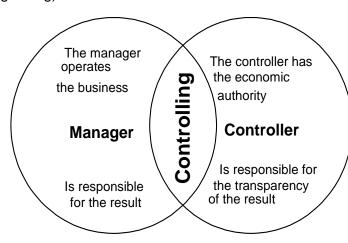
#### **Examples from the Dictionary for Controllers, 3rd ed.**

## **Controlling**

Controlling takes place when manager and controller cooperate. Controlling is the whole process of defining objectives, of planning and controlling (in the sense of steering and regulating) and includes all relevant financial and commercial aspects. Controlling involves



such activities as taking decisions, defining actions or procedures determining alternatives, directing individuals and their activities and guidelines. settina Consequently managers must practise controlling, since it is their responsibility to define company's objectives and to specify the necessary targets as part of the planning process. Likewise, they are responsible for the achieved results. Controlling is therefore understood as management activity and should

be undertaken in every business, however small. For the same reason controlling should not be thought of as being exclusively the professional controller's job.

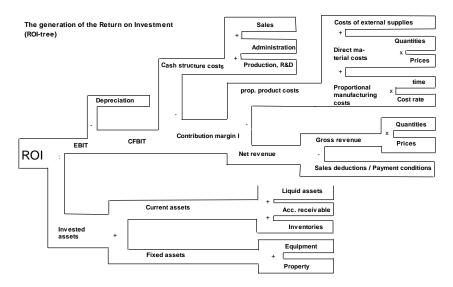
Management that practises proper controlling is focussed on *objectives* and planning, is forward-looking, adaptable and decentralised. It only makes sense to install controller services in those businesses whose managements believe in and practice controlling.

Operative controlling includes those management activities that cover setting objectives, planning and controlling in the mid-term and single year time frame. The main objectives are liquidity, profits and financial stability.

Strategic controlling includes those management activities that comprise the planning, testing, implementation and monitoring of strategies. The time span is determined by the period considered relevant for the strategy's development. Typical objectives here could be: existing and future potentials for success, market shares as well as (free) cash flow.

#### Ratio systems

Ratio systems are (mathematically or logically connected) combinations of ratios (absolute or relative figures with special significance). Ratios are derived from planned values or actual data and serve as a measurement to show the cause and effect of changes in operations. Under the entry "objective" we have a *ratio system structure*, which can be used to compare budgeted and actual figures. It is an extension of DuPont de Nemour's well-known ROI scheme.



The *ROI*-tree (see diagram) shows the *return on investment* (more precisely: *return on operating assets*) and the factors that influence it in an inter-linked pattern of accounting. The upper half of the diagram shows how the *EBIT* (earnings before interest and taxes) is calculated and is built up as contribution accounting, while the lower half illustrates the structure of  $\Rightarrow$  *operating assets*.

⇒ROI ⇒ROCE

## **Costs/Cost accounting**

can be produced at all.

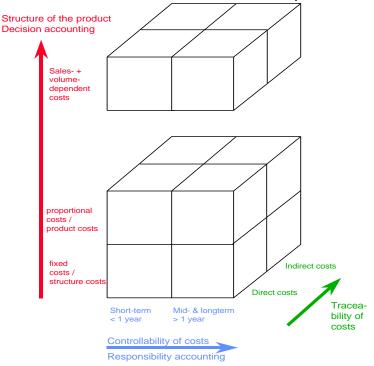
Costs are the value-based consumption of goods and services for the production of output. The valuation standards depend on the requirements of the management (decision accounting and  $\Rightarrow$ responsibility accounting).

If we want to analyse the management's responsibility for costs and revenues and prepare the necessary information for taking cost-related decisions, we first must present the different cost aspects in the clearest possible way, showing how they are inter-linked, and second make consistent use of clearly defined concepts. The cost cube is not a new theory but rather a model for explaining cost behaviour, which has proven itself very useful in practice. It presents the cost aspects in three dimensions:

- ⇒Product costs / structure costs (vertical axis of the cube).
  For the purposes of decision accounting it is important to differentiate between costs caused by the nature of the products on one hand and costs caused by the structure of the business on the other hand. Product costs (proportional costs) are the direct and causal consequence of producing a product-item or a service.
  In contrast structure costs are defined by a business's capacity and organisational structure. These are costs, in other words, that are not directly dependent on output but are determined by decisions over the business's capability to produce goods and services. These ⇒structure costs express the necessary effort to ensure that goods and services
- ⇒Controllability in the short or middle term (horizontal axis of the cube)
  "Who has the competence to influence costs as they arise and in what time-frame can the costs be changed?" These are the questions asked by Responsibility Accounting. This dimension shows, which cost amounts can be altered in what time-frame. There are product costs, which can change within the time span of a month, when, for example, another materials supplier or another employee have to be sought. But there are also

product costs, which are only alterable in the middle or long term, because e.g. they are determined by the production process, or by periods of notice for the personnel employed. On the other hand, one also finds immediately controllable structure costs like, for instance, advertising costs for product promotion, which can be reduced at short notice.

⇒Direct and ⇒indirect costs (third dimension in the cube):
 Whether it is a matter of direct or indirect costs depends on the object in question. The



salary of the employee the accounts receivable department (structure costs. controllable in the middle term) belongs to the direct costs of the accounting cost center, but to the indirect overhead costs of products. Material costs for highly refined parts (product costs. controllable in the long term, because only one supplier is available) are direct costs of the manufactured product. Tool costs for a specific customer order are direct costs of that order.

The same three-dimensional way of thinking applies to the costs dependent on *revenue*. Commissions, deductions from revenue, freight charges, those parts of the distribution costs dependent on orders etc. – All these costs are no longer depend on the volume produced but on sales-mix, sales volume and revenue, which means they need to be represented by a detached cube (see diagram above).

## Multidimensional contribution accounting

Since the market is usually approached through different channels and, additionally not only the products dimension is essential for strategic planning, there is now an increasing need for a multidimensional presentation of a company's  $\Rightarrow$ contribution margins. It is therefore necessary to be able to create multiple contribution accounts based on a business's work practices, procedures and philosophies. These accounts should be structured according to the relevant business dimensions such as *sales areas*, regions, distribution channels, fields of application, customers' needs or *strategic business units* (SBU's).

Such multidimensional contribution accounts are devised according to the principle that only those structure costs are deducted in steps from the CM I, which are unequivocally assignable (by voucher) to the object in question. So we have clear contribution targets, for which managers are responsible, per sales area,  $\Rightarrow$ profit center, distribution channel,  $\Rightarrow$ strategic *business* unit, etc. Below is an example of a multidimensional contribution account based on distribution channels

				Distribution channel Retailers					
				product	4-ring-	2-ring-	trading	total	
				group	binders	Binders	goods		
				sales volume	2'000	10'000			
				planned	5	4			
				prices					
				Discounts	-20%		50%		
				net revenues	8'000	32'000	7'500		47'500
				prop. Costs	3'914	13'980	5'666		23'540
				CM I	4'086	18'040	1'834		23'960
		_		structure costs of the channel retailers					1'500
				CM of the sales channel					22'460
	Distribution channel Wholesalers								
			net revenues	17'000	36'267		53'267		
			prop. Costs	7'828	14'891		22'719		
			CM I	9'172	21'376		30'548		
			structure costs	of the channel	wholesalers		1'200		
			CM of the sales	s channel			29'348		
	Distribution channel Direct sales							4	
		net revenues	20'000	61'333	7'500	88'833			
		prop. Costs	7'828	21'405	2'834	32'067			
		CM I	12'172	39'928	4'666	56'766			
		structure costs	s of the channel	direct sales		1'900			
		CM of the cha	channel 54'8						
	Distribution	stribution channel Export							
	net revenues	9'000	14'400		23'400				
	prop. costs	3'914	5'584		9'498				
	CM I	5'086	8'816		13'902				
	structure costs of the channel Export 800								
	CM of the channel				13'102				
Total all cha	annels					Ц			
sales volume	12'000	40'000							
planned	5	4							
prices									
discounts	10%	10%	40%						
Net revenues	54'000	144'000	15'000	213'000					
prop. costs	23'484	55'840	8'500	87'824					
CM I	30'516	88'160	6'500	125'176					
structure costs of all sales channels				5'400					
CM of all sales channels				119'776					

# Planning and planning framework

*Planning* is the intellectual anticipation of possible future situations, the selection of desirable situations to be achieved (objectives) and the determination of relevant actions that need to be taken to reach those objectives. So the business has constantly to adjust to internal and external changes, requiring decisions to be taken with an eye to future effects.

As a  $\Rightarrow$ controller, one has to rely on an inter-linked and in itself consistent planning framework. And here the following *planning levels* have proved their worth in practice:

Planning level	Main question	<b>Decision contents</b>	Plan elements					
Corporate policy	Who do we want to	Set up main objectives and	Vision, mission					
	be?	constraints	statement,					
			corporate					
			concepts					
Strategic Planning	Where do we want	Find and select potentials	Strategic Plans					
	to go?	for success						
<b>Operative Planning</b>	How do we reach	Exploit existing potentials	Mid-term					
	our objectives?	for success or build up the	planning					
		new ones	Annual planning					
Disposition	How do we react	Take corrective actions to	Forecasting					
	to turbulences?	stay on course						
Implementation								

#### The planning framework

Operative planning consists of *mid-term planning*, acting as a hinge, which links long-term strategy and *annual planning*. Operative planning arises from strategic planning and should demonstrate in budgeted values how the objectives have been apportioned and how they are to be achieved. *Annual planning* also serves as a basis for the comparison of budgeted and actual figures.

Operative planning should ensure that ideas are transformed into reality. It facilitates the effective and well-targeted use of existing  $\Rightarrow$  potentials for success and the development of the new potentials selected in the strategy.

Strategic planning gives meaning to the operative planning and motivation to the people working with it.

Good planning quality is obtained, when the procedure is twofold: top down and bottom up. Top management develops the cornerstones of the plan and explains them to the lower levels (*top down-planning*). The detailed values are then fixed at the bottom and aggregated to the top (*bottom up-planning*).

Rolling budgets are the combination of annual planning and mid-term planning. Both plans are built with the same structures and with the same procedures, but mid-term planning should go less into details.

⇒corporate policy ⇒mission statement ⇒strategy ⇒objectives