Anticipate and shape business outcomes

Mastering forecasting Practice and principles





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Pierre Guillaume

Pierre has more than 25 years of experience as a management consultant and specializes in cost management, advanced planning and budgeting, and business strategy development. Pierre has been responsible for cost, performance management, planning and budget systems, and strategic information systems implementations for clients in a variety of industries in the North America, Europe, and Asia.

Pierre is the President of Beyond EPS Advisors, a Dallas-based consulting firm associated with the BBRT, which he co-formed after leaving Capital One where he ran the cost budgeting, forecasting and planning function. Prior to Capital One, Pierre was the North-East Region Strategic Cost and Performance Management Practice leader with Arthur Andersen.

Pierre 's work in the field of performance management has been documented and recognized by a number of Harvard Business School case studies. Pierre is a frequent speaker on advanced costing, planning and business strategy. He has also taught accounting and financial management at the Université de Paris and business strategy at the Centre de Perfectionnement aux Affaires in Paris.







STEVE MORLIDGE & STEVE PLAYER



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"It's awful. Why did no one see it coming?"



Queen Elizabeth II London School of Economics Bonfire Night 2008





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UK profit warnings

Number of profit warnings issued by UK quoted companies, Q1 2003 - Q3 2010



Average market cap

FTSE 100	£10.0B
All quoted (1400)	£1.2B

Impact of warning: 10% to 20%





Source: Ernst & Young 2010

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	RANK				RANK	
	(previous	i quarter)			(previous	(quarter)
	TOPE				OPE	
	1(1) 2(3)	Financial/ banking system		-	1 (2) 2 (2)	Working-capital management
	3 (2)	Credit market/ interest rates		-	3 (3)	Maintaining morale during downturn
	4(4)	Currency volatility			4 (6)	Counterparty risk
	5 (7)	Housing market fallout		-	S (S)	Balance sheet weakness
j.	6 (NR)	Government policy			6 (7)	Supply chain risk
ł	7(6)	Foreign competition		w.	7 (4)	Attracting/retaining
ł	8 (NR)	Stability of local and central government		-	8 (8)	qualified employees Managing IT systems
-	9 (9)	Financial regulation		Ŧ	9 (10)	Intellectual property protection
	20 (10)	agreements		+	10 (NR)	Data security
1	ITED ST	ATES		UN	ITED ST/	ATES
	103	Consumer demand		-	1(1)	Ability to forecast results
	2 (2)	Credit markets/ interest rates		*	Z (NR)	Working capital management
	3 (4)	New administration and Congress		*	3 (2)	Maintaining morale during downturn
	4 (3)	Housing market fallout		Ŧ	4 (3)	Balance sheet weakness
	5 (5)	Financial regulation		×.	5 (4)	Cost of health care
	6 (6)	Currency volatility		Ŧ	6 (5)	Attracting/retaining
-	7 (7)	Cost of non-fuel commodities		Ŧ	7 (6)	Supply chain risk
	8 (8)	Cost of fuel		×.	8(7)	Managing IT systems
į.	9 (NR)	Trade policies and		Ŧ	9 (8)	Pension obligations
	10 (9)	agreements Foreign competition		۳	10 (9)	Intellectual property protection
1	A*			ASI	A	Ability to famously the
•	1(1)	Consumer demand		-	1(1)	Ability to forecast results
	2 (3)	Credit markets/ interest rates		*	2 (NR)	Working capital management
	3 (2)	Currency volatility			3 (3)	Maintaining morale
	4 (7)	Foreign competition		-		during downtum
•	5 (NR)	Rise of protectionism in the West		Ŧ	4(2) 5(6)	Balance sheet weakness
	6(6)	Cost of fuel		×.	6(4)	Attracting/retaining
	7 (5-)	Cost of non-fuel commodities		Ŧ	7 (5)	qualified employees Supply chain risk
	8 (NR)	Housing market fallout		Ŧ	8(7)	Managing IT systems
	9(8)	Financial regulation			9 (9)	Intellectual property
	10 (9)	Trade policies and			- (-)	protection
	10 (3)	ndreaments and		Ŧ	10 (8)	Data security

SOURCE: BUSINESS OUTLOOK SURVEY BY CFO EUROPE, TILBURG UNIVERSITY AND DUKE UNIVERSITY

What are CFOs worried about?





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Another misconception:

"It's just common sense."





"It's highly specialized."







IBM Finance Forum 2011 Anticipate and shape business outcomes

Is it safe to cross the Road?



Speed of cars **PLUS ASSUMPTIONS:** •Change in speed •Speed of crossing road •Hidden hazards Intentions of driver •Eyesight of driver Road conditions Road features •Our margin of error ..all continuously validated





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Mastering forecasting

- 1. Mastering purpose
- 2. Mastering time
- 3. Mastering models
- 4. Mastering measurement
- 5. Mastering risk
- 6. Mastering process











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Key concepts:

A target is what we would *like* to happen, *which we achieve by producing:*A forecast is what we think *will* happen *based on:*A set of plans: what we *intend* to do, *which we change to achieve our target.*





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Key concepts:

A target is what we would *like* to happen, which we achieve by producing: A forecast is what we think *will* happen based on: A set of **plans**: what we **intend** to do,

which we change to achieve our target.

Specification for a forecast:

- $\mathbf{T} = timely$
- **A** = actionable
- $\mathbf{R} = reliable$
- **A** = aligned
- **C** = cost-effective







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The frequency at which we forecast is driven by the rate of change in key variables.









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The frequency at which we forecast is driven by the rate of change in key variables.

	Economic relevance	Variability	Speed of response	Update frequency	Forecast horizon	
Revenues	High	High	High	Daily	Quarter	
Labor costs	High	Low	Medium	Twice monthly	Six months	
Fuel costs	High	High	Medium	Weekly	Quarter	
Maintenance spending	Medium	Medium	Medium	Twice monthly	Six months	
Advertising spending	Medium	Medium	High	Monthly	Six months	
Aircraft ownership costs	Medium	Low	Low	Quarterly	Year	
Airport rates and charges	Medium	Medium	Low	Weekly	Six months	
Other operating	Medium	Medium	Medium	Twice monthly	Quarter] (







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Every forecast is based on a model, and different approaches have different strengths and weaknesses.

Three types of model















Bias

(hook)

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eliable

Forecasts are reliable if they are **unbiased** and have an acceptable level of **variation**.

Variation





Bias

(slice)



+/- 5%



<14%



variation?



Average gross error

(variation)



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Perilia Malazza

Forecash

Innevation Plant ĒΜ

Actuals

te concile with

Supply

Ra

Up-date Fin annials

C ost-effective

An effective forecast process is also an efficient forecast process.



Build Rance

Forecast

Review Olubut

M

Cales Consumb-

Adlen

Available:

Funde

M

4. Make adjustments, improve the process.





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What is next?

- First steps
 - Engage all levels
 - Measure forecast quality
- Next steps
 - Design your new forecast process
 - Implement, automate, integrate
 - Educate
 - Measure
 - Learn and improve







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