

YEARLY EXPORT GROWTH

EXPORT DESTINATION

IMPORTER CLUSTER

INFLUENTIAL FACTORS

Unit

IDR Exchange Rate	(IDR)
International CPO Price	(USD/ton)
International Oil Price	(USD/barel)
Export Volume	(ton)
Export Value	(000 USD)
CPO Production	(ton)
HS Code	
Crude Palm Oil	1511000
Other Palm Oil	15119000
Crude Palm Kernel Oil	15132110
Other Palm Kernel Oil	15132900

Total Export Volume (ton)

59.6M

Total Export Value (000 USD)

39.7M

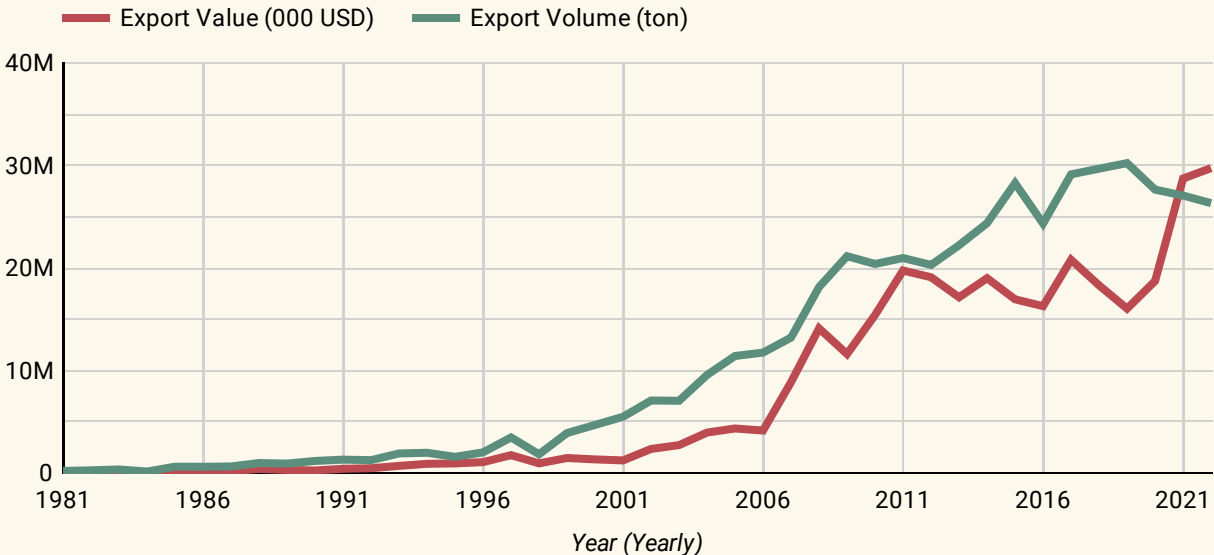
Total CPO Production (ton)

371.7M

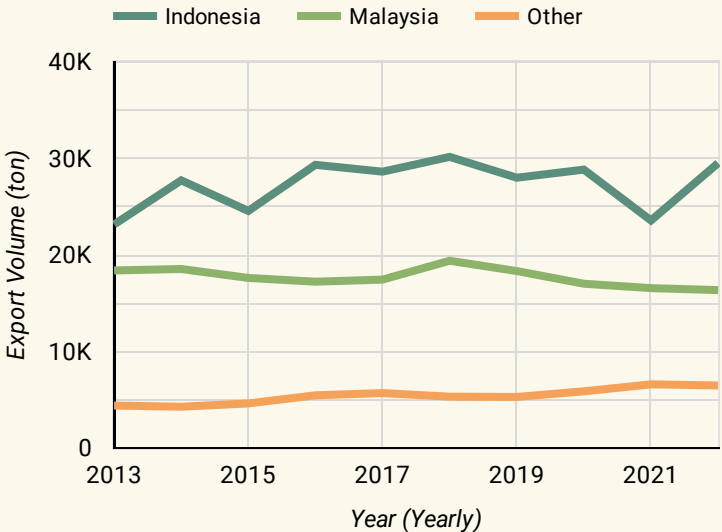
Destination Countries

152

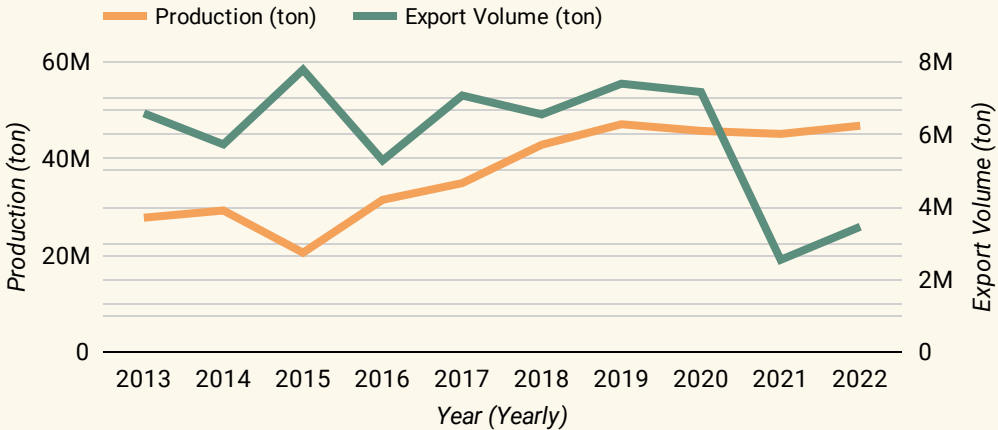
Historical Trend of Export



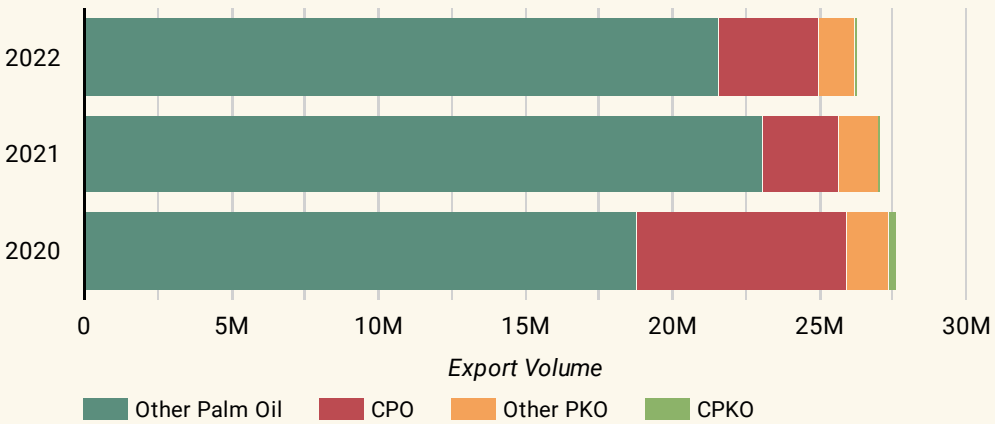
CPO Export Volume Indonesia vs Other Countries



CPO Production and Export Volume



Export Volume by Product



Unit

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International CPO Price (USD/ton)

International Oil Price (USD/barel)

Export Volume (ton)

Export Value (000 USD)

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HS Code

Crude Palm Oil 15111000

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Other Palm Kernel Oil 15132900

Total Export Volume (ton)

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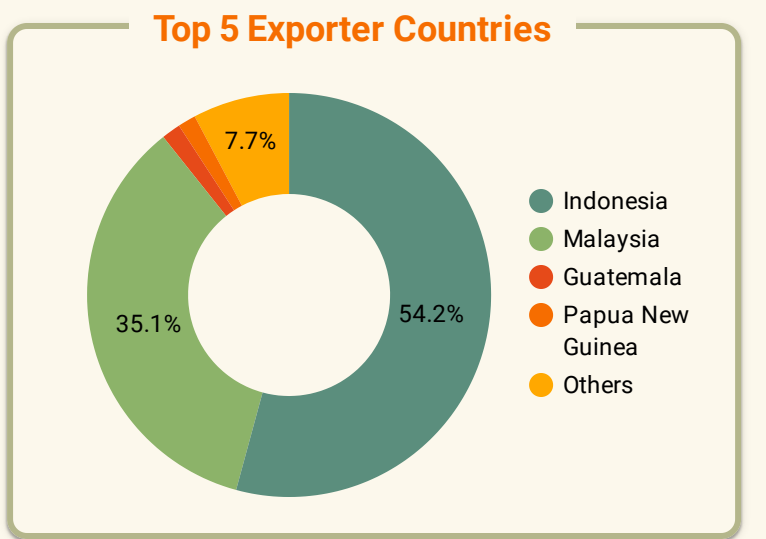
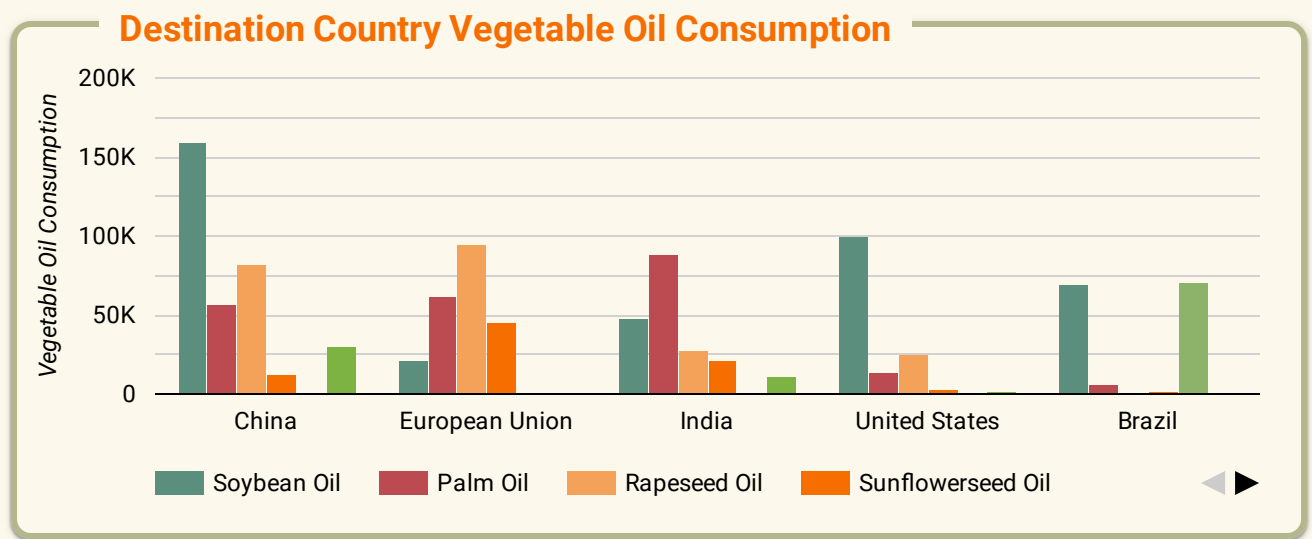
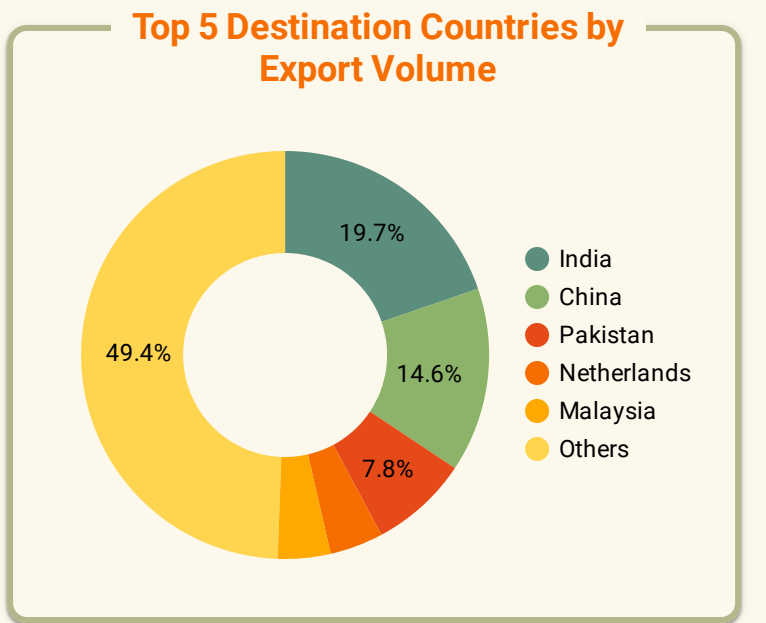
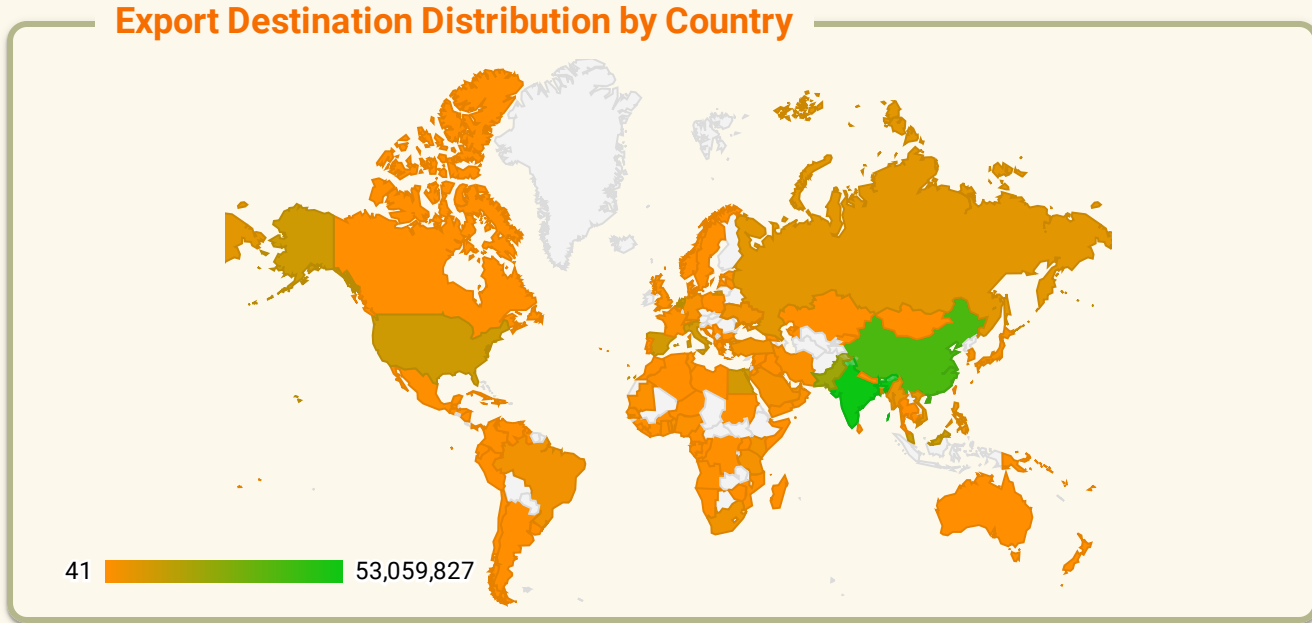
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Total CPO Production (ton)

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Destination Countries

152



Unit

IDR Exchange Rate (IDR)

International CPO Price (USD/ton)

International Oil Price (USD/barel)

Export Volume (ton)

Export Value (000 USD)

CPO Production (ton)

Method & Data

K-Means and Hierarchical Clustering
Export Volume Data 2022

CPO Importer

18

CPO Export Volume (ton)

3.5M

Other Palm Oil Importer

134

Other Palm Oil Export Vol. (ton)

21.5M

Destination Countries Clustering by CPO Export Volume

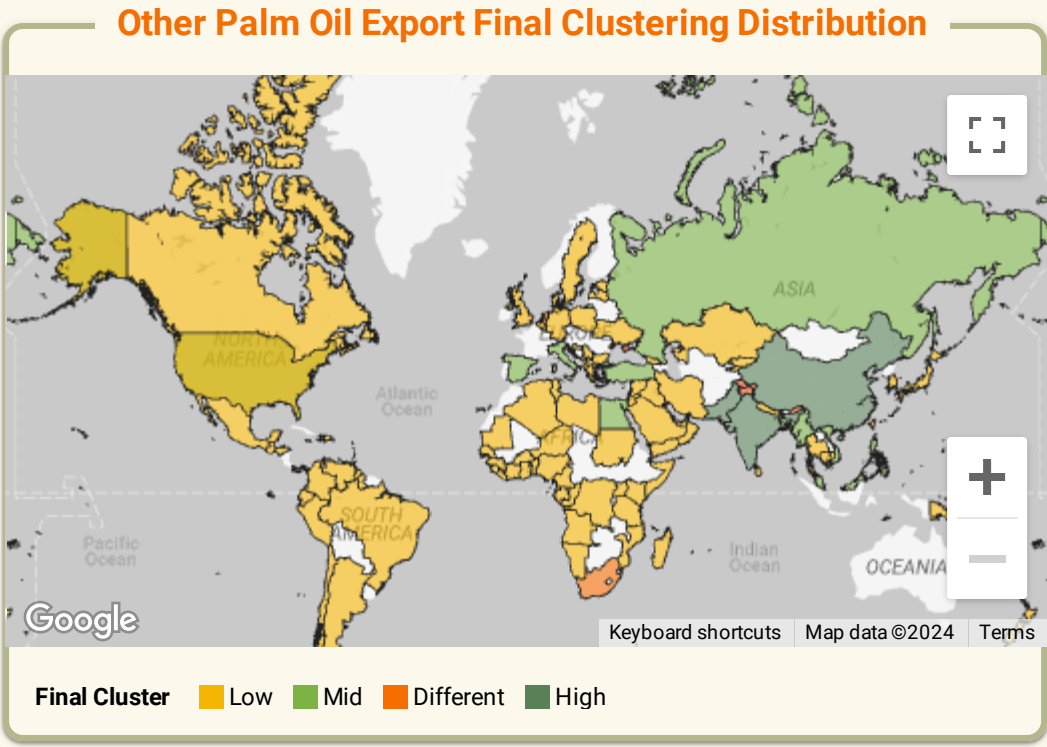
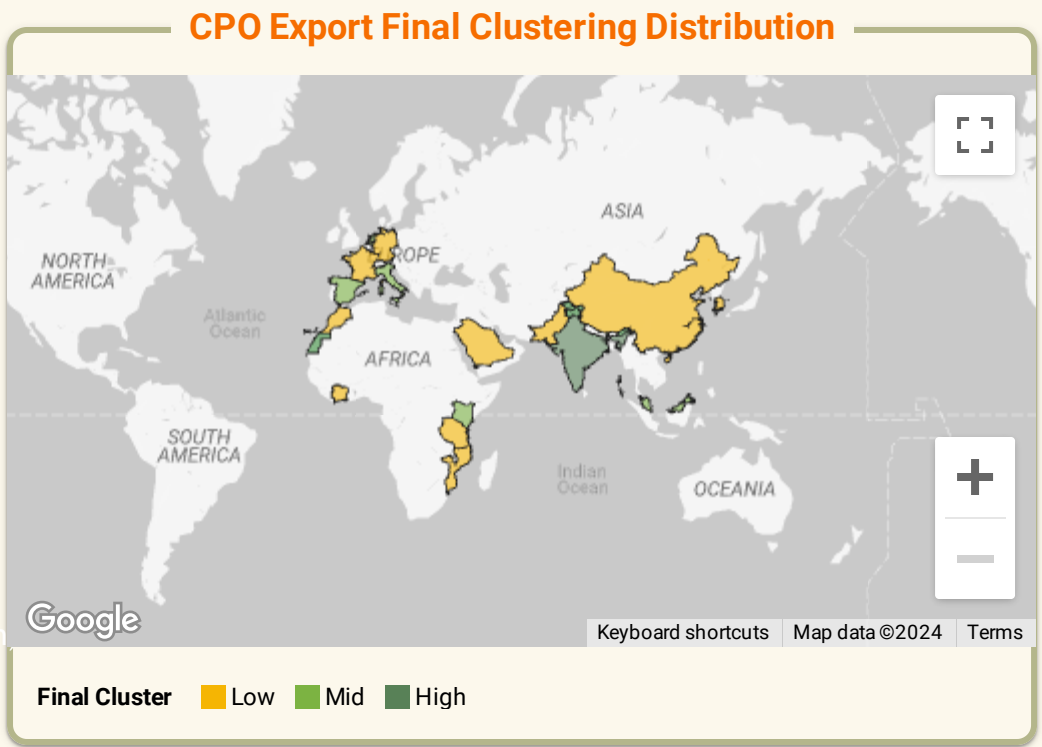
Country	Export Vol...	Hierarchical Cl...	K-Means Clu...	Final Clu...
India	2,883,818	High	High	High
Italy	145,163	Mid	Mid	Mid
Malaysia	97,126	Mid	Mid	Mid
Kenya	88,397	Mid	Mid	Mid

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Destination Countries Clustering by Other Palm Oil Export Volume

Country	Export Vol...	Hierarchical Cl...	K-Means Clu...	Final Clu...
China	3,477,843	High	High	High
Pakistan	2,786,582	High	High	High
India	2,112,514	High	High	High
United Sta...	1,536,734	Mid	Mid	Mid

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Export Volume	(ton)
Export Value	(000 USD)
CPO Productio	(ton)

Method & Data

Multiple Regression Analysis
Data Period 2020-2022

Total Export Volume (ton)
13.2M

Total CPO Production (ton)
137.7M

World CPO Price (USD/barel)
39.1K

R-Square
69,61%

Initial Regression Model

$$Y = 373.617 + 0,16X_1 - 3,7X_2 - 489X_3 - 878X_4$$

Research Variables

Dependent (Y) : Export Volume

Independent (X):

- (1) Indonesia CPO Production
- (2) IDR Exchange Rate
- (3) World CPO Price
- (4) World Oil Price

Coefficients

Term	Coef	SE Coef	T-Value	P-Value	VIF
Constant	373617	836913	0,45	0,658	
X1_Produksi_CPO	0,1621	0,0672	2,41	0,022	1,63
X2_Nilai_Tukar_Rupiah	-3,7	57,8	-0,06	0,949	1,39
X3_Harga_CPO_Dunia	-489	176	-2,77	0,009	5,07
X4_Harga_Minyak_Dunia	-878	2062	-0,43	0,673	4,41

Fullfiled Classical Assumption Test

- **Normality test:** residuals follows a normal distribution
- **Linearity test:** based on Probability Plot, data follow the normal distribution.
- **Heteroscedasticity:** based on Glejser Test method, there is no heteroscedasticity (the significance value > 0.05)
- **Multicollinearity:** there is no correlation between the independent variables. (VIF < 10)
- **Autocorrelation:** there is no symptoms of autocorrelation in the model.

Significant Variables

Indonesia CPO Production (X1) positively influences
International CPO Price (X3) negatively influences

Research Object

Date	IDR Exchange Rate	World CPO Price	World Oil Price	Indonesia CPO Production	Export Volume
Jan 2020	13.7K	810.1	57.5	3.7M	698.6K
Feb 2020	13.8K	728.8	50.5	3.4M	524.1K
Mar 2020	15.2K	636.3	29.9	3.5M	644.3K
Apr 2020	15.9K	608.9	16.5	3.6M	611.4K
May 2020	14.9K	576.6	28.6	3.6M	514.8K
Jun 2020	14.2K	656.5	38.3	3.6M	675.1K
Jul 2020	14.6K	694.2	40.8	3.5M	656.1K

Export Volume and Significant Variabel

