Business Intelligence applications developed with IBM's Cognos

Technical white paper

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Business Intelligence

Our time and efforts has been devoted to developing Business Intelligence applications using IBM Cognos. We tend to leverage most of Cognos' platform to bring out customer satisfaction at highest level possible. So far, two applications have been developed and are successfully maintained, supported and upgraded.

From tabular reports with crosstabs and lists, to various charts to visualize gathered data – we have mixed them all. In addition, reports we developed augment results with external web services, refresh data on daily basis and historise dimensions of interest. Our applications bring unique experience and assist our end-users in analyzing gathered financial data to bring business decisions with great ease!

Succeed BI

A financial dashboard with customized control for users to pick different dimensions when generating a financial report. Users can use more than 30 filter dimensions which can be combined to deliver a report that only displays data which concerns the individual running the report.

Features:

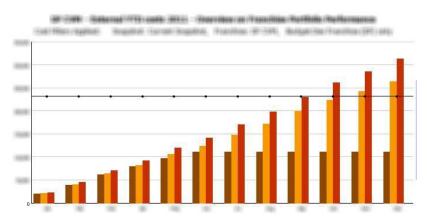
- Customized dimensions to choose for filtering
- Daily data refresh
- Dimension data historization
- Multiple report output types available
- Boosted report generation with database optimization





Lifeline

Multilevel, drillable application for project budgeting. Backed up with charts for data visualization, the financial part of this project aims to help financial teams estimate; track and compare expected budgets with actual costs for each project. The milestone part of the application is used for tracking set milestones within individual organizations

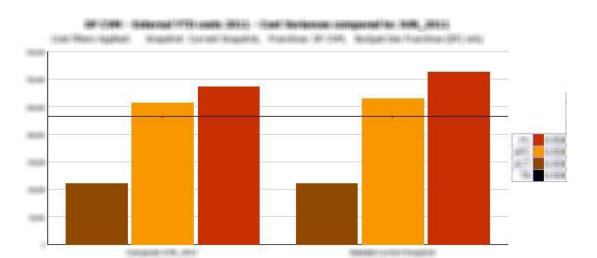


Features:

- Multilevel data granularity
- Drillable interface for level migration
- Historized dimension data
- Easy comparison of forecasts, budgets and actual costs



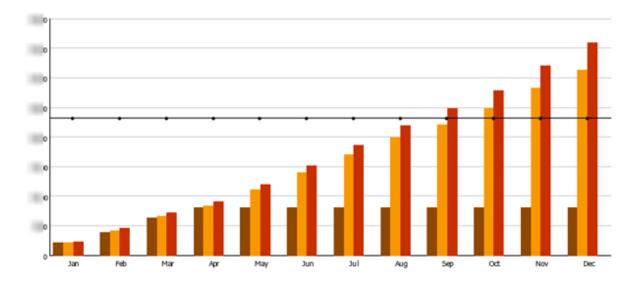
- Multiple report output types available
- Variance calculations



Since data is gathered from a living application, its quality must be checked and confirmed. Therefore we developed a stand-alone QA tool for data integrity. Many times it helped find and correct errors in the data which originate from the data source application.

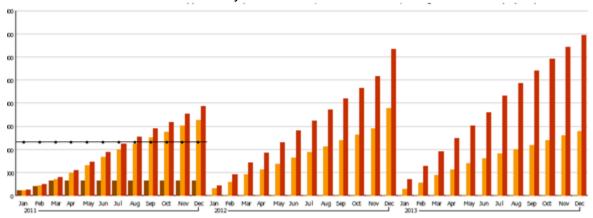
Report and chart features

- YTD calculations based on one year

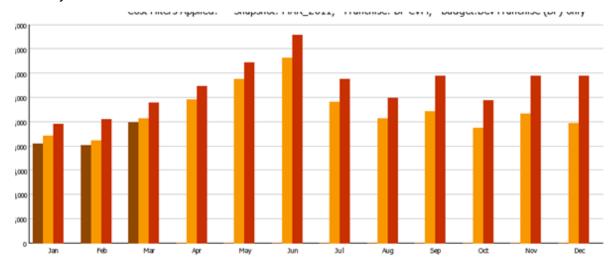




- YTD calculations in more than one year view



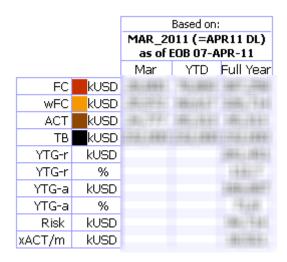
- Monthly view of the costs



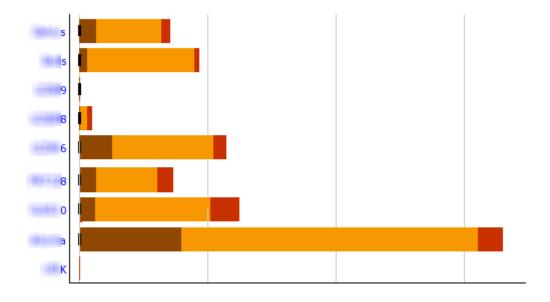
- Dynamic created legends for the charts

		Compared to:	Selected:	Variance: calculation method Selected - Compared to full year			
		JUN_2011 (=JUL11 DL) as of EOB 05-JUL-11					
		Full Year	Full Year	Δ	Δ%		
FC	kUSD	-98cm/5	18.11.198	-F1600	11/8/10:		
wFC	kUSD	-97 -00	-981-997	10,000	3113390		
ACT	kUSD	10.76	10.000	100	11890		
ТВ	kUSD	-			378.		



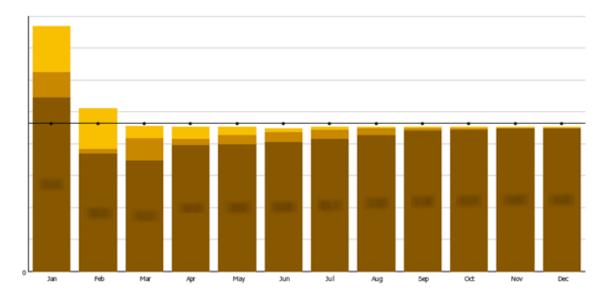


- Cumulative calculations based on the different cost types

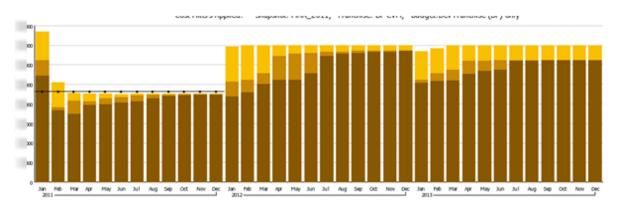


- Future virtualization of the costs using past snapshots and costs simulation for the future using the last one

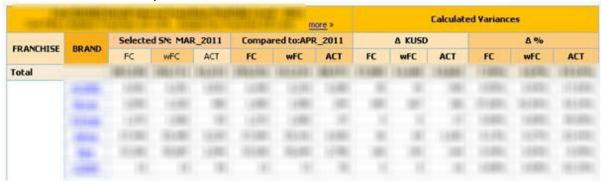




- Three years simulations



Variances between snapshots costs

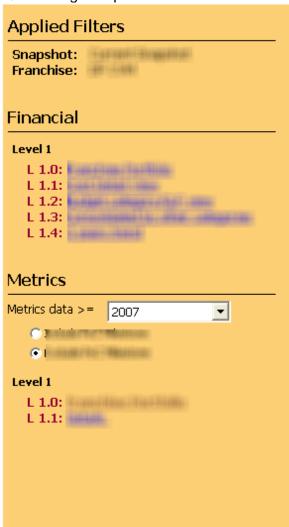


- Chart view in the intersection cell for better visual presentation of the data



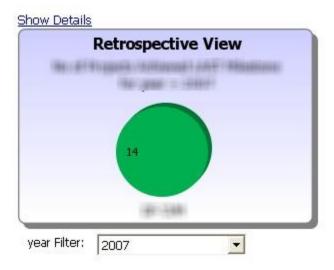


- Quick navigation panel





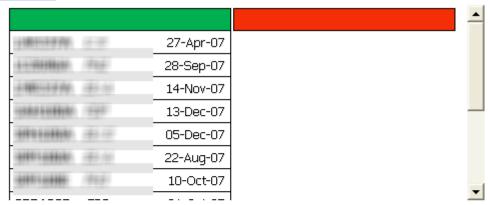
- Easy navigation between report levels
- Different milestones tracking for the process

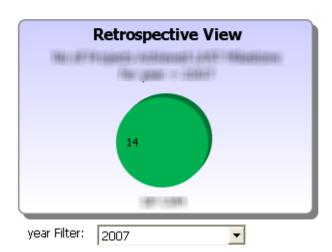


- Details what is in the pie:

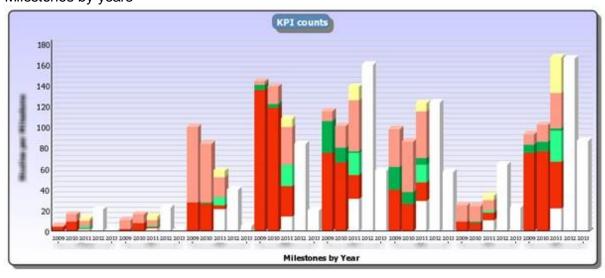


Hide Details





Milestones by years



- Quick navigation from one to more than one years for the charts
- Crosstab Freeze Row ideal for vertical scrolling







Analysis of the milestones – when it is planned, when it is finished, the delta, if it is completed on time?....

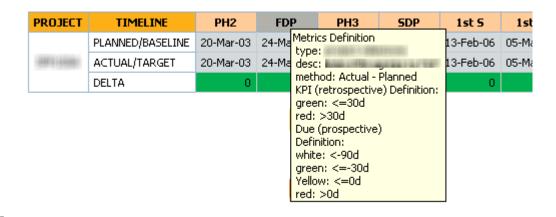


- Details for each cell of the analysis





- Embedded results from the server services as a report
- Dynamic tooltip description for each column header



- Dynamic legend for each chart, table and crosstab



S	tudy Milestones coloring	Retrosp	ective	Prospective				
Milestone	Case							
99		<=-3	>-3	<-90	<=-30	<=0	>0	
999		<=-3	>-3	<-90	<=-30	<=0	>0	
386		<=-3	×-3	<-90	<=-30	<=0	>0	
-10-		<=3	>3	<-90	<=-30	<=0	>0	
311/696	E0:0080	<=-7	>-7	<-17	<=-12	<=-7	>-7	
311/696	Japan Builder and Ellis (1999)	<=-42	>-42	<-62	<=-58	<=-42	>-42	
311/696	100 Links 11/100 1/100	<=-70	>-70	<-90	<=-85	<=-70	>-70	
10.		<=-3	.Υ	<-90	<=-30	<=0	0<	
46,000		<-12	>-12	<-23	<=-18	<=-3	>-3	
-100		<=-3	>,⊲	<-90	<=-30	<=0	>0	
461730	E117E31880	<=-70	>-70	<-90	<=-85	<=-70	>-70	
461730	\$655.47\$655.66860	<=-175	>-175	<-195	<=-190	<=-175	>-175	
English:		<=-3	>-3	<-90	<=-30	<=0	>0	
3,0771		<=-133	>-133	<-154	<=-147	<=-133	>-133	
761		<=-3	>-3	<-90	<=-30	<=0	>0	
PROFITE	-	<=-133	>-133	<-154	<=-147	<=-133	>-133	

Dynamic coloring of the cells dependent of the Milestone status

CLINICAL	PARAMETER	Milestone							Milestone Analysis					
		MINE.	1898	(899)	SPRING	SARGE	(886)	1586	1986	HARRIST	(ENGINEER)	19814/1886	486,7185	-
	1000			11-Feb-10	17-Jun-10	17-Jun-10	26-Aug-10		17-Feb-11	17-Jun-10	17-Jun-10	26-Aug-10		17-Feb-1
					17-Jun-10							17-Jun-10		26-Aug-1
	100			1887	- 2	-	30		1801			- 10		- 48
	1000			07-Oct-03	02-Feb-04	13-Mar-04	24Mar-04		28-Jul-06	02-Feb-04	02-Feb-04	24Mar-04		28-34-0
	-			07-Oct-03	02-Feb-04	11-Mar-04	24Mar-04		28-3ul-06			11-Mar-04		24 Mar-0
	-			00-34-05	26-Sep-05	12-Nov-05	28-Nov-05	25-Nov-05	17-Feb-06	26-Sep-05	26-Sep-05	29-Nov-05	25-Nov-05	24May-0
	300			08-34-05	26-Sep-05		29-Nov-05	A PARTICIPATION OF	24May-06	200000		11-Nov-05	29-Nov-05	29-Nov-0
	-				-			- 100	-				- 4	100
	1000			31-Aug-06	18-Dec-06	14-May-07	01-Aug-07	05-Jul-07	03-Dec-07	04-Jan-07	04-Jan-07	01-Aug-07	05-Jul-07	05-Dec-0
				31-Aug-06	04-3an-07	21-Jun-07	01-Aug-07		05-Dec-07			21-Jun-07	01-Aug-07	01-Aug-0
	1				-	76		960	- 1				- 6	
					31-Aug-04	28-Feb-05	05-Mar-05		10-Jun-05	31-Aug-04	31-Aug-04	05-Apr-05		09-Jan-0
					31-Aug-04	18-Mar-05	05-Apr-05		09-Jan-06	1000 M (C) A		10-Mar-05		05-Apr-0
	-	-		07-May-04	26-Nov-04	18-Mar-06	23-Mar-06		01-Jun-06	26-Nov-04	26-Nov-04	13-Mar-06		30-Jan-0
	200			12.2.3.00	26-Nov-04	27-Feb-06	13-Mar-06		30-Jan-07			27-Feb-06		13-Mar-0
				(100)	-					_				
	_			03-Feb-06	15-Mar-06	13-Apr-07	14May-07		27-348-07	09-Jun-06	09-Jun-06	17-Jul-07		11-Nov-0
					09-Jun-06	17-Apr-07	17-34-07		11-Nov-08			17-Apr-07		17-34-0
				1886										

