The Three Threes of



Performance Pashboards

THREE APPLICATIONS

Three sets of functionality in every performance dashboard:

- 1. Monitoring so users can quickly view performance
- 2. Analysis so users can identify root causes
- 3. Collaboration so users can discuss the data before

THREE LAYERS

Three layers of performance information:

- 1. Graphical, abstracted views of performance status and trends
- 2. Summarized, dimensional data that users can slice and dice
- 3. Detailed data for taking action

THREE TYPES

Three types of dashboards to support different requirements:

- 1. Operational dashboards to monitor real-time processes
- 2. Tactical dashboards to track departmental goals
- 3. Strategic dashboards to monitor strategic objectives

OPERATIONAL DASHBOARDS

Track mission-critical operational processes using detailed data that is refreshed frequently—every day, hour, or minute, depending on requirements. Operational dashboards emphasize monitoring more than analysis or collaboration.

TACTICAL DASHBOARDS

Track departmental processes and projects and emphasize analysis more than monitoring or collaboration. They are often implemented using portals and run against data marts or warehouses. where data is updated weekly or monthly.

STRATEGIC DASHROARDS

Monitor the execution of strategic objectives at each level of the organization using cascading scorecards. Strategic dashboards emphasize collaboration more than monitoring or analysis and are often deployed using a formal methodology.

TOP LAYER

Graphs, symbols, and colors that enable users to monitor overall performance at a glance



to review information contained in this operational dashboard. This to review information contained in this operational dashloads. It top-level screen contains four unique views that let users quickly ascertain overall operational performance across 45 measures the company tracks on a daily basis.



Top executives at Rohm and Haas, a global manufacturer of specialty materials, use this tactical dashboard embedded within specially inliterials, use this detailed abstraction distribution the company's corporate portal to view performance across all business groups, units, and regions using the drop-down filter on the left. Highlighting one of the 10 metrics in the top table populates the line charts below with corresponding trend data



This is a strategy map for a county government that shows the

MIDDLE LAYER

Dimensional views of data that users can navigate and filter to analyze root causes and effects



By clicking on one cell in the treemap (or heatmap) on the top-level page, users drill into a more detailed treemap that shows performance for one metric (e.g., gross ton miles) in the railway's It divisions. Right-clicking on one cell (e.g., the Guif Division) presents numerous options, including a 36-day trend chart (shown)





By clicking on a measure in the strategy map, a user can pull up a trend chart for that objective that shows performance over time against predefined targets. The chart also describes the objective— and the metric used to represent the objective—and enables users to annotate and record their discussions about performance results

BOTTOM LAYER Detailed data

that highlights the impact of performance enables users to take action



Users can also click on the map chart on the front screen to get a more detailed view of the performance of individual rail segme in specific regions. Clicking on a rail segment reveals additional



Drilling further, users can view a detailed table that shows the top 15 contributors to net profits. They can filter this table by other dimensions



In addition to displaying objectives and performance measures strategic scorecards may allow users to drill down to see initiatives (or projects) that have been launched to close key performance gaps This may display the owners, star<mark>t an</mark>d end dates, sub-initiatives, and other information relevant to the progress of the initiative.































Coanos

organizational performance. Cognos 8 B Socrearding offers strategic dashboards that help organizations link strategy to execution by enabling them to mee performance against strategic objectives, communicate strategy, ensure accountability and ownership, and provide employee foc. Cognos 8 BI dashboarding produces tactical dashboards that angeneate data from multiple owners, proxiding a commerchersive

Capnes 8 BI dashboarding produces tactical dashboards that aggregate data from multiple sources, providing a comprehensive snapshot of KPIs. As a core capability of Cognos 8 BI, this ats-alpaires view enables seamles drill to the platform's powerful BI capabilities, enabling deeper analysis to improve decision making and reduce lag time in recognizing organizational performance issues. The Cognos Now! BI appliance provides operational dashboards that continuously montro critical operational business information across the organization. It includes an easy-to-use interface that enables self-service dashboard creation and edit, metric customization, alert setting, and drill down to detailed data. By continuously monitoring operational execution, Cognos Nowl optimizes operational processes and improves business performance.

By providing the full spectrum of performance dashboards, Cognos continues to provide its customers with all the capabilities required to



the only name you need. Founded in 1992, Dundas has grown into the world leader in advanced data visualization solutions for Microsoft technologies.

Dundas produces sophisticated charts, gauges, maps, and calendar components for platforms such as ASPNET, Windows Forms, SQL Server Reporting Services, and SharePoint 2007. These components are designed to work together to form custom dashboard solutionsfeature-rich alternatives to cost-prohibitive and limited turnkey dashboard products. Leverage Dundas's data visualization products and dashboard expertise to create rich, interactive, and intuitive dashboard interfaces. Whether you need to display historical, KPI, geographic, or multidimensional data, all your requirements are met and exceeded by Dundas tools.

See for yousrelf why Fortune 500 companies across the globe choose Dundas and Dundas Consulting for their data visualization and custom dashboard needs. Visit www.dundas.com to view our dashboard galleries, online demos, product videos, and to download full evaluation copies of all our products.

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Corda

orda delivers anywhere-anytime visual access to your data that llows insight into the big picture as well as the root causes, enal mely, accurate, and more informed decisions. profass [provider professions]

Corda's innovative performance dashboard and data visualization solutions work with almost any data source, from spreadsheets and databases to custom applications. Corda works on almost any platform and with any Web-enabled device.

Corda's products help organizations deliver the • Right information in the

IBM

• Right time.
Gain unprecedented insight and agility with Corda. Corda's dashboards make finding the right information easy and intuitive. Data is easily navigated, can be programmatically controlled to highlight threshold exceptions, and can be presented in ways that best sat specific business processes and metrics. Infinite drill-down capabilities allow decision makers to start at the 50,000 door towe but quiddy get to the ground level, so they can spot trends and still see the root causes. Dashboard deployment is fast, feebild, and re-usable with limitless customization. Corda's products and solutions deliver enterprise professional and a stable beforement of adheritors. performance and scalability. Performance dashboards can be created quickly, giving your organization the maximum return on investment. lecision makers can access their dashboards from any Internet-nabled device, including Palm Treo and BlackBerry.

IBM is the world's largest information technology company, with 80 years of leadership in helping businesses innovate. Drawing on resources from across IBM and key business partners, IBM offers a wide range of services, solutions, and technologies that enable customers to create an Information On Demand environment and

customers to create an Information On Demand environment and gain insight into business information by combing through vast quantities of data quickly and then delivering that insight across the organization. These solutions provide right-time access to aggregated, cleansed information, which can be delivered in the context of the activities and processes being performed. Additionally, embedded analytics can also be leveraged as part of a business process to provide role-based access to information, enabling customers to gain competitive advantage by accessing and sharing information across department-level data marts and massive enterprise data warehouses. Not only do these solutions provide insight gleaned from structured information. Duel Male also provides customers with the ability to

Not only do these solutions provide insight gleaned from structured information, but IBM also provides customers with the ability to incorporate knowledge from unstructured information, producing a more complete view of the business. All of these solutions are based on a standard reference architecture to ensure an open and flexible business intelligence infrastructure.

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Distributive Management

When you make decisions about your business, are you confident that you are always working with accurate and timely information? Obtributives Web-based performance management software. DataDrill EXPRESS, helps companies of all sizes leverage performance measurement to improve project, process, and business performanct through user-friendly dishboards. EXPRESS makes it say to have through user-friendly dishboards. EXPRESS males it easy to have up-to-date information accessible 2MI, ownship to help you understand results, execute strategy, and artives superior performance. EXPRESS is an exestponally cost-effective approach for deploying an automated, fully scalable performance management solution. The bulls in performance reporting took and out-of-the-box metrics libraries are designed to get performance dashboards up and unning effortlessly. Our Intelligent integrations to you sources of data keep performance measurement low-impact and nonreliant on IT resources. EXPRESS consistently disleves the right information to the right people in time for them to act on it. Personalized dashboards, compliance tracking, and exception reporting an elediever for infamiliar and easy-to-use Web views. EXPRESS includes interactive tools for creating, monitoring, and refining load may dark proprise access the creating, monitoring, and refining load may dark proprise access the creating, monitoring, and refining load may dark proprise access the creating, monitoring, and refining load may and targets allonguide extual and easy-to-use were views. EXPRESS includes interactive tools for creating, monitoring, and refining plans and targets alongside actual performance data, and leverages historic data, lessons learned, and best practices to improve the results of current and future endeavors Visit us for product information, demos, and white papers

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- Analyze the business situation, comment and communicate to
- Find relevant data using standard search technologies like
- Microsoft Enterprise Search.
- Create a new drillable performance dashboard/scorecard based on business terms using only a Web browser.

 Publish the performance dashboard for mobile use in his/her cell phone or BlackBerry and send the link to a colleague.
- All of this is done while maintaining the core values of real business intelligence solutions:
- Extremely high performance powered by the industry's leading business intelligence infrastructure—Microsoft SQL Server 2005.
- One version of the truth used by all information workers in the organization
- the displantation.

 Fully using and leveraging the open standards for business intelligence, giving unparalleled possibilities in consistent integration of business data by business professionals.

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iDashboards

intelligence dashboard solution to present real-time information. Companies are adopting iDashboards as the corporate standard to Companies are adopting libarhboards as the corporate standard to deliver performance management, scorecards, and business allest. There is a strong payback when business users can instantly access, analyze, and drill through a wealth of information for effective decision—making. Dashboards is helping companies improve performance and accountability in every area of their operations. iDashboards' Business Activity Monitoring (BAM) Module allows monitoring of key performance indicators (KPIs) through real-time

iDashboards can seamlessly integrate into any data environmen Dashboards can seamlessly integrate into any data environment. The Dashboards application draws data from database and data warehouse, data mart, spreadsheets, XML, DLAP, and other data sources. With its patented Visual Intelligence, Dashboards creates unified visual framework for metrics and key performance indicators (KPB) from disparate data sources. It can pull live metrics from diverse applications such as REP, financial systems, sales management, or any other business application.

iDashboards also works as a portlet within any JSR168 compliant portal and integrates with Microsoft SharePoint. In addition, iDashboards is available for integration with existing software solutions through an OEM partnership.

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Information Builders

and real-time operational reporting. The company's WebFOCUS product—the industry's most scalable, secure, and flexible—is a product—the industry's most scalable, secure, and flexible—a able to meet all the reporting needs of the extended enterprise, ranging from analysts to power users to the widest deployments for hundreds of thousands of users. Additionally, WebFOCUS is unmatched at empowering organizations seeking to leverage all their data by accessing it all from legacy to data warehouse.

"Operational performance management solutions include the ability to link goals, metrics, and projects in an actionable way. This promotes uint goas, metrics, and projects in an actorianable way. Ins promote effective communication, alignment, and analysis, and enables everyone in the organization to understand and contribute toward strategic business goals and to help customers efficiently connect people and processes to manage business performance," said Gera Cohen, CEO of Information Builders.

With the philosophy that everyone—from the CEO to process device is considered, proofs expert in a conditional control for the total control of the control of the other to consider for sometime for the total control of the other total control of the o

what is plintably in the every fure-in-indicate the Control process clerks to supplies—meets access to good information for better decision-making, Information Builders' flexible, modular Perform Management Famework is easily allored to enable a culture of accountability. Enterprise customers such as Eastern Mountain Sports (EMS) rely on Information Builders' WebFCCUS to unders corporate performance and drive business results.

www.informationbuilders.com



LogiXML

LogiXML makes it easy to build Web-based dashboards, develop sophisticated reports, and perform a variety of analyses. With the Logi 8 Business Intelligence Platform, users can combine charts, graphs, analysis grids, and other interactive features in a personalized, dynamic

Logi 8 provides your report developers with a comprehensive platform Logic provides your lepoil toevelopers with a Completensive paractive that takes advantage of the latest technologies like AIAX to create fully dynamic and interactive, role-based dishboards, scorecards, and information portals for end users. The Logi 8 interactive dashboards allow managers and executives to monitor, measure, and share key performance metrics instantly and view the information most

www.logixml.com/dashboards



Microsoft

Microsoft Office PerformancePoint™ Server 2007 is an integrated windsoft Office Performance Profits Server 2007 is an integrated performance management application designed to help improve operational and financial performance across all departments and all levels of your organization. With Office PerformancePoint Serve all levels of your organization. With Office PerformancePoint Server 2007, you can monitor progress, analyze what is driving variances, and plan your business from budgeting to creating management reports. You can have metrics, key performance indicators (PRs), and reports delivered to every desktop through intuitive scorecards, dashboards, and the easy-to-use 2007 Microsoft Office system environment. A key component of the Microsoft Business Intelligence (8I) offering, Office PerformancePoint Server 2007 can help you undestand how performance can align with personal and departmental goals and objectives.

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departmental goals and objectives.

Microsoft Business Intelligence Overview

Microsoft Business Intelligence Overview

Microsoft Business Intelligence Colorise

Microsoft Business

Micr support your company's goals and initiatives.



MicroStrategy

MicroStrategy is a global leader in business intelligence (BI) technology. Founded in 1989, MicroStrategy provides integrated reporting, analysis, and monitoring software that helps indusing organizations worldwide make better business decisions every day, Companies choose MicroStrategy for its advanced technical capabilities, sophisticated analytics, and superior data and user scalability.

with thousands of customer successes and a reputation for innovation and leadership, MicroStrategy is the clear choice for your business intelligence requirements. More information about MicroStrategy is available at www.microstrategy.com/BestinBl. Find out more about our dashboard solutions at our Web site.

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Noetix

Immediate Access to Business Intelligence
Noetic Dashboard provides immediate access to your Oracle E-Busines
Suite and Siebel Business Applications data, enabling decision makers
to actively guide business performance and address emerging problems as they arise.

Benefits of Noetix Dashboard include

- Fast implementation time
 Leverages your existing technology
 Decisions made with up-to-date data
 Centralized management and administration
- Improved business performance and profitability

With a library of dashboard templates that display key metrics for With a library of dashboard templates that display key metrics for tracking your organization's performance, you can quickly deploy dashboards that meet your needs. For users of the Oracle E-Business Suite or Siebel Business Applications, Noetix provides hundreds of preconfigured KFB, which connect automatically to your data through Noetix/iews technology.

Noetix provides software that automatically generates metadata redet to provide software that automatically generates ineclastic informations from Oracle's Enterprise Applications, enabling immediate access to business intelligence data. More than 1,300 customers worldwide use Noetic's proven technology, empowering users to quickly generate the ad hoc operational reports and dashboards needed for critical and timely business decisions.

Discover how to dramatically increase the return on your reporting investment and enhance your ability to quickly answer critical business questions. Call us toll-free at 866-4NOETIX or visit our Web site.

www.noetix.com



The Three Threes of Performance Dashboards

Performance dashboards are the new face of business intelligence. The dashboards of today are full-fledged business information systems, designed to help organizations communicate strategy, monitor and adjust the execution of strategy, and deliver insights and information to all

Performance dashboards provide a layered interface that conforms to the way users work, helping them move through successive layers of information in a carefully guided and systematic manner. When aligned with strategic objectives and plans, performance dashboards empower users to work more efficiently and effectively toward a common set of goals. They help measure the past, monitor the present, and forecast the future, allowing an organization to adjust its strategy and tactics in real time to optimize performance.

TDWI thanks BNSF Railway, Rohm and Haas, and Insightformation for supplying the screenshots for this poster.



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