



THE COST ASSIGNMENT PROCESS

Similarities and differences between “cost tracing” and “cost allocation”



COST COLLECTION SYSTEMS

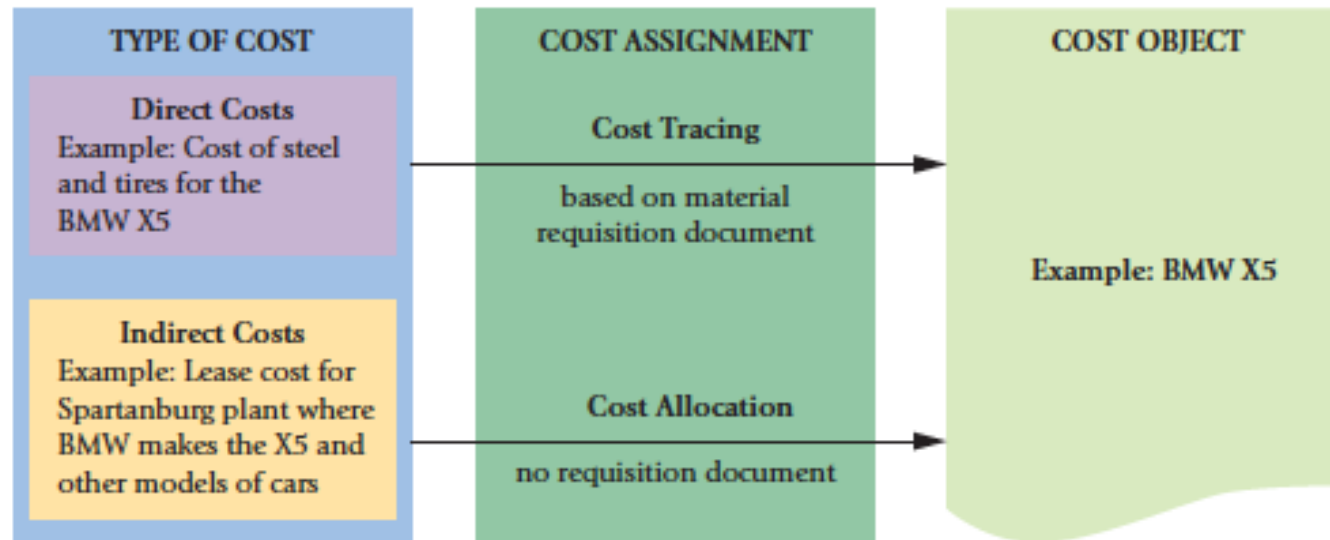
Cost accumulation is the collection of cost data in some organized way by means of an accounting system.

Cost collection systems typically accounts for costs in two broad stages:

1. they initially **accumulates** costs classifying them **“by nature”**: that is to say into categories that remind us the **type of resources purchased or consumed** (e.g., raw materials, depreciation, transports costs, rent expenses, wages and salaries, etc.). Later this criterion is combined with other two that focus their attention on **cost behavior** (fixed and variable costs) or on the **robustness of the** relation that link a cost to a specific cost objects (direct and indirect costs) .
2. They then **assign** these costs to cost objects.



COST ASSIGNMENT TO A COST OBJECT



Cost Object	Illustration
Product	A BMW X5 sports activity vehicle
Service	Telephone hotline providing information and assistance to BMW dealers
Project	R&D project on enhancing the DVD system in BMW cars
Customer	Herb Chambers Motors, the BMW dealer that purchases a broad range of BMW vehicles
Activity	Setting up machines for production or maintaining production equipment
Department	Environmental, health, and safety department

SOURCE: Horngren–Datar–Rajan, “Cost Accounting: A Managerial Emphasis”, Fourteenth Edition

SOME (VERY) BAD DEFINITIONS

A direct cost is a price that can be completely attributed to the production of specific goods or services

<https://www.investopedia.com/terms/d/directcost.asp#ixzz4xwrVbOUE>

Most cost estimates are broken down into direct costs and indirect costs.

Direct costs are directly attributable to the object. In construction, the costs of materials, labor, equipment, etc., and all directly involved efforts or expenses for the cost object are direct costs. In manufacturing or other non-construction industries the portion of operating costs that is directly assignable to a specific product or process is a direct cost.

https://en.wikipedia.org/wiki/Indirect_costs

An expense that can be traced directly to (or identified with) a specific cost center or cost object such as a department, process, or product.

www.businessdictionary.com/definition/direct-cost.htm

TAUTOLOGY

Dictionary

tau•tol•o•gy | tō'täləjē |

noun (pl. **tautologies**)

the saying of the same thing twice in different words, generally considered to be a fault of style (e.g., *they arrived one after the other in succession*).

- a phrase or expression in which the same thing is said twice in different words.
- Logic a statement that is true by necessity or by virtue of its logical form.

DERIVATIVES

tau•to•log•i•cal | tōtl'äjikəl | adjective,

tau•to•log•i•cal•ly | tōtl'äjik(ə)lē | adverb,

tau•tol•o•gist | -jɪst | noun,

tau•tol•o•gize | -jīz | verb,

tau•tol•o•gous | -gəs | adjective

ORIGIN mid 16th cent.: via late Latin from Greek, from *tautologos* 'repeating what has been said,' from *tauto-* 'same' + *-logos* (see **-LOGY**).

Thesaurus

tautology

noun

avoid such tautology as "let's all work together, everyone, as a team" by saying simply "let's work together": PLEONASM, repetition, reiteration, redundancy, superfluity, duplication.

Wikipedia



Look up **[tautology](#)** in Wiktionary, the free dictionary.

Tautology may refer to:

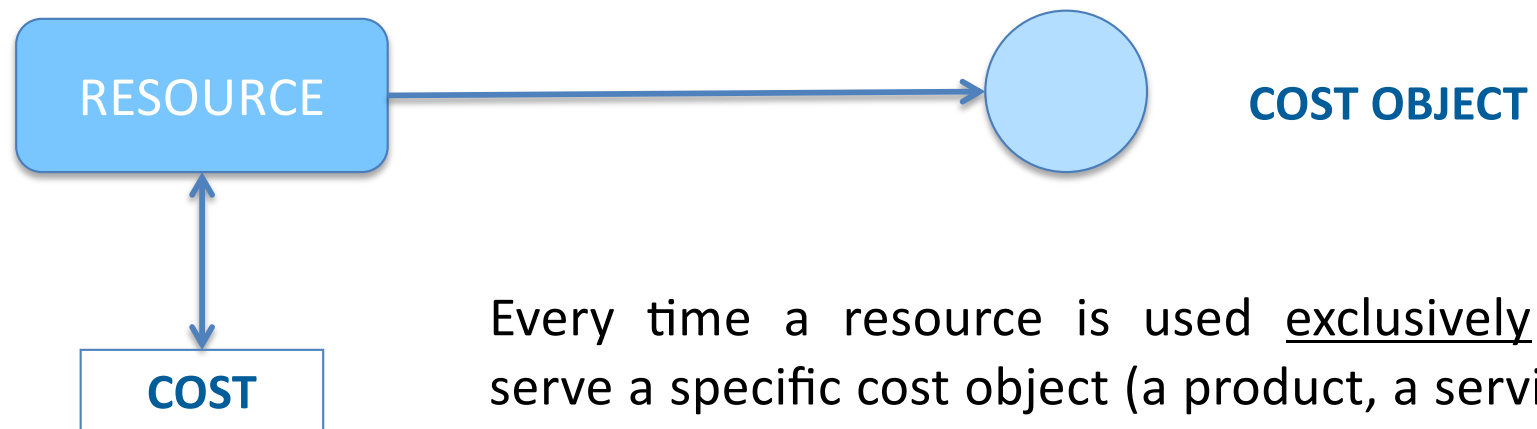
- **[Tautology \(rhetoric\)](#)**, a self-reinforcing pretense of significant truth
- **[Tautology \(grammar\)](#)**, the use of redundant words
- **[Tautology \(logic\)](#)**, a universal truth in formal logic
- **[Tautology \(rule of inference\)](#)**, a rule of replacement for logical expressions
- **[Tautonym](#)**, a species name composed of a repeated word, or one identical to the genus name



DIRECT COSTS – EXCLUSIVE USAGE

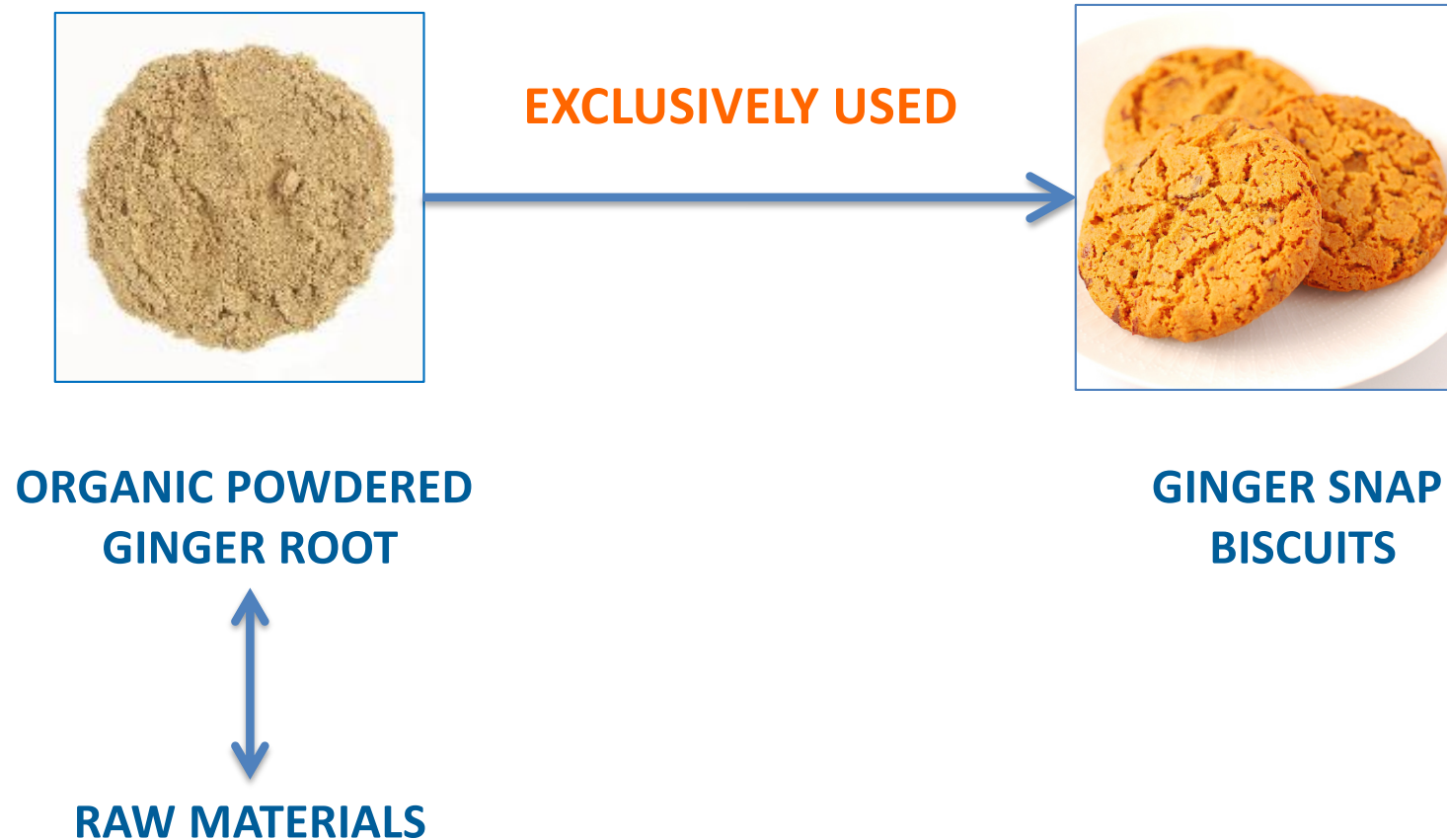
A direct cost is a cost that is uniquely and unequivocally attributable to a cost object.

Any cost that can be related unambiguously (without ambiguity) to a cost object is, therefore, a direct cost of that cost object.

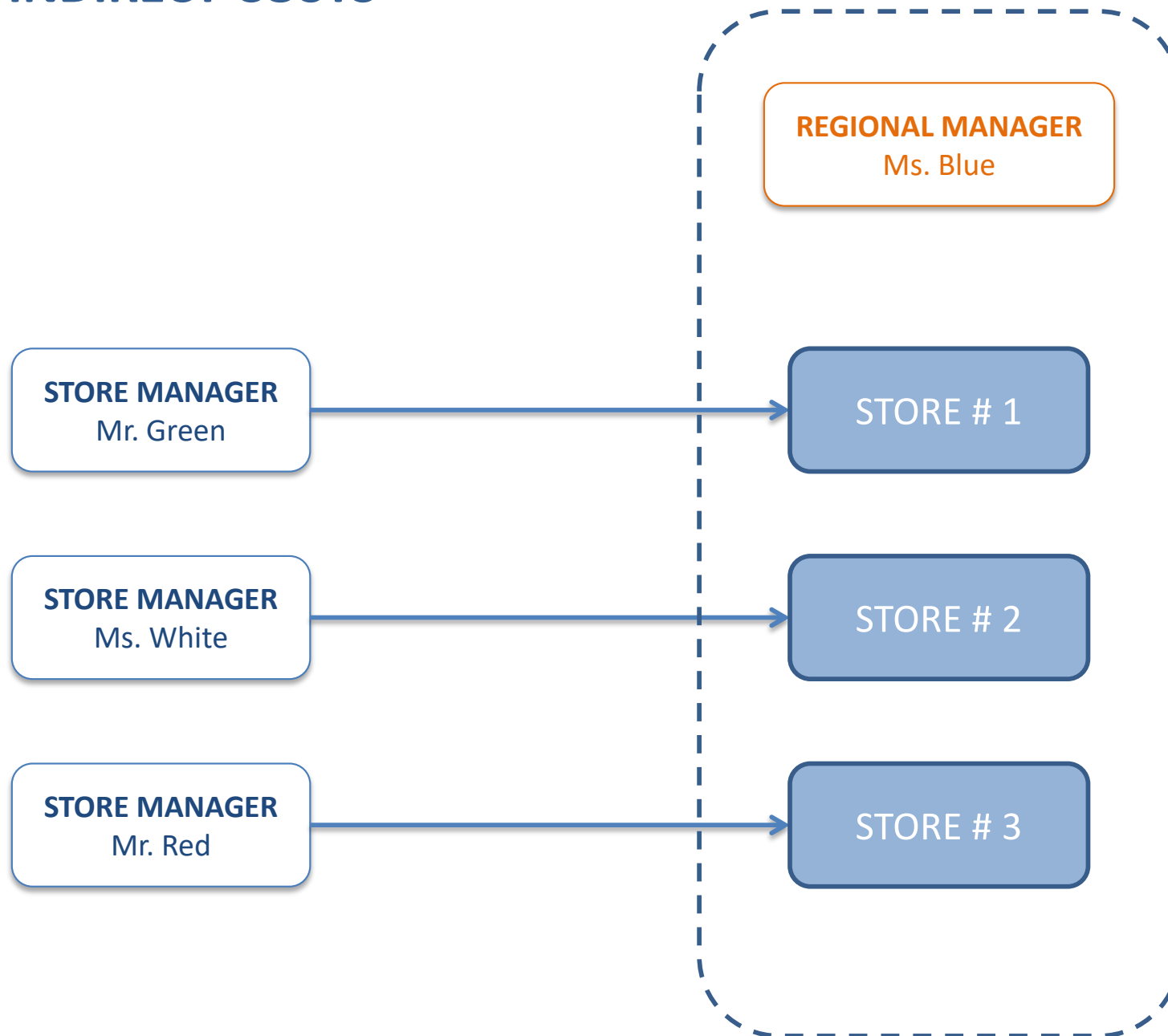


Every time a resource is used exclusively to serve a specific cost object (a product, a service, a customer, a distribution channel, an activity, a department) the cost that arises from its usage pertains unequivocally to that cost object. It is therefore a direct cost of that cost object.

DIRECT COSTS – EXCLUSIVE USAGE



DIRECT & INDIRECT COSTS



DIRECT COSTS OR INDIRECT?



FLOUR



RAW MATERIALS



**GINGER SNAP
BISCUITS**

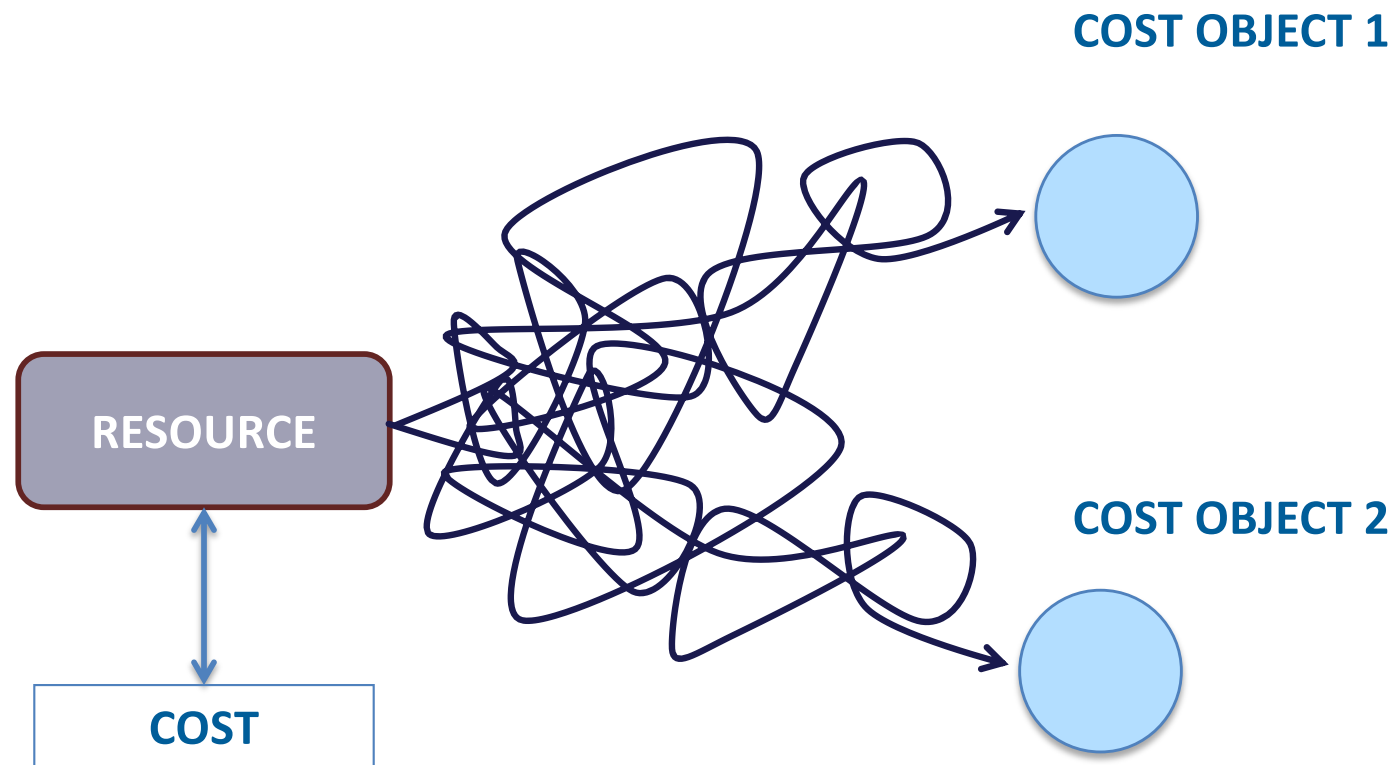


**STRAWBERRY
BISCUITS**



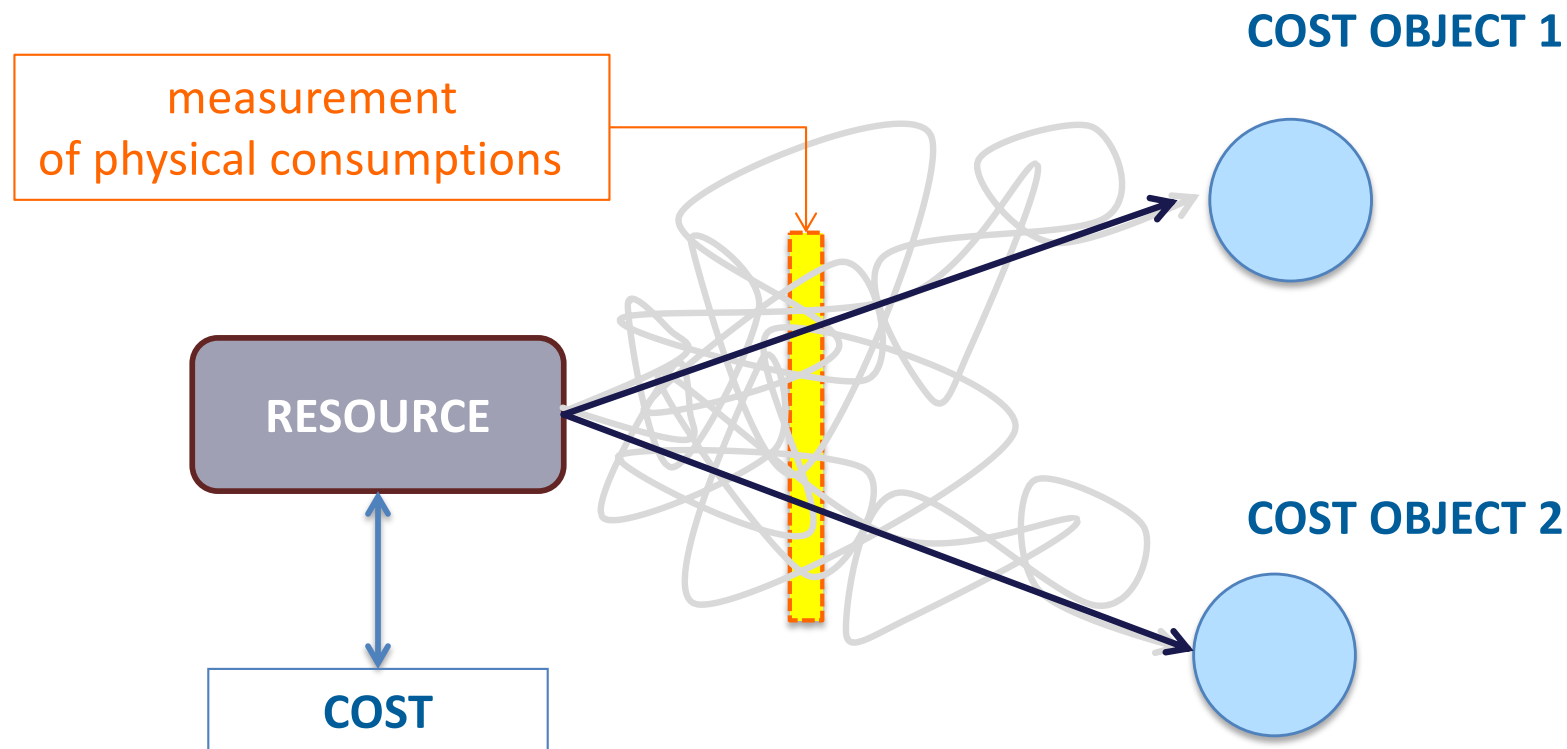
**GOLDEN FLAKY
BISCUITS**

MULTIPLE USAGE



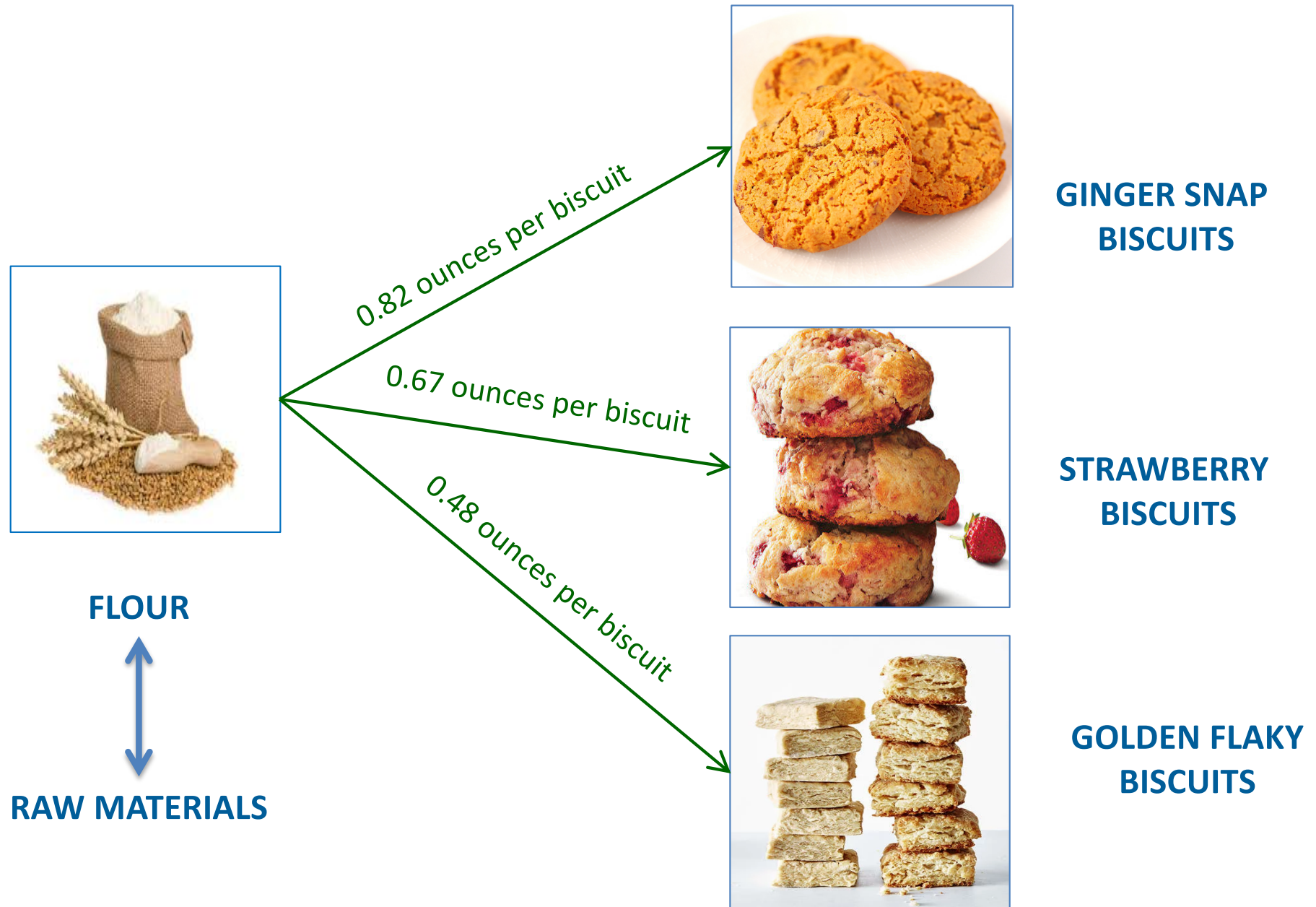
Normally a resource is used to support more than a cost object.

DIRECT COSTS – MEASUREMENT OF PHYSICAL CONSUMPTION

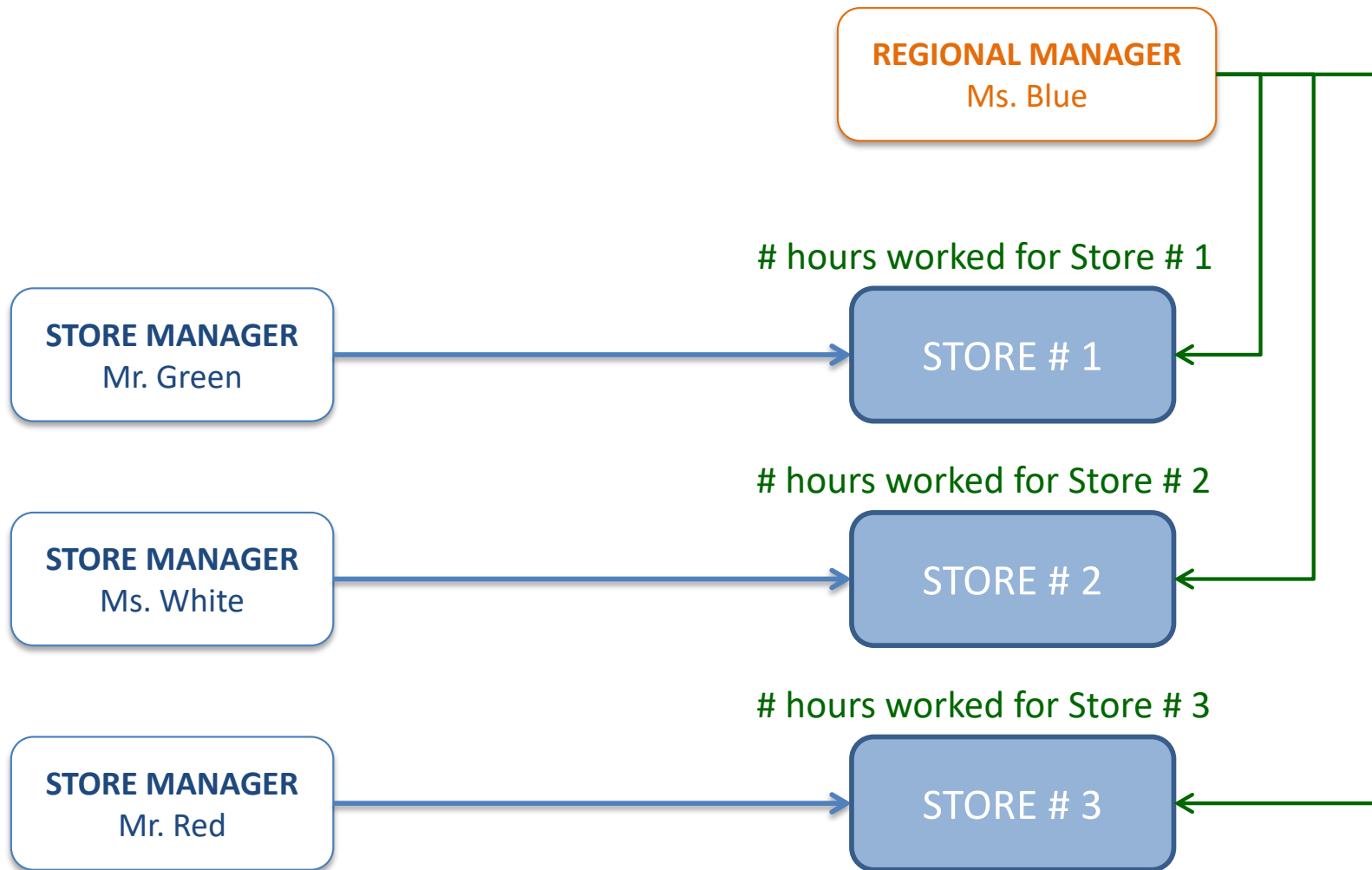


Normally a resource is used to support more than a cost object. In that case an unambiguous relation between the cost incurred and a specific cost object can be established only if it is possible to measure (in physical terms) the quantity of the resource consumed to serve the cost object considered.

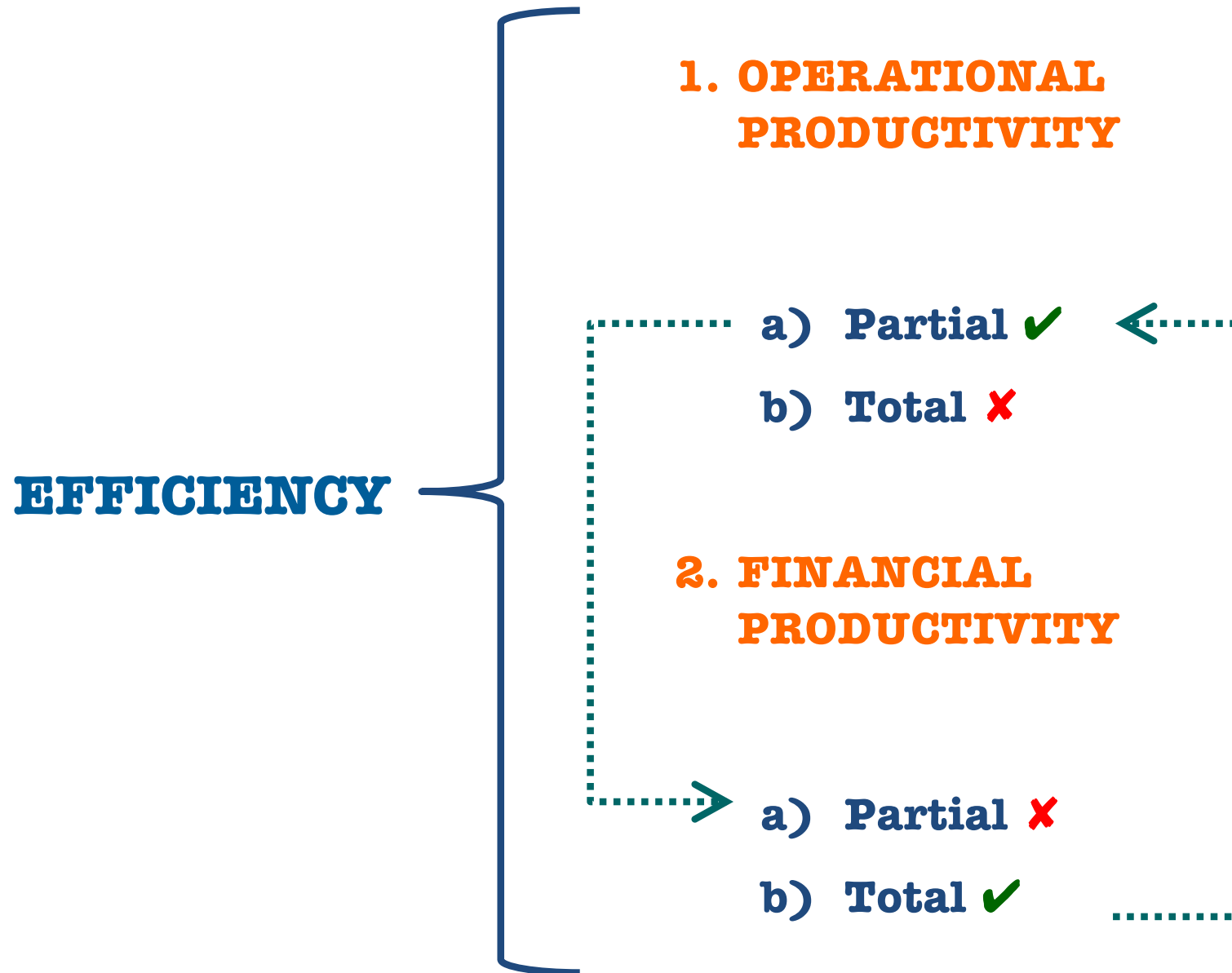
DIRECT COSTS – MEASUREMENT OF PHYSICAL CONSUMPTION



TWO DIFFERENT KINDS OF DIRECT COSTS



WHY IT IS DIFFICULT TO COMPUTE....



MEASUREMENT OF PHYSICAL CONSUMPTION

The measurement of resource consumption can take place in different ways:

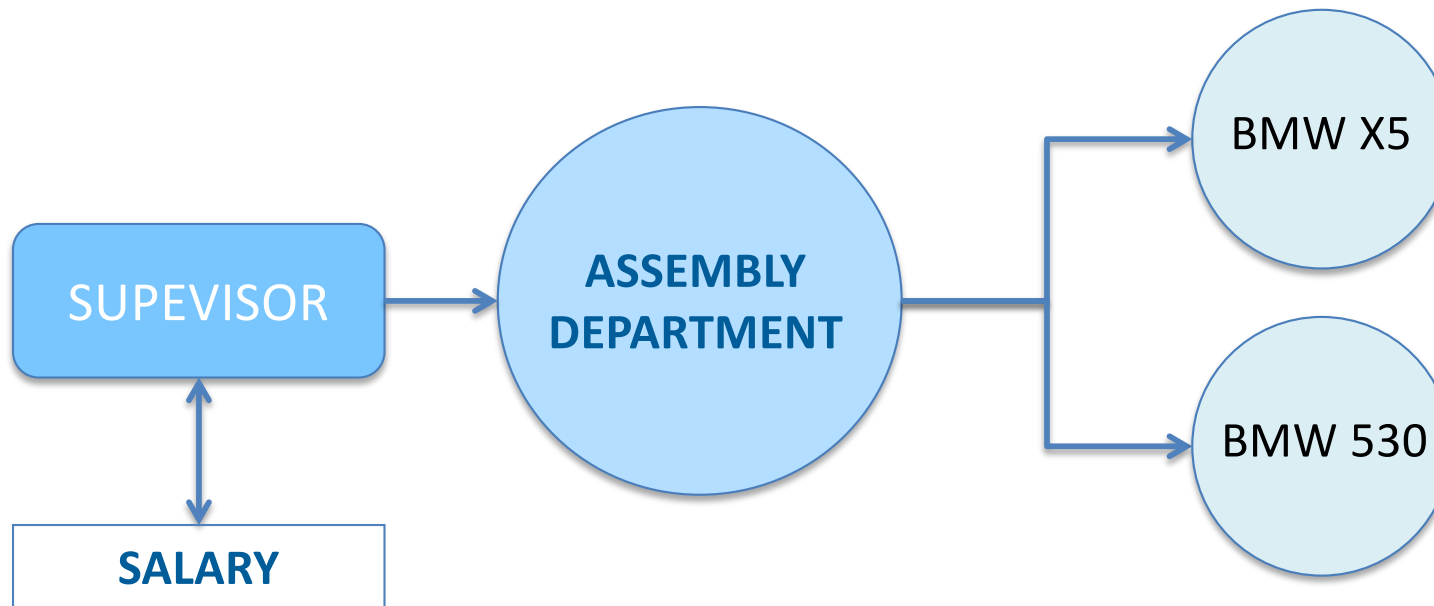
- ✧ **Continuously** by means of tools such as electric meters, bar code readers, picking lists, material requisition forms, time report, activity log, time clock or other electronic system, etc.
- ✧ **Occasionally** through measurement of resource usage caused in a specific period by the production of a particular amount of product or the provision of a specific service.
- ✧ Developing specific **time-motions study** in which analysts determine the cost of a product or a service by means of direct observations of the consumption of resources caused by the activities performed.
- ✧ Using **statistical or parametrical approaches**

FACTORS AFFECTING DIRECT/INDIRECT COST CLASSIFICATIONS

Several factors affect the classification of a cost as direct or indirect:

- ✧ **Design of operations.** Classifying a cost as direct is easier if a company's facility (or some part of it) is used exclusively for a specific cost object, such as a specific product or a particular customer.
- ✧ **The materiality of the cost in question.** The smaller the amount of a cost—that is, the more immaterial the cost is—the less likely that it is economically feasible to trace that cost to a particular cost object.
- ✧ **Available information-gathering technology.** Improvements in information-gathering technology make it possible to consider more and more costs as direct costs. Bar codes, for example, allow manufacturing plants to treat certain low-cost materials such as clips and screws, which were previously classified as indirect costs, as direct costs of products.

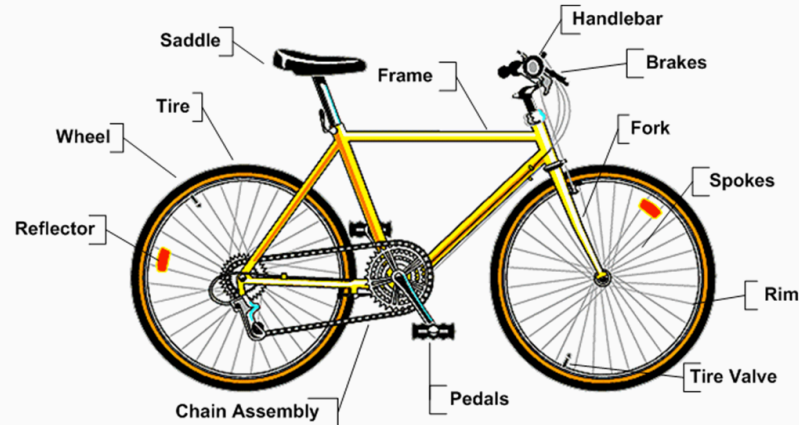
DIRECT/INDIRECT COST CLASSIFICATIONS: A CAUTION



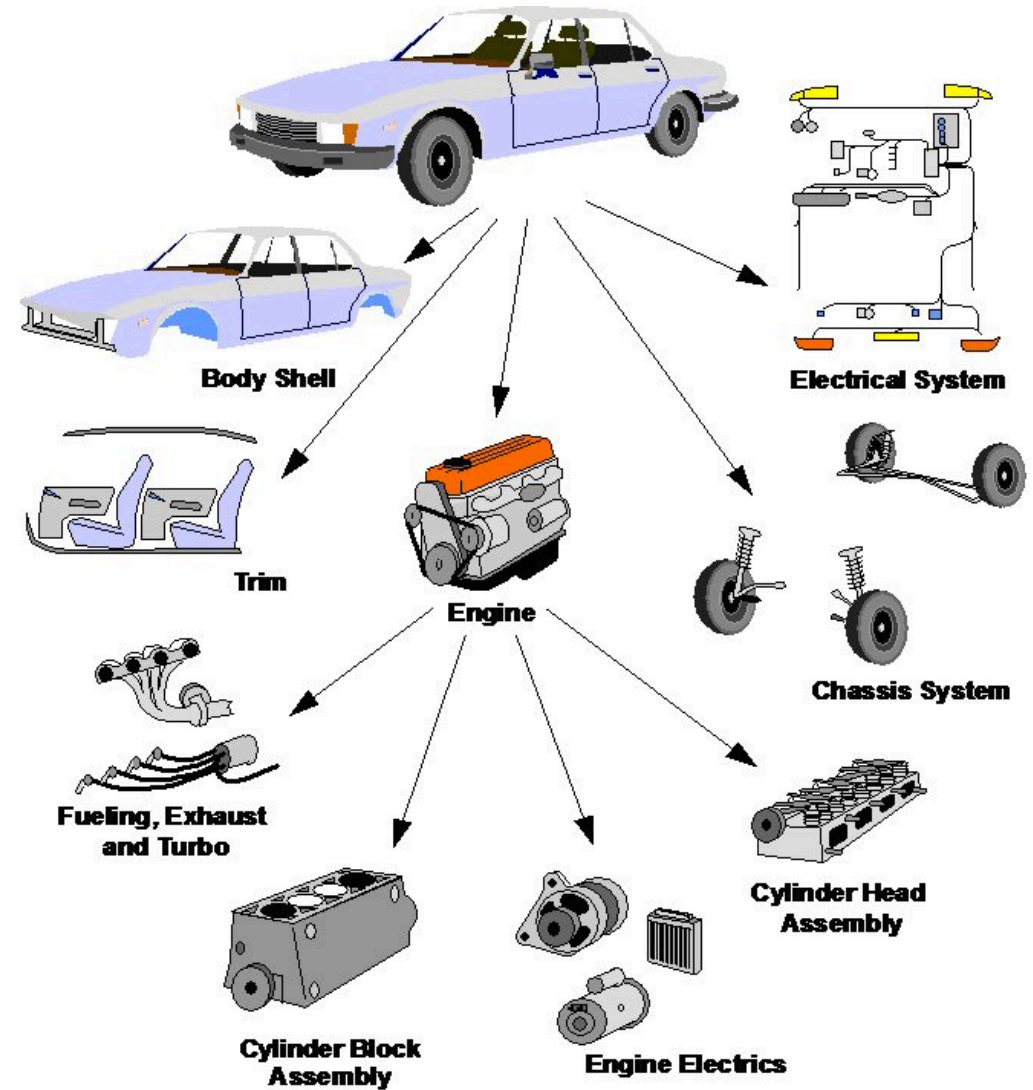
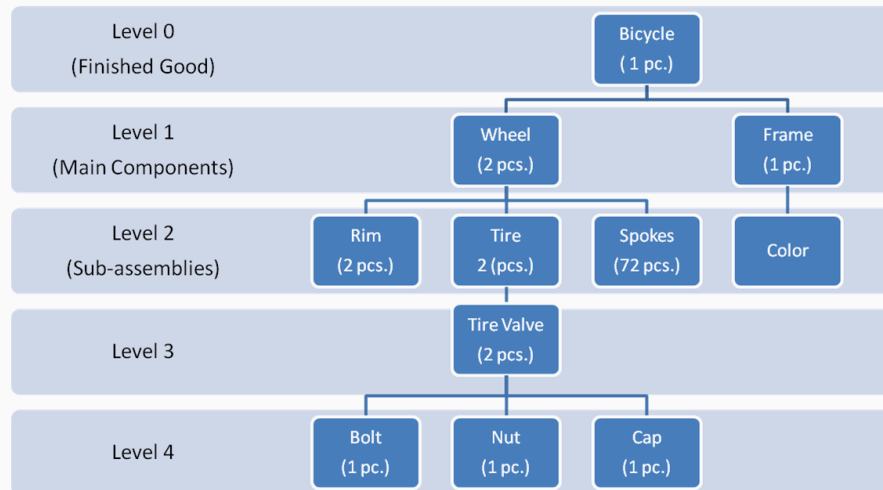
A specific cost may be both a direct cost of one cost object and an indirect cost of another cost object.

A useful rule to remember is that the broader the definition of the cost object—the assembly department rather than the X5 SAV—the higher the proportion of total costs that are direct costs and the more confidence a manager has in the accuracy of the resulting cost amounts.

BILL OF MATERIALS (B.O.M.)



Bicycle BOM (Bill of Materials)



DIFFERENT STANDARDS

How many corks
are needed to cork
a bottle of wine?



$$\frac{1 \text{ CORK}}{1 \text{ BOTTLE}} = 1$$



$$\frac{21 \text{ CORKS}}{18 \text{ BOTTLES}} = 1.3125$$

IDEAL VS NORMAL STANDARD

Companies set standards at one of two levels: ideal or normal.

- Ideal standards represent optimum levels of performance under perfect operating conditions.
- Normal standards represent efficient levels of performance that are attainable under expected operating conditions.

Some managers believe ideal standards will stimulate workers to ever-increasing improvement. However, most managers believe that ideal standards lower the morale of the entire workforce because they are difficult, if not impossible, to meet. Very few companies use ideal standards.

Most companies that use standards set them at a normal level. Properly set, normal standards should be rigorous but attainable. Normal standards allow for rest periods, machine breakdowns, and other “normal” contingencies in the production process.

SPOILAGE, SCRAP AND REWORK



Spoilage refers to unacceptable units that are discarded or sold for disposal value.

Scrap is the material left over from the manufacture of the product; it has little or no value.

Rework units are units produced that must be reworked into good units that can be sold in regular channels.

“Level” of the problem

Normal: occurs under normal operating conditions; it is uncontrollable in the short term and is considered a normal part of production and product cost.

→ the cost incurred is absorbed by the cost of good units produced.

Abnormal: is in excess over the amount of normal spoilage expected under normal operating conditions.

→ the cost incurred is charged as a loss to operations in the period detected.

SOURCE DOCUMENTS: MATERIAL REQUISITION FORM

Material Requisition

Employee: _____

Date: _____

Material	Job name	Customer name	Quantity	Unit cost	Total cost
Total					








Employee signature _____

Approved by signature _____

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material requisition v 1.1

SOURCE DOCUMENTS: BILL OF MATERIALS

<div> <div>PLANT <u>"T"</u></div> <div>Thomaseville Furniture Industries, Inc.</div> <div>Bill of Materials</div> <div>CHANGES FOR 14521-211</div> </div>													
<div> <div>STYLE <u>14531-210</u></div> <div>ARTICLE <u>GEORGIAN END TABLE</u></div> <div>DATE <u>1-19-07</u></div> <div>SHEET <u>1</u> OF <u>2</u></div> </div>													
LINE		NO. PCB.	DESCRIPTION	FINISH SIZE				M U L T	ROUGH SIZE			FOOTAGE	SKETCH
				L	W	T	BS		L	W	T		
1	14531-210 ONLY	1	TOP	26	20	13/16		1	27	21	3/16		
2		1/2	TOP CORE					1	17	47 1/2	3/4		
3		1	TOP CORE SIDE BANDS	47 1/2	2	3/4		1	47 1/2	2	4/4		
4		2	TOP CORE FR. & BK. BANDS	21	2	3/4		1	21	2	4/4		
5													
6		2	SIDE PANELS	22 3/8	41 5/16	3/4	21 3/8	4	23 7/8	21 3/4	5/8		1/4 POP CORE
7		2	SIDE APRON RAIL	22 3/8	17 3/8	1 7/16	21 3/8	1	23 3/8	21 1/8	5/4		
8		1	BACK PANEL	16 3/8	41 5/16	3/4	15 3/8	4	17 7/8	21 3/4	5/8		1/4 POP CORE
9		1	BACK APRON RAIL	16 3/8	17 3/8	1 7/16	15 3/8	1	17 3/8	21 1/8	5/4		
10		2	FRONT POST	22 3/4	2 1/2	2 1/2		1	23 3/4	2 3/4	5 pcs 5/4		
11		2	BACK POST	22 3/4	2 1/2	2 1/2		1	23 3/4	2 3/4	5 pcs 5/4		
12													
13	14531-210 ONLY	1	DRAWER FRONT	14 7/8	37 3/8	3/4		3	16 7/16	16 5/16	5/8		1/4 POP CORE
14		2	DWR. SIDES	20	3	7/16		1	21	3 1/4	5/8		
15		1	DWR. BACK	14 1/16	27 3/8	7/16							
16		1	DWR. BOTTOM	14 1/4	19 13/16	3/16		1	15 3/4	20 7/8	R.C.		
17		1	DWR. GUIDE—FEMALE	20 1/2	13 1/2	9/16	19 13/16	1	21 1/2	2 1/4	4/4		
18		1	DWR. GUIDE—MALE	22 1/2	1	1/2		1	23 1/2	1 1/4	4/4		
19		1	DWR. HOWE PULL										
20													

SOURCE DOCUMENTS: TIME TICKET

TIME TICKET

Ticket Number B-309 Date June 6, 2010
Employee Name Dale Johnson Job Number #351
Operation Assembly Approved by Juanita Perez

Time Started	Time Completed	Hours Worked	Rate	Cost
8:00 a.m.	11:00 a.m.	3.00	\$10.00	\$30.00
Total Cost				\$30.00

Machine: Press 7

Interval: 2nd Shift

Report Range From: 4/2/2013 12:00:00 AM To: 4/26/2013 12:40:10 PM

AVAILABILITY Interval Period: 4/3/2013 8:00:00 AM To 4/3/2013 4:00:00 PM

A. Total Available Time	480	min
B. Planned Downtime	0	min
C. Net Available Time (A - B)	480	min
D. Unplanned Downtime	103	min
E. Operating Time (C - D)	377	min
F. Availability (E / C) x 100	78.6	%

PERFORMANCE EFFICIENCY

G. Total Cycles Run	21,703	cycles
H. Ideal Production Rate	3600.0	cycles/hr
Actual Production Rate (Calculated)	3,450	cycles/hr
Cycle Time	1.04	seconds
I. Performance Efficiency $((G / E) / (H / 60)) \times 100$	95.8	%

QUALITY RATE

J. Total Defects (Rework + Scrap)	0	parts
K. Quality Rate $((G - J) / G) \times 100$	100.0	%

OEE

Overall Equipment Effectiveness (OEE) by Tool $(F \times I \times K)$ Equipment Availability x Performance Efficiency x Quality Rate	75.4	%
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DIRECT MATERIALS AND INDIRECT MATERIALS (CONSUMABLE)

Direct material is all of the physical items built into a product.

Direct materials are rolled into the total cost of goods produced, which is then subdivided into the cost of goods sold (which appears in the income statement) and ending inventory (which appears in the balance sheet).

The direct material classification typically includes all materials physically present in a finished product, which is raw materials and sub-assemblies. However, that is not the full extent of direct materials. In addition, direct material includes that amount of scrap and spoilage normally encountered during the production of goods.

Some costs are for materials that are not considered direct materials, and so are instead classified as indirect material costs. These materials are **so immaterial as not to be worth tracing to a specific product or cannot be clearly associated with a specific product**. Examples of indirect materials are:

- ✧ Rags and solvents used during the construction of a house
- ✧ The grease used on machines that manufacture products
- ✧ The thread used in clothing

DIRECT OR INDIRECT?



Bottles (glass)
Corks
Screw caps
Capsules
Labels
Packing paper
Pallets
Wooden caskets
Descriptive cards
Sales commissions
Allowance for doubtful accounts
Selling transport costs
Bulk discount in goods (1/10)



WINERY'S VARIABLE COSTS



Bottles
Corks
Capsules
Labels
Packing paper
Pallets
Wooden caskets
Descriptive cards
Sales commissions
Allowance for doubtful accounts
Selling transport costs
Bulk discount in goods (1/10)

"MANUFACTURING"

"SELLING"

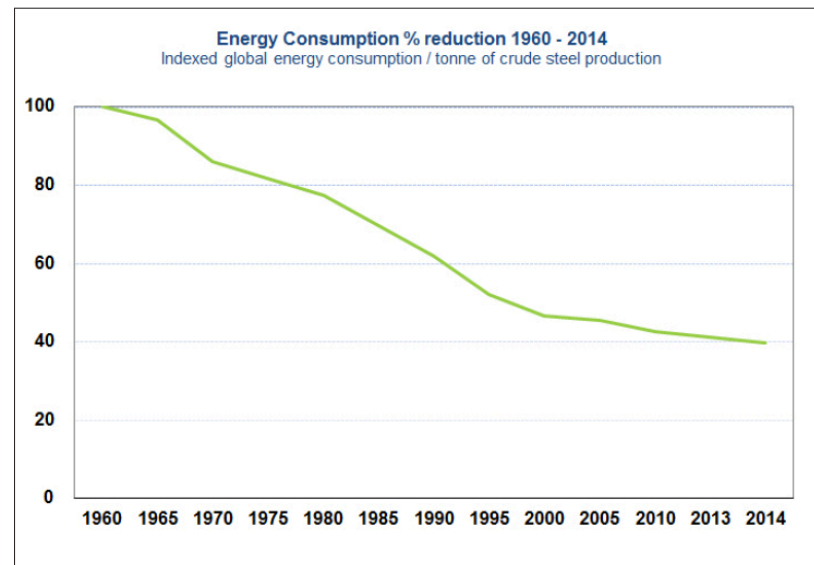
"DIRECT"

"INDIRECT"

"DIRECT"	"INDIRECT"

ENERGY USE IN THE STEEL INDUSTRY

The steel industry actively manages the use of energy. Energy conservation in steelmaking is crucial to ensure the competitiveness of the industry and to minimize environmental impacts, such as greenhouse gas emissions.



Steel production is energy intensive. However, sophisticated energy management systems ensure efficient use and recovery of energy throughout the steelmaking process for reuse, wherever possible. Improvements in energy efficiency have led to reductions of about 60% in energy required to produce a tonne of crude steel since 1960.

ENERGY USE IN THE STEEL INDUSTRY

Energy constitutes a significant portion of the cost of steel production, from 20% to 40% in some countries.

Thus, improvements in energy efficiency result in reduced production costs and thereby improved competitiveness.

The energy efficiency of steelmaking facilities vary depending on:

- ✧ production route,
- ✧ type of iron ore and coal used,
- ✧ the steel product mix,
- ✧ operation control technology, and
- ✧ material efficiency.

RESEARCH TIMESHEET

Timesheet

Please refer to Notes tab before completing

Full Name:	
Staff Category:	
Month & Year:	
Staff No:	
FTE (see note 5):	

Starter/Leaver Dates (see note 3)	
Start date:	
Leave date:	

			Week 1 Beginning								Week 2 Beginning							
			Hours Worked								Hours Worked							
Chargeable Activity			Mon	Tue	Wed	Thu	Fri	Sat	Sun	Total	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Total
Project 1 - Title Project Type: Research Account No: Contract No:		RTD								-								-
		Demonstration								-								-
		Coordination								-								-
		Support								-								-
		Management								-								-
	Other									-								-
Project 2 - Title Project Type: Research Account No: Contract No:		RTD								-								-
		Demonstration								-								-
		Coordination								-								-
		Support								-								-
		Management								-								-
	Other									-								-
Project 3 - Title Project Type: Research Account No: Contract No:		RTD								-								-
		Demonstration								-								-
		Coordination								-								-
		Support								-								-
		Management								-								-
	Other									-								-
Project 4 - Title Project Type: Research Account No: Contract No:		RTD								-								-
		Demonstration								-								-
		Coordination								-								-
		Support								-								-
		Management								-								-
	Other									-								-
			Week 1								Week 2							
			Hours								Hours							
Non-chargeable Activity			Mon	Tue	Wed	Thu	Fri	Sat	Sun	Total	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Total
Other Research Projects										-								-
Management and Administration (Excl. Mgt/Admin on FP7 Projects)										-								-
Teaching										-								-
Other (e.g. Consultancy)										-								-
			Week 1								Week 2							
			Hours								Hours							
Non-productive Time			Mon	Tue	Wed	Thu	Fri	Sat	Sun	Total	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Total
Sick Leave (see note 4)										-								-
Annual Leave (see note 4)										-								-
Other non-productive time (e.g. parental leave, unpaid absence)										-								-
			Week 1								Week 2							
			Hours								Hours							
Total Productive (worked) hours			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total hours			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



AUDITOR TIMESHEET

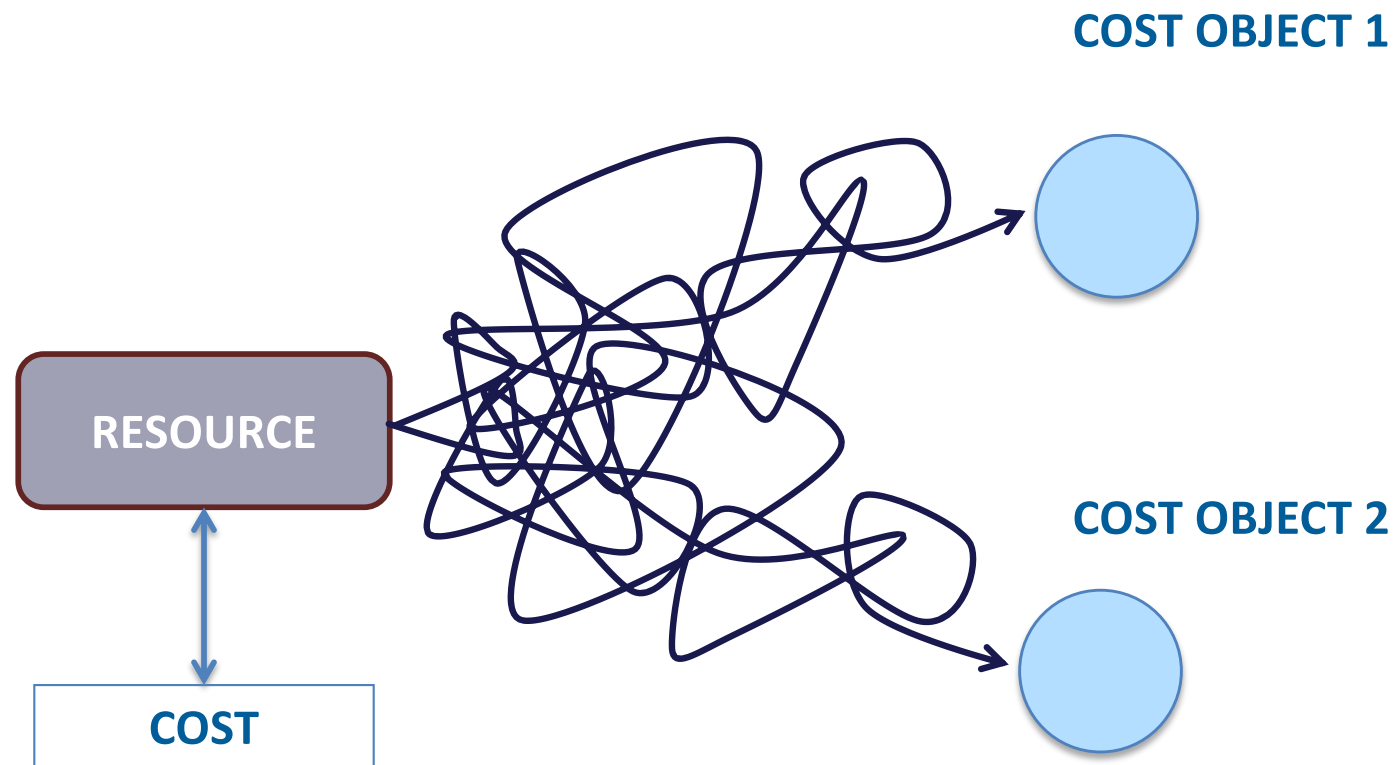
PMW: Rogers, Steven

Project	Task	Pay Type	Bill Type	Comment	Sun Aug 4	Mon Aug 5	Tue Aug 6	Wed Aug 7	Thu Aug 8	Fri Aug 9	Sat Aug 10	Totals
Corporate	Current											
Corporate	Other	Vacation	Standard	in NYC		8:00						8:00 M
Millstone Productions	Reqs	Regular	Standard	outline for manual				4:00				4:00 M
A&A Biscuit Co	Meetings	Regular	Standard	team meeting				1:30				1:30 M
A&A Biscuit Co	Meetings	Regular	Standard	team meeting			2:00					2:00 M
DalEx Inc.	Docs	Regular	Standard	online help content			6:00					6:00 M
	New											
- A&A Biscuit Co		Sickday	Standard									0:00
Corporate Webpage		Regular	Standard									0:00
Intranet		Regular	Standard									0:00
Totals					0:00	8:00	8:00	5:30	0:00	0:00	0:00	21:30

Save Changes View Timesheet Submit for Approval [Approval Report](#)

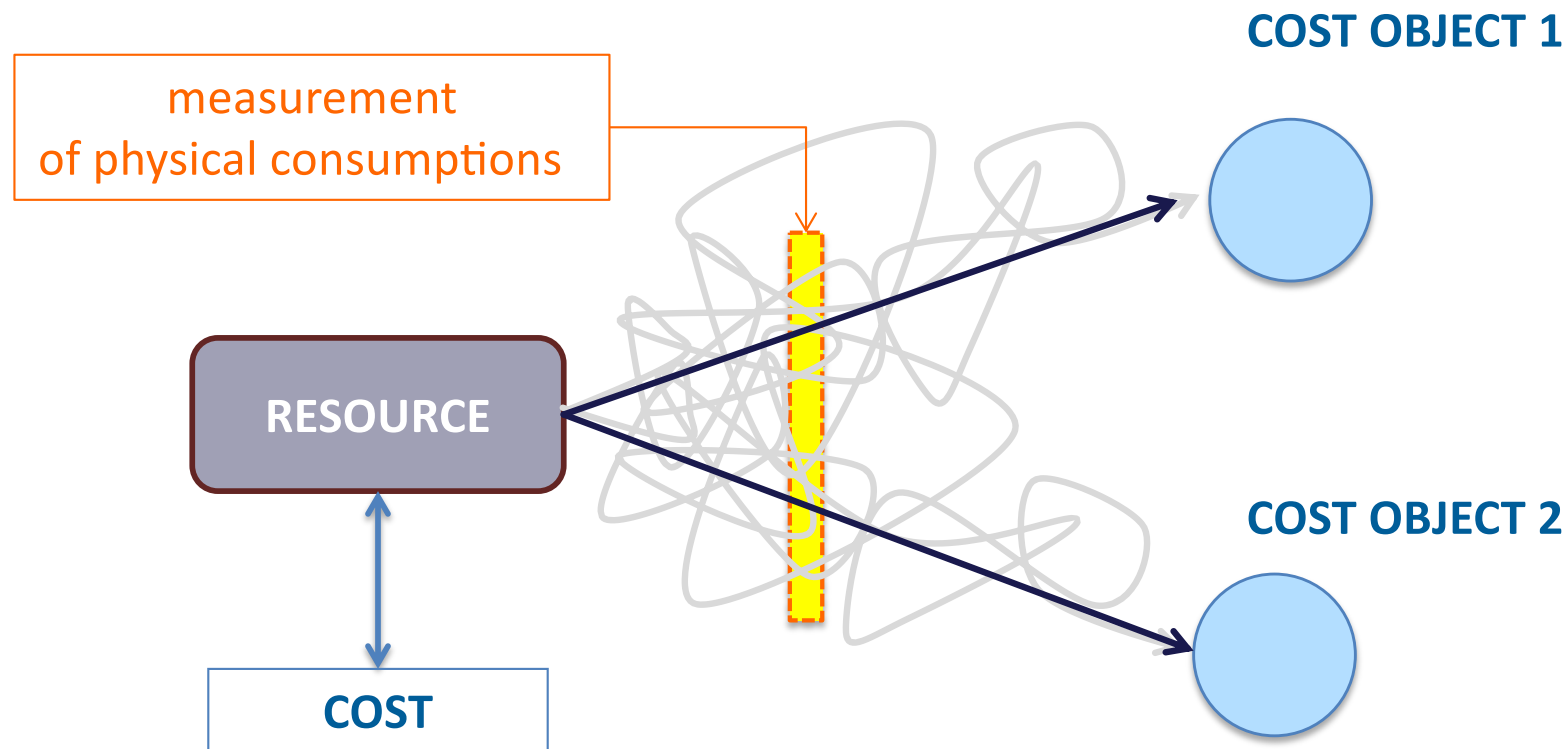
<-- --> 08/07/2007 Go

MULTIPLE USAGE



Normally a resource is used to support more than one cost object.

DIRECT COSTS – MEASUREMENT OF PHYSICAL CONSUMPTION



Normally a resource is used to support more than one cost object. In that case an unambiguous relation between the cost incurred and a specific cost object can be established only if it is possible to measure (in physical terms) the quantity of the resource consumed to serve the cost object considered.

MULTIPLE USAGE

Sometimes it is NOT technically or economically feasible to establish a clear, un-ambiguous relation between a resource (or a group of resources) consumed and the specific cost object considered.

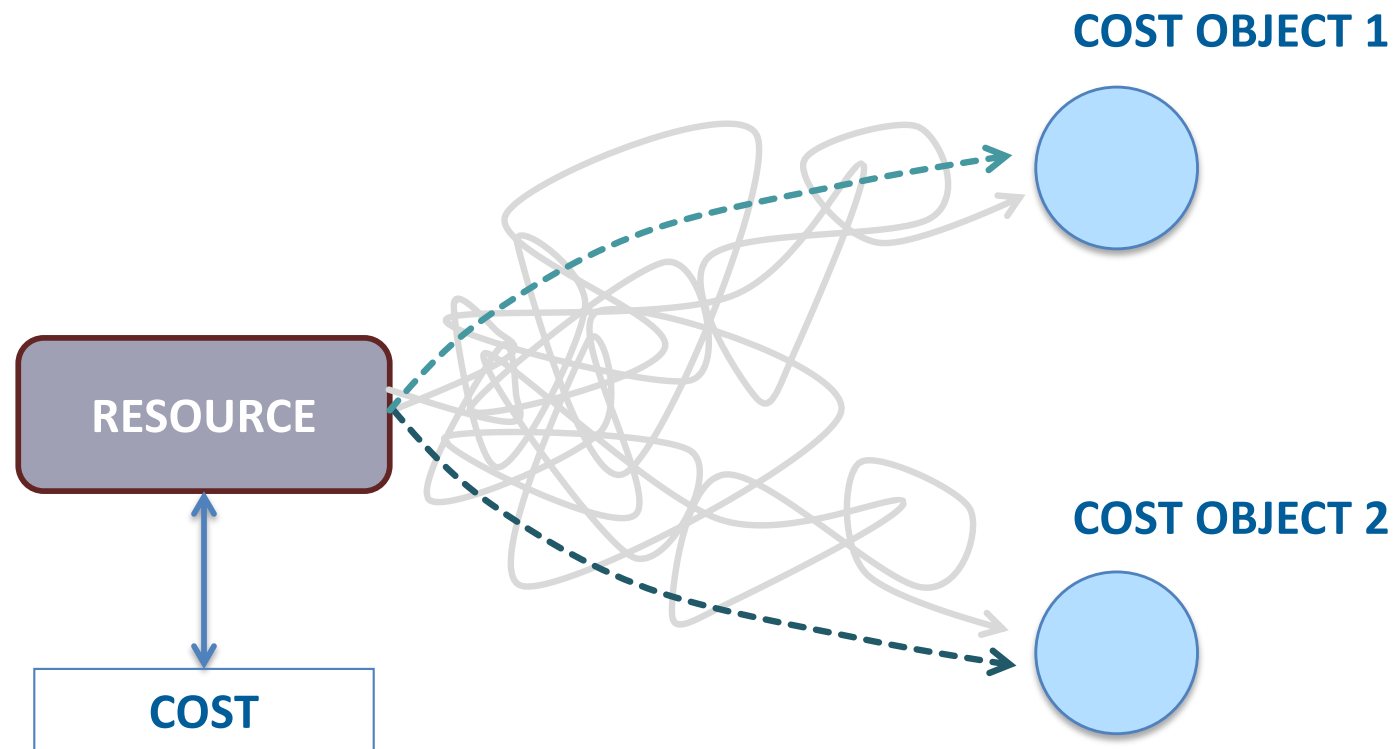
In that case there are two possible options:

1. To limit the “scope” of the cost assigned to the cost object only to “direct costs”; all “indirect costs” are therefore necessarily considered “period costs”;
2. To proceed in assigning also a portion of “indirect costs” to the cost object using a specific “cost allocation” procedure.

INDIRECT COSTS – NO ALLOCATION

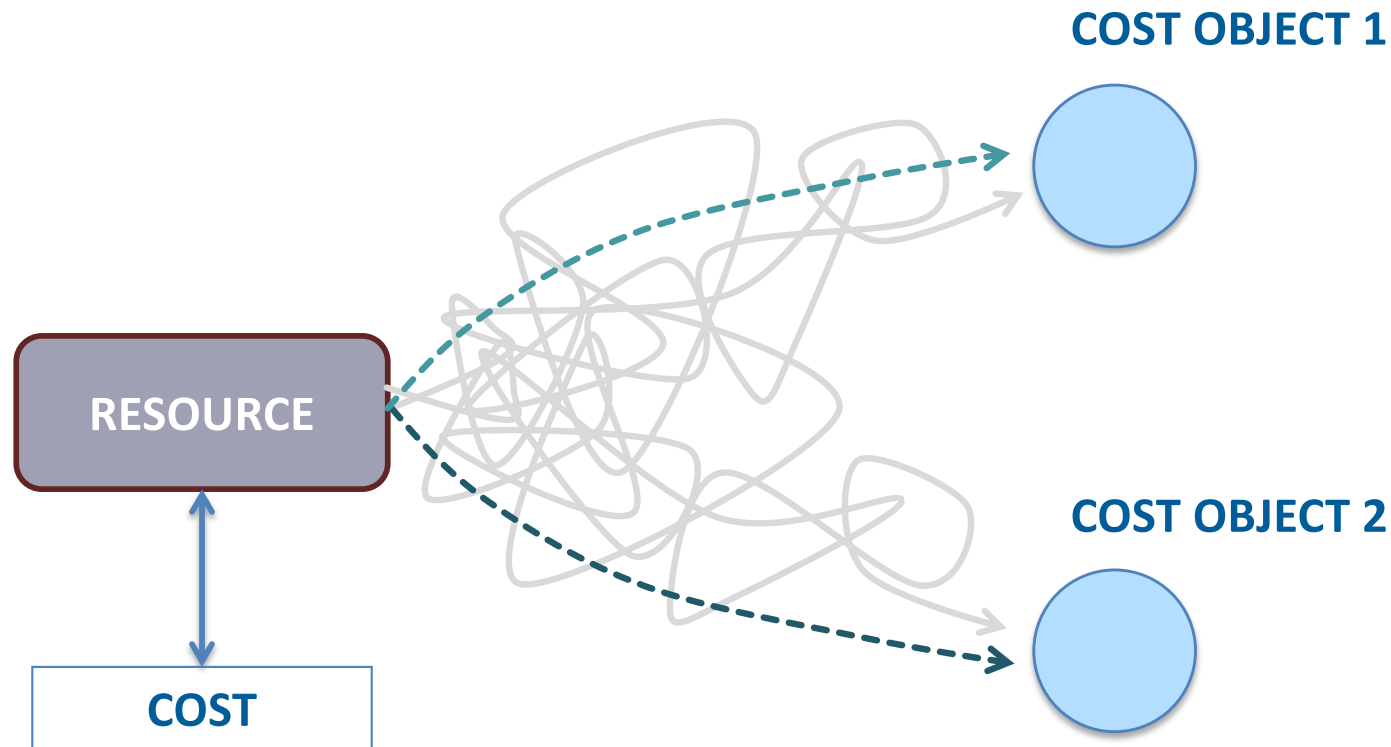
	JOB 1	JOB 2	JOB 3	JOB ...	JOB N	Total
+ Sales Revenues	xxx	xxx	xxx	xxx	xxx	\sum
- Sales Commissions	xxx	xxx	xxx	xxx	xxx	\sum
= Net Revenues	= xxx	= xxx	= xxx	= xxx	= xxx	= \sum
- Direct Materials	- xxx	- xxx	- xxx	- xxx	- xxx	\sum
= First Margin	= xxx	= xxx	= xxx	= xxx	= xxx	= \sum
- Outsourced Work	- xxx	- xxx	- xxx	- xxx	- xxx	\sum
= Second Margin	= xxx	= xxx	= xxx	= xxx	= xxx	= \sum
- Other Direct Costs	- xxx	- xxx	- xxx	- xxx	- xxx	\sum
- Direct Labor	- xxx	- xxx	- xxx	- xxx	- xxx	\sum
= Job Orders Direct Margin	= xxx	= xxx	= xxx	= xxx	= xxx	= \sum
- Manufacturing Overhead						- xxx
- Selling Overhead Expenses						- xxx
- Administrative Expenses						- xxx
- General Expenses						- xxx
= Ebit						= xxx

INDIRECT COSTS – ASSIGNING THEM TO COST OBJECT



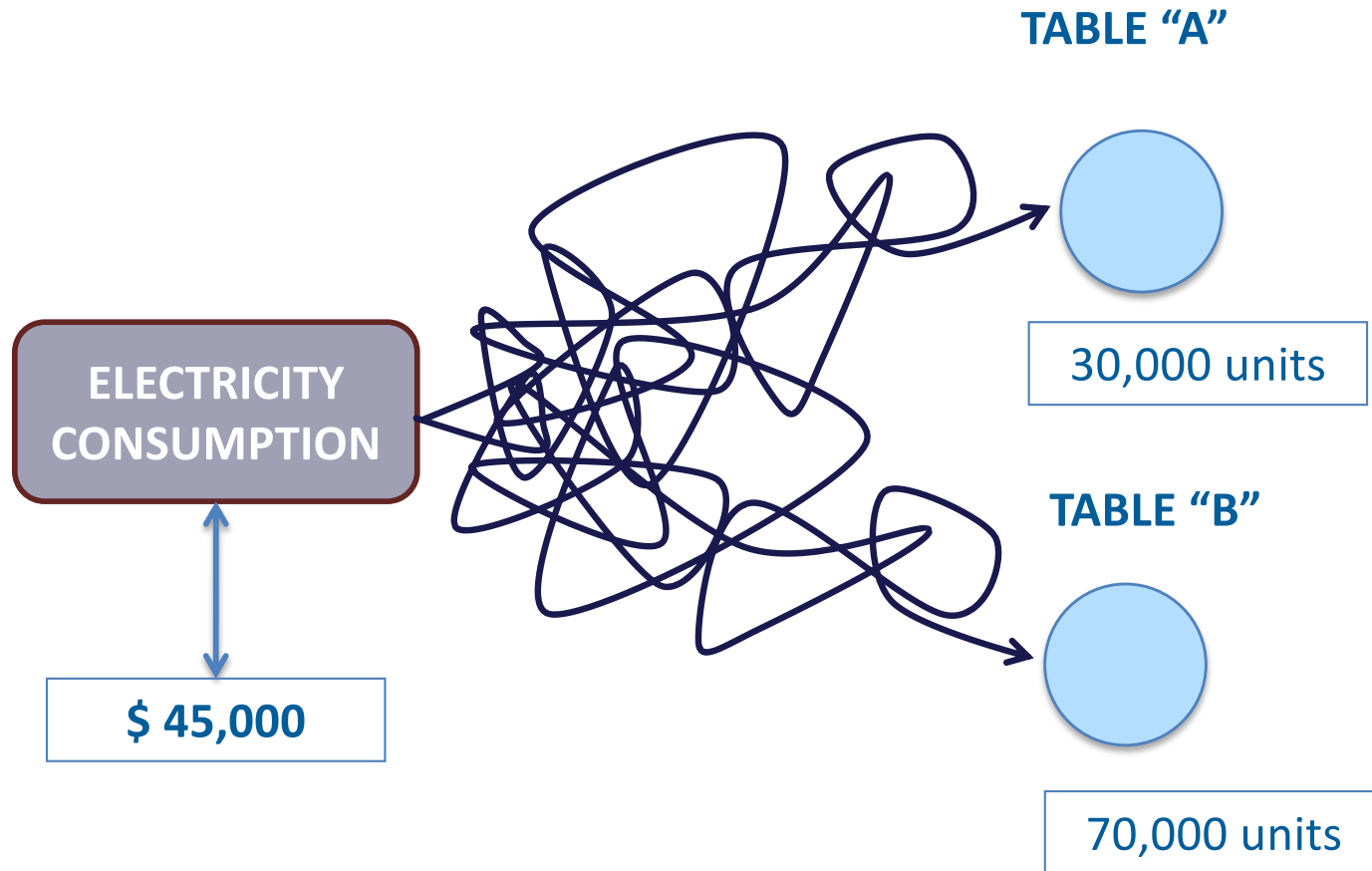
Cost allocation is the process of identifying, aggregating, and assigning **indirect costs** to several **cost objects**. The term "allocation" implies that there is no overly precise method available for charging a cost to a cost object (therefore one can not **trace** the costs to the cost object) we use instead an “**allocation base**”.

INDIRECT COSTS – ALLOCATION BASE

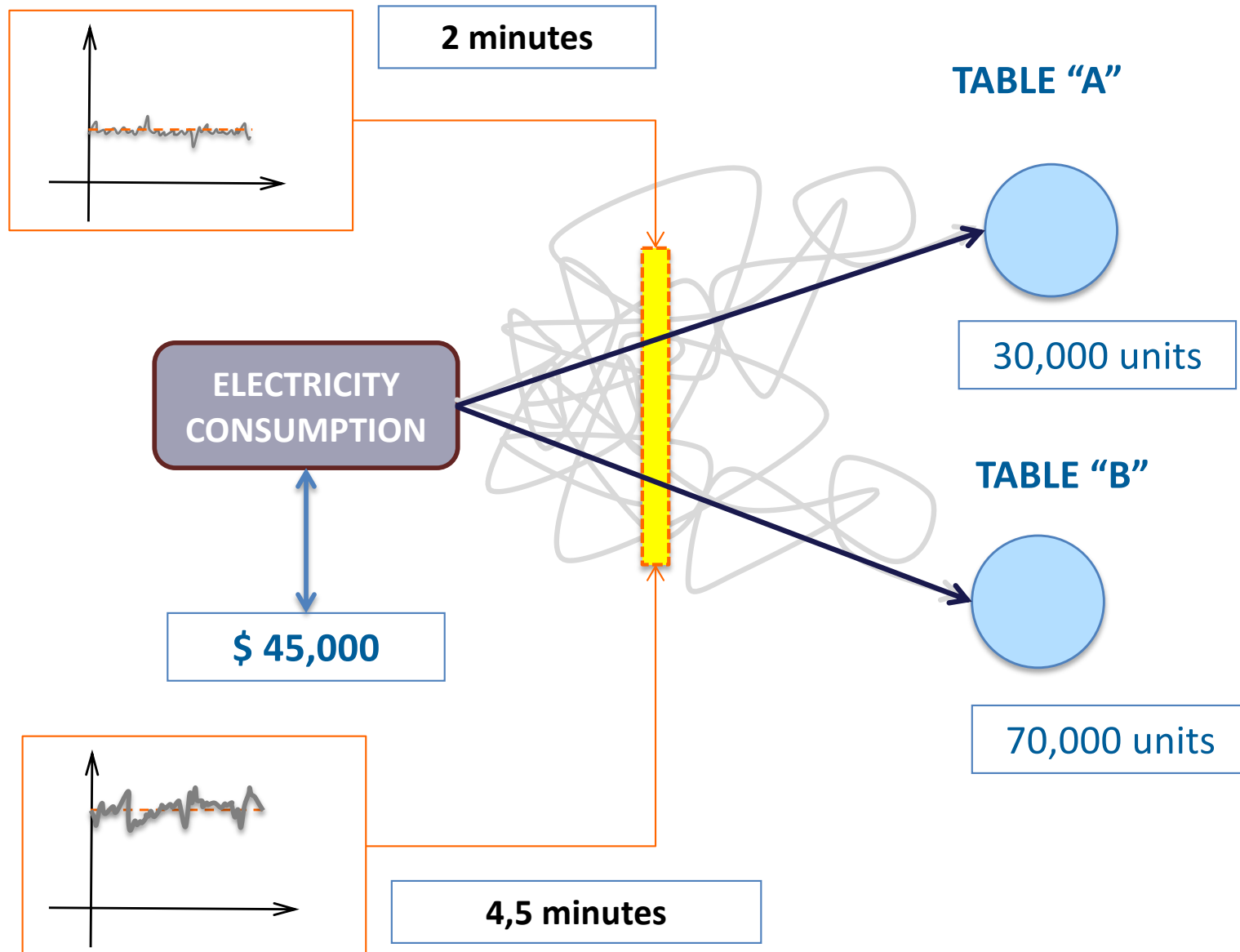


An allocation base is a parameter that could be used as a “**proxy**” of resource consumption. Therefore, in this instance, we do not measure the consumption, but we try to establish its value using a variable that - we believe - is correlated with the level of resource usage.

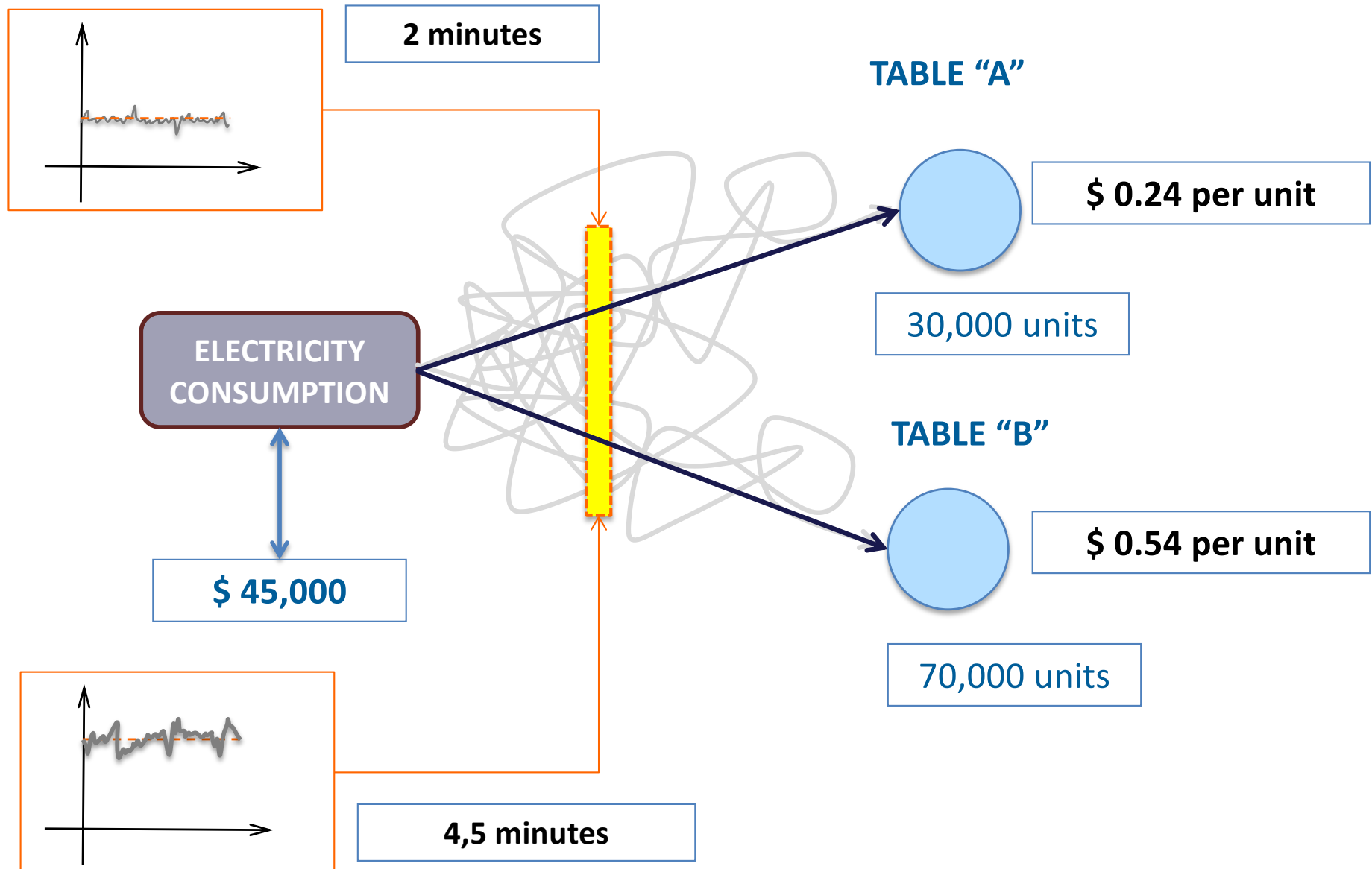
A SIMPLE EXAMPLE – ELECTRICITY COST DUE TO SANDING ACTIVITIES



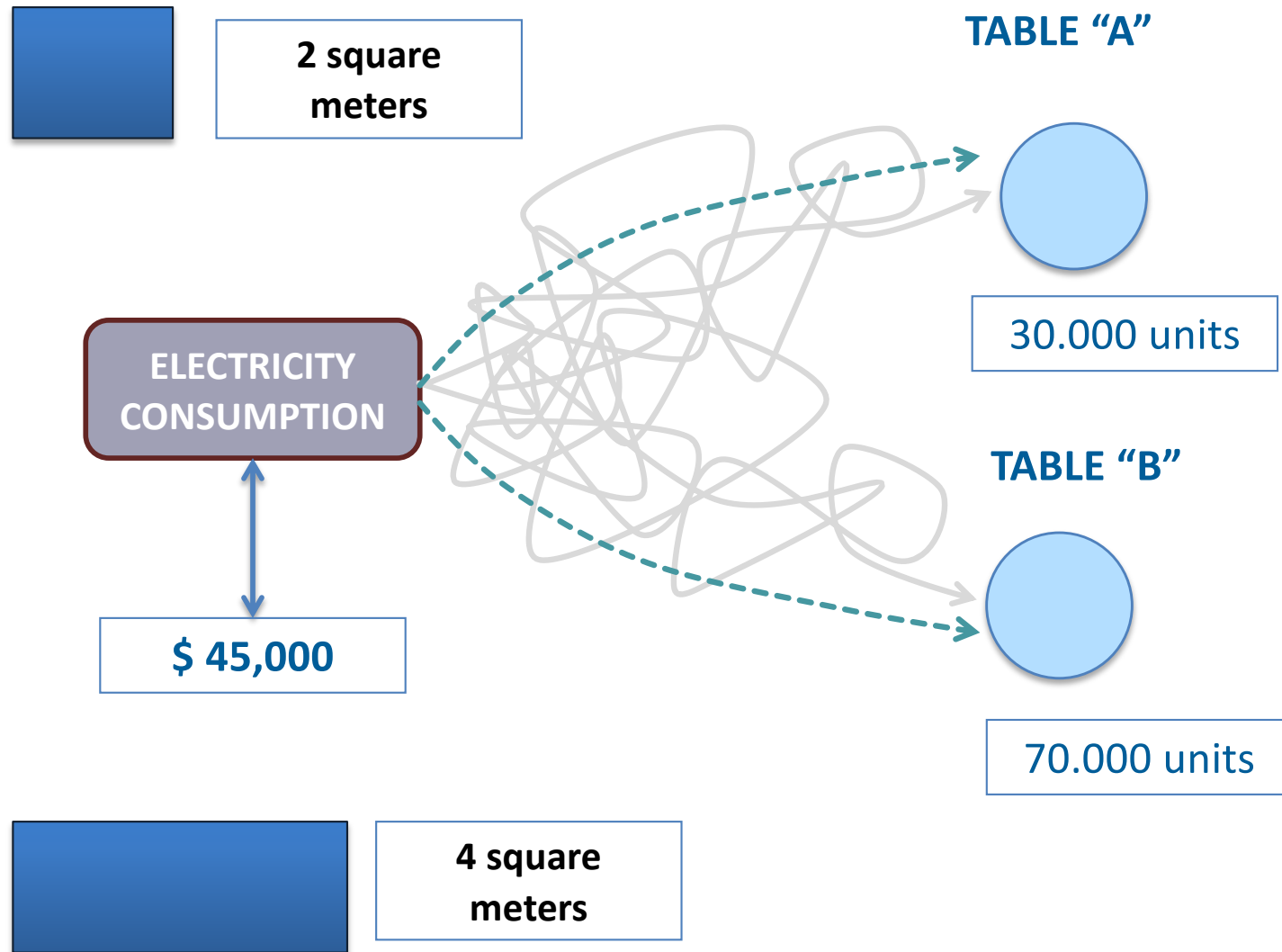
A SIMPLE EXAMPLE – MEASURING THE CONSUMPTION OF RESOURCE



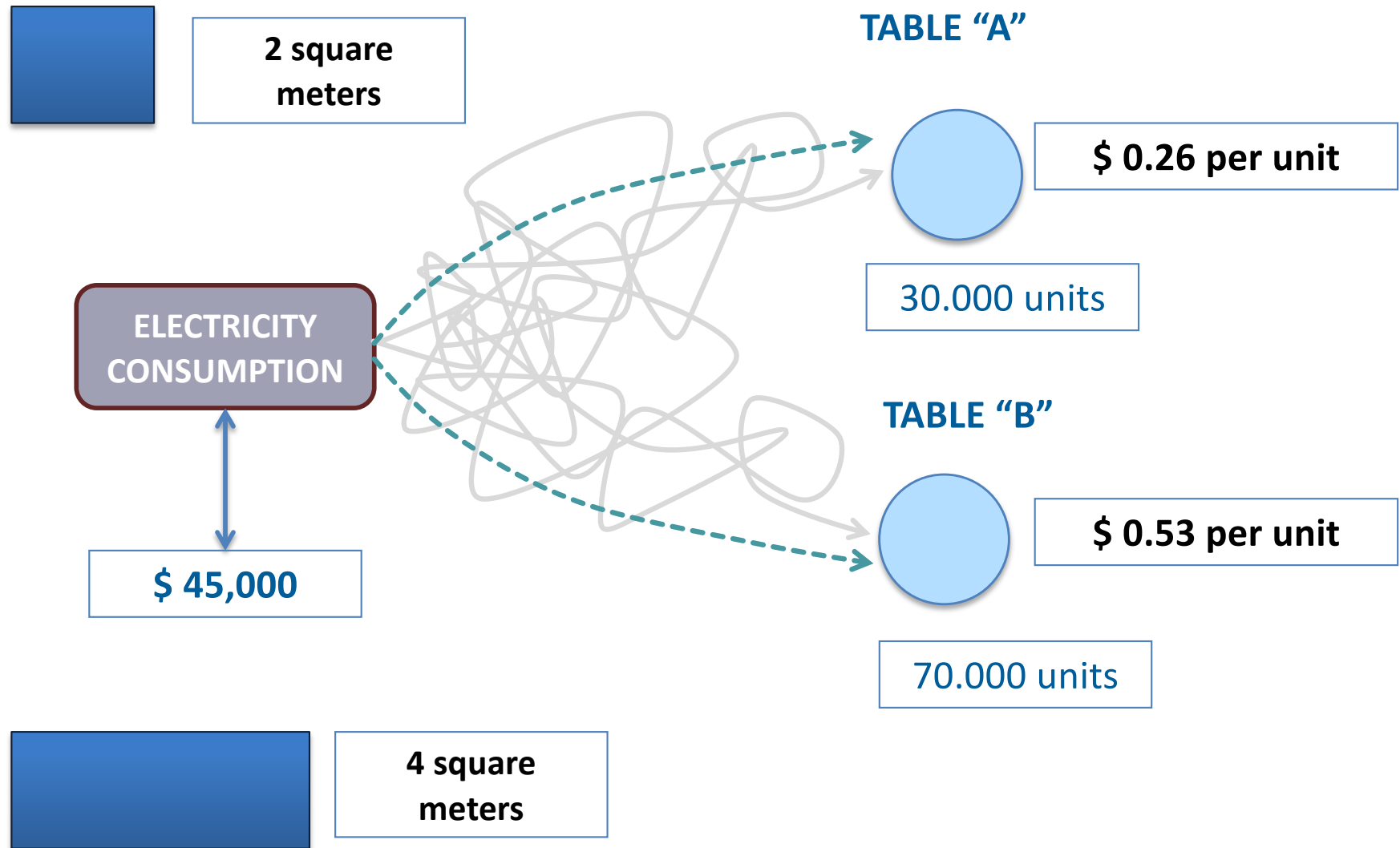
A SIMPLE EXAMPLE – MEASURING THE CONSUMPTION OF RESOURCE



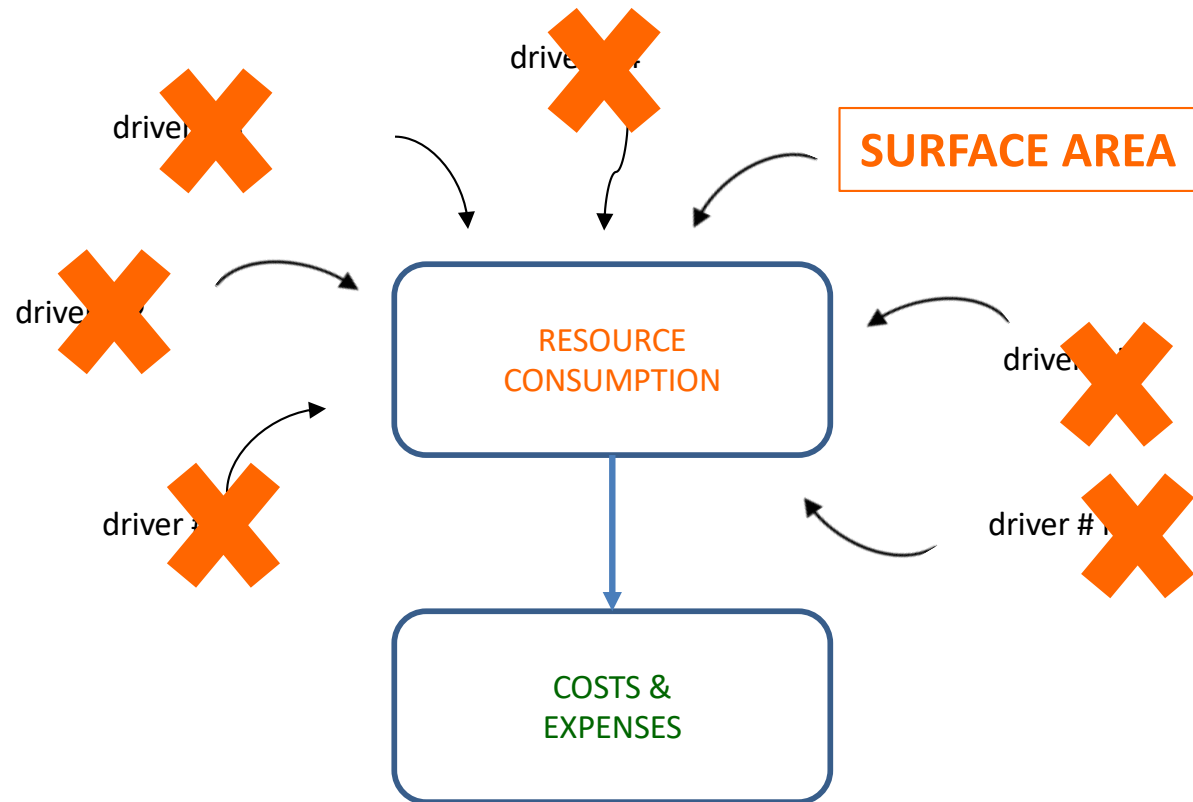
A SIMPLE EXAMPLE – USING A FAIR, REASONABLE PROXY



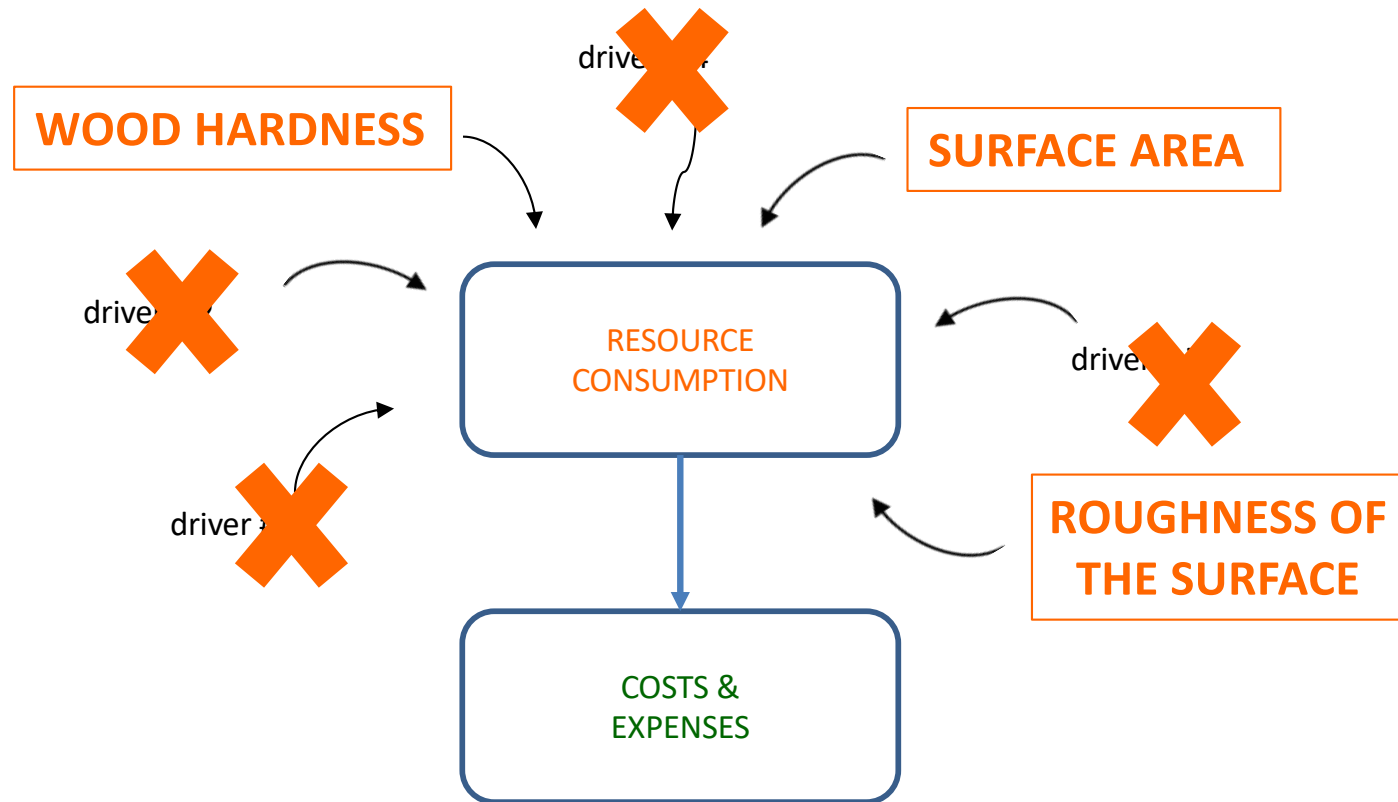
A SIMPLE EXAMPLE – USING A FAIR, REASONABLE PROXY



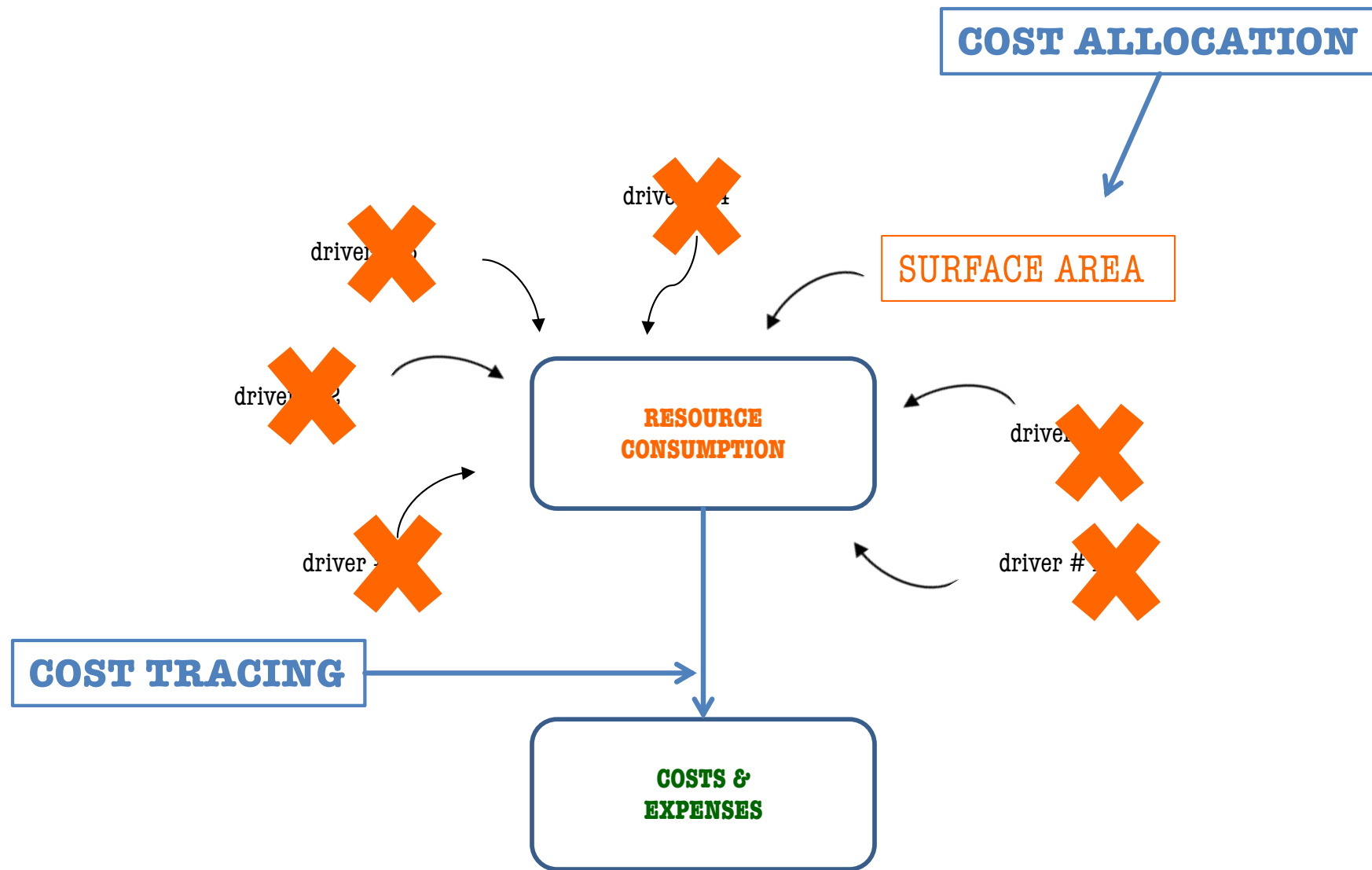
A SIMPLE EXAMPLE – WHAT IS THE DRIVER?



A SIMPLE EXAMPLE – WHAT IF MORE THAN ONE DRIVER EXIST?



COST TRACING VS COST ALLOCATION



CROSSING THE TWO CLASSIFICATION CRITERIA

		Assignment of Costs to Cost Object	
		Direct Costs	Indirect Costs
Cost-Behavior Pattern	Variable Costs	<ul style="list-style-type: none"> • Cost object: BMW X5s produced Example: Tires used in assembly of automobile 	<ul style="list-style-type: none"> • Cost object: BMW X5s produced Example: Power costs at Spartanburg plant. Power usage is metered only to the plant, where multiple products are assembled.
	Fixed Costs	<ul style="list-style-type: none"> • Cost object: BMW X5s produced Example: Salary of supervisor on BMW X5 assembly line 	<ul style="list-style-type: none"> • Cost object: BMW X5s produced Example: Annual lease costs at Spartanburg plant. Lease is for whole plant, where multiple products are produced.

FONTE: Horngren-Datar-Rajan, "Cost Accounting. A Managerial Emphasis", Fourteenth Edition

SOME TAKEAWAY POINTS FROM MODULE # 9

- ❑ A direct cost is a cost that can be unambiguously related to a specific cost-object. To adequately establish whether this relationship exists, it is necessary to observe the link between the resource whose use determines the occurrence of the cost and the cost-object considered. There are two different circumstances in which the existence of an unambiguous relationship such as the one described here can be found.
- ❑ The first is when a resource is used in favour of a single cost object. If a productive factor is used exclusively to serve a single cost-object – and therefore there is a one-to-one link between it and the cost-object – we are undoubtedly faced with a clear, unambiguous relationship: we can therefore say that the cost of using that resource is a direct cost. However, as we will see in a successive moment, not necessary the whole amount of the cost is explained from the level of service offered to the cost-object. It is not said, therefore, that the entire amount of the cost must be assigned to the cost-object.

SOME TAKEAWAY POINTS FROM MODULE # 9

- ❑ A second situation in which the link between a production factor and a specific cost object can be said to be unambiguous is when the consumption relationship linking the resource used to the cost object served can be clearly defined even if the resource is used by different cost objects. This situation occurs when it is possible to measure (in physical terms) the consumption of the resource caused by the level of service rendered to a specific cost-object. Measuring in physical terms the consumption of the resource "caused" by the cost object in fact makes available all the information necessary to establish a clear, unambiguous consumption relationship between the production factor and the object served.
- ❑ However, such a form of measurement is not always technically possible or economically convenient (the costs of measurement exceed the relative benefits). In this case, the consumption relationship remains ambiguous, and the cost of the resource used is defined as "indirect". The term "indirect cost," therefore, indicates the difficulty of specifying a clear, strong, unambiguous link between the cost incurred and the cost object under consideration.

SOME TAKEAWAY POINTS FROM MODULE # 9

- ❑ In the absence of a strong, clear, unambiguous relationship between a set of costs and a specific reference object, there are two possible alternatives in the cost assignment process.
- ❑ The first is to forego the assignment of that set of costs to the cost-object. In this case, therefore, the only costs assigned to the cost object are “direct costs” (those “traced” to the cost object) and, consequently, the margin that is eventually determined for the cost objects themselves is a "direct margin".
- ❑ The second alternative is, instead, to proceed through a process called “cost allocation” to assign a portion of indirect costs to each cost object involved in the process. In this case the allocation takes place using parameters – called allocation bases – which do not directly measure the consumption of the resource, but seek to infer it indirectly, through the adoption of appropriate hypotheses. The “allocation base” is therefore a parameter which is presumed in some way to be able to explain the consumption of a resource, not by measuring it, but by inferring it from concrete occurrences and phenomena which appear to be related to it.

SOME TAKEAWAY POINTS FROM MODULE # 9

- ❑ The cost allocation process is therefore based on an inductive method grounded on assumptions and not on a process of objective measurement of the consumption of the resources. For this reason, it is, at least in part, dangerous. If the assumed hypotheses were to turn out mistaken the portions of cost assigned to the various cost-objects would not reflect the reality. The cost data in such way obtained would be therefore “distorted”, “biased”.
- ❑ The risk is, therefore, that of making decisions on information and data that are not sufficiently “robust”, since they are to be derived based on assumptions that are contradicted by reality.
- ❑ For this reason, then, the process of allocating indirect costs should be avoided whenever their amount is likely to be significant enough to influence the decisions that will be made. In this case, it is worth improving the cost allocation process by taking more measurements and tracing a wider pool of originally indirect costs to the cost-objects.