



PROMOVE Comércio

Mozambique

Costing and Pricing with focus to Export

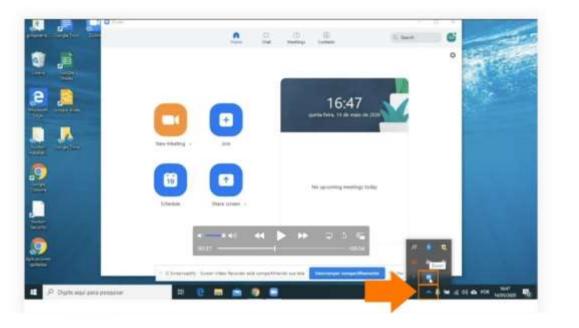
Webinar 18. November 2021

Wolfgang Wiegel United Nations Industrial Development Organization (UNIDO)



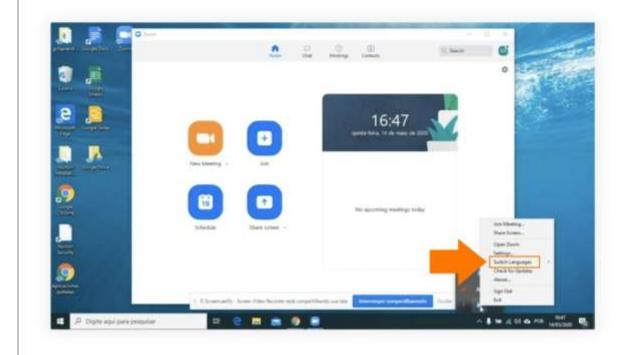
Passo 1

No canto superior direito da sua tela inicial do Windows, clique na seta que expandirá as opções de programas instalados. Clique sobre o ícone do **Zoom.**



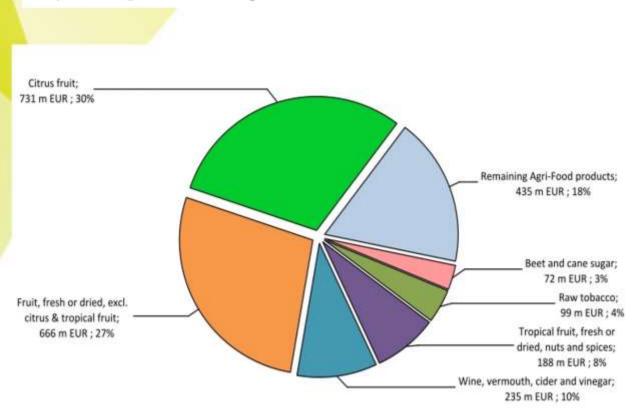
Passo 2

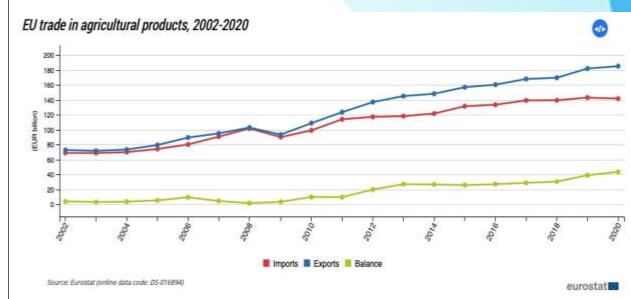
Se abrirá uma lista de ações. Passe o mouse sobre a opção **"Switch Languages"**.



How to select your language at ZOOM

High Demand vs. high Level of Competition





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The trendline indicates trade in agricultural products, exports and imports between the EU and all countries outside the EU. In 2020, extra-EU accounted for 9.0 % of the total extra EU international trade in goods.

Top EU Agri-Food imports from EPA SADC in 2020

A typical Situation.....



We know our costs, more or less, and I want to add 10% profit margin. This is
 my export sales price

2 Our low prices are our competitive advantages in the export market

We have a rough idea on the most suitable export prices to the EU, but we don't have more details available from the markets



Maybe we find a customer in the EU who is willing to pay a good price for our exceptional food product with good quality



We have a target conflict on pricing and profit priorities between our marketing department and the sales persons, with the company administration and financial department

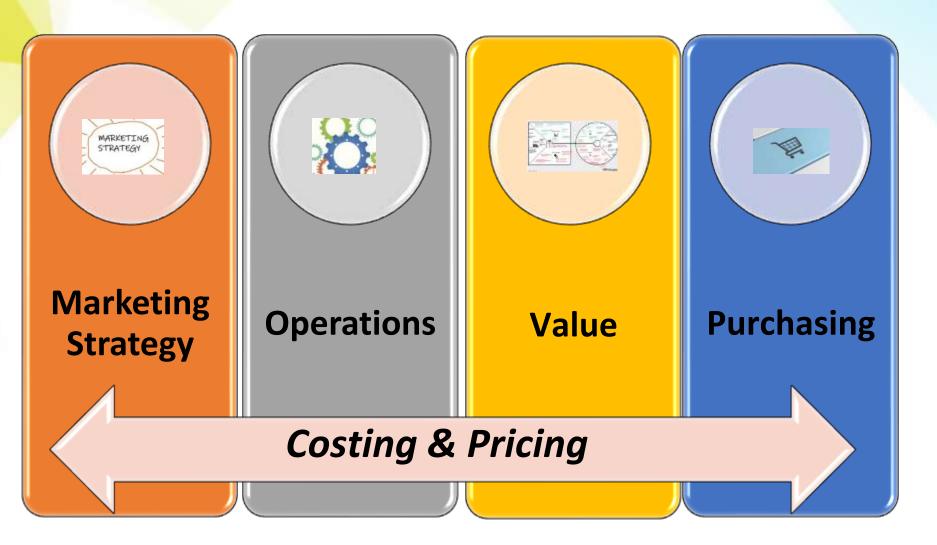
Basics about Costing





Source: Umweltbundesamt; Benjamin LEFEBVRE / Fotolia.com;

Costing and Pricing – a holistic Approach



Benchmarks and statistics

Costing and **benchmarks**? Aim for **standards** ! Increase **competitiveness** !

OECD – SME and Entrepreneurship Outlook 2021

Link: OECD SME&E Outlook 2021

2. Factors of SME&E structural vulnerability

https://www.oecd.org/industry/smes/SME-Outlook-2021-Country-profiles.pdf

-Stringency of Government measures

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1. Covid–19 impact on the SME&E sectors -Firm creation and firm exits/bankruptcies

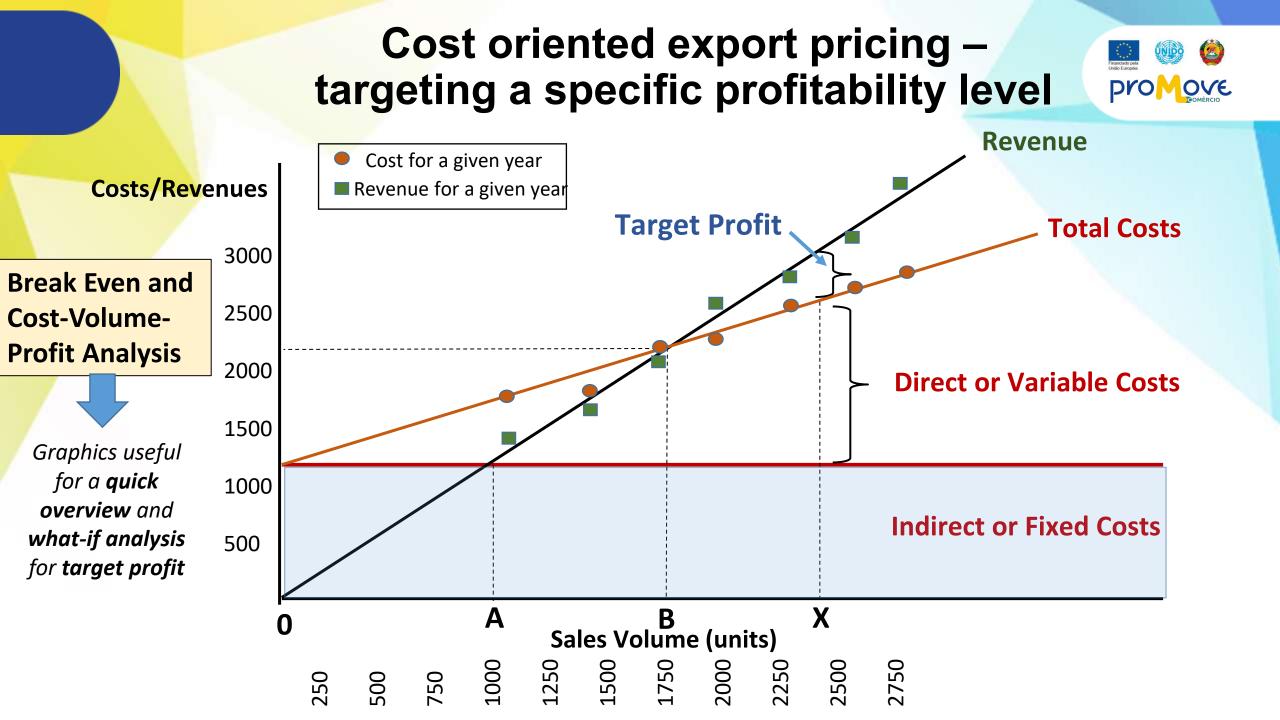
-Policy framework and policy spotlight

-Size of MSME sector

-Eonomic exposure to lockdowns and business disruptions

-Exposure to international trade and GVCs

		-Digital readiness
		-Cash reserves and Governments' liquitity support
3. Sources	of SME&E resiliance	-Entrepreneurship regulatory framework
		-Innovation skills



The Fixed-Cost Burdon

DroMove

How to find solutions?

Finding, calculating, analysing, reducing the fixed costs in your company

- **Depreciation and amortization** the gradual writing off of the cost of tangible and intangible assets over their useful lives
- Advertising including the cost of website hosting, media campaigns
- Salaries -

fixed compensation paid to employees regardless of hours worked, administrative personnel

- Rent or mortgage payments, interest expense monthly payments to landlord, lender; cost of loans as long as agreements have fixed interest rate
- Insurance and taxes –

periodic premiums paid to insurance companies, taxes charged by a local government

• Utilities –

electricity, gas, phones, trash, sewer services, trucks, sometimes to be considered as mixed costs

The Cost and Price Ratio



Your sales price needs to at least cover direct costs of the export contract.

EX FACTORY COST PRICE \rightarrow	Variable costs + fixed costs + contribution to profit margin
+ transport, import, channel margins $ ightarrow$	FOB, CIF, C&F Factor 2.5 to 4.0
! Short-term price limit \rightarrow	Covering at least variable or direct costs
! Which cost levels at which production level $ ightarrow$	Cost-Volume-Profit analysis
! Avoiding losses	Avoid selling below the break-even point (not covering all variable, and none of the fixed costs)
All implied costs are recovered \rightarrow	Break-Even point

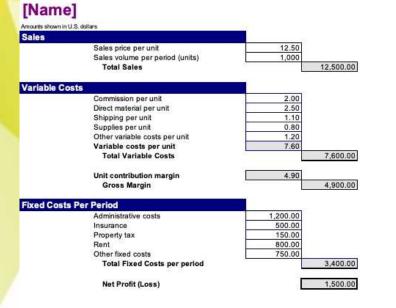
How to calculate your own Break-even Cost Analysis

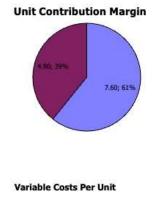
Variable costs per unit

Unit contribution margin



Breakeven Analysis

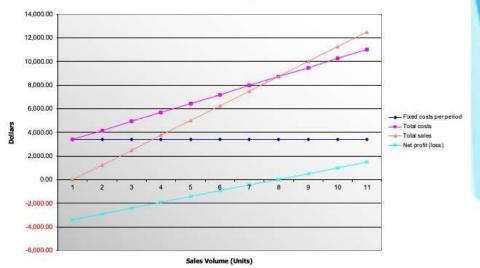






Commission per unit Direct material per unit Shipping per unit Supplies per unit Other variable costs per unit





Results:

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Sales	volume	analy	sis:
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Sales volume per period (units)	0	100	200	300	400	500	600	700	800	900	1,000
Sales price per unit	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50	12.50
Fixed costs per period	3,400.00	3,400.00	3,400.00	3,400.00	3,400.00	3,400.00	3,400.00	3,400.00	3,400.00	3,400.00	3,400.00
Variable costs	0.00	760.00	1,520.00	2,280.00	3,040.00	3,800.00	4,560.00	5,320.00	6,080.00	6,840.00	7,600.00
Total costs	3,400.00	4,160.00	4,920.00	5,680.00	6,440.00	7,200.00	7,960.00	8,720.00	9,480.00	10,240.00	11,000.00
Total sales	0.00	1,250.00	2,500.00	3,750.00	5,000.00	6,250.00	7,500.00	8,750.00	10,000.00	11,250.00	12,500.00
Net profit (loss)	-3,400.00	-2,910.00	-2,420.00	-1,930.00	-1,440.00	-950.00	-460.00	30.00	520.00	1,010.00	1,500.00

694

Link Break-Even cost analysis:

Source: MS Office, 2021

https://templates.office.com/en-us/breakeven-cost-analysis-tm01116512

Your individual Break-Even Analysis in your Company

Buy N

BREAKEVEN ANALYSIS

25.0% 12.0% 1.0%

10.0% 72.0%

Cost of Goods-Solil

Seven Labore (Inclusion Property Toront

Real Municipal

Testa3



Microsoft Office Products ~ Resources V Templates Support Celebrate the holidays with our seasonal ten Templates / Business / Breakeven analysis

Breakeven analysis

This accessible breakeven analysis template helps you calculate how much you need to sell before you begin to make a profit. This free breakeven analysis template also shows you how fixed costs, price, volume, and other factors affect your net profit.

Excel

Download

Link Break-Even analysis:

Source: MS Office, 2021

https://templates.office.com/en-us/breakeven-analysis-tm03987170

BREAKEVEN ANALYSIS

FIXED COSTS	COSTS
Salaries (Includes Payroll Taxes)	\$100,000
Supplies	\$10,000
Repairs & Maintenance	\$1,000
Advertising	\$15,000
Car, Delivery And Travel	
Accounting And Legal	
Rent	\$20,000
Telephone	
Utilities	\$5,000
Insurance	\$2,000
Taxes (Real Estate, Etc.)	
Interest	
Depreciation	
Other (Specify)	
Miscellaneous Expenses	\$5,000
Principal Portion Of Debt Payment	
Owner's Draw	\$50,000
Total	\$208,000
BREAKEVEN SALES LEVEL	\$742,857

INCOTERMS – Allocation of Costs

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Allocations of costs to buyer/seller according to Incoterms 2020 [edit]

Incoterm 2020	Loading at origin	Export customs declaration	Carriage to port of export	Unloading of truck in port of export	Loading on vessel/airplane in port of export	Carriage (sea/air) to port of import	Insurance	Unloading in port of import	Loading on truck in port of import	Carriage to place of destination	Import customs clearance	Import duties and taxes	Unloading at destination
EXW	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer
FCA	Seller	Seller	Buyer/Seller	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer
FAS	Seller	Seller	Seller	Seller	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer
FOB	Seller	Seller	Seller	Seller	Seller	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer
CPT	Seller	Seller	Seller	Seller	Seller	Seller	Buyer	Buyer/Seller	Buyer/Seller	Seller	Buyer	Buyer	Buyer
CFR	Seller	Seller	Seller	Seller	Seller	Seller	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer
CIF	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Buyer	Buyer	Buyer	Buyer	Buyer	Buyer
CIP	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Buyer/Seller	Buyer/Seller	Seller	Buyer	Buyer	Buyer
DPU	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Buyer	Buyer	Seller
DAP	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Buyer	Buyer	Buyer
DDP	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Seller	Buyer

With all Incoterms beginning with D there is no obligation to provide insurance, however the insurable risk is for the seller's account.

Most favorable for the Buyer/Importer: FOB, CFR (control over most part of shipment cost)

Most favorable for you as Seller/Exporter: EXW, CFR, CIF

Source: Wikipedia

INCOTERMS – Allocation of **Risks**



Allocations of risks to buyer/seller according to Incoterms 2020 [edit]

The risk and the cost is not always the same for Incoterms. In many cases, the risk and cost usually goes together but it is not always the case. Rules for sea and inland waterway transport

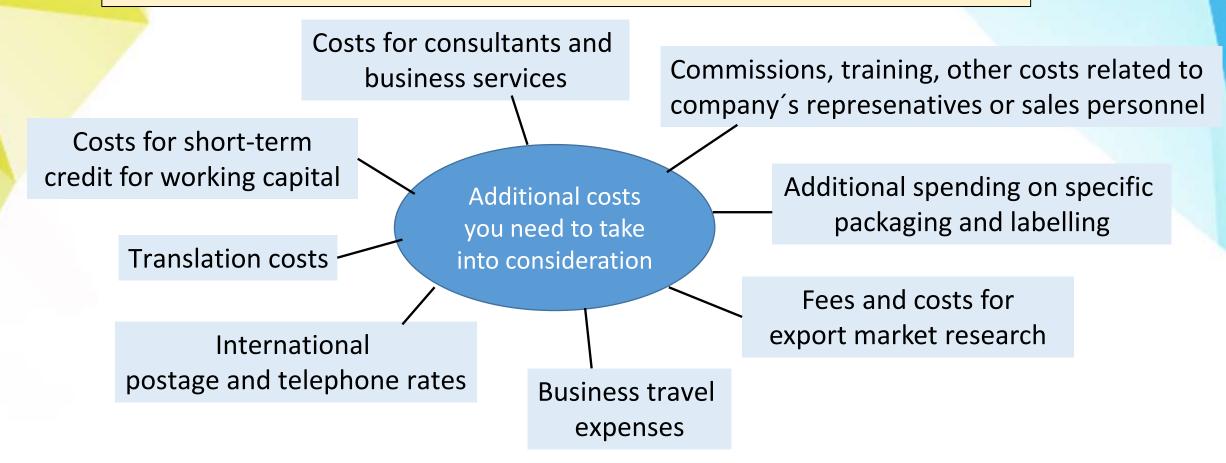
Incoterm 2020	Seller	Carrier	Port	Loading at Port	Onboard	Unloading at F	Port Port	
FOB	Seller	Seller	Seller	Seller	Buyer	Buyer	Buyer	
FAS	Seller	Seller	Seller	Buyer	Buyer	Buyer	Buyer	
CFR	Seller	Seller	Seller	Seller	Buyer	Buyer	Buyer	
CIF	Seller	Seller	Seller	Seller	Buyer	Buyer	Buyer	
Incoterm 2020	Seller	Carrier	Port	Ship	Port	Terminal Na	med place	Unloading at destination
EXW	Seller	Buyer	Buye	r Buyer	Buyer	Buyer	Buyer	Buyer

Importers in the EU do normally NOT accept EXW conditions !

Other Costs related to Export



Your direct and indirect costs of production and shipping to markets is the basis to determine if the planned export is financially viable



Basics about (Export) Pricing





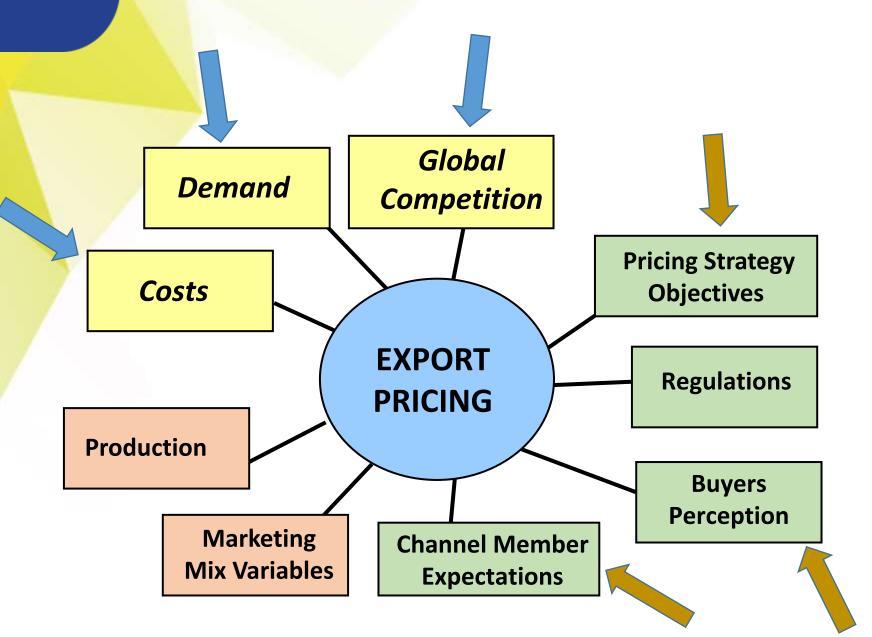
Source: Wikipedia, Sales being made at Soulard Market, St. Louis, Missouri, drawing by Marguerite Martyn, 1912

Checklist for Export Pricing Decisions



- Does the price reflect the (perceived) quality of the export product or service?
- Is the elasticity of demand an issue in my target market and customer channel?
- Is the export price competitive?
- Should the exporting company decide for market penetration, market skimming or other related objective?
- What type of discount (trade, cash, quantity) or special offer or allowance (trade off, advertising) must the exporter grant to its customers?
- What price differentiation is needed for market segments in specific export markets?
- What pricing options are available if the exporter's costs increase or decrease? Is the demand at the specific export market elastic or inelastic?
- Do export country's dumping laws pose a problem?
- How does the competitive situation influence pricing on medium and long term?

What determines Pricing Decisions ?



There is **no fixed formula** for successful export pricing

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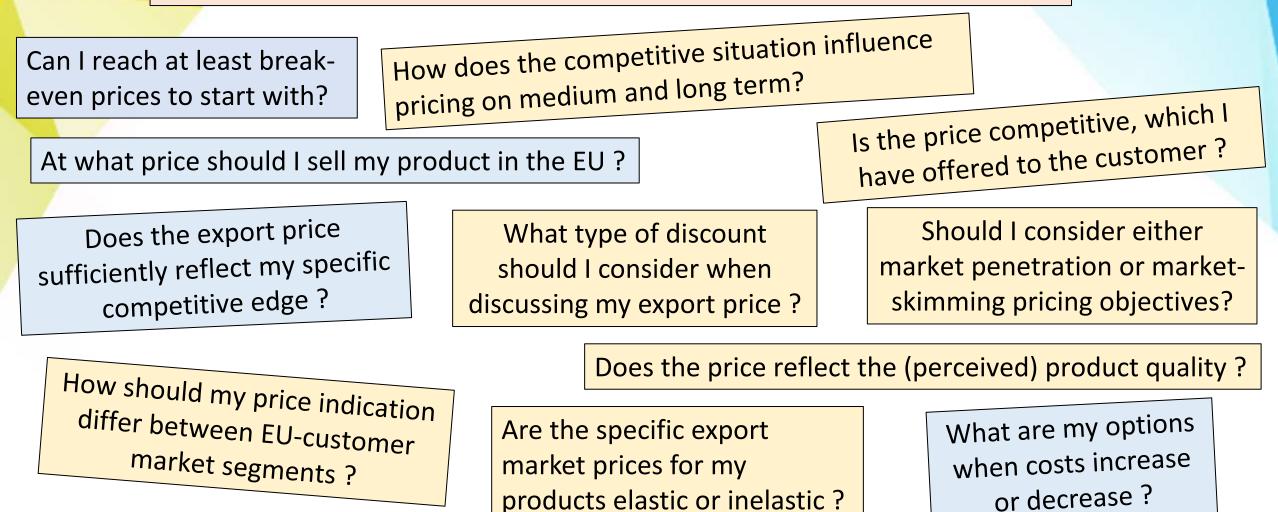
Exporter: merchant? manufacturer? canalizing agency?

Important: **added advantage** with positive impact to prices !

Export Pricing Considerations



Typical questions you are likely asking all the time, considering that export pricing is one of the most critical considerations



Some typical Pricing Methods



Cost-plus pricing

The easiest way! Total Costs and a stardard targetted profit margin.

Differences of possible profit margins in export countries.

"blind pricing"

Target-profit pricing

Similar to cost-plus and same disadvantage! This method requires the break-even analysis first, then dividing the total targetted profit over the number of units planned to sell.

"Not known whether price is too high or too low"

Perceived-value pricing

Some products look more expensive or have added value to customers.

This pricing could work for more exotic products or upgraded processed products with additional value for clients.

"Difficult for standard agriculture products"

Going-rate pricing

The least risky method.

For exporters without much inside to demand and cost factors in export markets. Exporters often follow this method.

The "me-too image does not stand for innovative approach"

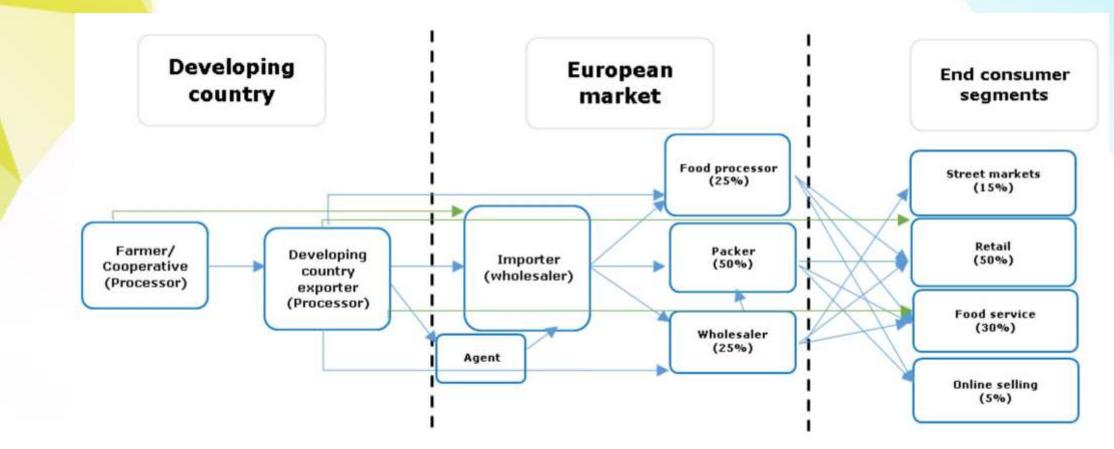
Combination of methods and dynamic pricing

Market Channel Pricing



Source: CBI.eu, 2018

European market channels for dried fruit and edible nuts



Link "how to find customers":

https://www.cbi.eu/market-information/processed-fruit- https://www.cbi.eu/market-information/processed-fruitvegetables-edible-nuts/finding-buyers

Link Market Data:

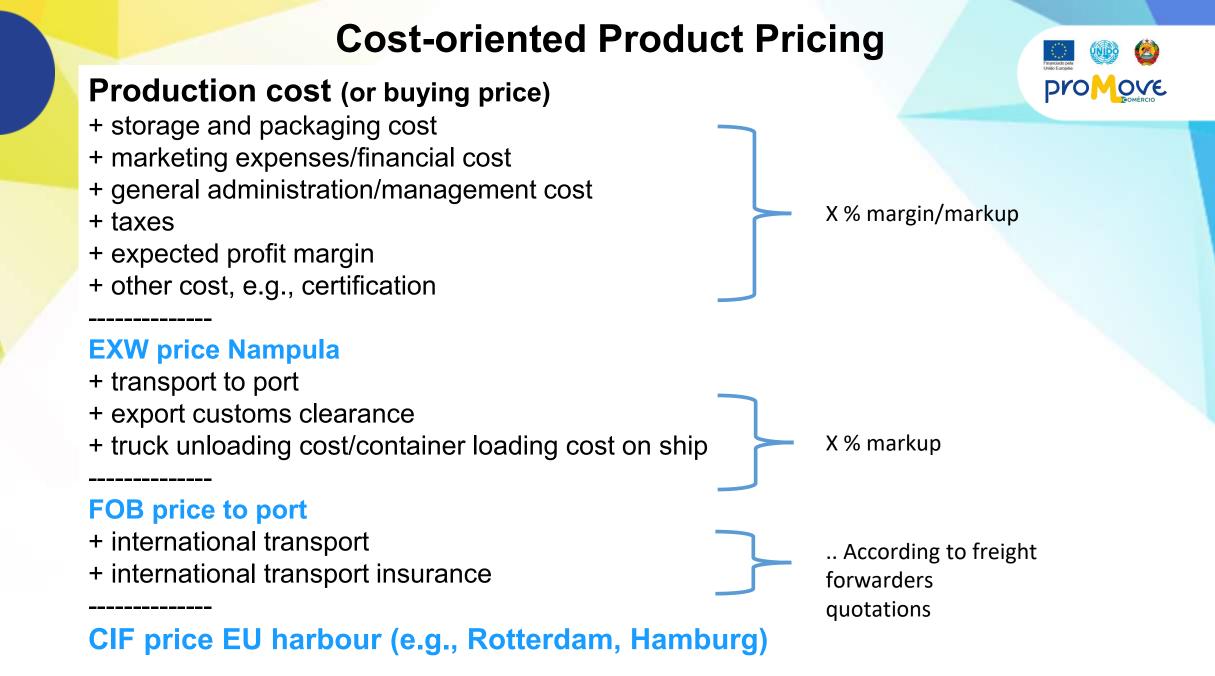
vegetables-edible-nuts/edible-nuts-dried-fruits/europe

Cost- und Market oriented Product Pricing



Average price margins and markup "From field to the final consumer" of dried fruit and vegetables (For EU market)

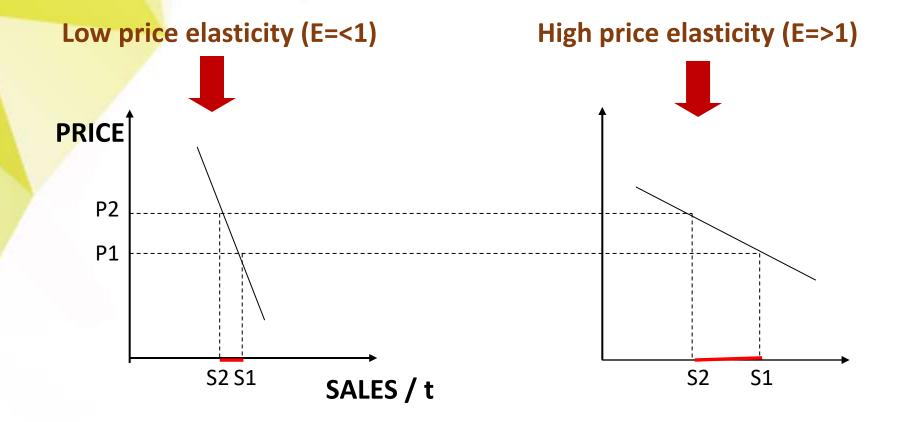
Steps in export process	Type of price	Margin and Markup
Production of fruit and vegetables	Farm gate price or Factory price (EXW price)	5% (fresh), 15-25% (processed)
Handling, packing, export documents, marketing	FOB or FCA price	30%
Price including shipment	CIF or CIP price	32-35%
Import, wholesale, processing	Wholesale price	60%
Retail handling, selling	Retail price including VAT	100%



Elasticity of Demand (Price)

Inelastic and elastic demand (consumer and trade level)



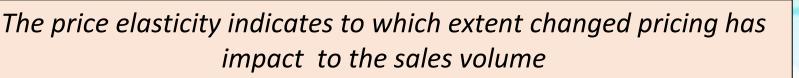


The price elasticity indicates to which extent changed pricing has impact to the sales volume

Link: European Economy "Trade Elasticities":

https://ec.europa.eu/economy_finance/publications/economic_paper/2010/pdf/ecp432_en.pdf

Demand-driven Price Elasticity



% Change in Quantity demanded

Price elasticity coefficient (\in **) =**

% Change of price

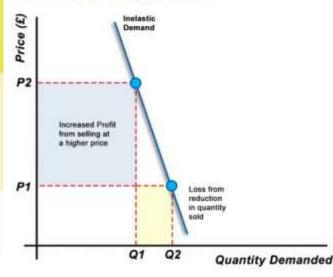
% change in Quantity Demanded = $\frac{\text{New quantity demanded} - \text{Old quantity demanded} * 100}{\text{Old quantity demanded}}$

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N shares in Duise	New Price - Old Price * 100
% change in Price =	Old Price

Demand-driven Price Elasticity

INELASTIC DEMAND

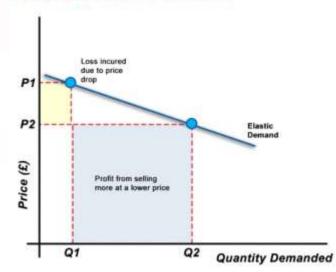


Inelastic Demand

Low price elasticity is result of a price elasticity smaller than one (1). Big changes in sales price result in small changes of sales volume. (Possible room for skimming)

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ELASTICITIC DEMAND



Elastic Demand

High price elasticity is result of a price elasticity bigger than one (1). Small changes in pricing lead to big changes in sales volume. (Incentive for price reduction)

Source: liberty-media.co.uk

Calculating the effect of price-demand changes in the market



Price elasticity of demand indicates the responsiveness of buyers when the price of a product changes.

Price Elasticity of Deman	d Calculator	
Initial Price	100	\$
Initial Quantity	5000	
Final Price	95	\$
Final Quantity	5600	

Results

Price Elasticity of Demand	-2.208
Elasticity	Elastic
Initial Revenue	\$500,000.00
Final Revenue	\$532,000.00
Revenue Increase	6.4 %

Link price elasticity calculator: https://calculators.io/price-elasticity-of-demand/

General conclusions to Price Elasticity of Demand



- As less elastic the demand, as better the chance for a high sales price
- The response to price changes has to be recognized
- The competitors` reaction influences price elasticity
- 90% of consumer goods range between 0 and 5 (average 2 to 2,5)
- Price elasticity of investment goods range between 0 to -30
- Price elasticity surpasses advertising elasticity by factor 10 to 20

Your Take-aways?

Agricultural Commodity Prices' Monitoring



FAO plays a key role in monitoring, analysing and disseminating food price data along the food supply chain, from producer to consumer through both domestic as well as international markets.

Link FAO: https://www.fao.org/prices/en/

The European Commission closely monitors the price situation, markets developments for agricultural commodities and food, and publishes various reports throughout the year.

Link EUROPEAN COMMISSION-Agriculture markets and prices: https://ec.europa.eu/info/food-farming-fisheries/trade/agriculture-markets-andprices_en#pricemonitoring

Margin vs. Markup

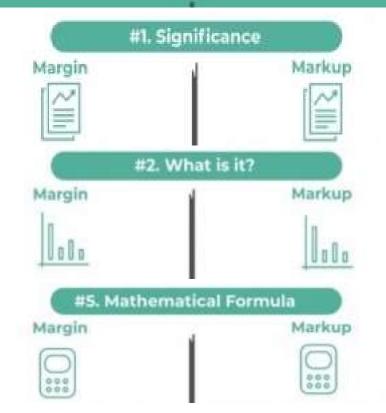
Margin

Technically a profit margin, measuring firm profitability

Numerically, a percentage of the **sales** price. From perspective of the **SELLER**

(Price – Cost)

Price





To arrive at a 10% margin, the markup percentage is 11.1%

- To arrive at a 20% margin, the markup percentage is 25.0%
- To arrive at a 30% margin, the markup percentage is 42.9%
- To arrive at a 40% margin, the markup percentage is 66.7%
- To arrive at a 50% margin, the markup percentage is 100.0%

Referring to value-added by a seller to a cost price

Numerically, a **cost** multiplier. From perspective of the **BUYER**

```
(Price – Cost)
-----
Cost
```

Links for more theory on Margin and Markup:

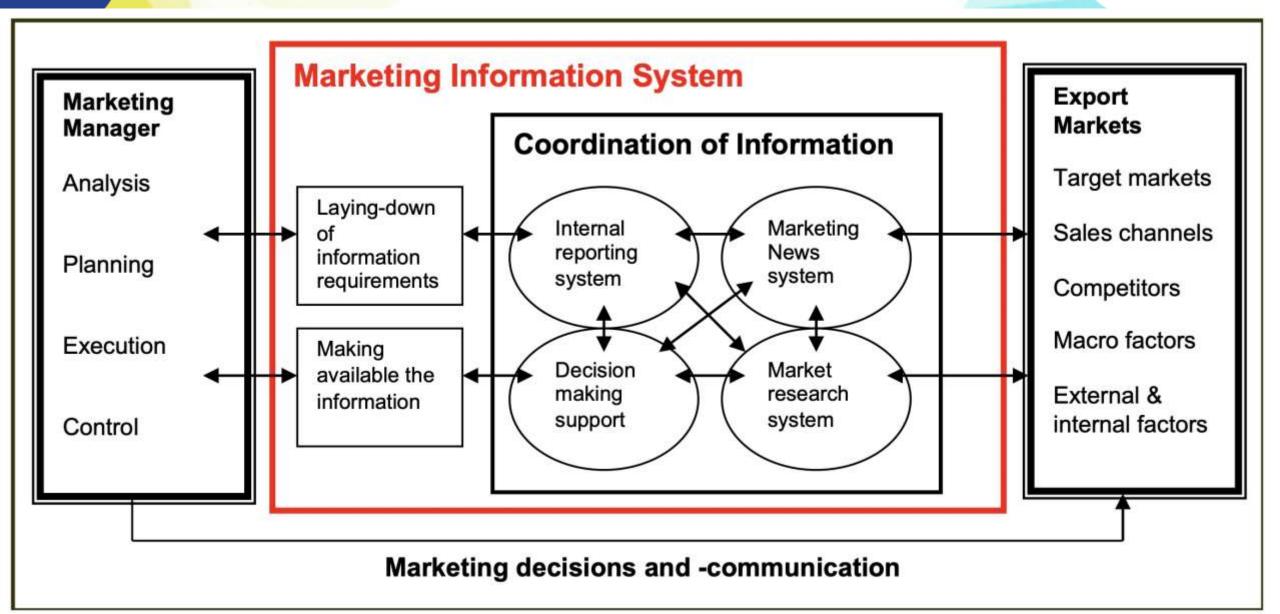
https://www.wallstreetmojo.com/margin-vs-markup/

https://www.tradegecko.com/blog/small-businessgrowth/markups-and-margins

Source: www.wallstreatmojo.com

MIS – A tool for price and customer channel information

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Proforma Invoices and Quotations



Checklist for required items on a quotation to interested export customers

- Buyer's name and address and reference number
- Date and reference of inquiry by the buyer
- Listing of requested products with description
- Price of each item and indication of terms of sale, payment and shipping
- Gross and net shipping weight and cubic volume
- Packing details
- Price discount, if applicable
- Point of delivery
- Validity period for quotation
- Any charges to be paid by importer
- Estimated possible shipping date ex port
- Estimated date of shipment arrival at destination

Coffee Break

We meet again in 5 minutes













THANKYOU

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