



Managing your business in turbulent times with Rolling Forecasts

David Axson Stephen Brook



Taking the guesswork out of forecasting

Prague, Moscow and Paris 2009



Course Rules

Be flexible

Ask lots of questions

There is no right answer (or wrong answer)

Learn from each other

Have fun







Today's Agenda

09:00 – 09:15 Welcome & Introductions

09:15 – 10:00 Rolling Forecasts Defined

10:00 - 10:15 Break

10:15 – 11:30 Designing An Effective Forecast

11:30 – 12:30 Implementing A Rolling Forecast

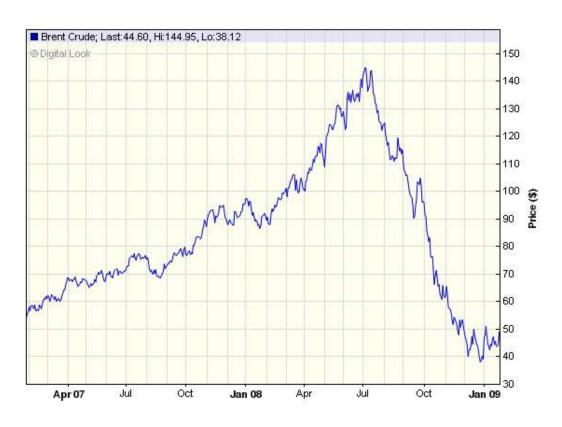
12:30 Q&A, Close





Forecasting has become a lot harder recently

Oil Prices: Last 2 Years (Brent Crude)



- Commodity prices
- Real estate
- Consumer spending
- Exchange rates
- Share prices
- Employment





Even the best are struggling

"Visibility is low and forecasting is challenging"

Peter Oppenheimer, CFO, Apple, 22nd October 2008







What is forecasting?

Forecasting is the process of periodically updating the current view of future performance to reflect new or changing information.





What it is and what it isn't

ls:

- Positive
- Flexible
- Forward-looking
- Decision support oriented
- Insightful
- Focused on opportunities and threats

Is not:

- A means for apportioning blame
- A target negotiation process
- Always right





The goal of great forecasting

"The end result . . . is not an accurate picture of tomorrow, but better decisions about the future."

Peter Schwartz, The Art of the Long View, (New York: Doubleday, 1991)









Is forecasting the most valued and loved management process?





Why is it so painful?

- Time consuming
- Detailed
- Financially driven
- Too many allocations
- Single point estimates
- Sandbagged
- Calendar driven

- Accounting oriented
- Simplistic
- Limited materiality
- Little accountability
- Spreadsheet dominated
- Manually intensive
- Exhaustive (or is it exhausting?)

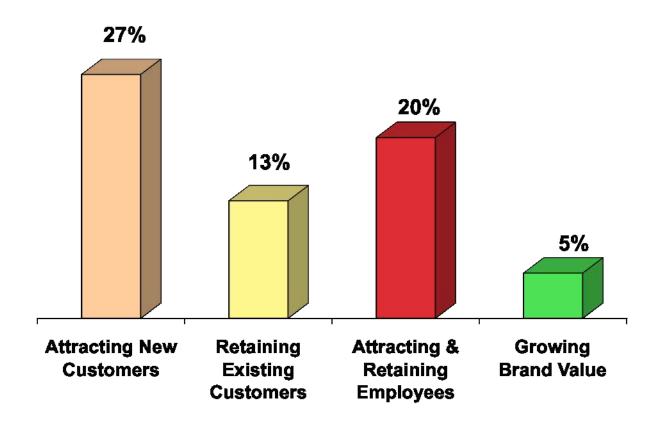
But, the real danger is the potential for making bad decisions





The focus is wrong

Do you forecast the following items?

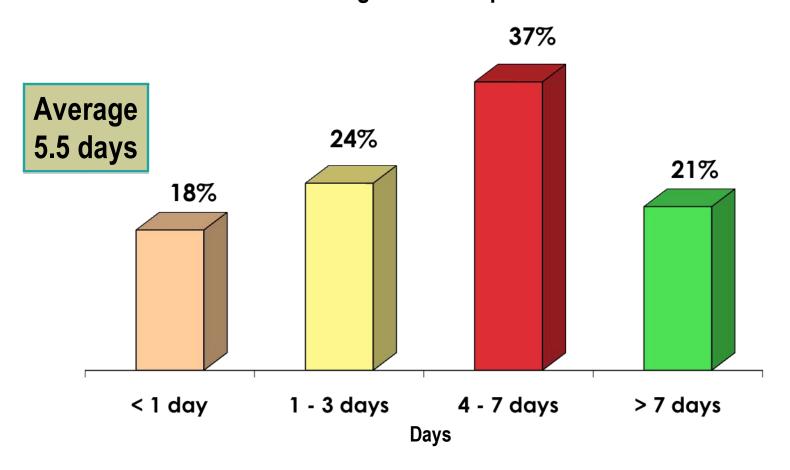






Fast, frictionless? Forecasting

How long does it take to develop a forecast from the triggering event to management acceptance?







So,

Why A Rolling Forecast?

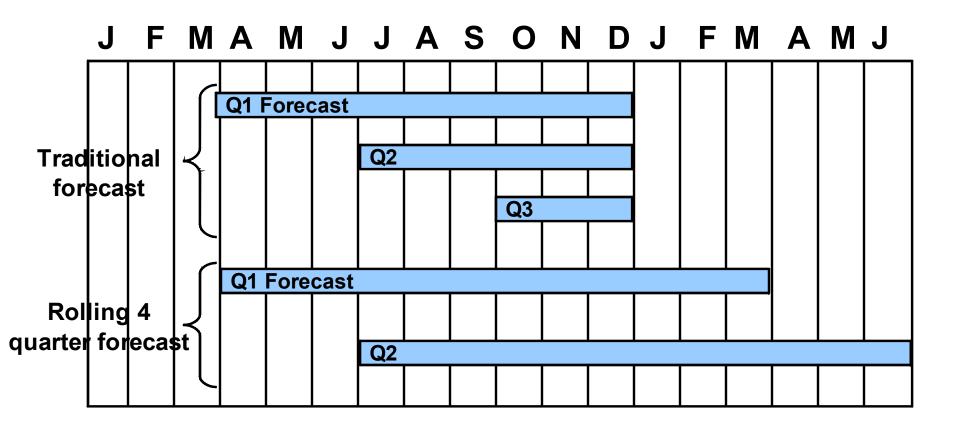








What is a rolling forecast?







Why are rolling forecasts attractive?

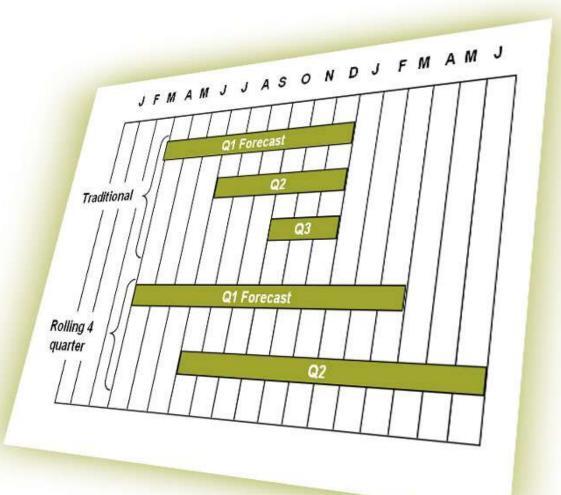
Benefits

Consistent time horizon

Provides a baseline for future plan periods

Captures the longer term impact of changes

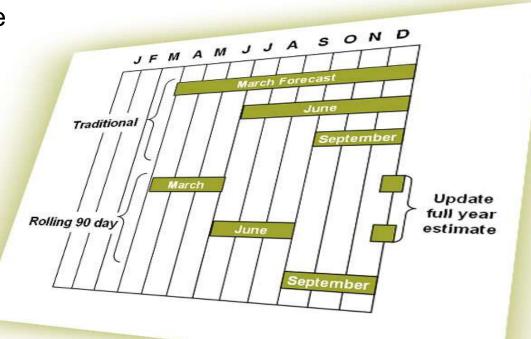
Reduces reliance on a obsolete budgets





Understand the limitations

- Match the time horizon to the rhythm of your business
- Level of detail driven by decision making needs
- Understand your predictive ability
- Can create confusion with annual performance targets







Case Study - Southwest Airlines



- Southwest Airlines has consistently delivered industry leading performance in volatile times e.g. 9/11, Hurricanes Katrina and Rita, \$120 oil
- The annual budget serves as a basis for estimating the resources required to deliver income and cost estimates within manageable ranges. However, budgets are updated every quarter for the next quarter to reflect current information.
- Quarterly budgets are further supported by 12-month rolling forecasts.
 These forecasts have no bearing on incentive compensation so the risk of sandbagging is minimized and accuracy is consistently good.
- Key attributes of the Southwest process include:
 - Setting a realistic planning horizon quarterly budget updates are for the next quarter only.
 - Matching the level of detail to its predictive ability for example revenues are updated daily and the forecast horizon is monthly; while maintenance is updated semi-monthly and the forecast horizon is six months.
 - Integrating the budget, quarterly updates and forecasts but with a clear purpose for each.
 - Using the annual budget as a resource allocation process not a negotiated target setting process.

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2:30 Q&A, Close







Ask the right questions

What is the forecast for?

What needs to be included?

What forecast methods should be used?

What time horizon makes sense?

How much (relevant) detail can we provide?

How do we incorporate risk and uncertainty?

How often should we forecast?

Who owns the process/results?

Who needs to be involved?





Why forecast? What is the purpose?

- How will the forecast be used? For example:
 - a) Forecast new product sales to:
 - adjust advertising and promotional support
 - ensure adequate capacity is available to meet expected demand, or
 - identify new products that are failing
 - b) Forecast staffing levels to:
 - Set recruitment plans
 - Identify mix of full-time and part-time staff
 - Adjust outsourced staffing levels





What should be included?

Functions

Business processes

Organizational



Product/customer

nternal



External

Results



Drivers

Controllable



Non-controllable

Financial



Non-financial

Cognos. software



Understand how the results will be used

Forecast Type	Primary Focus	Use(s)
Market	Estimate market size	Determine marketing investments
Sales	Estimating booked sales	Establish production schedule
Cash flow	Estimate inflows and outflows	Optimize borrowing





Focus on both business drivers and results

External Drivers

- Economic growth
- Consumer spending
- Population growth
- Exchange rates
- Unemployment
- Market size
- Competitor behavior
- Customer behavior

Internal Drivers

- Time to market
- Sales force efficiency
- Productivity
- Quality
- Labor costs
- Inventory levels
- Comparative pricing

Results

- Market share
- Sales
- Profits
- Return on equity
- Cash flow
- Capital requirements
- Staffing levels





Build the early warning mechanisms

	Perform 3rd Quarter		uarter		
Metric	Status	Actual	Fcst	Status / Commentary	
Customer					
Customer Delight		49.0%	54.0%	Stable to Q2. Early Q4 results trending toward 51%	
Counterparty Delight		8.0%	12.0%	Modest 1pt increase.	
Cust/Client Retention		88.4%	88.5%	Slow & steady improvement	
Net Relationship Growth		.8 mm	.9 mm	Above plan voluntary attrition	
Productivity		\$1.4Bn	\$1.2Bn	Focus shifted toward revenue improvement.	
Associate					
Satisfied		77.0%	79.0%		
Turnover		18.50%	16.90%	Driven by economy and job opportunities. High seasonality in Aug/Sept - will trend down in Q4 to 17.8%	
People of Color		13.76%	13.80%	24% of Sept opportunities were POC	
Female		37.22%	37.80%	48% of Sept opportunities were Female	
Shareholder					
TSR (3-Yr Return Ranking)		1	1	26% annual compound return	
Change in SVA		\$ 1,632	\$ 538	\$3.4Bn earnings growth; 1% decrease in cost of capital	
EPS Growth		25.8%	7.8%	Drivers: 22% earnings growth; 50mm share reduction	
Revenue Growth		10.1%	5.2%	2.4% margin growth, 22% fee growth. Mortgage, card and loan sale gains as significant contributors	

Match the time horizon to the rhythm of your business

Short cycles

Industry

- Consumer electronics
- Retailing
- Investment banking

Function

- Advertising
- Cash flow
- Overtime

Long cycles

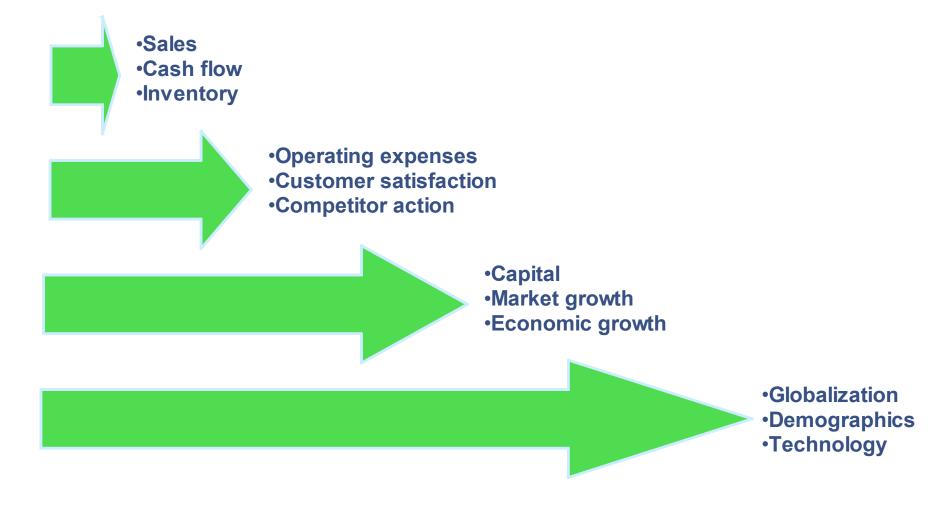
- Oil exploration
- Drug development
- Infrastructure investment

- Plant construction
- Infrastructure investment
- Research & development



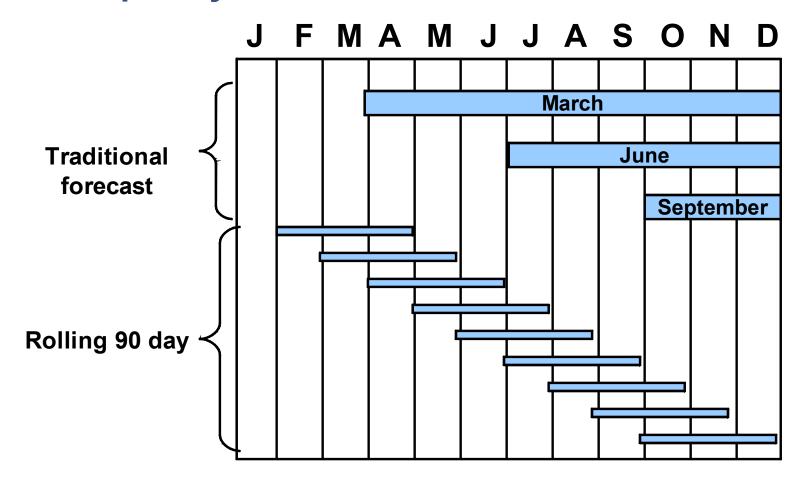


Time horizon can vary by metric





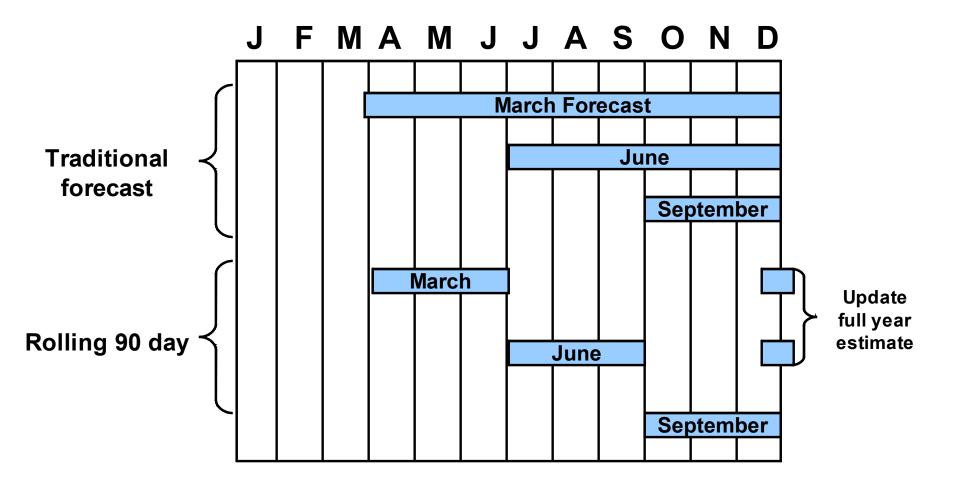
Companies are forecasting more frequently but with a shorter time horizon







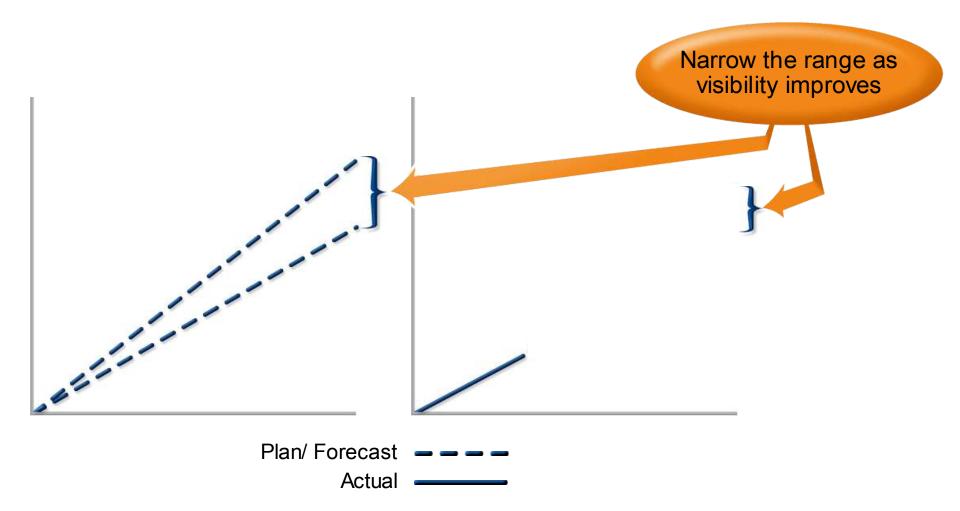
Rolling 90-day with full year update







Use Ranges to Acknowledge Uncertainty







Forecasting at Google

"There is a cost to not providing guidance and I understand that. The reason that we don't is our business is so dynamic we'd have to give very broad ranges and I don't think that would be constructive."

Eric Schmidt, CEO Google, January 2006





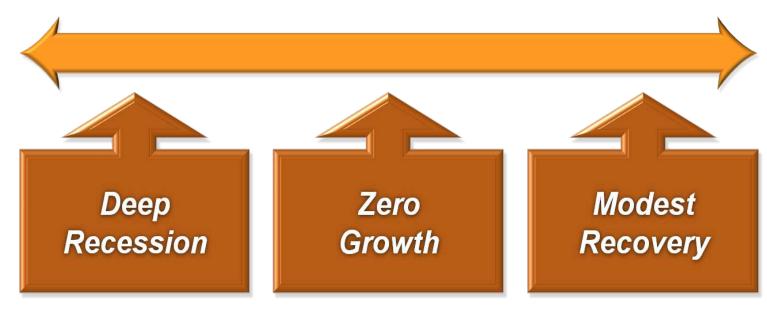
Level of detail driven by your decision making needs

- •When does a decision need to be made?
- •What information is is needed to make the decision?
- What are the consequences of getting it wrong?





Evaluate alternative scenarios



GDP Growth	-7%	0%	2.5%	
Inflation	-1%	1%	2-3%	
Oil	\$25	\$50	\$100	
Gold	\$1,200	\$1,000	\$750	
Unemployment	14%	9%	6%	Cognos. software



What should trigger a forecast?

- External needs
- Investor communications
- Regulatory requirements
- Management needs
 - Strategic planning
 - Capital planning
- Operational needs
- Market events
- Execution issues







DSO Free Cash Flow Exchange Risk

Participation, Roles and Ownership

Market Size **Share Targets Product Launch**

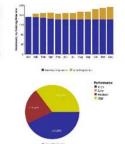


Marketing

CEO

Strategic Targets Market Priorities Earnings Goals







Finance

Contact to Close Cycle Sales **Average Selling Price** Selling Expenses



Sales



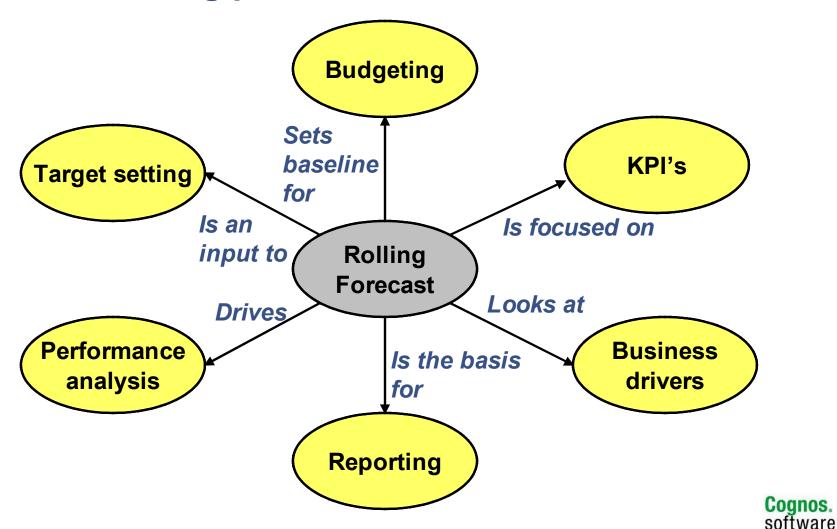
Operations

Product Cost Inventory Levels Quality Costs





The forecast is the hub of the decision making process





Set realistic expectations

Drivers of forecast variance:

- 1. Unexpected external events
- 2. Discretionary decisions made after the forecast creation
- 3. Known items where timing or magnitude not known
- 4. Process errors





Case Study - American Express

- Volatility in post 9/11 served to highlight the deficiencies in Amex's traditional processes:
 - Relatively static planning process
 - Lack of consistency in forecasting approaches
 - Numerous different systems across its three businesses.
- The company needed a more flexible, integrated and responsive process to deal with the uncertain and volatile economic environment. The key elements are to:
- Base business forecasts on key drivers of activity such as the number of American Express cards in use and the average spending per card
- Set credible top down targets for each business unit
- Move to a rolling five quarterly forecast.
- Introduce scenarios to evaluate the potential impact of a range of uncontrollable events and create a management playbook to mitigate the risks and take advantage of the opportunities
- Standardize tools and methods while still allowing for local customization for unique business conditions and drivers.
- Eliminate the traditional annual budget in 2005.

Source: The Beyond Budgeting Round Table and American Express





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The Roles of Process and Technology



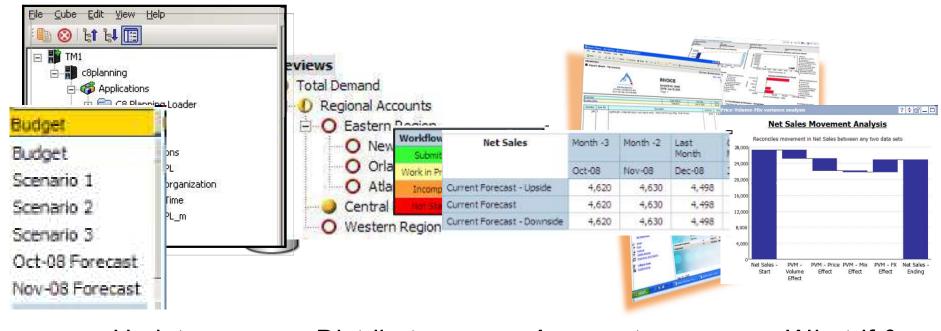
Process management needs to be a focus

- Set strict goals
- Link process to decision making
- Aim for discipline & repeatability









Update Models

Distribute Models

Aggregate data

What-if & Optimize

New version

Load Actuals Collect Data Report & Analyze







Management Meetings

Decision Making!



let Income

9.83

16.17

14.35

17.53

17.53

20.18



Have you seen this template?

	January	February	March	April	May	June	July	August	September	October	November	December	TOTAL	YTD Actuals Variance	YTD Act Var %	Total Variance	Total Var
	Actuals	Actuals	Actuals	Actuals	Actuals	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast					
Revenue	143.00	150.00	176.00	166.00	200.00	180.00	181.00	190.00	200.00	200.00	210.00	260.00	2256.00	-65.00	-7%	256.00	13%
00S	92.95	97.00	114.00	108.00	131.00	117.00	117.00	125.00	131.00	132.00	140.00	180.00	1484.95	-957.05	-64%	84.95	6%
√largin	50.05	53.00	62.00	58.00	69.00	63.00	64.00	65.00	69.00	68.00	70.00	80.00	771.05	-22.95	-7%	71.05	10%
/largin %	35.00%	35.33%	35.23%	34.94%	34.50%	35.00%	35.36%	34.21%	34.50%	34.00%	33.33%	30.77%	34.35%	0%		-0.65%	
Salaries	19.00	19.00	19.00	19.00	19.00	19.00	19.00	22.00	22.00	22.00	22.00	22.00	243.00	-1.00	-1%	-3.00	-1%
3onus	1.43	1.50	1.76	1.66	2.00	1.80	1.81	1.90	2.00	2.00	2.10	2.60	22.56	-2.35	-39%	2.56	13%
3enefits	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.22	0.22	0.22	0.22	0.22	2.43	1.35	59%	-0.07	-3%
nsurance	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	1.80	0.00	0%	-0.10	
Rent	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	34.80	0.00	0%	-1.20	-3%
Jtilities	3.00	2.00	2.50	1.58	1.00	1.00	1.20	1.40	1.59	2.00	2.50	3.00	22.77	0.92	8%	-1.23	-5%
Office Supplies	0.11	0.20	0.16	0.20	0.07	0.37	0.14	0.42	0.49	0.34	0.38	0.43	3.30	0.07	9%	1.00	43%
ravel - Air	7.15	7.50	8.80		15.00	9.00	9.05	9.50	10.00	10.00	10.50	13.00	118.50	-17.45	-58%	13.50	
ravel - Hotels	1.43	1.50	1.76	1.66	2.00	1.80	1.81	1.90	2.00	2.00	2.10	2.60	22.56	-3.35	-67%	-7.44	-25%
			0.88	0.83	1.00	0.90	0.91	0.95	1.00	1.00	1.05	1.30	11.28	-2.68	-178%	6.28	
ravel - Car	0.72	0.75	0.00	0.03	1.00	0.50	0.51		1.00						2	0.20	126%
ravel - Car ravel - Train	0.72 1.30	0.75 1.00	1.50		1.20	1.00	1.00	3.00	2.00	2.00	2.00	3.00	20.00	-1.50	-33%	9.00	126% 82%
				1.00							2.00 0.00	3.00 0.00		-1.50 0.00			82%
ravel - Train	1.30	1.00	1.50	1.00 0.50	1.20	1.00	1.00 0.00	3.00	2.00	2.00			20.00		-33%	9.00	82%

16.24

20.98

15.01

14.62



0.01

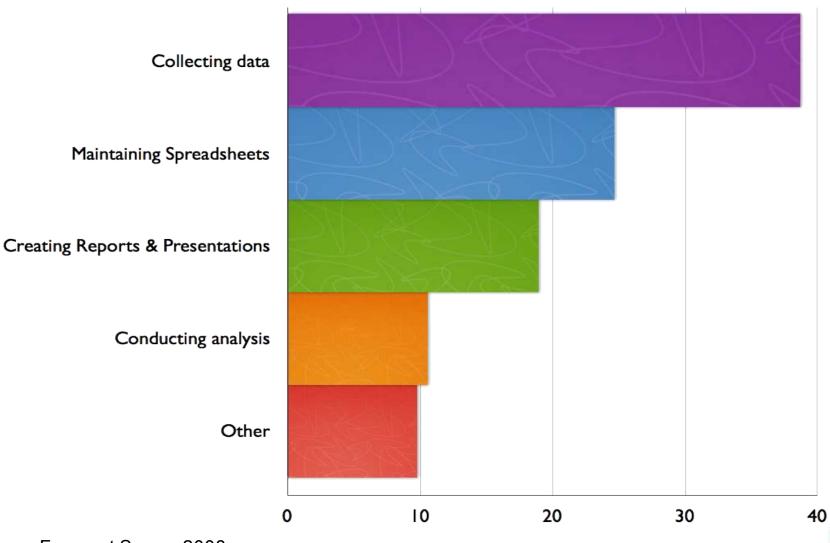
27.66

200.01

15.43



How do we spend our time?

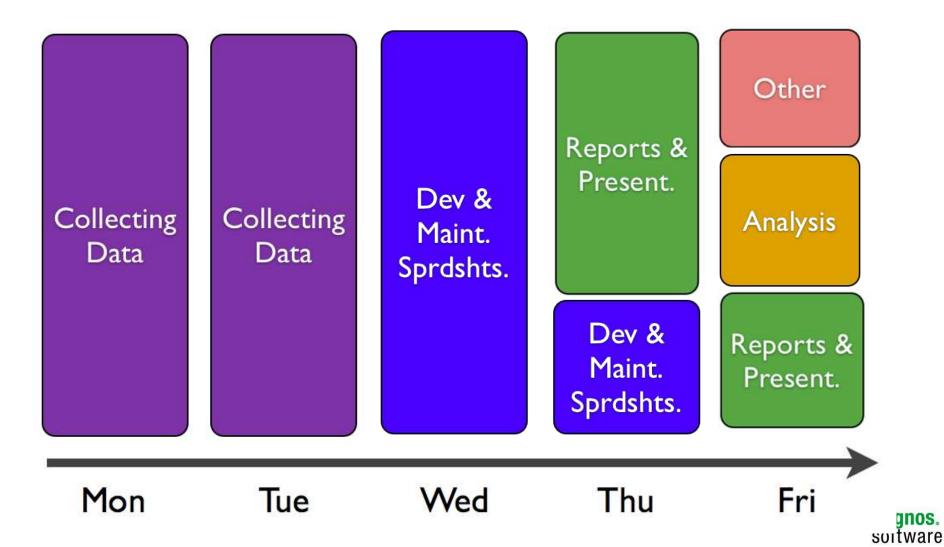


Cognos Forecast Survey 2008

Cognos.



Same data – different perspective









It's not only about the effort – consider the errors!



"90% of the spreadsheets analyzed contained significant errors."

PriceWaterhouseCoopers

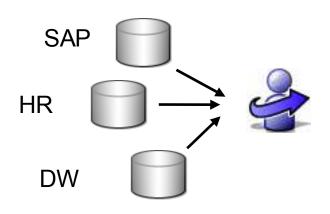
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0.0	0.0	0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0





More time on Monday & Tuesday





Automated Interfaces



Workflow & High Participation

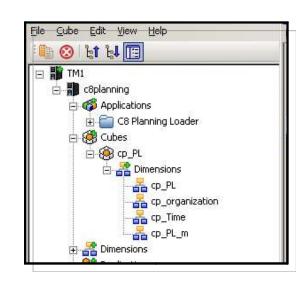




Wednesday and Thursday can look better as well

Reports & Present.

Dev & Maint. Sprdshts.



Centralized model maintenance



Automated reporting





The best are able to achieve this picture

WEDNESDAY **THURSDAY MONDAY TUESDAY FRIDAY** Other **Activities** Collecting Data Strategic Interacting Interacting Initiatives With With Performing **Analysis** Decision Decision Makers Makers Performing Personal **Analysis** Development

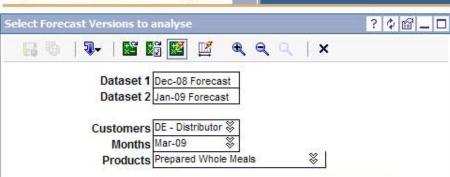




Let's stop talking and look at this in real life.

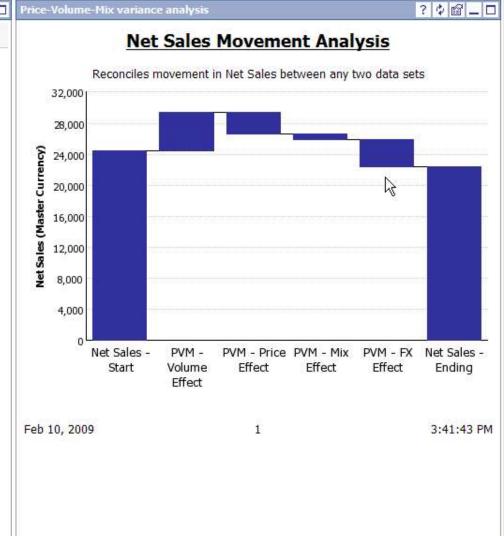
- Review progress of my team
- Review last quarter's actuals
- Create new sales forecast
- Perform sensitivity analysis





22	Dec-08 Forecast	Jan-09 Forecast	PVM Effects
Sales Quantity	4200	5040	
Price - Local Currency	4.50	4.00	
Price - Master Currency	5.82	4.44	
Currency	EUR	EUR	
FX Rate	0.773	0.900	
PVM - Volume Effect	o to Pote Printing		4890
PVM - Price Effect			-2717
PVM - Mix Effect			-773
PVM - FX Effect			-3450
Net Sales - Local Currency	18900	20160	
Net Sales - Master Currency	24450	22400	

10	Exchange Rate
Budget	0.900
Scenario 1	0.600
Scenario 2	0.900
Scenario 3	0.800
Oct-08 Forecast	0.900
Nov-08 Forecast	0.773
Dec-08 Forecast	0.773
Jan-09 Forecast	0.900







Taking the first steps - A simple recipe



Make the leap! Easy?



I know the destination. But which road do I need to take?









Jump start your own implementation

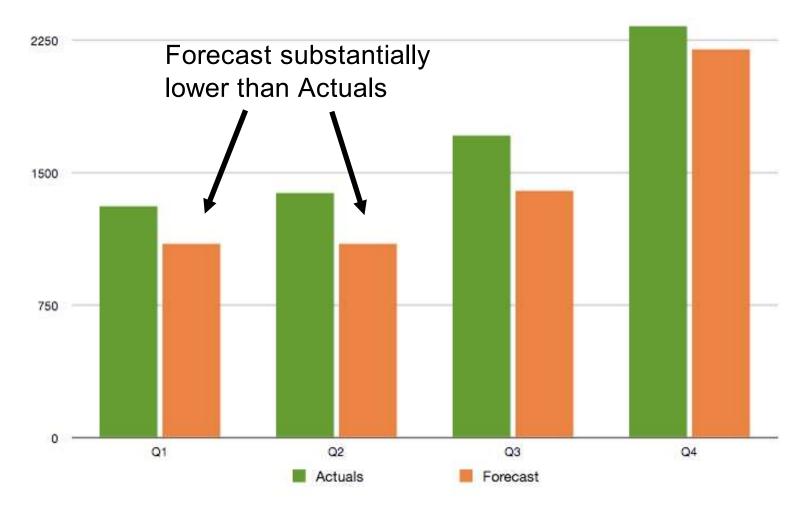
- 1. Understand where you are
- 2. Build the business case
- 3. Establish quick success







Step 1: Use your existing data to identify patterns....







....and start assessing your current process

Forecast Accuracy



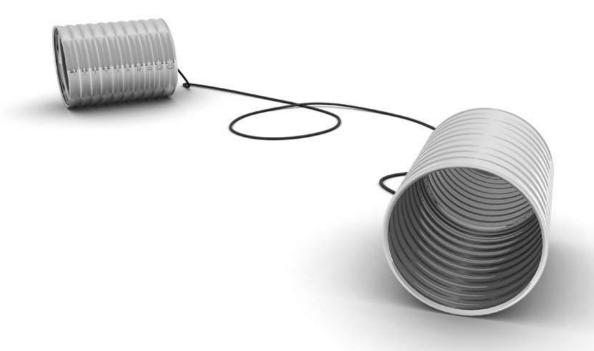
Cycle Time

Confidence Levels





Step 2: Communicate the results to build consensus...









...and use the data to build the business case

- Where are you?
- Where should you be?
- What are the benefits?





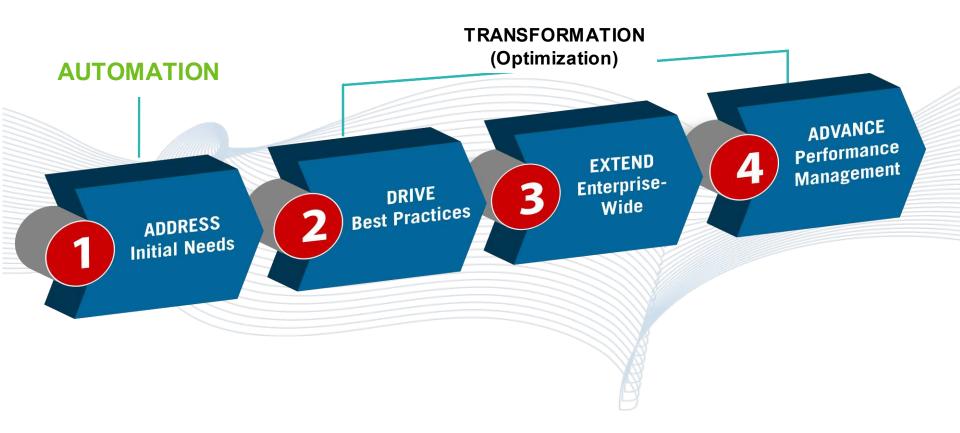


Step 3: Get started and pick a well defined area





...and make a leap through Automation with Cognos







We are here to help you: Cognos Innovation Center





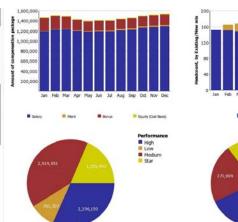


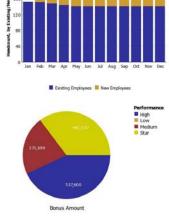


Do you know the Blueprints?

Pre-configured processes and models ...







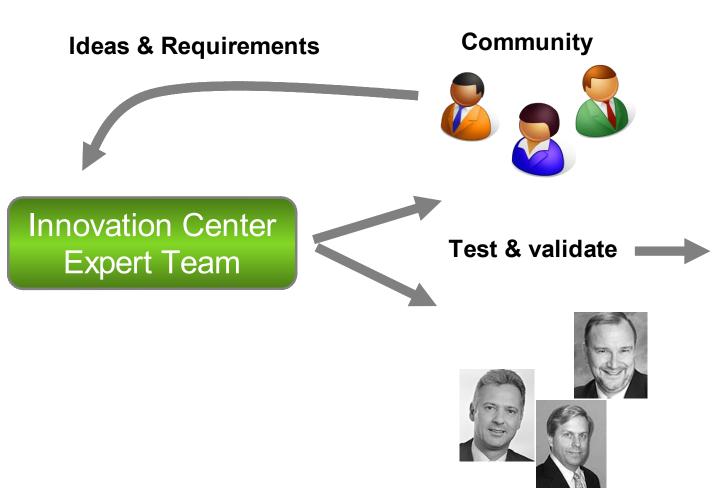
Headcount & CompensationSummary	Corporate Guide	eline Summary	Employ	/ee Informatio	n 📗 Inpu	t - Existing He	adcount	Input - Nev
Rows: [Headcount & CompensationSummary]		Columns: [Months	-Qtrs]					larketing 🕌
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Salary	49,475	53,500	55,666	57,333	52,867	53,784	53,784	56,284
Merit	167	361	537	630	724	747	747	3,365
Merit %	0.34%	0.67%	0.96%	1.10%	1.37%	1.39%	1.39%	5.98%
Total Salary	49,641	53,860	56,203	57,963	53,591	54,531	54,531	59,649
Commission Earned	0	0	0	0	0	0	0	a
Recoverable Draw	0	0	0	0	0	0	0	a
Minimum Guarantee Draw	0	0	0	0	0	0	0	C
Bonus	6,641	6,641	6,641	6,641	6,641	6,641	6,641	6,939
Equity (Cost Basis)	287	288	289	290	267	267	267	281
Severence	0	0	0	0	0	0	0	a
Total Employee Comp (less Equity)	56,282	60,501	62,843	64,604	60,232	61,171	61,171	66,588
Total Employee Comp (Including Equity)	56,569	60,789	63,133	64,893	60,499	61,439	61,439	66,869
Headcount	16.00	18.75	19.75	20.75	19.75	20.25	20.25	21.25
Headcount Change	0.00	2.75	1.00	1.00	(1.00)	0.50	0.00	1.00
Bonus %	13.38%	12.33%	11.82%	11.46%	12.39%	12.18%	12.18%	11.63%

... providing Best Practices in action.

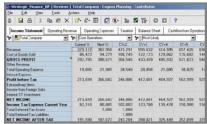




From customers for customers: Blueprints



Blueprint Release









Indeed: ROI in a box



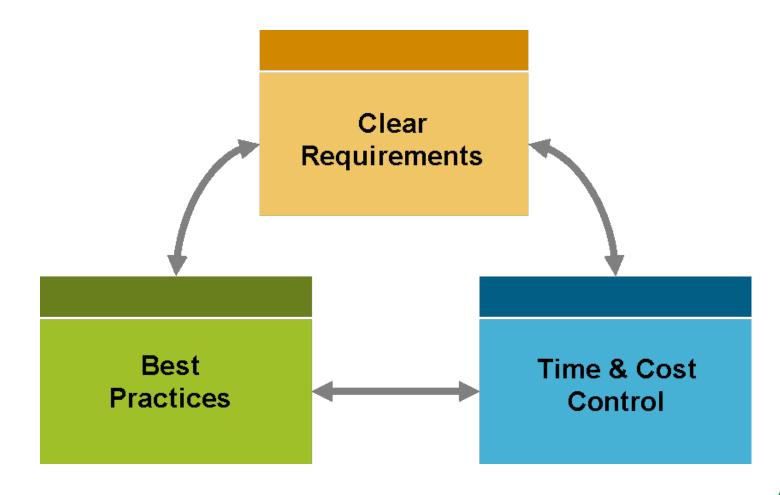








Blueprints provide value to our customers







Offering deep industry functionality

Financial Services

- Branch Performance
- Corporate Banking Customer Segment
- Retail Banking Customer Segment
- Risk Adjusted Profitability
- Relationship Pricing -Commercial Banking
- Insurance Product Profitability

Retail

- Financial Workbench and Scorecard
- Store Development
- Store Operations (P&L)
- Strategic Merchandise
- Strategic Promotion & Marketing

Life Sciences

- Clinical Trials
- Clinical Trial Enrollment
- Clinical Trial Resource Planning
- Sample Optimization
- Sales Quota Allocation
- Integrated Brand Management

Manufacturing

- Sales and Operations Planning
- SOP Workbenches:
 - Baseline
 - Distribution
 - Executive Review
- Trade Promotion Management

Public Sector

- Earned Value Management
- Municipal Performance Management
- Program Objective Memorandum
- Enrollment and Tuition
 Planning for Higher Education
- Salary Planning and Position Control for Higher Education

Other

• Upstream Oil & Gas

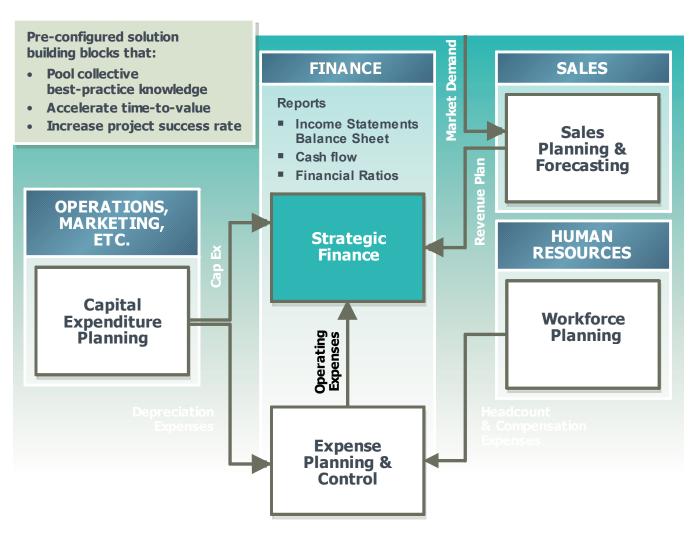








Ubiquitous: The functional Blueprints



FUNCTIONAL SOLUTIONS

- Strategic Finance
- Integrated Financial Statements
- Strategic Long Range Planning
- Risk Analysis
- Sales Planning & Forecasting
- Sales Compensation Planning
- Workforce Planning
- Expense Planning & Control
- Allocations
- Capital Project Planning
- Discretionary Capital Expenditure
- Initiative Planningnos. software



Boosting your IBM Cognos Controller projects

- Management and Financial Reporting Blueprint
- Group Consolidation and Corporate Reporting Blueprint
- Internal Controls Blueprint







A strong value proposition for you!



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Download Blueprint

Upload Configuration

Inspect & Get Inspired

5 minutes

15 minutes

Unlimited



A Few Final Thoughts





Build the business case around four drivers

Efficiency

Process Quality

+

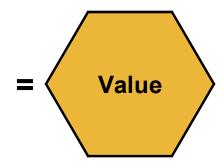
Staff Productivity

Effectiveness

Risk Mitigation

+

Decision Quality



Cognos. software





Process quality

METRICS	ACCEPTABLE	BEST PRACTICE
Plan completion	8 – 12 weeks	< 8 weeks
Forecast completion	< 3 days	< 1 day
Forecast accuracy	+/- 3%	+/- 1%





Staff productivity

METRICS	ACCEPTABLE	BEST PRACTICE
Staff leverage	50%	75%
Manager support	1:5	1:10
Value added	1:1	1 : 1.5





Risk mitigation

METRICS	ACCEPTABLE	BEST PRACTICE
Plan achievement	Within 5% of target range	Within target range
Benefit realization	75%	90%





Decision quality

METRICS	ACCEPTABLE	BEST PRACTICE
Revenue growth	At peer average	#1 or #2
Earnings growth	At peer average	#1 or #2
Manager satisfaction	50% "Top 2 Box"	75% "Top 2 Box"





Rolling forecasts – a silver bullet?

Potential benefits

- Consistent time horizon
- Provides a baseline for future plan periods
- Captures the longer term impact of external and internal changes
- Reduces reliance on a frequently obsolete budget

Potential challenges

- Do not have universal applicability
- No guarantee of improved accuracy over traditional plans and budgets
- Need to match desire for detail with predictive capability
- Potential conflict with annual targeting and incentives





If you like what you saw today

- Connect with our local IBM Cognos team and get started
- Go to our website and become a member:





If you want to discuss the topic further

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#rfcst





