Performance Management Systems

(PMS)

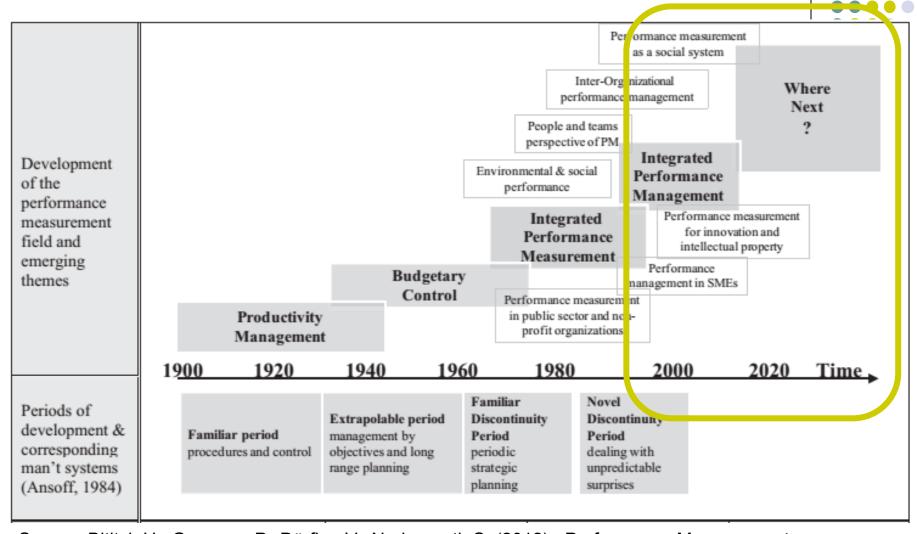


The term "performance"

- performance levels:
 - performance of individuals
 - enterprise performance (incl. enterprise divisions)
 - supply chain performance
- definition:
 - in a broader sense
 - = achievement of predetermined objectives of an enterprise (e.g measured by satisfaction of each stakeholder group)
 - in a narrower sense
 - = financially measured appreciation of capital (e.g. measured by ROE, ROA,...)



Trends in Performance Management



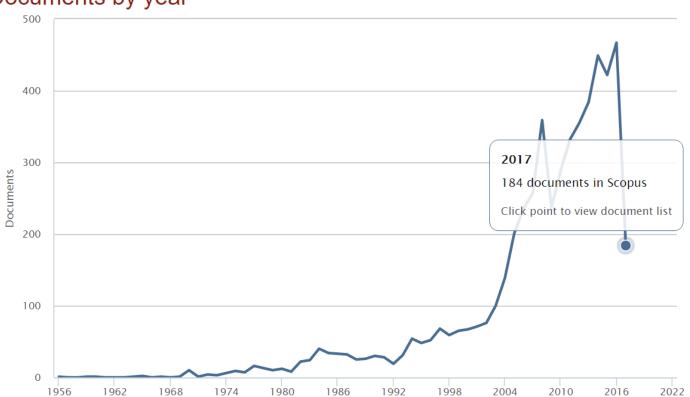
Source: Bititci, U., Garengo, P., Dörfler, V., Nudurupati, S. (2012): Performance Measurement: Challenges for Tomorrow. International Journal of Management Reviews, vol. 14, issue 3, s. 305-327, p. 312

"Management Control System" (MCS) becomes popular term

next to "Performance Management Systems"

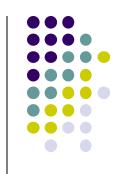
- TOPIC: ("Management control system") OR TOPIC: (MCS)
 - TITLE-ABS-KEY ("Management Control System" OR "MCS") AND (LIMIT-TO (SUBJAREA, "ENGI") OR LIMIT-TO (SUBJAREA, "BUSI") OR LIMIT-TO (SUBJAREA, "ECON")

Documents by year





What is Management Control system (MCS)?



"Management control refers to a set of processes and mechanisms used by managers to influence the behaviour of individuals and groups towards more or less predetermined objectives."

(D.S. Bedford, T. Malmi in Management Accounting Research 27 (2015) 2–26)

Performance Management



Performance Measurement



Management control system

Performance
Management
(and
Control)
Systems

= PMS

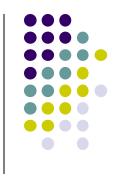
Different types of controls applied in organizations



Merchant and Van der Stede (2007):

- 1. Action (or behavioural) controls
- Personnel and cultural (or clan and social) controls
- 3. Results (or output) controls

Different types of controls



Merchant and Van der Stede (2007):

- 1. Action (or behavioural) controls
 - Consist of:
 - Behavioural constraints (e.g. PC password; limits,...)
 - Preaction reviews (scrutiny and approval of action plans before employee can undertake a course of action)
 - Action accountability (e.g. work rules; codes of conduct)
- Personnel and cultural (or clan and social) controls
- 3. Results (or output) controls

Different types of controls

Merchant and Van der Stede (2007):

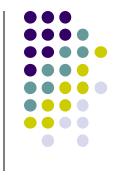
- 1. Action (or behavioural) controls
- Personnel and cultural (or clan and social) controls
 - Personnel controls build on employees natural tendencies to control themselves (emphasis is on selection, training and job design).
 - Cultural controls represent a set of values, social norms and beliefs that are shared by members of an organization and that influence their actions.
- 3. Results (or output) controls

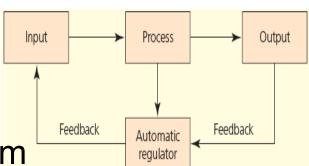


Different types of controls

Merchant and Van der Stede (2007):

- 1. Action (or behavioural) controls
- Personnel and cultural (or clan and social) controls
- 3. Results (or output) controls
 - resemble cybernetic* control system
 - focus is on reporting <u>information</u> <u>about the outcomes</u> of work effort
 - stages:
 - Establishing performance measures
 - Establishing performance targets
 - 3. Measuring performance
 - 4. Providing rewards or punishments





*cybernetics = the field of science concerned with processes of communication and control (especially the comparison of these processes in biological and artificial systems

Advantages and disadvantages of different types of controls



Action (or behavioural) controls

- Direct link between control mechanism and the action.
- Measurement problems do not apply.
- Not feasible where cause-and-effect relationships are not well understood or easily observable.
- Best suited to stable conditions.

Personnel and cultural (or clan and social) controls

- Few harmful side-effects and inexpensive to operate
- Appropriate only in certain circumstances

Results (or output) controls

- Can be applied where knowledge of desirable actions is lacking.
- Space for creativity of employees, because focus is on outcomes

Management <u>accounting</u> control systems (MACS)



- Tend to be the predominant controls in most organizations because:
 - Monetary measure provides a means of aggregating results from dissimilar activities.
 - Profitability and liquidity are essential for company survival and success.
 - Financial measures enable common decision rules to be applied.
 - 4. Measuring results in financial terms enables managers to be given more autonomy.

Management <u>accounting</u> control systems (MACS)



- Two core elements:
 - Formal planning processes for establishing performance expectations.
 - e.g. budgeting, long-term planning, standard costs

2. Responsibility accounting

- Cost or expense centres
 - standard cost centres (output can be measured)
 - discretionary cost centres (output cannot be measured)
- Revenue centres
- Profit centres
- Investment centres

Management <u>accounting</u> control systems (MACS)



- MACS process involves:
 - 1. Setting performance targets.
 - Measuring performance.
 - Comparing performance against target.
 - Analysing variances and taking remedial actions.

compare with the same idea behind standard costing method

 Responsibility accounting is implemented by issuing performance reports about variances between budgeted (planned) and actual performance.

MACS

Typical reporting structure

	Budget		Variance F(A)		
	Current	Year to	This	Year to	
	month	date	month	date	
	£	£	£	£	
→ Factory A	453 900	6 386 640	(80 000)	(98 000)	
Factory B	X	X	X	X	
Factory C	X	X	X	X	
Administration costs	X	X	X	X	
Selling costs	X	X	X	X	
Distribution costs	X	X	X	X	
4	2 500 000	30 000 000	(400 000)	(600 000)	
Performance report to produ Works manager's office	ction manag X	ger of factory A X	X	X	
→ Machining department 1	165 600	717 600	(32 760)	(89 180)	
Machining department 2	X	X X	(02 / 00) X	(03 100) X	
Assembly department	X	X	X	X	
Finishing department	X	X	X	X	
	453 900	6 386 640	(80 000)	(98 000)	
Performance report to head	,				
Direct materials	X	X	X	X	
Direct labour	X	X	X	X	
Indirect labour	X	X	X	X	
Indirect materials	X	X	X	X	
Power	X	X	X	X	
Maintenance	X	X	X	X	
Idle time	X	X	X	X	
Other	X	X	X	X	
	165 600	717 600	(32760)	(89 180)	

Strategic control

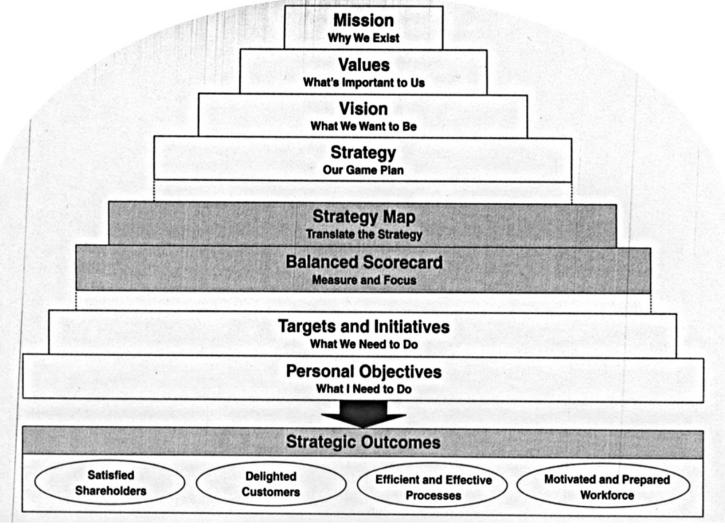
- Responsibility Accounting as typical MACS focuses on tactical and day-to-day horizons
- strategic control requires nonfinancial measurement of performance as well
 - Strategy Maps and BSC



Strategy map and Balanced Scorecard (BSC)



Kaplan, Norton (2004)



	SER CHARLESTON PROTOCOLS CONTRACTOR		Annual Carrier Language		
Strategy Map		Balanced Scorecard		Action Plan	
Process: Operations Management Theme: Ground Turnaround	Objectives	Measurement	Target	Initiative	Budget
Profits and RONA Fewer planes	 Profitability Grow revenues Fewer planes 	Market value Seat revenue Plane lease cost	■ 30% CAGR ■ 20% CAGR ■ 5% CAGR		
Customer Attract and retain more customers On-time service prices	 Attract and retain more customers Flight is on time Lowest prices 	 # repeat customers # customers FAA on-time arrival rating Customer ranking 	 70% Increase 12% annually #1 #1 	 Implement CRM system Quality management Customer loyalty program 	\$XXX\$XXX\$XXX
Internal Perspective Fast ground turnaround	■ Fast ground turnaround	On-ground timeOn-time departure	■ 30 minutes ■ 90%	 Cycle-time optimization 	• \$XXX
Learning and Growth Perspective Strategic job Ramp agent Strategic systems Crew scheduling Ground crew alignment	 Develop the necessary skills Develop the support system Ground crew aligned with strategy 	 Strategic job readiness Info system availability Strategic awareness % ground crew stockholders 	■ Yr. 1–70% Yr. 3–90% Yr. 5–100% ■ 100% ■ 100%	 Ground crew training Crew scheduling system rollout Communications program Employee Stock Ownership Plan 	\$XXX\$XXX\$XXX\$XXX
				Total Budget	\$XXXX

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