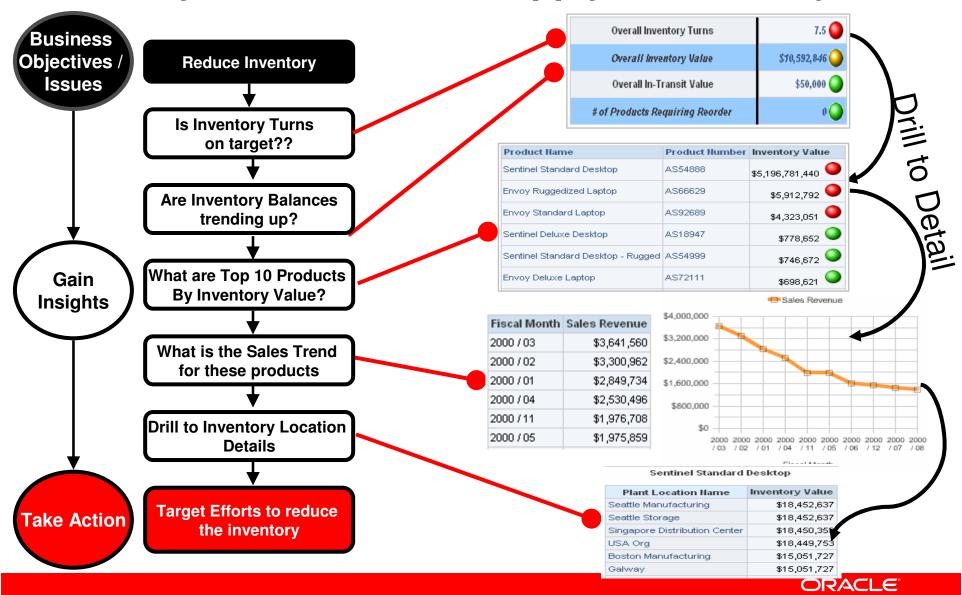
Oracle BI Suite Enterprise Edition

ORACLE

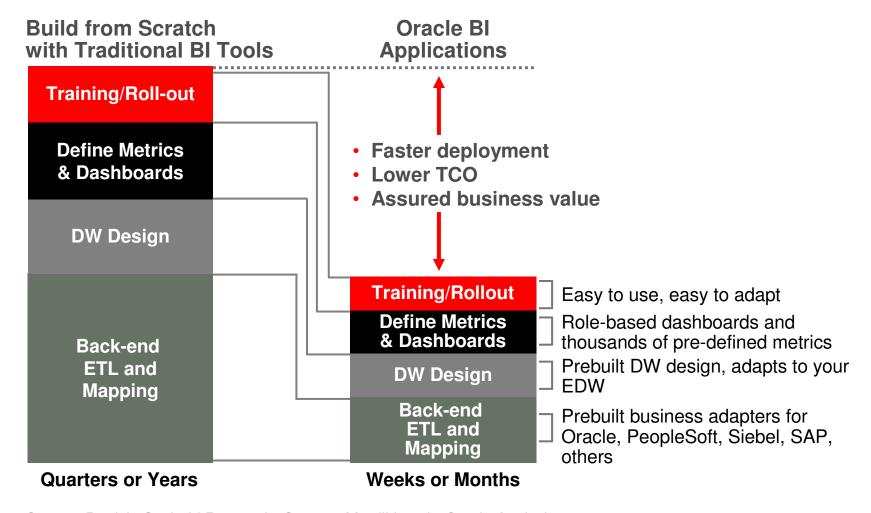
Analytic Workflows – Supply Chain Analytics



Analytic Workflows – Supply Chain Analytics



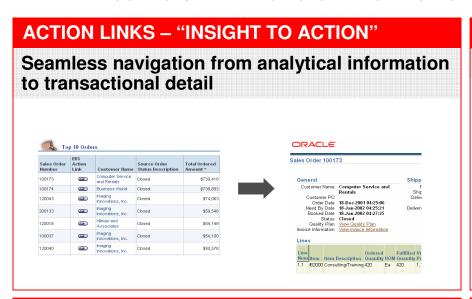
Speeds Time To Value and Lowers TCO

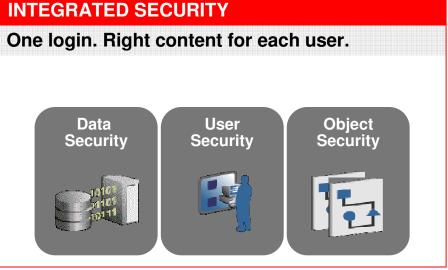


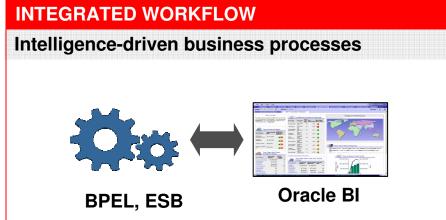
Source: Patricia Seybold Research, Gartner, Merrill Lynch, Oracle Analysis

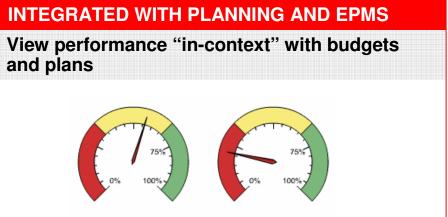
Unrivaled Integration with Oracle Apps

Extends BI Value. Lowers TCO.









Market Leading Performance Management Applications

EPM Workspace

PERFORMANCE MANAGEMENT APPLICATIONS

Strategy Management

Business Planning

Profitability Management

Financial Reporting & Compliance

BI Applications

Business Intelligence Foundation

Fusion Middleware







Data Warehouse Data Mart



OLAP



SAP, Oracle, Siebel, PeopleSoft, Custom



Excel XML



Business Process

ORACLE

Enterprise BI Foundation

Comprehensive

- Integrated BI platform & broad range of BI applications
- Powerful OLAP
- Foundation for EPM system

Hot Pluggable

- Heterogeneous ERP, CRM, DW, & OLTP systems
- Heterogeneous database technologies
- Heterogeneous middleware, ETL, & BI tools

Pervasive

- User self-service
- Multi-channel information access & delivery
- Consistent, accurate information



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