

# FINANCIAL RESULTS CONTROL SYSTEMS

Teemu Malmi Performance Management

- Financial responsibility centers
- Financial indicators for measuring performance
- What is EVA and why has it been argued to be superior to ROCE?
- What are the implications of Value Based Management to management system design?
- Purposes of budgets
- Problems with traditional annual budgeting
- Beyond Budgeting
- Rolling Forecasting



#### **METHODS FOR FINANCIAL CONTROL?**

- How can you control costs in an organization? Give few examples!
- Financial control does not mean only control of costs, but also revenues and profitability!
- If you control revenue and cost, do you "by definition" control also profitability?
- What are the advantages of financial results control systems?



### TYPES OF FINANCIAL RESPONSIBILITY CENTERS

- Investment centers
- Profit centers
- Revenue centers
- Cost centers
- In practice, these can mean different things in different firms, e.g. profitability of a profit center can be measured in many different ways



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#### **MEASURING PROFITABILITY**

- Profit
  - Gross Profit
  - EBITDA
  - EBIT / Operating Profit
  - Net Profit
- Return on investment based measures
  - ROI, ROIC, ROCE, RONA, ROE, CROI, RORAC, RoEC, etc.
- Residual income based measures
  - RI, EVA, EP, etc.
- Cash Flow



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# IN ECONOMIC VALUE ADDED (EVA) COST OF CAPITAL IS DEDUCTED FROM PROFIT

- EVA is net operating profit after taxes minus a charge for the opportunity cost of the capital invested
- EVA = NOPAT ((TOTAL ASSETS NON INTEREST BEARING LIABILITIES) x WACC)
- EVA is an estimate of the amount by which earnings exceed or fall short of the required minimum rate of return for shareholders or lenders at comparable risk.



#### **ECONOMIC VALUE ADDED**

EVA = Economic Profit = Residual Income (RI)

EVA = PROFIT - CAPITAL CHARGE

EVA = NOPAT – ((TOTAL ASSETS – NON INTEREST BEARING LIABILITIES) x WACC)

EVA = (ROI – REQUIRED RATE OF RETURN) x INVESTED CAPITAL

NOPAT = NET OPERATING PROFIT AFTER TAX = OPERATING PROFIT or EBIT x (1 - Tax Rate)

NOPAT evaluates profitability as if no leverage is used

#### **QUIZ**

•	Revenue / Turnover	10.000.000
•	Cost of goods sold	6.000.000
•	Other operating expenses	2.000.000
•	Depreciation and Amortization	1.000.000
•	EBIT / Operating Profit	1.000.000
•	Financial expenses	500.000
•	Taxes (20%)	100.000
•	Net Income	400.000

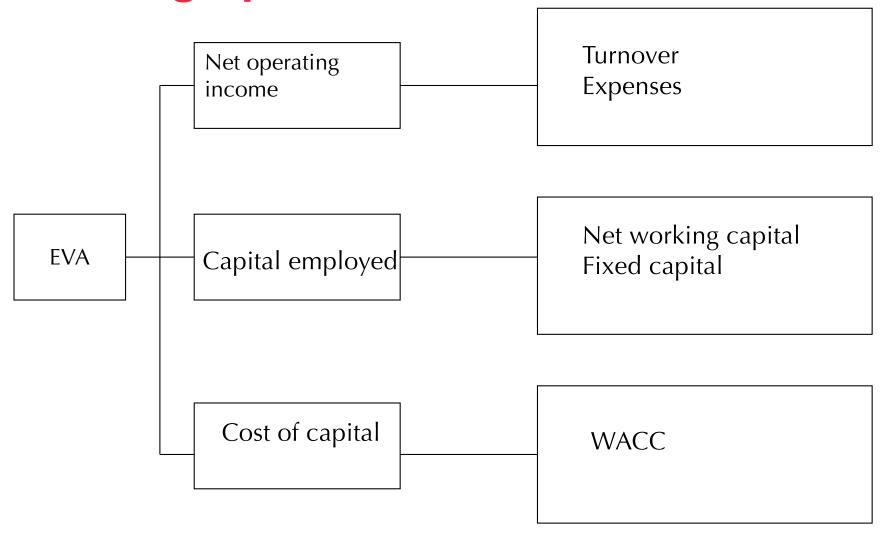


#### QUIZ

- Capital employed by the unit is 10.000.000
- WACC 10%
- What is ROCE and EVA for the unit?
- Is the unit profitable and how would you rate it's profitability?



#### **EVA** in graph





#### **EVA**

- Combines shareholders interest to the control systems
- Adds required rate of return into the calculations, i.e. accounts for risk
- Absolut measure, which is compared with the budget/target.
- Budget/target is defined based on the required rate of return
- Creates correct incentives for SBU managers to invest

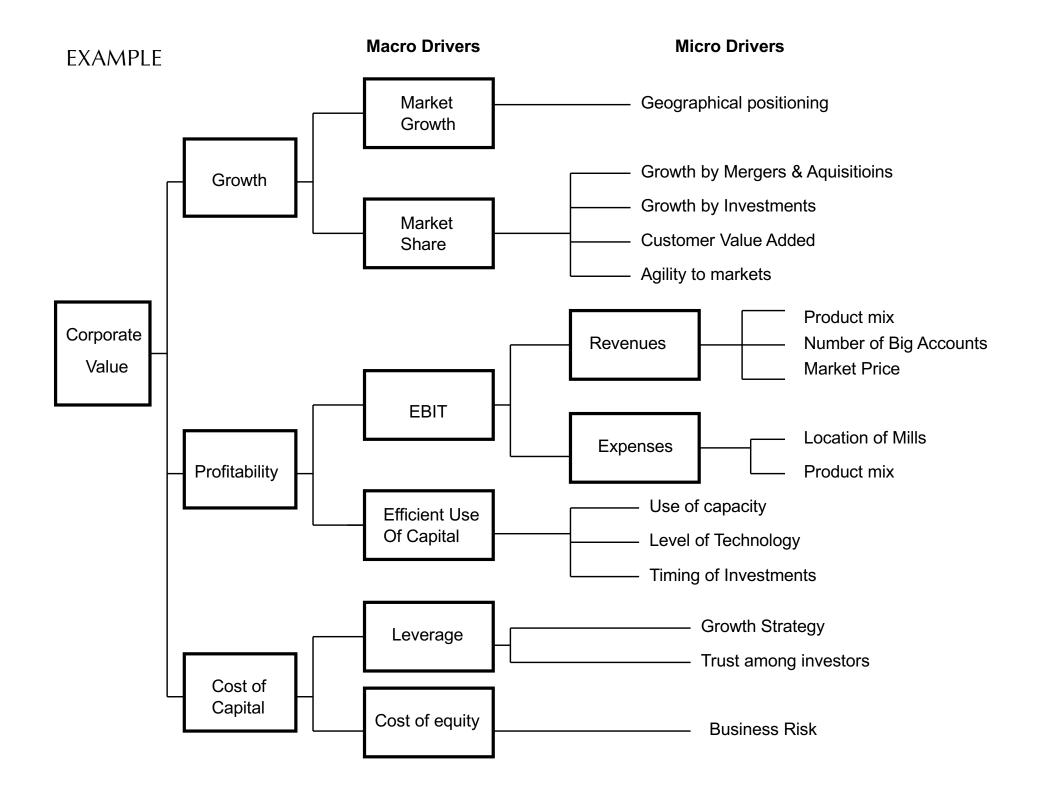
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### VALUE BASED MANAGEMENT (VBM) - BASIC FRAMEWORK

- Choose internal objectives that lead to shareholder value enhancement
- Select strategies and organizational designs that are consistent with objectives
- Identify Value Drivers
- Develop action plans, select performance measures, and set targets
- Evaluate and reward performance
- Assess the ongoing validity of above and modify as required





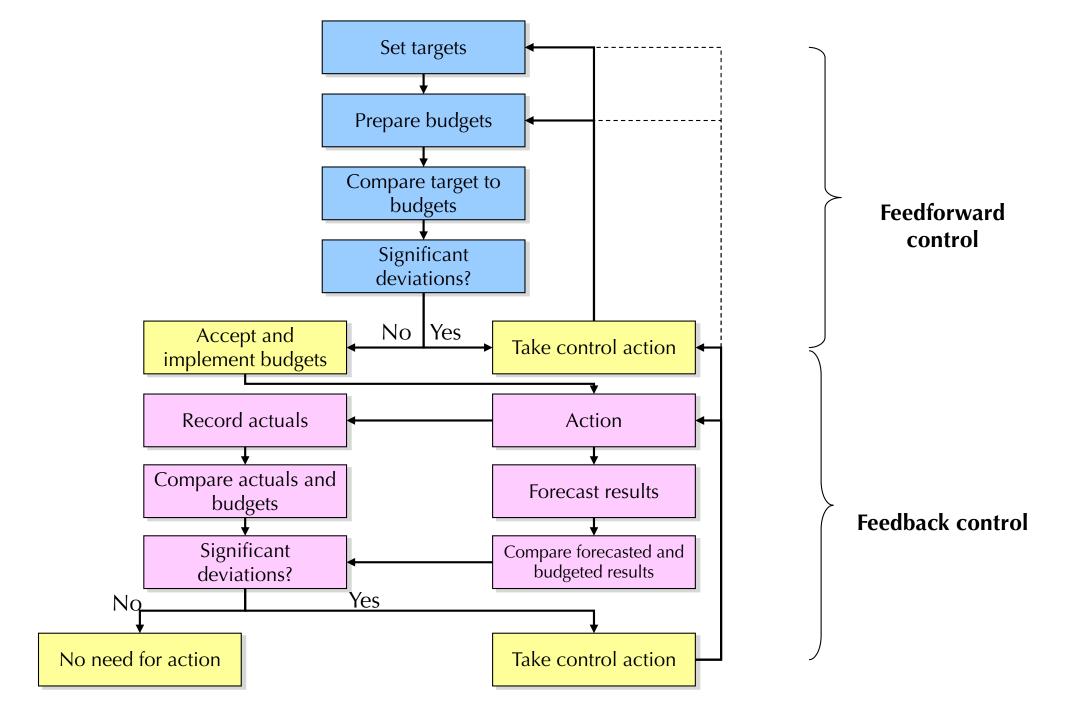
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# FOR WHAT PURPOSES ORGANIZATIONS DO BUDGETS FOR?



#### **Budgetary control**



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#### Budgets cause wrong behavior



#### **How to win the budget game**

- Negotiate lowest targets/highest rewards
- Always make the bonus, whatever it takes
- Never put customers above sales targets
- Never share knowledge and resources
- Always ask for more than you need
- Always spend what's in the budget
- Always explain away adverse variances
- Never provide accurate forecasts
- Always meet, never beat the numbers
- Never take risks



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### **BB:Leadership vision**

<b>Predictive &amp; Centralised</b>	Adaptive & Devolved			
1. Climate				
Performance contracts	Competitive success			
2. Motivation				
Plans & incentives	Responsibility for outcomes			
3. Devolution				
Constrained to plan	Freedom to decide			
4. Empowerment				
Bureaucratic 'red tape'	Capability to act			
5. Organisation				
Centralised hierarchy	Customer focused teams			
6. Information				
Closed & controlled	Open & "one truth"			
Aalto University				

#### **BB:Finance vision**

Aalto University School of Economics

#### **Adaptive & Devolved Predictive & Centralised** 1. Targets Setting relative measures Negotiating fixed targets 2. Rewards Recognising team-based success Paying individual incentives 3. Strategy Centrally driven, annual event Devolved, inclusive & continuous 4. Resources Allocated annually thru budgets Free access with accountability 5. Coordination Dynamic market-like processes Predetermined by central plans 6. Control Top-down thru variances to plan Multi level, fast and open

#### Tools in use

#### **Borealis** - Europe's 2nd largest petrochemical company.

#### Financial planning

Qtrly rolling forecasts, not linked with "performance management"

#### Target setting

Balanced scorecard to set targets and measure performance

#### Budget

#### Controlling fixed costs

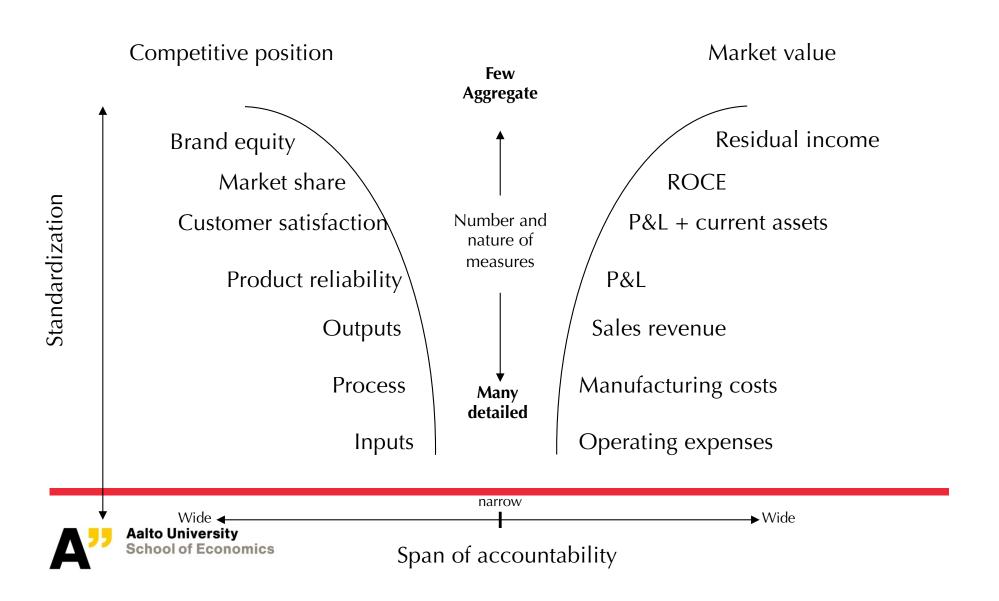
Trends, activity accounting, ABC and SAP

#### Resource allocation

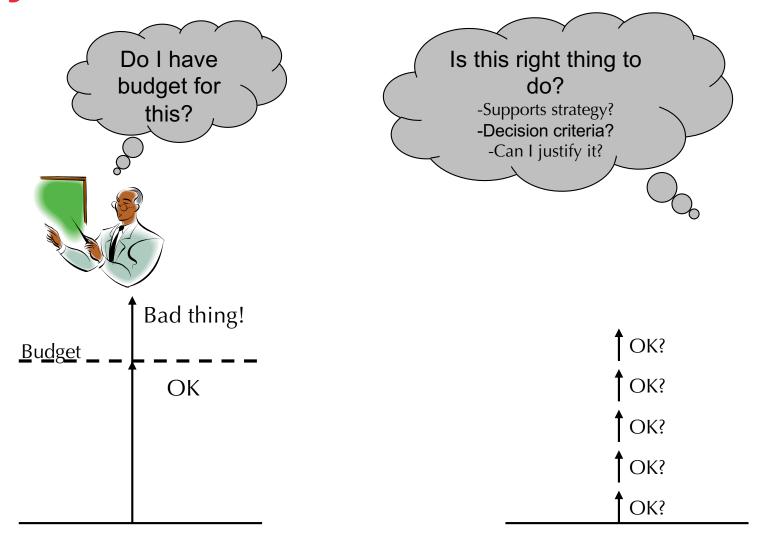
Trends (s), Hurdle rates (m), Case by case (l)



#### **Performance measures**



#### **Dynamic resource allocation**



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#### **ROLLING FORECASTING**

- Why do companies need rolling forecasts?
- How to forecast?

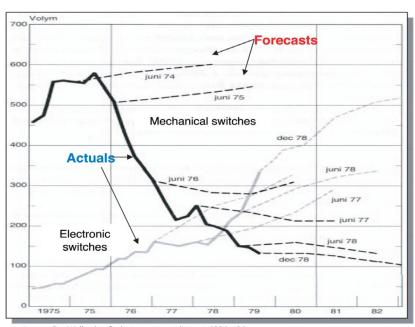
#### Why to forecast?

- Investor relations
- Measurement
- Management



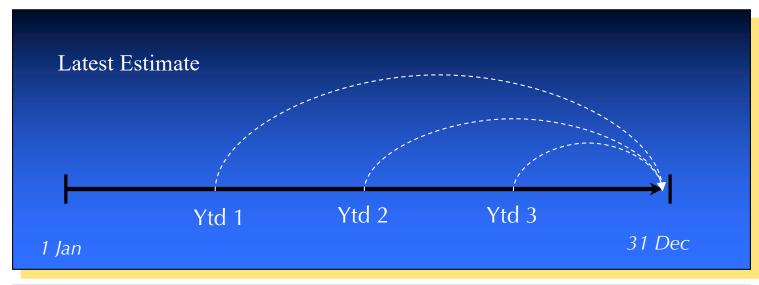
*Is the purpose to:* 

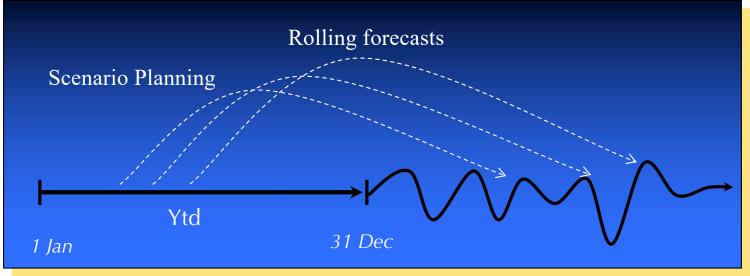
- a) get accurate view of the future?
- b) make better decisions?



Source: Jan Wallander, Budgeten - ett onödigt ont, 1994, p24

#### Traditional vs. rolling forecasting





#### Forecast period

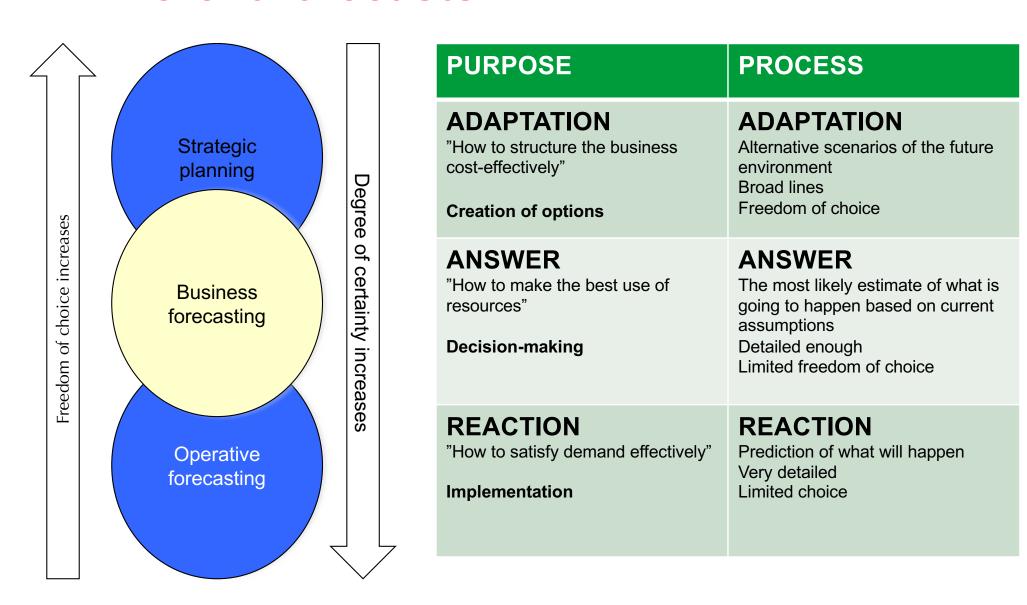
### How long into the future to forecast?

- Lead time between decision and the impact (reaction time)
- What is the longest reaction time in the business?
- Reaction time varies between industries and within a company
- Calendar year (fiscal year) is hardly the best period...?

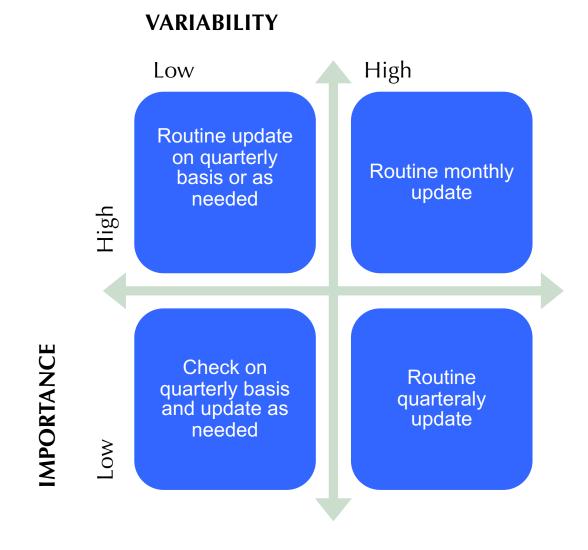
### How often the forecasts should be updated?

- How often revenues / costs change?
- How often environment changes?
- How often key assumptions change?
- Is it reasonable to forecast everything in the same cycle?

#### **Different forecasts**



#### How often and what to forecast?



## Forecasting frequency – South West Airlines

	Economic significance	Variability	Importance of rapid response	Update frequency	Forecasting horizon
Revenue	High	High	High	Daily	Month
Labor	High	Low	Medium	Twice a month	6 months
Petrol	High	High	Medium	Weekly	Quarter
Maintenance	Medium	Medium	Medium	Twice a month	6 months
Marketing	Medium	Medium	High	Monthly	6 months
Depreciation	Medium	Low	Low	Qaurterly	Year
Airport fees	Medium	Medium	Low	Weekly	6 months
Other	Medium	Medium	Medium	Twice a month	Quarter



#### **Summary**

- What to forecast?
  - Fundamental business drivers
  - Variability + significance → keep it simple!
- When to forecast?
  - Issues change in different cycles → horizons and frequencies
  - All costs are ultimately variable if the horizon is long enough
- Who do the forecast?
  - Inputs from responsible managers
  - Modelling and updating by F&C



## SUMMARY – WHAT DID YOU LEARN FROM THESE TOPICS?

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