

Wie zijn wij?



Kurt Rommel

 $Lead\ expert-SAP\ Controlling$

Experienced implementor of controlling models in SAP

- High business integration to setup a correct system
- SME and Public industry
- Standardize controlling systems & Reporting



Ben Reynaert

Lead expert - Finance & Business Controlling

Expert in the area of Management Accounting & Control:

- Management Accounting in line with organizational structures & responsibilities
- Budgeting & Planning processes
- Customer profitability & Cost to serve systems

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Wie zijn jullie?



Tour de table:

- > Wie ben jij?
- > Wat is jouw organisatie?
- > Wat is jouw rol?
- > Wat zijn jouw verwachtingen?
- Wat is jouw grootste uitdaging binnen Controlling?

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ABOUT DELAWARE

delaware is a fast-growing, global company that delivers advanced solutions and services to organizations striving for a sustainable, competitive advantage.

We guide our customers through their business transformation, applying the ecosystems of our main business partners, SAP and Microsoft. We continue to service our customers afterwards, assuring continuity and continuous improvement.

In all perspectives, we apply our own sustainable business model that aims for the long-term. Our future leaders are already among us. They are driving our clients' success, shaping them to stand out today and preparing them for tomorrow.

SUMMARY

HISTORY

Founded in 1981 Has been part of Bekaert, Andersen and Deloitte Management Buy Out with 124 professionals in 2003

RECIPE

Aligning business and technology Combining strengths, delivering solutions Delivering tomorrow, today

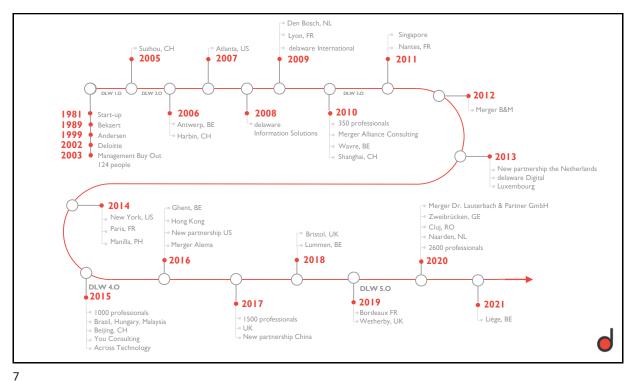
TODAY

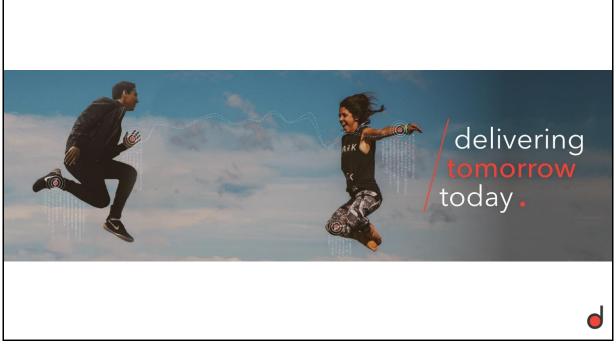
2600 professionals 28 offices 14 countries 4 continents € 330 million revenue

PHILOSOPHY

Entrepreneurship, Care, Respect, Team Spirit, Commitment

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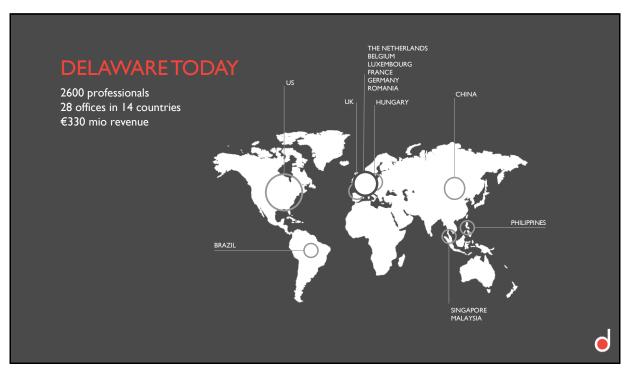


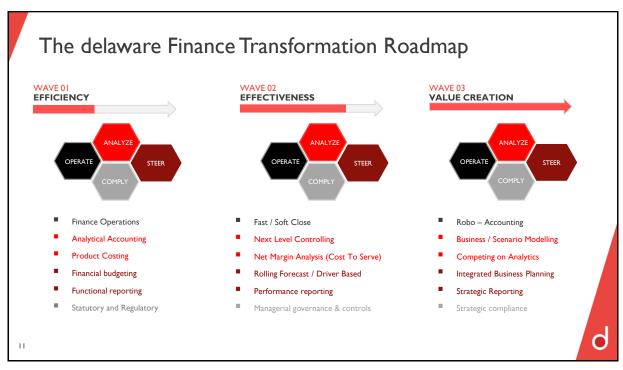
VALUE PROPOSITION

To guide our customers to the top in their respective domains, realizing operational excellence, increasing business insights and improving their own customers' experience



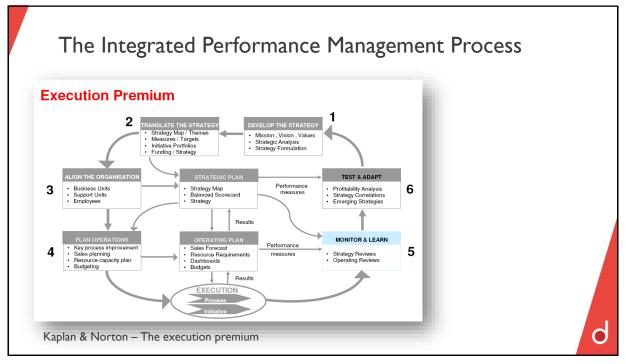
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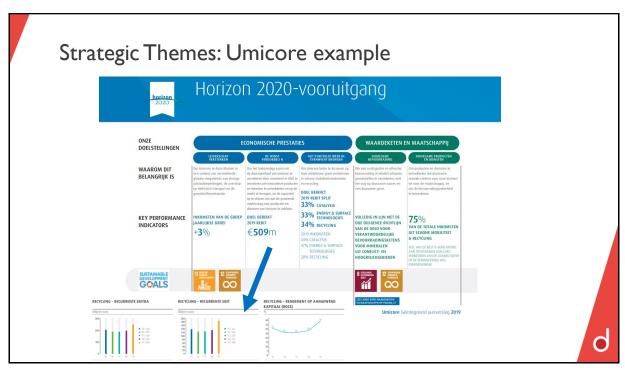


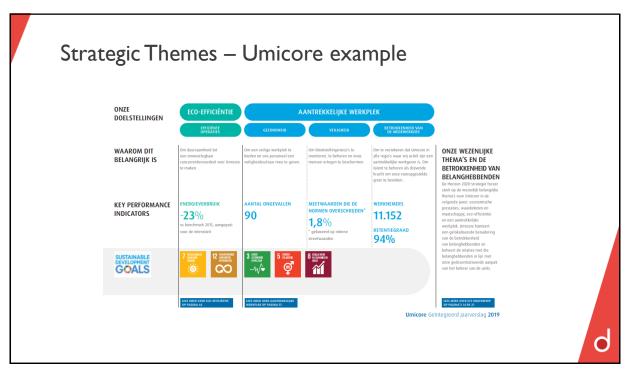












Role of the Controller

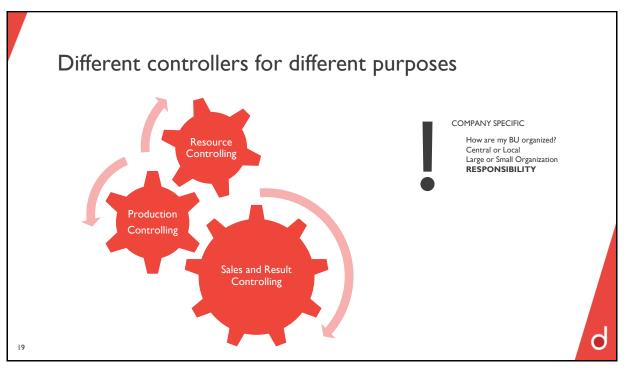
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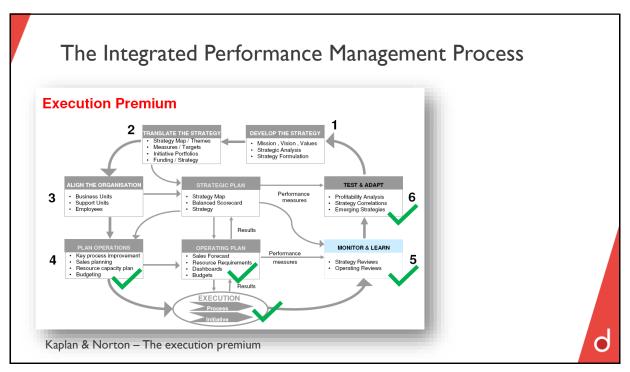
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General role of the Controller

- > Motivate managers for behaviour in line with the strategy
- > Install and maintain best fit management control **structure**
- > Optimize performance management processes and systems
- > Value creation, become an internal business consultant
- > Contributie to **strategy** development
- → Performance Management

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Financial Accounting
Vs
Management Accounting

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Different types – different purposes

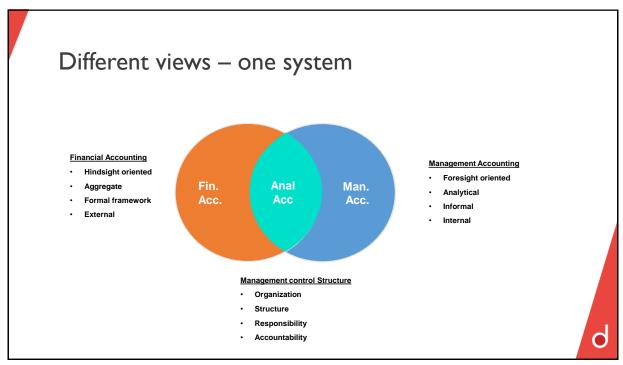
	Financial accounting	Management accounting
Purpose of information		
Primary users		
Focus & emphasis		
Rules of measurement & reporting		
Time span & type of reports		
Behavioral implications		

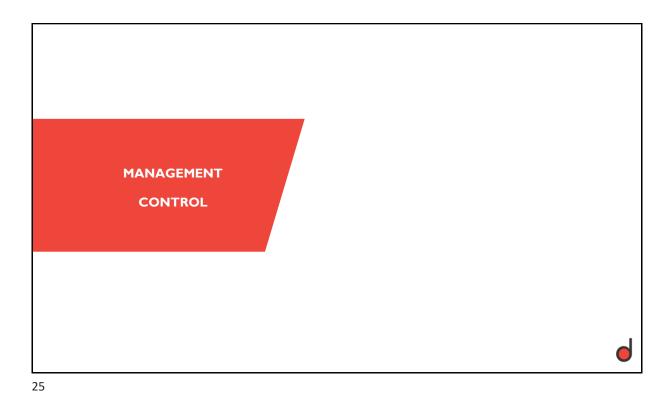
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Different types – different purposes

	Financial accounting	Management accounting	
Purpose of information	Communicate an organization's financial position to investors, banks, regulators,	Help managers make decisions to fulfill an organization's goals	
Primary users	External users such as investors, banks, regulators & suppliers Managers of the organization of the organ		
Focus & emphasis	Past-oriented, Fiscal	Future-oriented, Economic	
Rules of measurement & reporting	Financial statements need to be audited and comply with accounting standards	Internal measures and reports	
Time span & type of reports	Annual & quarterly reports primarily on the company as a whole	Varies from hourly information to forecasts & time series of 10-20 years	
Behavioral implications	Primarily report economic events, but also influences behavior	Designed to influence the behavior of managers & employees	

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3 Pillars of business controlling

Structure Process Culture

MANAGEMENT CONTROL STRUCTURE

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Optimal management control structure



An optimal structure

is one that

contributes maximally to **desired managerial behaviour** and **discourages dysfunctional behaviour.**

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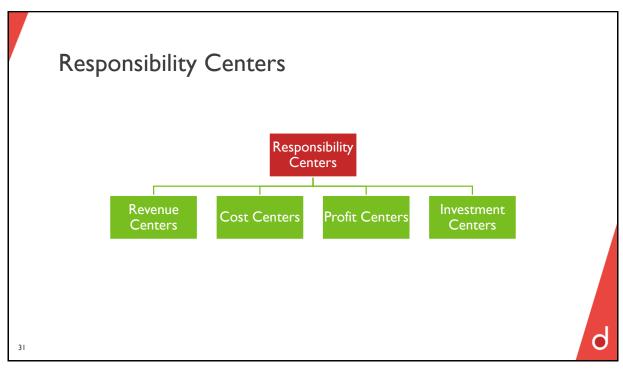
Responsibility Centers

- A responsibility center is any **organizational unit** that is headed by a **responsible** manager.
- A responsibility center exists to accomplish one or more purposes, its objectives.
- Responsibility centers consume resources (inputs) and produce outputs. The task of a responsibility center manager is to improve efficiency and effectiveness.
- Efficiency = outputs/inputs → "doing the things right"
 Effectiveness = how well do outputs contribute to the objectives. → "doing the right things"
- Measurability of inputs and/or outputs determines the nature of responsibility centers.

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Responsibility Centers

- Responsibility
- Authourity
- Controllability
- Accountability



Revenue centers

- > In a revenue center, outputs are measured in monetary terms, but no formal attempt is made to relate inputs or expense to outputs.
- > A good example is the Sales department (cf., sales budgets).
- > No answer as to the profitability of sales

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Cost centers

> Cost centers are responsibility centers for which inputs or expenses are measured in monetary terms, but in which outputs are not measured in monetary terms.

> Engineered Cost Centers

(e.g., Manufacturing Plant)

Costs are engineered when the amount of costs that should be incurred can be specified with a reasonable degree of reliability (e.g., direct labor and material costs in a factory).

Cost efficiency (inputs) versus other aspects of performance (e.g., quality of outputs).

> Discretionary Cost Centers (e.g., R&D)

Cost budget versus actual budget. No monetary measure of efficiency nor effectiveness.

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Profit centers

- > Responsible for both revenues & costs
- > Ouestions to ask:
 - > Which are my business units? → Go to market!
 - > What are their responsibilities?
 - > What are their restrictions?
 - > How can we align their behaviour?
 - > What transfer price system is most useful?
 - > What about corporate overheads?
 - > Who should lead the profit centers, and how will we evaluate and reward them?
 - > How do we set up reporting to help management control?

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Investment Centers

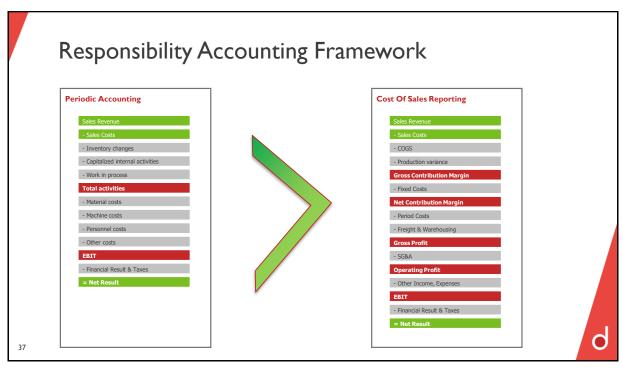
- > Added responsibilities for (part of) the balance sheet
 - > Working capital
 - > Operational assets (Machines, fleet, etc...)
 - > Facilities
 - Liquidity
 - > R&D assets
- > Split between controllable & non-controllable assets
- > Profitability is compared with the assets employed in earning it.
- > Return on Investment is the guiding measure.

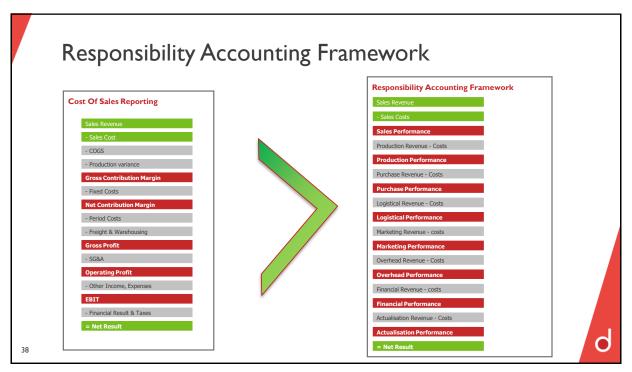
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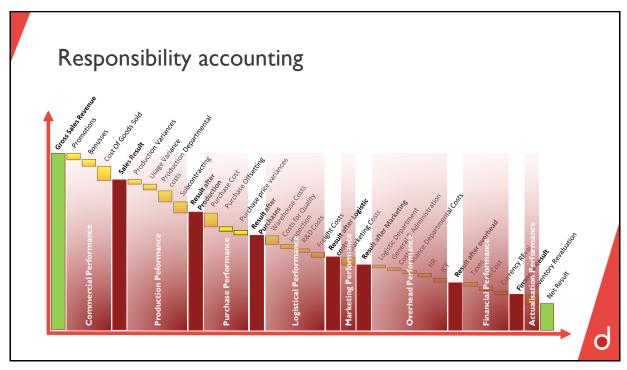
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COÖRDINATION
MECHANISMS

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Responsibility Accounting: An example

product	FP001
Qty Sold	10
Qty Prod	12
Chargeback	5
Lab Cost	5
Machine Cost	5
ОН	3
Std Price	18
Sales Price	30

Periodic Accoun	Periodic Accounting		ing	RAF	
Sales	-300	Sales	-300	Sales Rev	-300
Stock Change	-36	COGS	180	Sales Cost	180
Total Activities	-336	Material	50	Sales Perf	-120
Material	60	Machines	50	Prd Rev	-216
Machines	60	Personnel	50	Prd Cost	216
Personnel	60	Other	30	Prd Result	0
Other	36				
EBIT	-120	Contribution	-120	net result	-120

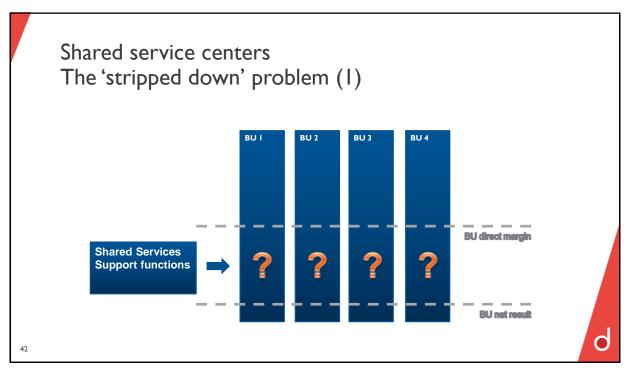
Responsibility Accounting: Hogere materiaalkost

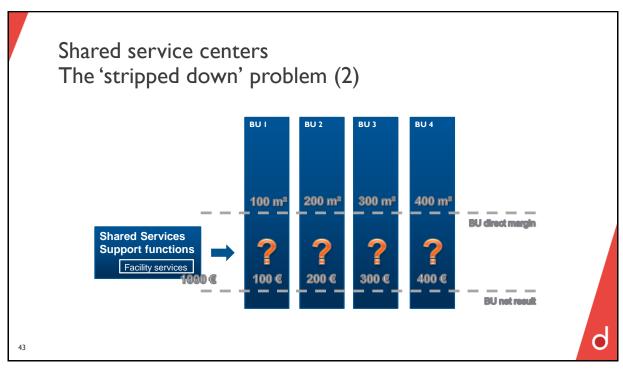
Product	FP001
Qty Sold	10
Qty Prod	12
Material Price	5
Lab Cost	5
Machine Cost	5
ОН	3
Std Price	18
Act Mat Price	6
Sales Price	30

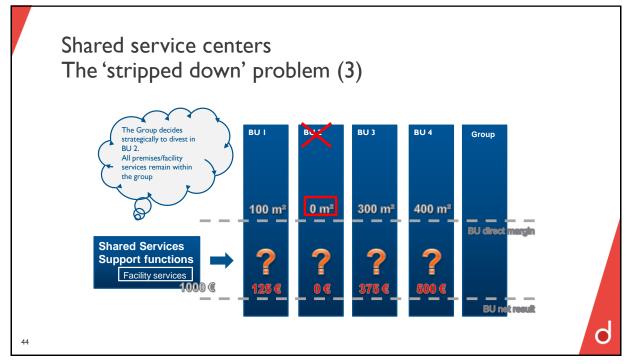
Periodic Accoun	nting	COS Report	ing	RAF	
Sales	-300	Sales	-300	Sales Rev	-300
Stock Change	-36	COGS	180	COGS	180
Total Activities	-336	Material	50	Sales Perf	-120
Material	72	Machines	50	Prd Rev	-216
Machines	60	Personnel	50	Prd Cost	216
Personnel	60	Other	30	Prd Result	0
Other	36	PRD Variance	-12	Purchase Diff	-12
EBIT	-108	Contribution	-108	net result	-108

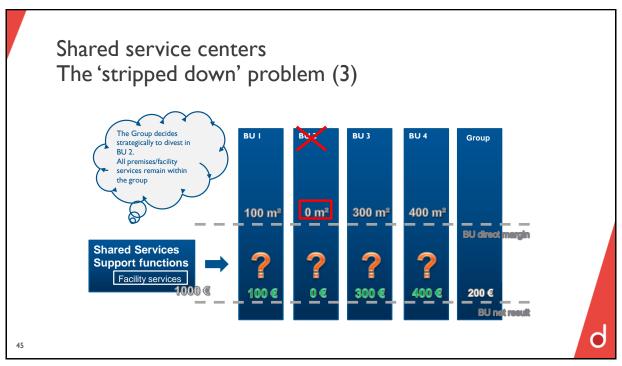
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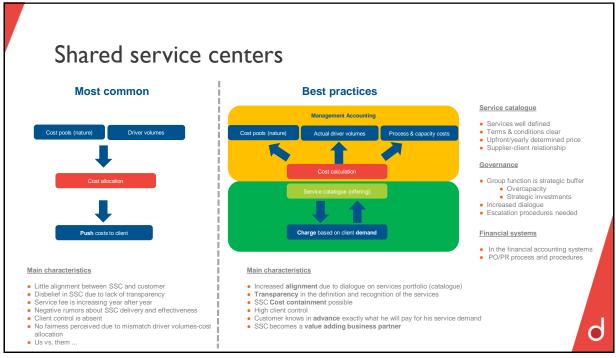
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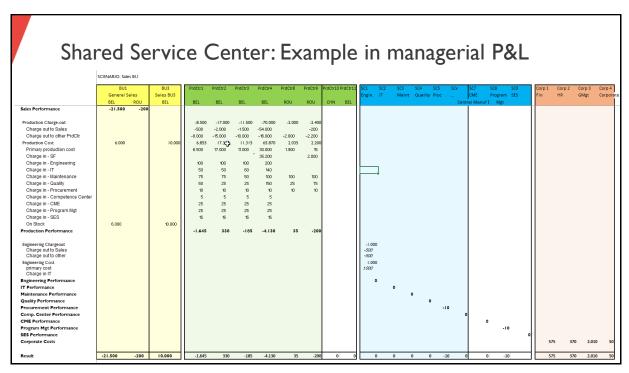


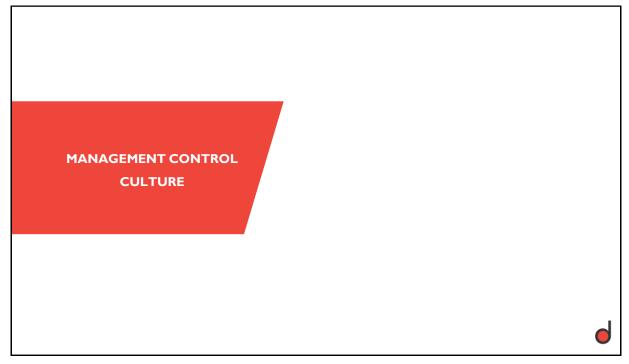


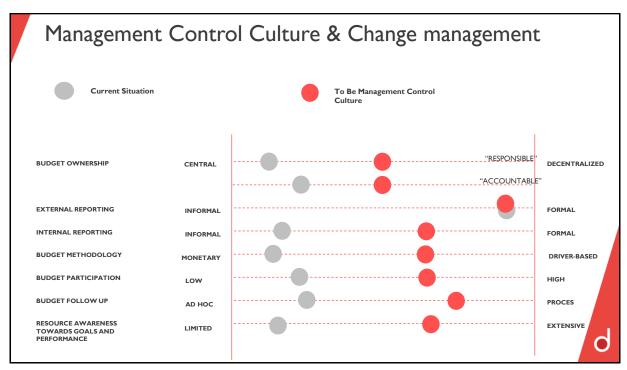




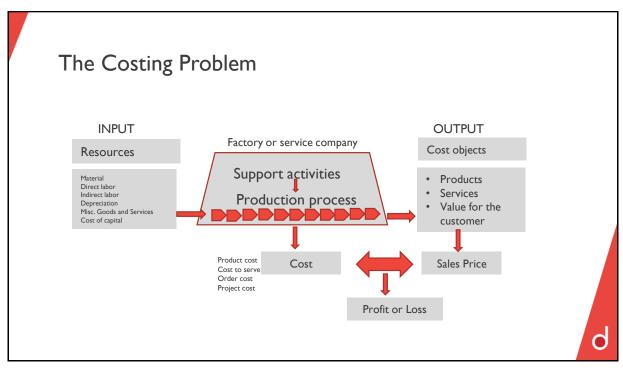








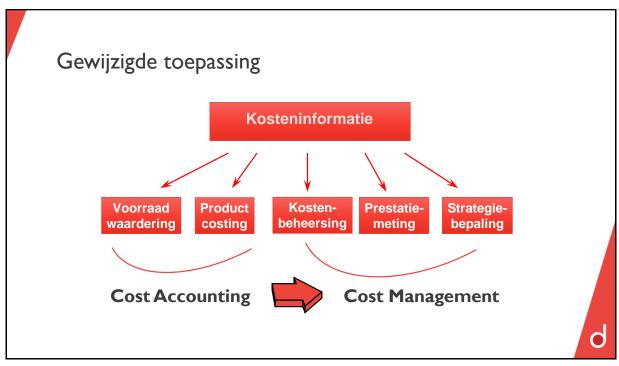




Cost accounting ...

"... is het accumuleren van kosten van productie en/of andere functionele processen, waarbij deze geïdentificeerd worden naar kostobjecten of kostendragers (bv. Producten, diensten of klanten)."

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Terminologie

- **Cost**: the monetary value of a **resource sacrificed (consumed)** when producing a product or delivering a service.
- > **Direct cost:** costs that are related to the cost object and **can be traced** to it in an economically feasible way.
- > Indirect cost: Costs that are related to the cost object but cannot be traced to it in an economically feasible way.
- > Cost allocation: the assigning of indirect costs to the chosen cost object
- > Variable cost: cost that changes in total in proportion to changes in volume
- > Fixed cost: Costs that does not change in total, despite changes in volume

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Cost penavior pattern

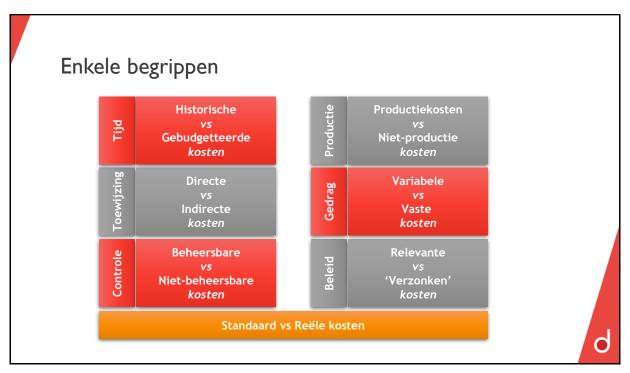
Assignment of costs to cost objects
Direct costs
Indirect costs

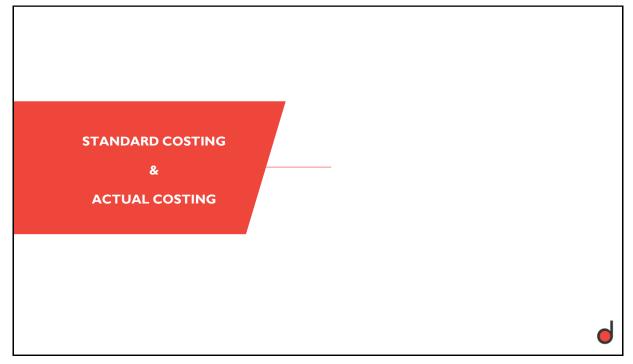
Output

Direct costs
Direct costs
Direct costs
Direct costs
Direct costs

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Voorbeelden Assignment of costs to cost objects Direct costs Indirect costs Variable costs e.g. Material Cost e.g. Energy Cost Cost behavior pattern Indirecte kosten die Directe kosten die onrechtstreeks gelinkt rechtstreeks gelinkt zijn zijn aan productie aan productie (service) Q (service) Q e.g. IT systeem voor e.g. Finance departement Fixed costs specifiek product Direct kosten zijn Indirecte kosten zijn rechtstreeks gelinkt aan onrechtstreeks gelinkt aan de "metric" maar niet de "metric" maar niet variabel variabel





Standard Costing versus Actual Costing

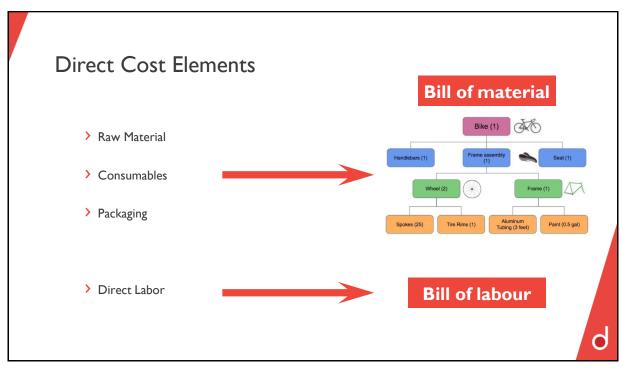
- > **Standard costing:** costing method that traces direct costs to a cost object by using the <u>standard prices</u> or rates times the standard inputs <u>allowed</u> for actual outputs achieved and allocates indirect costs on the basis of the <u>budgeted indirect rates</u> times the standard inputs <u>allowed</u> for the actual outputs achieved.
- > **Actual Costing**: Costing method that traces costs to cost objects based on <u>actual volumes and actual prices.</u>
- > Variance Analysis: identification of inefficient resource usage and spending

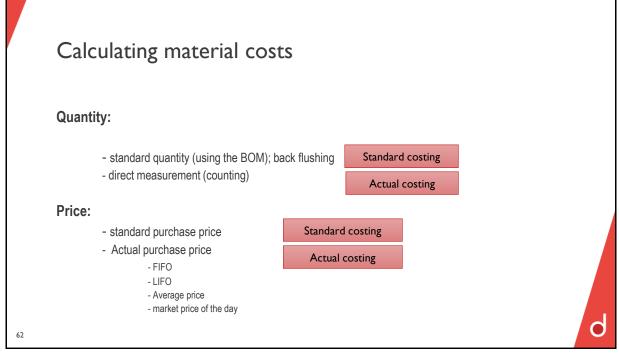
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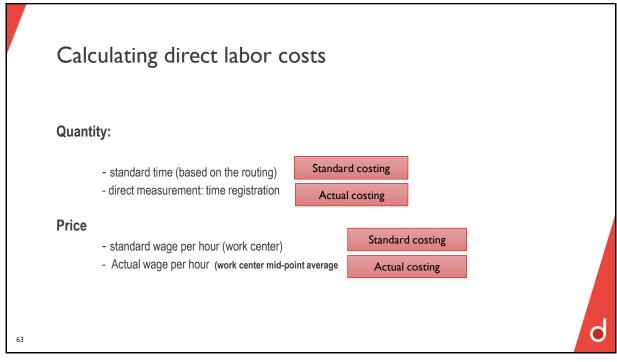
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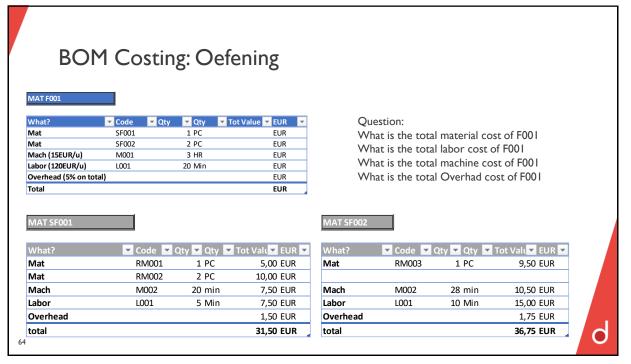
Determination of standards

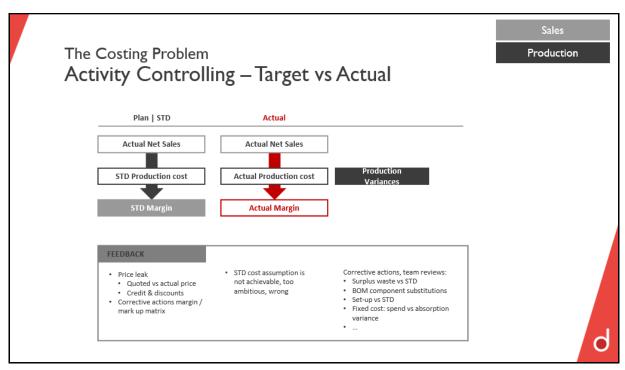
- Average Standards
 - > Avoiding slack in the standards
- Optimized Standards

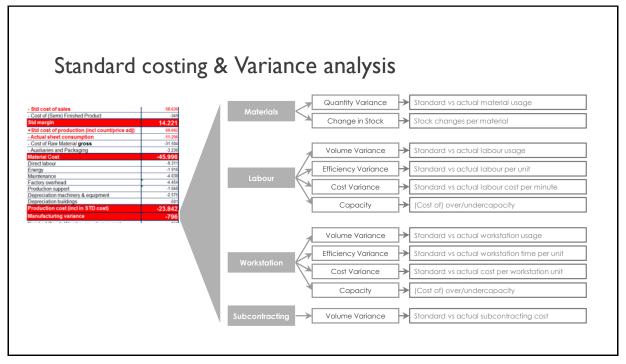












Standard Costing & Production Variance

▼ Code	▼ Target	~	Actual ~	Varian ▼
SF001		31,50	31,50	0,00
SF002		73,50	73,50	0,00
M001		45,00	45,00	0,00
L001		30,00	40,00	10,00
		9,00	9,00	0,00
	1	89,00	199,00	10,00
	SF001 SF002 M001	▼ Code ▼ Target SF001 SF002 M001 L001	▼ Code ▼ Target ▼ SF001 31,50 SF002 73,50 M001 45,00 L001 30,00	Code Target Actual SF001 31,50 31,50 SF002 73,50 73,50 M001 45,00 45,00 L001 30,00 40,00 9,00 9,00 9,00

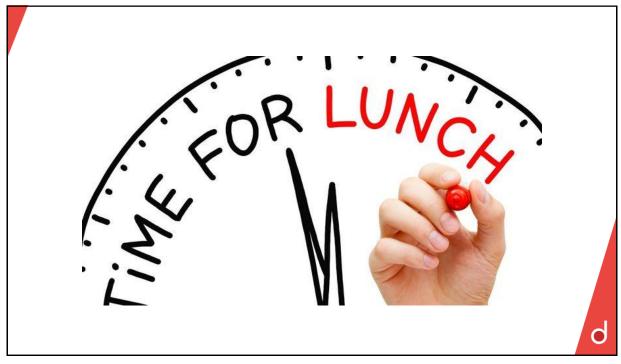
F002		
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What?	▼ Code ▼	Target 🔻	Actual 🔽	Variand▼
Mat	RM003	9,50	9,50	0,00
				0,00
Mach	M002	10,50	8,75	-1,75
Labor	L001	15,00	20,00	5,00
Overhead		1,75	1,75	0,00
total		36,75	40,00	3,25

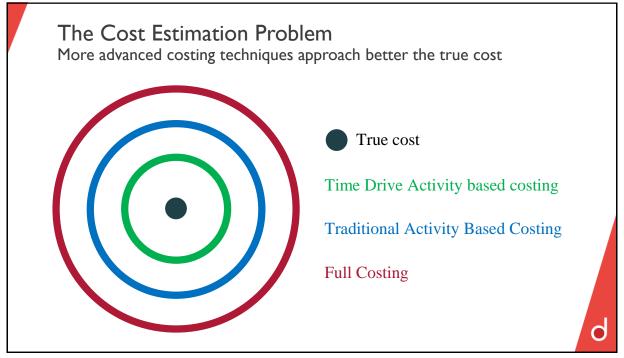
total Variance		
What?	▼ Variance ▼	
Mat	0,00	
Mach SF (2st)	3,50	
Labor SF (2st)	10	
Labor F	10,00	
Overhead	0,00	
Total	10,00	

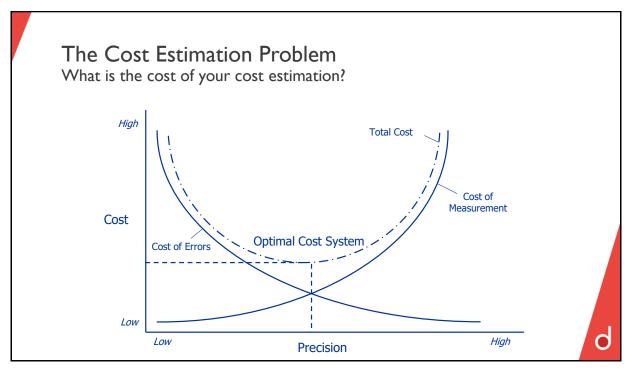
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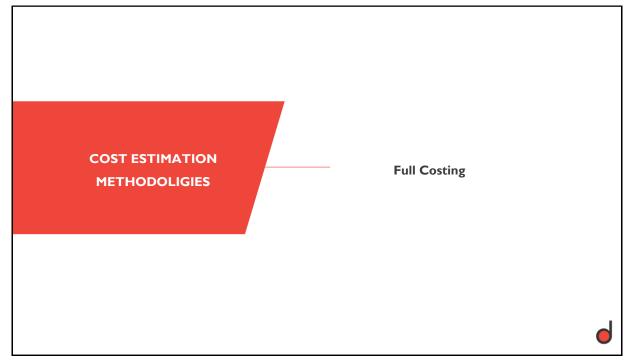
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Full Costing

Overhead costs: 7.500.000 Euro

Production data bookcase

Production data bookcase

Production data wardrobe

Production data wardrobe

 Raw materials
 150 kg/pc
 Raw materials
 75 kg/pc

 Direct labor
 20 h/pc
 Direct labor
 30 h/pc

 Total production
 2.000 pieces
 Total production
 3.000 pieces

Determine the costs that will be allocated to the 2 product groups by using the allocation keys below

	Bookcase	Wardrobe
Key I: Raw Materials		
Key 2: Labor hours		
Key 3: Output		

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Full Costing

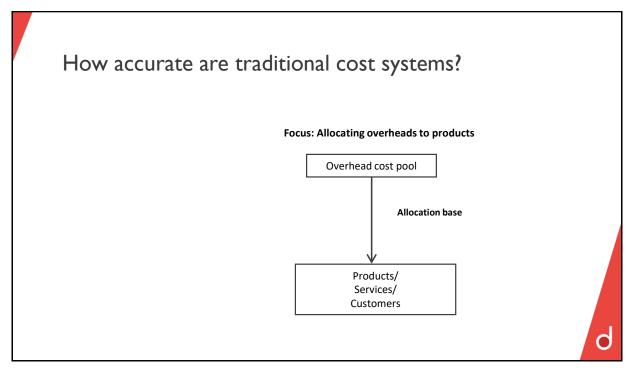
Overhead costs: 7.500.000 Euro

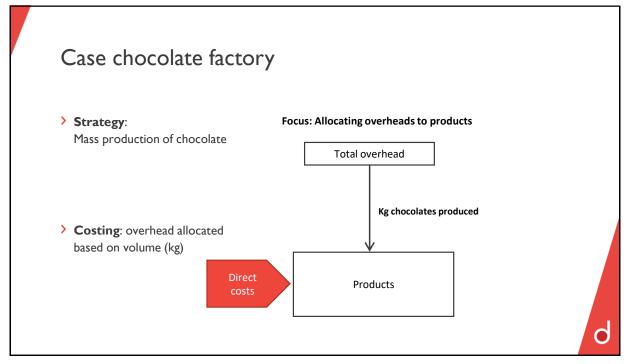
Raw materials150 kg/pcRaw materials75 kg/pcDirect labor20 h/pcDirect labor30 h/pcTotal production2.000 piecesTotal production3.000 pieces

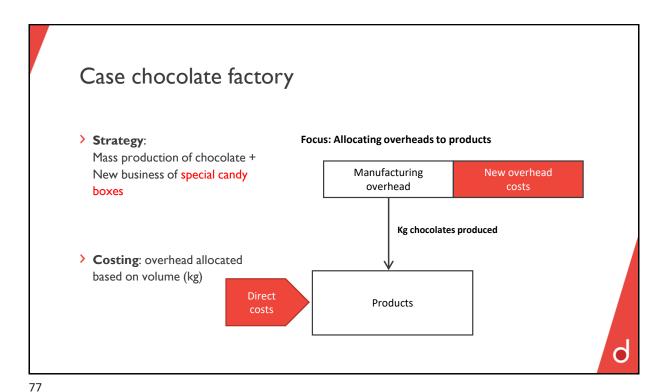
What if our Sales Price is € 1.500?

	Rate	Bookcase	Wardrobe
Key I: Raw Materials	€ 14,29	€ 2 142,86	€ 1 071,43
Key 2: Labor hours	€ 57,69	€ 1 153,85	€ 1 730,77
Key 3: Output	€ 1 500.00	€ 1 500.00	€ 1 500.00

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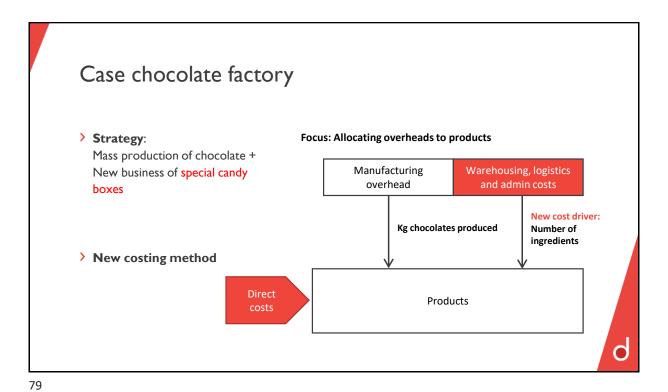




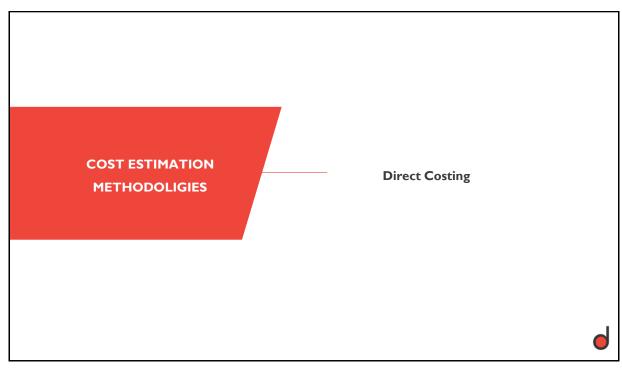


Case chocolate factory > Strategy: Focus: Allocating overheads to products Mass production of chocolate + Manufacturing New overhead New business of special candy overhead boxes Kg chocolates produced > Costing: overhead allocated Biased cost estimates: based on volume (kg) Overestimation of the Products cost of chocolates Underestimation of the cost of complex candy boxes

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"Indirekte kosten moeten verdeeld worden"
elke kost moet naar een kostenobject
er moeten verdeelsleutels zijn
verdeelsleutels zijn belangrijk
Discussies over verdeelsleutels
Te veel intern gericht
Te weinig klant & leverancier gericht



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How much do we ne	ed to sell to be pro	fitable?
Revenue	16.000.000	100 %
Variable costs	12.000.000	75 %
Contribution	4.000.000	25 %
Fixed costs	3.000.000	
Minimum rev	venue (Break-Even)	

Direct costing

How much do we need to sell to be profitable?

Revenue	16.000.000	100 %
Variable costs	12.000.000	75 %
Contribution	4.000.000	25 %
Fixed costs	3.000.000	
Target profit	1.500.000	

Minimum revenue (Break-Even)

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Direct costing

Supermarket-case

	<u> </u>	
Product group	Mix	Contribution
Non-food	25 %	30 %
Health & Beauty	5 %	25 %
Food	60 %	15 %
Beverages	10 %	27,5 %
	100 %	1

Fixed costs

Employees	3.500.000
Depreciations facility	1.125.000
General fixed costs	500.000
	5.125.000

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Direct costing

Supermarket-case

Average contribution =

 $(25 \% \times 30 \%) + (5 \% \times 25 \%) + (60 \% \times 15 \%) + (10 \% \times 27,5 \%) = 20,5 \%$

Minimum break-even revenue =

5.125.000 / 20,5 % = 25.000.000

Product group	Mix	Minimum revenue
Non-food	25 %	6.250.000
Health & Beauty	5 %	1.250.000
Food	60 %	15.000.000
Beverages	10 %	2.500.000

25.000.000

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Direct costing: use of cost information for commercial decision making

Direct Costs

- Material	20
- Labor	20
- Other	10
+ Allocated overhead	_30
= Full Cost	80
+ Profit margin 20%	16
= Sales Price	96

Consider the opportunity of a customer order:

- 1000 additional units
- but the customer only can pay 70€

Do we want to accept the order?

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Direct costing paradigm

Sales Price	70
Variable Costs	
- Material	20
- Direct Labor costs	20
- Other variable costs	10
Variable Cost	50
Contribution	20

Direct Costing: decision: Accept the order
The order generates additional revenue of 70€ and a variable cost of 50€ per unit
The order generates contribution to the overhead of 20€ per unit
Potential opportunity loss: 20 x 1000 = 20 000 €

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Direct costing paradigm

Optimal conditions:

- > It is a short term decision
- > Availability of unused capacity
- > There is no unfavorable impact on other parts of the business
- > We deal with a separate market or the market is not transparent

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"Indirekte kosten zijn vast en moeten gedekt worden"







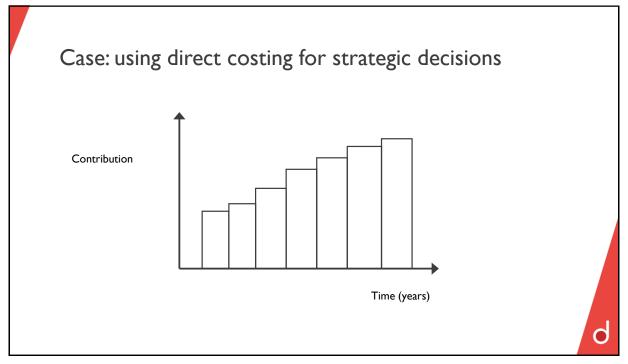




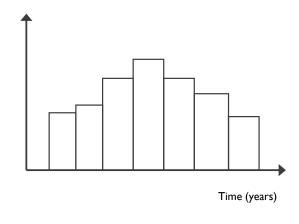
Niet relevant voor strategische beslissingen

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Strategic profitability management

- In the long term all cost are variable
- > Costs are driven by cost drivers

Net-Profit

- > Some products/services/customers drive more costs than others
- > The long run profitability is the difference between the price and the long run driven cost
- Companies that choose strategies that drive more costs than revenues destroy long term profitability
- > Need to know the long run driven cost: back to full costing?
- > Traditional costing is unable to provide the long run driven cost

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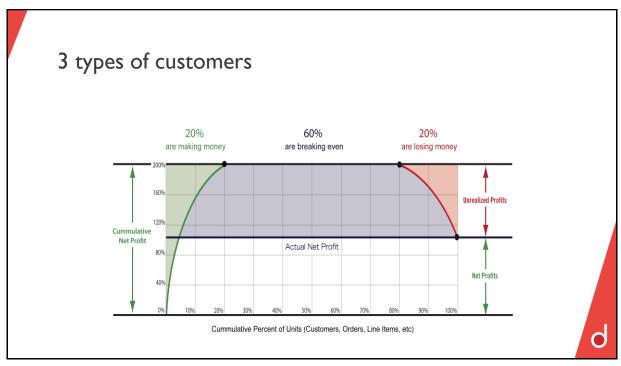
COST ESTIMATION METHODOLIGIES Customer profitability through Activity Based Costing Managing Strategic Profitability Long Term Profit Management

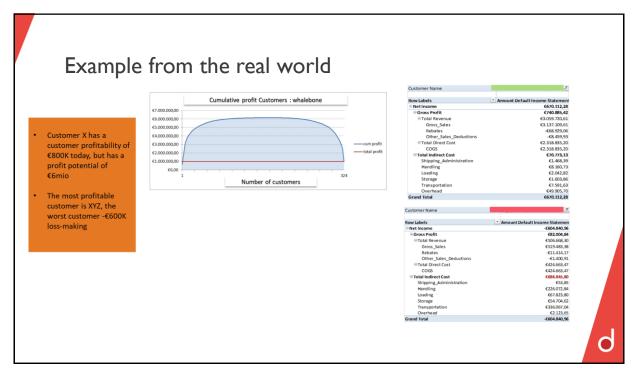
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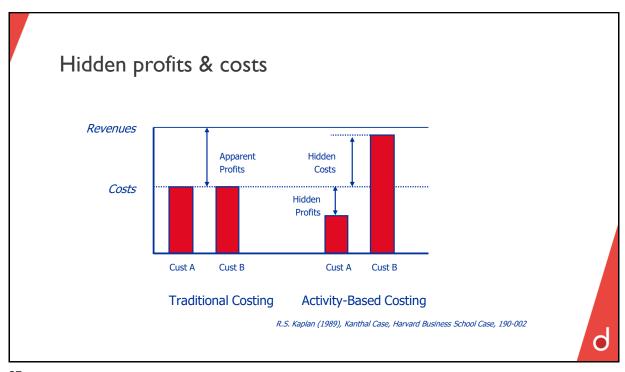
Customer profitability?

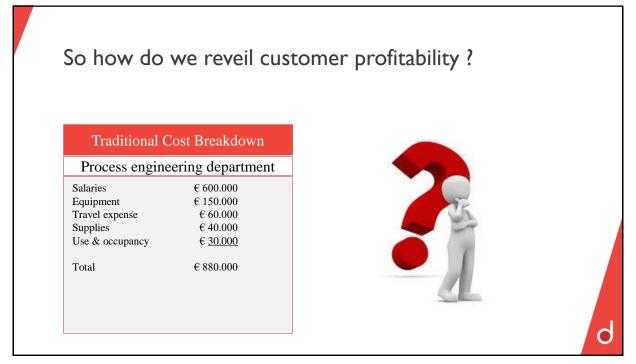
- > Goal:
 - > Identify relative profitability of different customers or customer segments
- > Design strategies to:
 - > Add value to most profitable customers
 - > Increase profitability for less profitable customers
 - > Stop profit erosion from unprofitable customers

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So how do we reveil customer profitability?

Activity-based costing unbundles the traditional cost view and restates costs in the way resources are consumed

Traditional Cost Breakdown

Process engineering department

 $\begin{array}{lll} \text{Salaries} & & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$

Total € 880.000

Activity-Based view

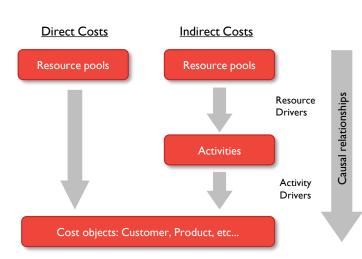
Process engineering department

€ 31.500 Create BOM's Maintain BOM's € 121.000 Create routings € 32.500 Maintain routings € 101.500 € 83.000 Process special orders Improve processes € 45.000 Study capacities € 119.000 Design tooling € 145.500 Train employees € 43.000 Administer department € 158.000 Total € 880.000

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Cost to serve



Cost-to-Serve is the process analysis of all activities and costs incurred to fulfill customer demand for a product or service through the supply chain. This includes sales, order fulfilling, customer support, customer service and other customer identifiable costs.

(Martin, Arino 2016 MIT)

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Cost to serve

Activities of the department Order Entry

- Order intake
- > Customer complaint follow up
- > Credit check of customers

Activity Based Costing systems

- I. Identify the resource pools
- 2. Assign the resource pools to activities
- 3. Determine driver volume
- 4. Calculate the cost per unit "cost driver"

Activity	%	Assigned costs	Driver volume	Cost per unit "cost driver"
Order intake	70%	€ 392 000	7 000	€ 56/order
Customer complaint follow up	10%	€ 56 000	200	€ 280/complaint
Credit check of customers	20%	€ 112 000	350	€ 320/check-up
TOTAL	100%	€ 560 000		

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Diversity and complexity **High Cost-to-Serve Customers Low Cost-to-Serve Customers** I. Order custom products I. Order standard products 2. Small order quantities 2. High order quantities 3. Unpredictable order arrivals 3. Predictable order arrivals 4. Customised delivery 4. Standard delivery 5. Change delivery requirements 5. No changes in delivery requirements 6. Manual processing 6. Electronic processing (EDI) 7. Large amounts of pre-sales support (marketing, 7. Little to no pre-sales support (standard pricing and ordering) technical and sales resources) 8. Little inventory support required 8. Require specialised inventory Pay slowly (high accounts receivable) 9. Pay on time 10. No post-sales support 10. Large amounts of post-sales support (installation, training, warranty, field service) 104

Business transformation actions → Activity based management

Operational Activity Based Management

- > Performing activities more efficiently
- Doing the things right
 - > Activity management
 - > Business Process re-engineering
 - > Total quality management
 - > Performance management

Strategic Activity Based Management

- > Choosing the activities to perform
- Doing the right things
 - > Product / Customer Mix
 - > Customer relationships & behavior
 - > Customer segmentation
 - > Distribution channels
 - > Supplier relationships

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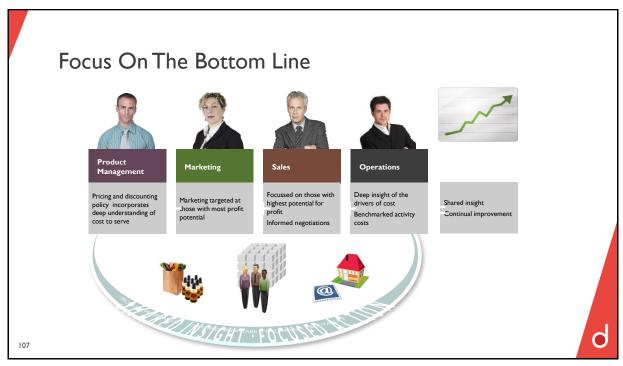
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Siloed Metrics Can Hurt Overall Performance



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Gartner on "Cost-To-Serve"

- > "Analysis that calculates the profitability of products, customers and routes to market, and provides a fact-based focus for decision making on service mix and operational changes for each customer.
- Many companies would like to understand how specific customer requirements drive supply chain costs, but they often struggle to obtain and transform the data required to perform this type of analysis.
- > Cost-To-Serve models are an increasingly used capability to drive supply chain improvements and customer value sharing opportunities."

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Problems with traditional ABC

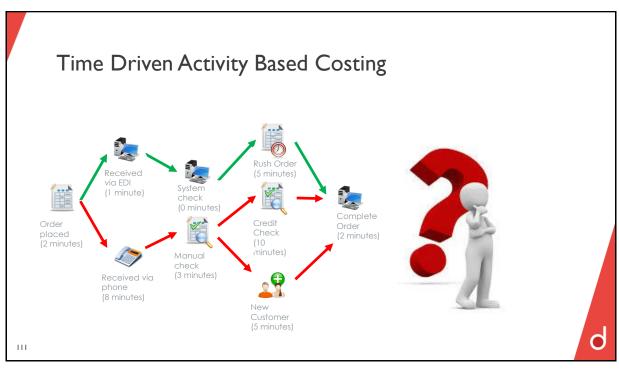
- > Hidden cost of unused capacity
 - > Need for accurate resource used costing
- Maintainability / resource intensive
 - > Need for continuous resource allocation alignment with activity output
- > Not scalable
 - > Complexity Accuracy → Averages upon averages!
 - > Multiple factors influence the used resources
 - > e.g. Invoicing
 - > No multi-dimensional approach of cost objects (Customers, Products, Orders, Deliveries Transactions...)

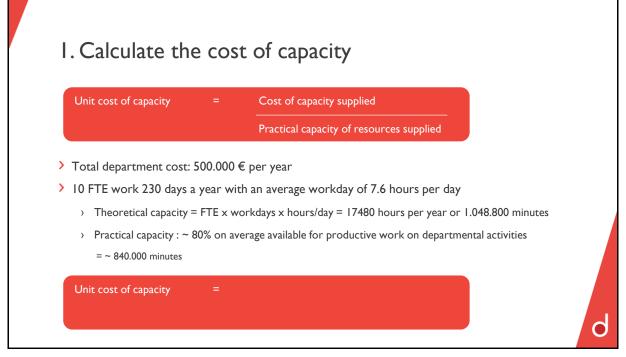
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COST ESTIMATION METHODOLIGIES

TIME DRIVEN ACTIVITY
BASED COSTING





1. Calculate the cost of capacity

Unit cost of capacity = Cost of capacity supplied

Practical capacity of resources supplied

- > Total department cost: 500.000 € per year
- > 10 FTE work 230 days a year with an average workday of 7.6 hours per day
 - > Theoretical capacity = FTE x workdays x hours/day = 17480 hours per year or 1.048.800 minutes
 - Practical capacity: ~ 80% on average available for productive work on departmental activities
 = ~ 840.000 minutes

Unit cost of capacity = 500.000 € = 0.6 € per minute 840.000 minutes

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2. Estimate the time required to perform each activity

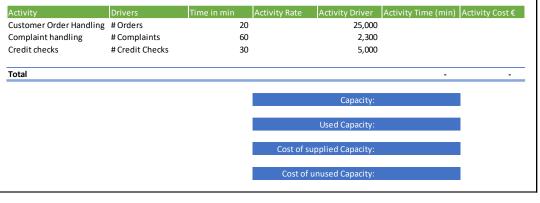
Customer Order Handling: 20 minutes per order

Customer Complaint Handling: 60 minutes per complaint

Customer Credit Check 30 minutes per check

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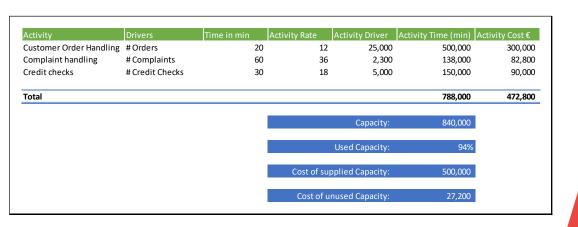
3. Calculate cost estimates for the department



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3. Calculate cost estimates for the department



4. Calculate cost of customer service per customer

Customer I places 100 orders per year, files complaints on half of them and requires 12 credit checks per year...

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4. Calculate cost of customer service per customer

> Customer I places 100 orders per year, files complaints on half of them and requires 12 credit checks per year...

Activity	Drivers	Time in min	Activity Rate	Activity Driver	Activity Time (min)	Activity Cost €
Customer Order Handling	# Orders	20	12	100	2,000	1,200
Complaint handling	# Complaints	60	36	50	3,000	1,800
Credit checks	# Credit Checks	30	18	1	30	18
Total					5,030	3,018

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5. Handling complexity

- De activiteit 'orderverwerking', wordt uitgevoerd door een team medewerkers met een capaciteitskost van 0.6 € per minuut
- Veronderstel
 - > Alle orders vragen 10 minuten administratie tijd
 - > Elke orderlijn ingave duurt 2 minuten
 - > Goederen die uit stock zijn vragen 8 minuten extra tijd per product
 - > Spoedorders vragen 5 minuten extra verwerkingstijd
 - > Voor klanten uit het Verenigd Koninkrijk moet een extra formulier ingevuld worden ter declaratie aan de douane wat 30 min in beslag neemt.
- > Klant X uit Londen plaatst een spoedorder met 2 orderlijnen, waarvan 1 product niet in voorraad is. Hoeveel bedraagt de kost van de orderverwerking?

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5. Handling complexity: Time equations

Order Handling time =

10 min

- + 2 min x [#Orderlines]
- + 8 min x [#OutOfStock]
- + 5 x [if rush order]
- + 30 x [if UKCustomer]

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Time Driven Activity Based Costing Traditionele ABC benadering Middelen Activiteiten Kostobiecten Personeelskosten Afdeling Debiteurenadministratie Boeken Belgische facturen Onderzoeksproject X Onderzoeksproject Y 30 % Boeken buitenlandse facturen onderbouwde schatting tot transactie Time-driven ABC gedreven Middelen Activiteiten Kostobjecten Personeelskosten Afdeling Debiteurenadministration Boeken van facturen Onderzoeksproject X Onderzoeksproject Y Voorbeeld tijdsvergelijking obv transacties: als EU=5min; anders 15 min

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Main Differences between ABC & TDABC



- In Traditional Activity Based Costing, employees are asked to allocated 100% of their time over the various activities they
 perform over a representative time period (a quarter, a full year,...);
- In Time Driven Activity Based Costing, employees are asked how much time an activity typically takes (so not their % of time for doing this activity).



- Activities, transactions etc can vary considerably based on their specificities. For example claim notification can be done by mail or by phone or through the internet.
- In Traditional Activity Based Costing, this requires expanding your activity dictionary so each possible variation is a separate
 activity (ie you would have 3 activities and staff would have to register time against all three of them)
- In Time Driven Activity Based Costing, there is no need for such an expansion, the variation is included in the time equation, cfr below example:

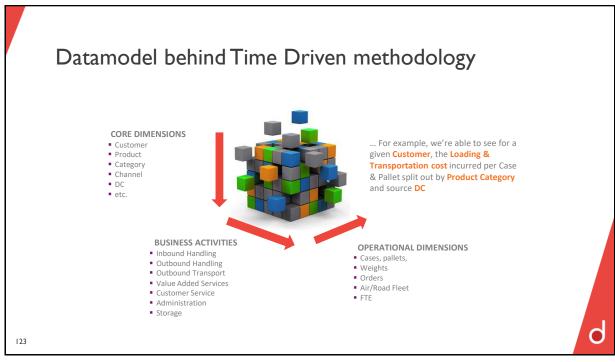
Claim notification handling time (minutes) = 5 minutes + 10 (if by mail) + 15 (if by phone)



- With traditional ABC insight into used and unused capacity is not available as 100% of FTE time is distributed across all the
 activities (both used and unused capacity).
- Time driven ABC explicitly takes into account the capacity views and thus provides immediate insight in (un)used capacity

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Time Driven ABC

- > Fast implementation track
- Scalability
- Accuracy
- Lower cost to maintain than tradional ABC
- Proven methodology

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C2S – critical success factors

- **>** Focus
 - > Clearly defined and agreed upon project plan and scope
- > Strong executive support
 - Accurate, consistent profitability information at multiple levels is pointless if no business transformation process is embedded in approach
- Data
 - > Clean validated financial data
 - > IT support and commitment to actively participate
- Pragmatic
 - > Minimize number of activities create a foundation and add increasing levels of detail in future phases

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COST ESTIMATION METHODOLIGIES COST TO SERVE Actionable insights

Profitability Management (1)

ID	Financial P&L	
Name	Spending	
TOTAL REVENUE	300.000,00	100,00%
* FINANCIERING KLANTENKREDIET	4.100,00	1,37%
KLANTENKORTING	7.000,00	2,33%
Total Direct Cost	11.100,00	3,70%
GROSS PROFIT	288.900,00	96,30%
Front office	105.000,00	35,00%
Mid office	30.000,00	10,00%
Back office	140.000,00	46,67%
R&D	20.000,00	6,67%
Marketing & acquisitie	15.500,00	5,17%
PROFIT	-21.600,00	-7,20%

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Profitability Management (2)

D	Managerial P&L		Financial P&L		% usage/spending	Cost of overcapacity
łame	Usage		Spending		Horizontal	
OTAL REVENUE	300.000.00	100.00%	300.000.00	100.00%		
FINANCIERING KLANTENKREDIET	4,100,00	1,37%	4,100,00	1,37%		
CLANTENKORTING	7.000,00	2,33%	7.000,00	2,33%		
Total Direct Cost	11.100,00	3,70%	11.100,00	3,70%		
GROSS PROFIT	288.900,00	96,30%	288.900,00	96,30%		
ront office	107.000,00	35,67%	105.000,00	35,00%	101,90%	-2.000,00
1id office	23.000,00	7,67%	30.000,00	10,00%	76,67%	7.000,00
Back office	120.000,00	40,00%	140.000,00	46,67%	85,71%	20.000,00
R&D	20.000,00	6,67%	20.000,00	6,67%		
Marketing & acquisitie	15.500,00	5,17%	15.500,00	5,17%		
PROFIT	3.400.00	1,13%	-21.600.00	-7,20%		I

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Profitability Management (3)

ID Name	A Total Product		B Total Product		Managerial P&L Usage	
	rrounce		rrounce		osage	
TOTAL REVENUE	120.000,00	100,00%	180.000,00	100,00%	300.000,00	100,00%
* FINANCIERING KLANTENKREDIET	2.500,00	2,08%	1.600,00	0,89%	4.100,00	1,37%
KLANTENKORTING	5.000,00	4,17%	2.000,00	1,11%	7.000,00	2,33%
Total Direct Cost	7.500,00	6,25%	3.600,00	2,00%	11.100,00	3,70%
GROSS PROFIT	112.500,00	93,75%	176.400,00	98,00%	288.900,00	96,30%
Front office	33.000,00	27,50%	74.000,00	41,11%	107.000,00	35,67%
Mid office	15.000,00	12,50%	8.000,00	4,44%	23.000,00	7,67%
Back office	50.000,00	41,67%	70.000,00	38,89%	120.000,00	40,00%
R&D	0,00	0,00%	20.000,00	11,11%	20.000,00	6,67%
Marketing & acquisitie	500,00	0,42%	15.000,00	8,33%	15.500,00	5,17%
PROFIT	14.000,00	11,67%	-10.600,00	-5,89%	3.400,00	1,13%

Profitability Management (4)

ID	X1		Y1			Managerial P&L	
Name	Klantengroep		Klantengroep Y			Usage	
					T		
TOTAL REVENUE	70.000,00	100,00%	230.000,00	100,00%		300.000,00	100,00%
* FINANCIERING KLANTENKREDIET	900,00	1,29%	3.200,00	1,39%		4.100,00	1,37%
KLANTENKORTING	1.500,00	2,14%	5.500,00	2,39%		7.000,00	2,33%
Total Direct Cost	2.400,00	3,43%	8.700,00	3,78%		11.100,00	3,70%
GROSS PROFIT	67.600,00	96,57%	221.300,00	96,22%		288.900,00	96,30%
Front office	25.000,00	35,71%	82.000,00	35,65%		107.000,00	35,67%
Mid office	5.000,00	7,14%	18.000,00	7,83%		23.000,00	7,67%
Back office	22.000,00	31,43%	98.000,00	42,61%		120.000,00	40,00%
R&D	5.000,00	7,14%	15.000,00	6,52%		20.000,00	6,67%
Marketing & acquisitie	15.500,00	22,14%	0,00	0,00%		15.500,00	5,17%
PROFIT	-4.900,00	-7,00%	8.300,00	3,61%		3.400,00	1,13%

Profitability Management (5)

ID	X1		Y1		1	Managerial P&L	
Name	Klantengroep		Klantengroep Y		ı	Usage	
TOTAL REVENUE	70.000,00	100,00%	230.000,00	100,00%		300.000,00	100,00%
* FINANCIERING KLANTENKREDIET	900,00	1,29%	3.200,00	1,39%		4.100,00	1,37%
KLANTENKORTING	1.500,00	2,14%	5.500,00	2,39%		7.000,00	2,33%
Total Direct Cost	2.400,00	3,43%	8.700,00	3,78%		11.100,00	3,70%
GROSS PROFIT	67.600,00	96,57%	221.300,00	96,22%		288.900,00	96,30%
Front office	25.000,00	35,71%	82.000,00	35,65%		107.000,00	35,67%
Mid office	5.000,00	7,14%	18.000,00	7,83%		23.000,00	7,67%
Back office	22.000,00	31,43%	98.000,00	42,61%		120.000,00	40,00%
Cost to Serve	52.000,00	74,29%	198.000,00	86,09%		250.000,00	83,33%
OPERATIONAL RESULT	15.600,00	22,29%	23.300,00	10,13%		38.900,00	12,97%
R&D	5.000,00	7,14%	15.000,00	6,52%		20.000,00	6,67%
Marketing & acquisitie	15.500,00	22,14%	0,00	0,00%		15.500,00	5,17%
PROFIT	-4.900,00	-7,00%	8.300,00	3,61%		3.400,00	1,13%

Profitability Management (6)

ID	X1		A Total		B Total	
Name	Klantengroep		Service		Service	
TOTAL REVENUE	70,000,00	100.00%	20,000,00	100,00%	50.000.00	100.00%
* FINANCIERING KLANTENKREDIET	900,00	1,29%	500,00	2,50%	400,00	0,80%
KLANTENKORTING	1.500,00	2,14%	1.000,00	5,00%	500,00	1,00%
Total Direct Cost	2.400,00	3,43%	1.500,00	7,50%	900,00	1,80%
GROSS PROFIT	67.600,00	96,57%	18.500,00	92,50%	49.100,00	98,20%
Front office	25.000,00	35,71%	6.000,00	30,00%	19.000,00	38,00%
Mid office	5.000,00	7,14%	3.000,00	15,00%	2.000,00	4,00%
Back office	22.000,00	31,43%	8.000,00	40,00%	14.000,00	28,00%
Cost to Serve	52.000,00	74,29%	17.000,00	85,00%	35.000,00	70,00%
OPERATIONAL RESULT	15.600,00	22,29%	1.500,00	7,50%	14.100,00	28,20%
R&D	5.000,00	7,14%	0,00	0,00%	5.000,00	10,00%
Marketing & acquisitie	15.500,00	22,14%	500,00	2,50%	15.000,00	30,00%
PROFIT	-4.900,00	-7,00%	1.000,00	5,00%	-5.900,00	-11,80%

ID	Y1		A Total		B Total	
Name	Klantengroep Y		Service		Service	
TOTAL REVENUE	230.000,00	100,00%	100.000,00	100,00%	130.000,00	100,00%
* FINANCIERING KLANTENKREDIET	3.200,00	1,39%	2.000,00	2,00%	1.200,00	0,92%
KLANTENKORTING	5.500,00	2,39%	4.000,00	4,00%	1.500,00	1,15%
Total Direct Cost	8.700,00	3,78%	6.000,00	6,00%	2.700,00	2,08%
GROSS PROFIT	221.300,00	96,22%	94.000,00	94,00%	127.300,00	97,92%
Front office	82.000,00	35,65%	27.000,00	27,00%	55.000,00	42,31%
Mid office	18.000,00	7,83%	12.000,00	12,00%	6.000,00	4,62%
Back office	98.000,00	42,61%	42.000,00	42,00%	56.000,00	43,08%
Cost to Serve	198.000,00	86,09%	81.000,00	81,00%	117.000,00	90,00%
OPERATIONAL RESULT	23.300,00	10,13%	13.000,00	13,00%	10.300,00	7,92%
R&D	15.000,00	6,52%	0,00	0,00%	15.000,00	11,54%
Marketing & acquisitie	0,00	0,00%	0,00	0,00%	0,00	0,00%
PROFIT	8,300,00	3,61%	13.000.00	13,00%	-4,700,00	-3,62%

C2S - P&L From a Customer Perspective

CUSTOMER	R 10271	
	1 000	
Pocket Price Leakage		
Cost of Goods Sold		
Gross Margin		
EBITDA	230	
= = = = = = = = = = = = = = = = = = =	= = = = 10	
Picking & Loading	30	

CUSTOMER	R 16351	
Revenues		
Pocket Price Leakage	275	
	132	
Cost of Goods Sold	330	
Gross Margin	363	
	220	
EBITDA	143	
= = = = = = = = = = = = = = = = = = =	= = = : 22	
Picking & Loading	66	
Storage		

- Similar Revenue
 Customer, but significant
 difference on EBITDA
 P&L.
- CTS solution can provide this report in a timely manner for strategic decision-making.

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