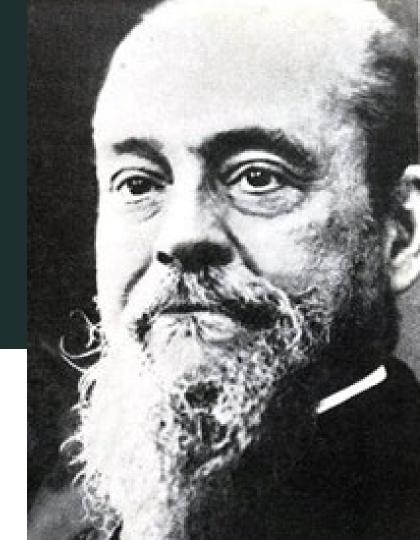
An 80/20 Overview

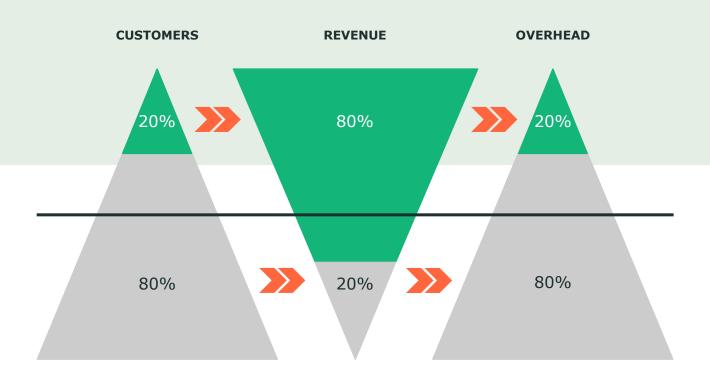
The Origin Of 80/20

- 80/20 was discovered in the early 1900's
- Italian Economist Vilfredo Pareto
- Pareto Principle The Law of Imbalance
- Early 1980's ITW applied the process to business



Vilfredo Pareto July 15, 1848 – August 18, 1923

Nichols Pyramids





80/20 Key To Success

TREAT THEM **DIFFERENTLY**



FAIRLY - NOT EQUALLY

Quartile Analysis: Customers

How well are we serving them?

	# OF CUSTOMERS	% OF REVENUE	% OF OH/EFFORT	% PROFIT
QUARTILE	1 - 250	89%	25%	150%
	251 - 500	7%	25%	ВЕ
	501 - 750	3%	25%	(\$\$)
	751 - 1,000	1%	25%	(\$\$\$\$)



Quartiles Example

CUSTOMERS

_				
	Customer Range	Percentage of Sales	Sales Range	
			\$ 16,471,467	4
	1 - 350	93.7%	75,757	1
	351 - 700	4.7%		2
	331 700	4.7 70	17,448	_
	701 - 1,050	1.2%		3
	701 - 1,030	1.2 70	4,904	3
	1,051 - 1,400	0.3%		1
	1,051 - 1,400	0.5%	67	4

- > 24 (2%) are 50% of Sales, worth \$2,431,995 or more.
- > 117 (8%) are 80% of Sales, worth \$369,454 or more.
- ▶ Bottom 50% of Customers worth only 1.5% of Sales!
- Excludes 10 customers w/ 0 or lower sales worth -\$99,007.

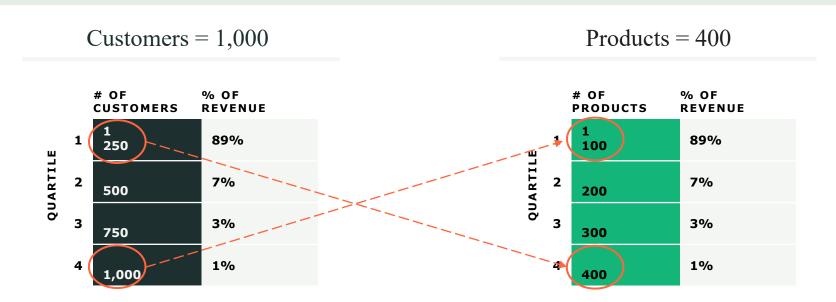
PRODUCTS

Product Range	Percentage of Sales	Sales Range	
1 - 877	89.8%	\$ 14,595,894	4
1-0//	09.0%	42,750	1
878 - 1,754	7.4%		2
2,2	71170	12,026	_
1,755 - 2,631	2.3%		3
		3,663	
2,632 - 3,509	0.5%		4
		7.95	

- > 90 (3%) are 50% of Sales, worth \$555,124 or more.
- > 460 (13%) are 80% of Sales, worth \$103,668 or more.
- > Bottom 50% of Products worth only 2.8% of Sales!
- Excludes 21 products w/ 0 or lower sales worth -\$123,502.



Quartile by Customer and Product





Quadrant: Customers and Products

A: 80's (Customers and Products that yield 80% of revenue) B: 20's (Customers and Products that yield 20% of revenue)

PRODUCTS

В Α QUAD 1 - AA QUAD 2 - AB The Fort Necessary Evil Long-Run, Standard, Big Short-Run, Special, Big Α Sales % = 64%Sales % = 16%CUSTOMERS Effort/OH% = 25%Effort/OH% = 25%QUAD 3 - BA QUAD 4 - BB **Transactional** C.R.A.P Long-Run, Standard, Small Short-Run, Special, Small Sales % = 4%Sales % = 16%Effort/OH% = 25%Effort/OH% = 25%



Quad Example



Material Margin of \$50,513,852 or 59.8%.

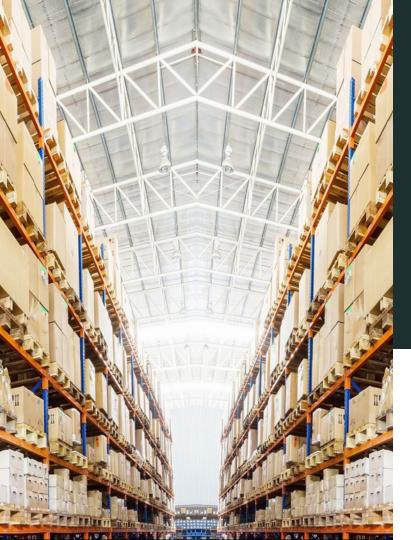
- There were 2,985 'B' Products that were only purchased by 'B' Customers.
- There were 71 'B' Customers that only purchased 'B' Products.



The Magic Formula

The Magic Formula





The Magic Formula - Inventory

BEFORE 80/20: 4 MONTHS ON HAND

$$A = .8(4) + .2(4) = 3.2 + .8 = 4$$

AFTER INITIAL 80/20:

$$A = .8(1) + .2(8) = 0.8 + 1.6 = 2.4$$



Accounts Receivable







The Magic Formula -A/R

Company xyz is a \$20MM company with 65 days of DSO despite having 30-day terms.

By the Magic Formula, here is how it gets to 65 days.

$$A = .8(65) + .2(65) = 52+13=65$$

Now let's apply the Magic Formula, focusing ONLY on getting the 80s within their 30-day agreed terms, while letting the 20s go ANOTHER month...

$$A = .8(30) + .2(95) = 24 + 19 = 43$$





80/20 Impact on Lean: Simplify First

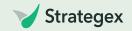
First Pass Yield = How many times you do something without errors, all the way through, the first time

OVERALL YIELD VS. SIGMA

SIGMA LEVEL	±3σ	±4σ	±5σ	±6σ
DEFECTS PER MILLION	67,000	6,000	200	3.4
# OF STEPS	◆ PERCENT YIELD —			—
1	93%	99%	99.9%	100%
10	50	94	99.8	99.9
40	6.3	78	99	99.9
100	0.1	54	98	99.9
500	0	4	89	99.9
3,000	0	0	50	98.9







Ask An Expert



Thank You

DAVID PHILIPPI

CEO

dphilippi@strategex.com 708.955.5120

CARMELLE GIBLIN

VICE PRESIDENT & 80/20 EXPERT

cgiblin@strategex.com 847.275.3570

www.strategex.com