

# 2 ZERO HUNGER





# Introduction

Poverty

Populations

GDP

Conclusion

## Research Questions

- What causes undernourishment in Sub-Saharan Africa?
- Is poverty one of the factors?
- Does the increase in population have any relationship with undernourishment?
- What does GDP have to do with the Undernourishment increase
- What relationship does COVID-19 have with Undernourishment?

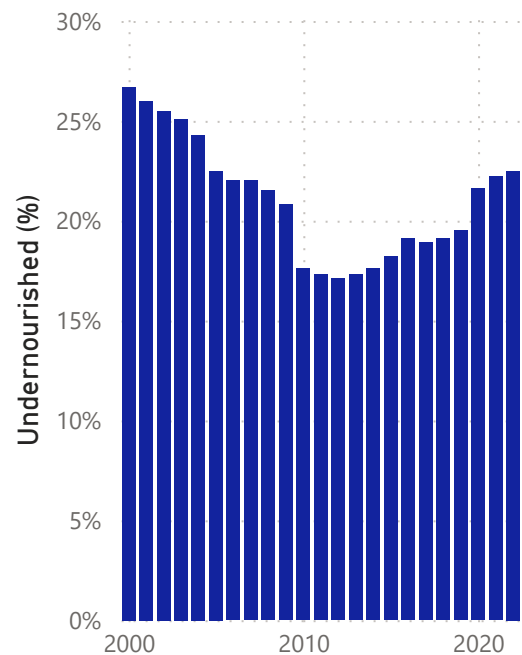
## Sources

1. *Share of the population that is undernourished.* (n.d.). Our World in Data. <https://ourworldindata.org/grapher/prevalence-of-undernourishment>
2. *Sub-Saharan Africa.* (n.d.-b). The World Bank. <https://data.worldbank.org/region/sub-saharan-africa>
3. *Daily cost of a healthy diet.* (n.d.). Our World in Data. <https://ourworldindata.org/grapher/cost-healthy-diet>
4. *Population.* (n.d.). Our World in Data. <https://ourworldindata.org/grapher/population>

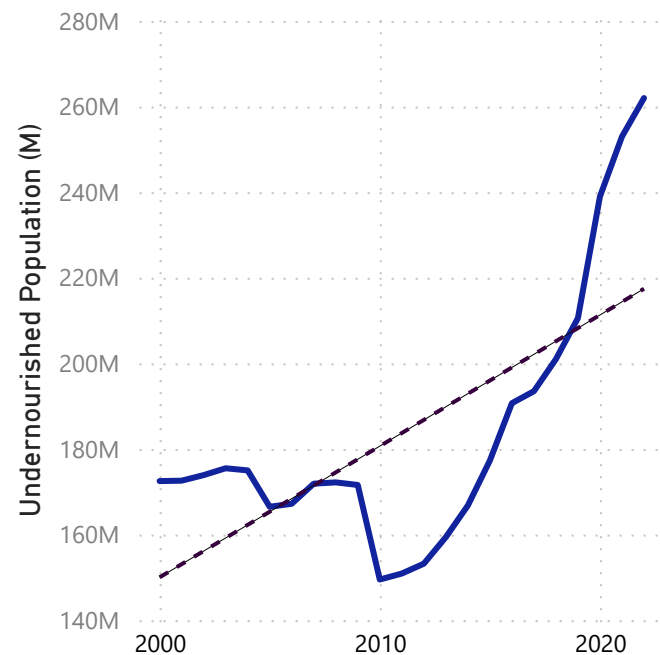
2 ZERO HUNGER



Undernourishment in Sub-Saharan Africa in Percentages



Undernourishment in Sub-Saharan Africa in Population (Mil.)



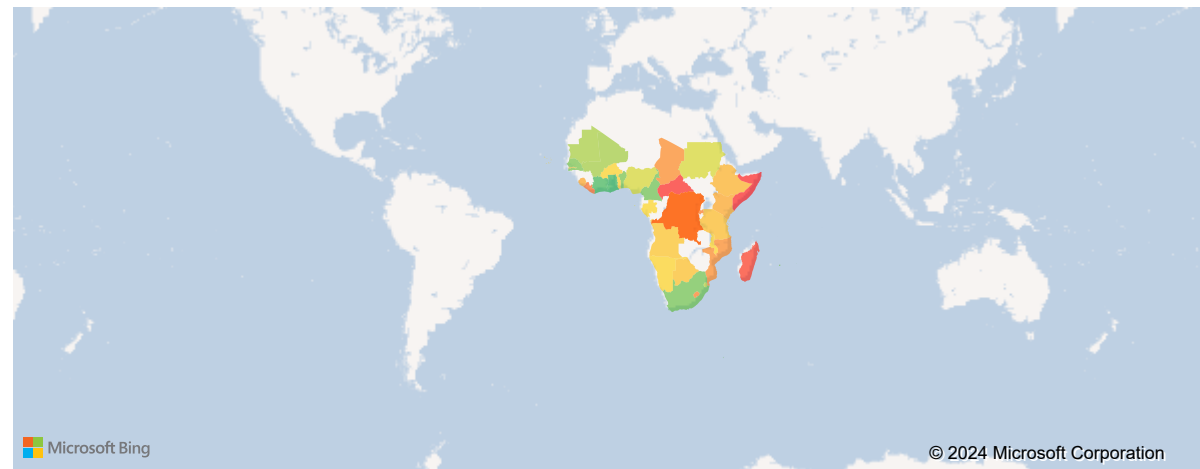
21,06%

Average Undernourishment (%)

262M

Max. undernourishment

Undernourished Population in Sub-Saharan Africa 2020





# Findings Poverty

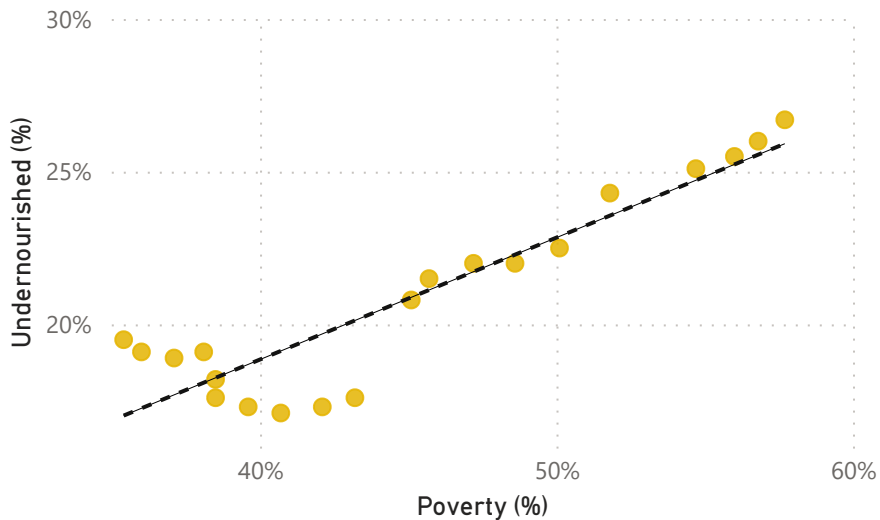
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## Poverty in Sub-Saharan Africa



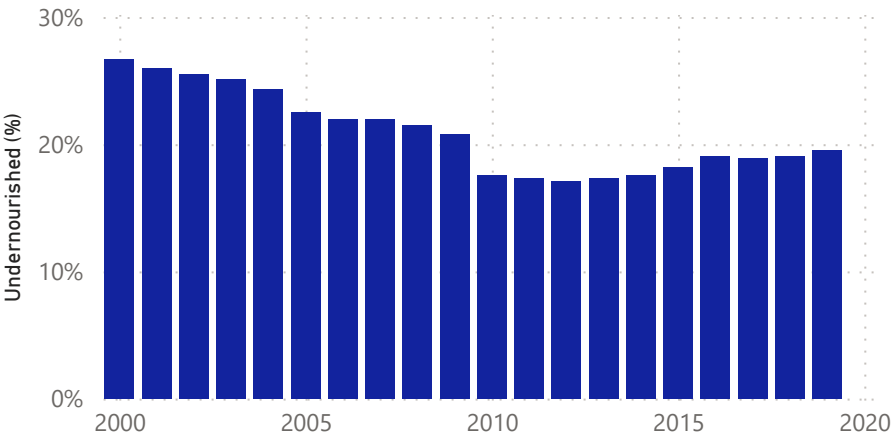
0,91

Correlation

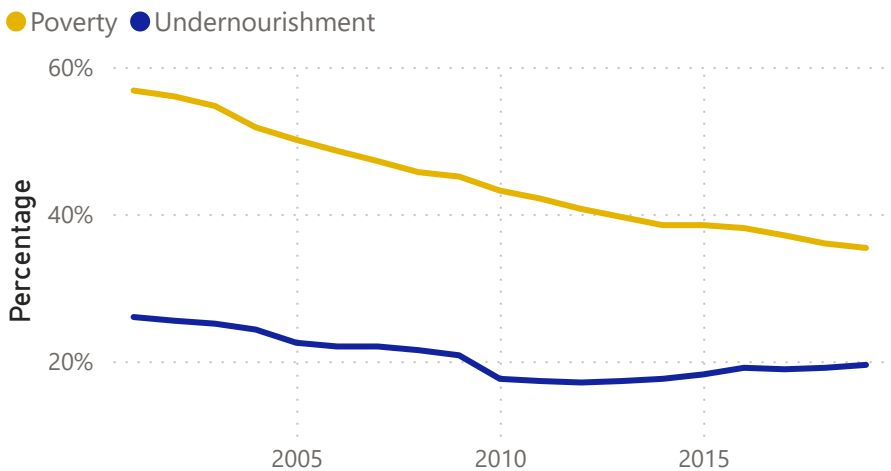
Undernourishment %

Undernourishment Population

## Undernourishment in Sub-Saharan Africa in Percentages



## Poverty and Undernourishment 2001 to 2019



## Undernourishment in Sub-Saharan Africa

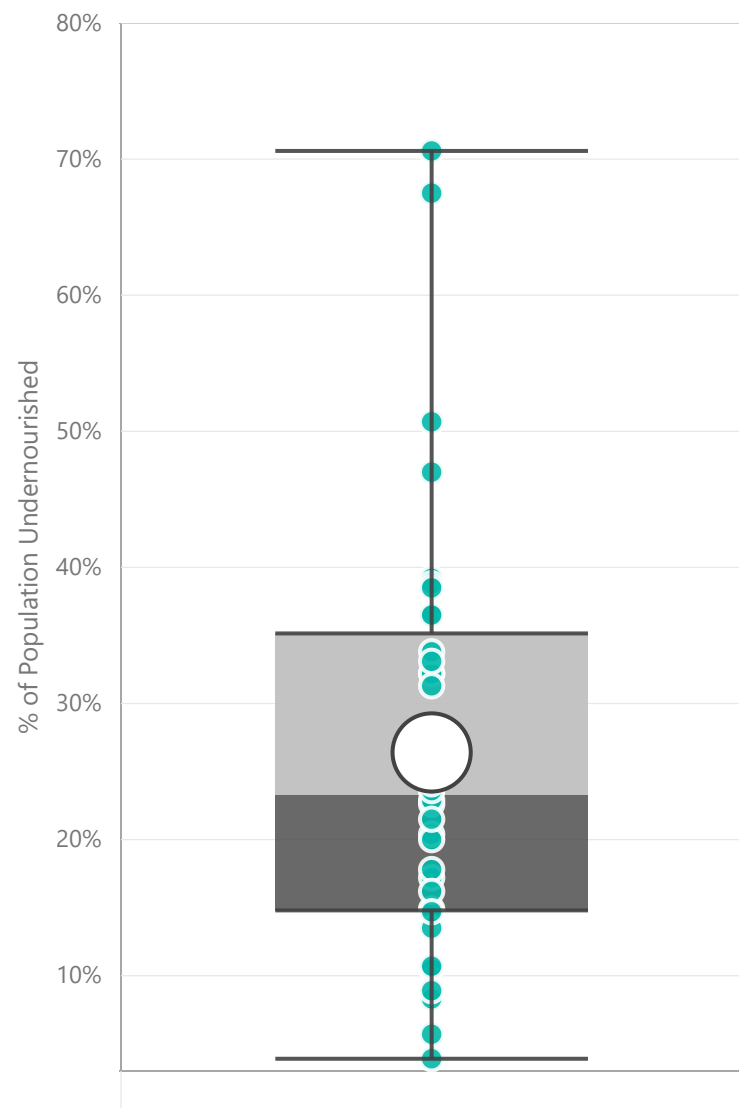
Year	Und. (M)	Und. (%)	Pov. (%)
2000	172,50M	26,70%	57,70%
2001	172,60M	26,00%	56,80%
2002	173,90M	25,50%	56,00%
2003	175,50M	25,10%	54,70%
2004	175,00M	24,30%	51,80%
2005	166,50M	22,50%	50,10%
2006	167,20M	22,00%	48,60%
2007	171,90M	22,00%	47,20%
2008	172,20M	21,50%	45,70%
2009	171,60M	20,80%	45,10%
2010	149,50M	17,60%	43,20%
2011	150,90M	17,30%	42,10%
2012	153,20M	17,10%	40,70%
2013	159,40M	17,30%	39,60%
2014	166,80M	17,60%	38,50%
2015	177,30M	18,20%	38,50%
2016	190,70M	19,10%	38,10%
2017	193,50M	18,90%	37,10%
2018	201,00M	19,10%	36,00%
2019	210,60M	19,50%	35,40%
Avg.	173,59M	20,91%	45,15%



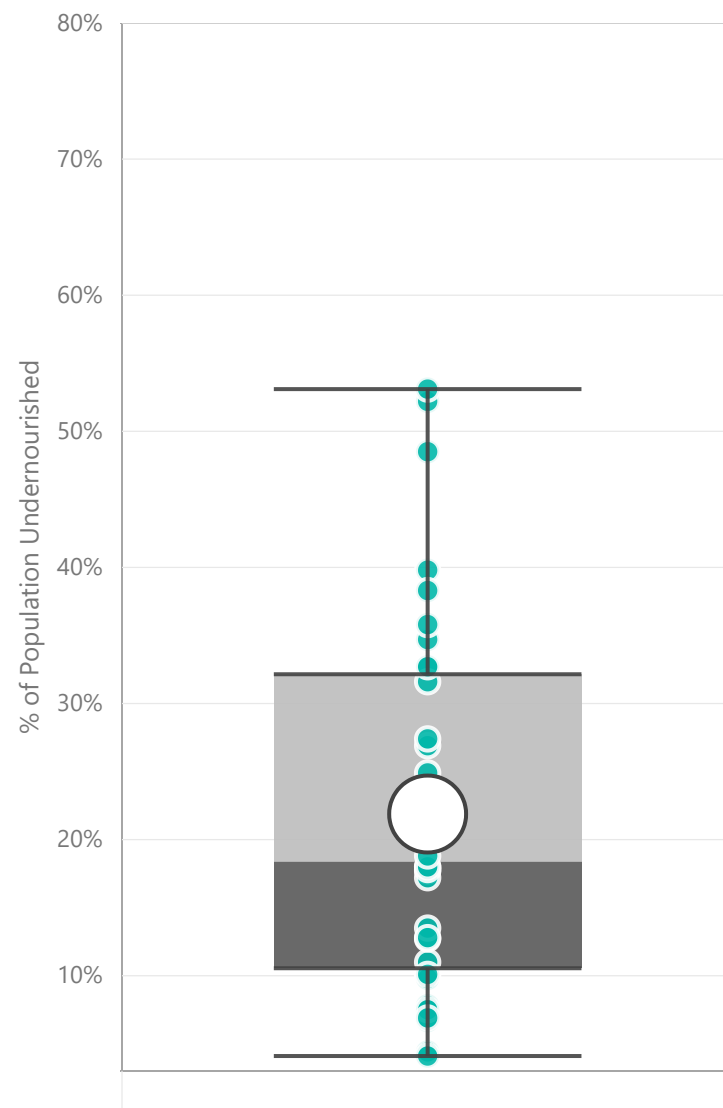
# Findings Population

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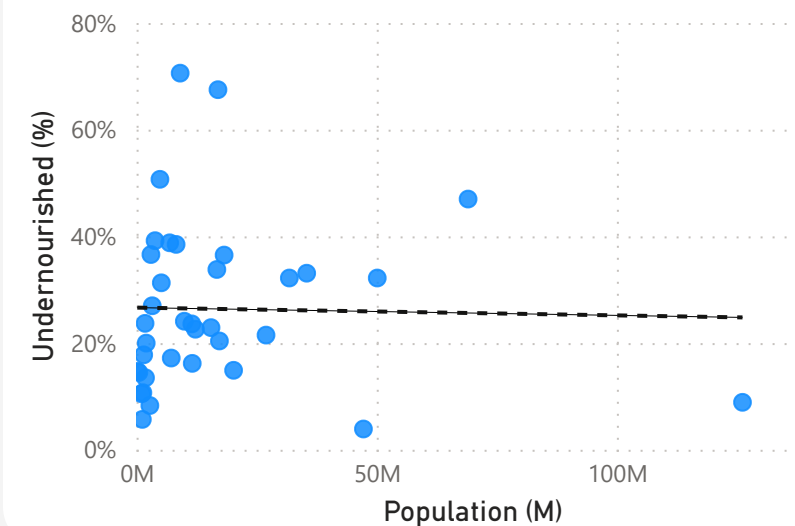
## Undernourished Population 2001



## Undernourished Population 2020



## Population compared to Undernourishment 2001

[Correlation 2001](#)[Correlation 2020](#)

**-0,02**  
Correlation



# Findings GDP

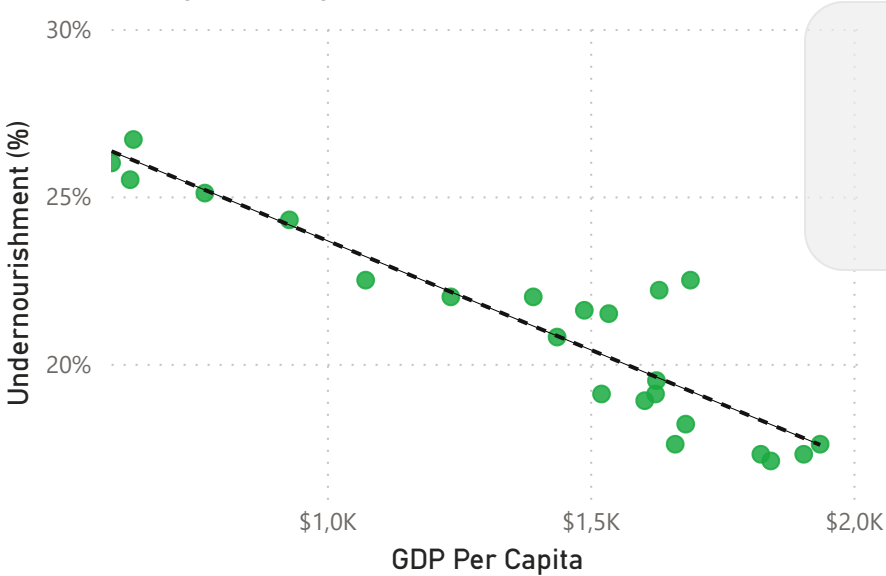
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GDP Per Capita compared to Undernourishment (%)



-0,92  
Correlation

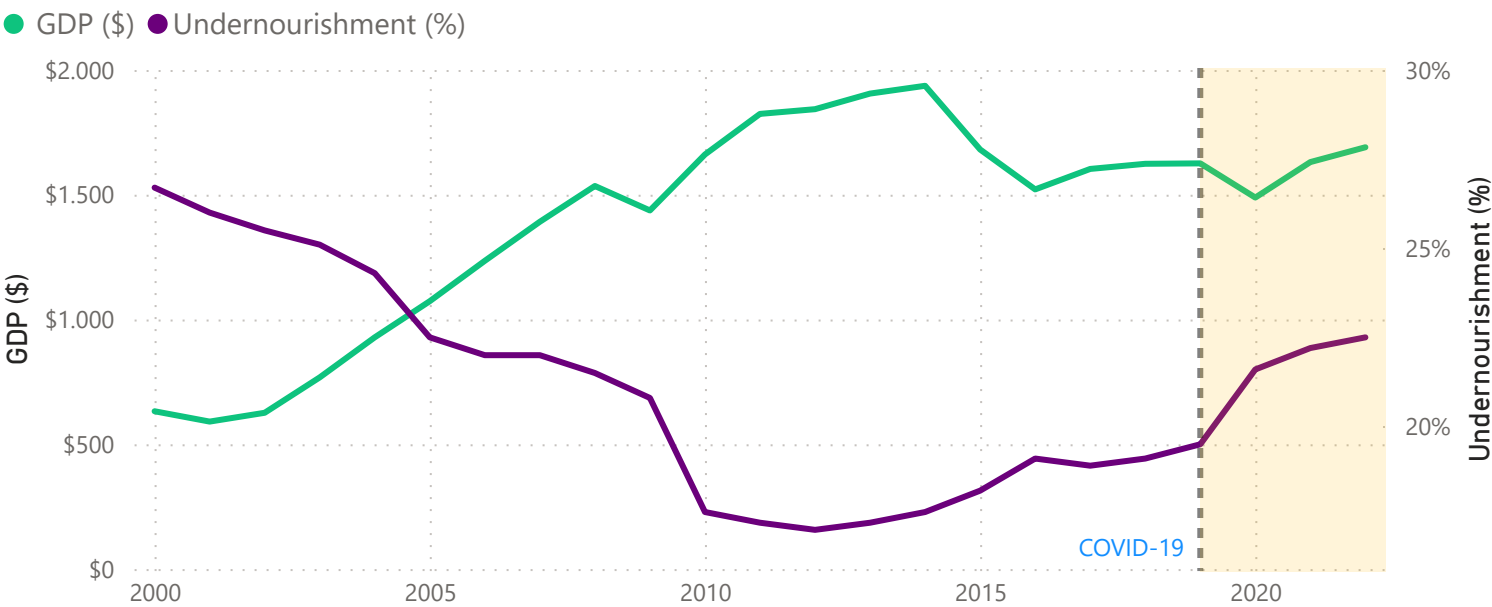
Undernourishment vs GDP 2000 - 2022

Year	Und. (%)	GDP Per Capita (\$)
2000	26,70%	\$632,40
2001	26,00%	\$591,00
2002	25,50%	\$626,30
2003	25,10%	\$768,10
2004	24,30%	\$928,70
2005	22,50%	\$1.073,50
2006	22,00%	\$1.235,30
Average	21,06%	\$1.402,46

GDP and Undernourishment

Cause COVID-19

GDP Per Capita compared to Undernourishment (%)





## Conclusion & Prediction

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### Possible causes

0,91

Correlation Poverty and Undernourishment %

-0,92

Correlation GDP and Undernourishment %

### Unlikely causes

-0,02

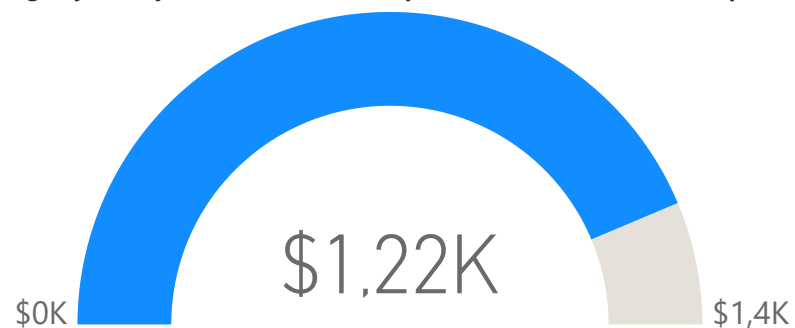
Correlation Undernourishment % and Population 2001

-0,05

Correlation Undernourishment % and Population 2020

### Prediction

Average yearly food cost compared to GDP Per Capita



GDP Per Capita

\$500



26,94%

Predicted Undernourishment