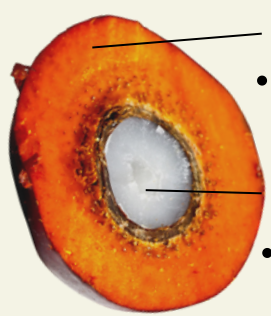


# MALAYSIAN PALM OIL (MPO) AND THE UNITED NATIONS (UN) SUSTAINABLE DEVELOPMENT GOALS (SDGS)

Today, **5.9 million hectares** of land in Malaysia is under oil palm cultivation; producing:



## Palm oil:

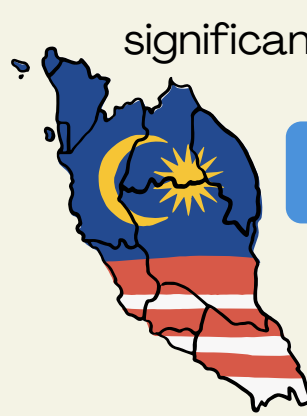
- 19.86 million tonnes of palm oil.

## Palm kernel oil:

- 2.32 tonnes of palm kernel oil (1).

Malaysia is the second-largest producer of Palm Oil, and a major exporter (2).

The MPO industry has committed significantly to achieve UN SDGs.



## MPO INDUSTRY CONTRIBUTION TOWARDS MALAYSIA'S SDGS

1 NO POVERTY



MPO industry provide employment and income that contribute to the **eradication of poverty**.

### EMPLOYMENT

MPO industry directly employs more than 570,000 people, with another 290,000 people employed downstream farmers (3).



Smallholders participate in 'Persatuan Kebangsaan Pekebun-Pekebun Kecil Malaysia (**PKPKM**) and Sarawak Land Consolidation and Rehabilitation Authority (**SALCRA**):



PKPKM



- Organizations help them to receive a fair and sustainable income.
- Also help to secure legal land-ownership rights.

"Being the largest producer of Certified Sustainable Palm Oil (CSPO) in the world, accounting more than 50% of all CSPO to date, **Malaysia is certainly deserving of recognition on the world stage with regards to sustainable practices**" (4)

8 DECENT WORK AND ECONOMIC GROWTH



Malaysia supply 44% of globally exported PO (5)

Demand from China and India increase stimulated the rapid growth.



### MSPO supports the SDG 2030



13 CLIMATE ACTION



### Zero Burning Policy

"A practice of land clearing **without burning** to remove the palm tree residue to conserve environment and sustainability"



### HOW?

Replant palm tree on palm tree



### Net Zero Policy

When the amount of carbon dioxide added is no more than the amount taken away.

GAP - mill using its biomass and biogas for energy generation.



Stop Deforestation

No peatland

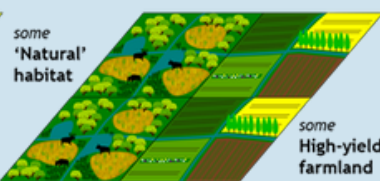


## FURTHER MPO CONTRIBUTION TOWARDS MALAYSIA'S SDGS

Incorporation of the **Malaysian Palm Oil Council with Sabah State Government, Felda Global Venture (FGV), Perhilitan** etc to support conservation projects such as:

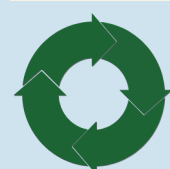
15 LIFE ON LAND

17 PARTNERSHIPS FOR THE GOALS

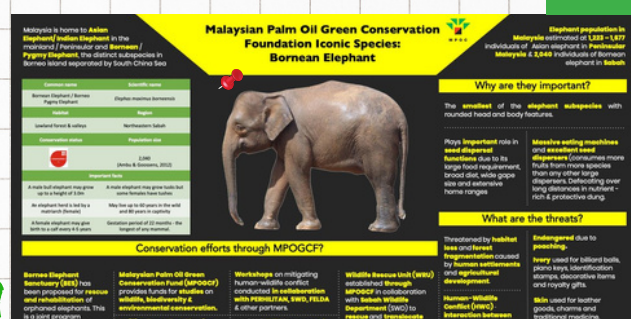


Intercropping palm oil with other crops; **cacao**- provide **high land sparing effects** & replenishing more **ground water** and **reducing carbon footprint** (6)

**GHG emissions** in Malaysia can be reduced by **4.1 t CO<sub>2</sub>-eq ha<sup>-1</sup> pa** simply by banning the establishment of new OP plantations on peat soil (7)



Use of **life cycle assessments** can better estimate the impact of human activities on the environment, specifically for a commodity chain (7)



**Endangered Species - Sun Bear, Asian Elephant, Pygmy Elephant, Orangutan and Malayan tiger.**

**Good Agriculture Practice**



**Maintaining the buffer zones and riparian areas**



**Conserving the rich Malaysian biodiversity**

### References

- Kushairi, A., Ong-Abdullah, M., Nambiappan, B., Hishamuddin, E., Zainal Bidin, M. N. I., Ghazali, R., Subramaniam, V., Sundram, S., & Ahmad, Parveez, G. K. (2019). Oil Palm Economic Performance in Malaysia and R&D Progress in 2018. Journal of Oil Palm Research.
- Rahman, S. (2020). Malaysian Independent Oil Palm Smallholders and their Struggle to Survive 2020. ISEAS Yusof Ishak Institute.
- Mohd Hanafiah, K., Abd Mutalib, A.H., Miard, P. et al. Impact of Malaysian palm oil on sustainable development goals: co-benefits and trade-offs across mitigation strategies. Sustain Sci 17, 1639–1661 (2022).
- Chiriaco, M. V., Bellotta, M., Jusić, J. & Perugini, L. (2022). Palm oil's contribution to the United Nations sustainable development goals: outcomes of a review of socio-economic aspects. Environmental Research Letters, Vol. 17(6).
- Webber, D. (2011). RSPO, Malaysia sets record as world's largest producer of certified sustainable palm oil. Kuala Lumpur.
- Khasanah, N., Van, Noordwijk, M., Slingerland, M., Sofyudin, M., & Stomph, D. (2020). Oil palm agroforestry can achieve economic and environmental gains as indicated by multifunctional land equivalent ratios. Front Sustain Food System, Vol. 3, pp 122.
- Hashim, Z., Subramaniam, V., Harun, M. H., & Kamarudin, N. (2018) Carbon footprint of oil palm planted on peat in Malaysia. Int J Life Cycle Assess, Vol. 23(6), pp 1201–1217.



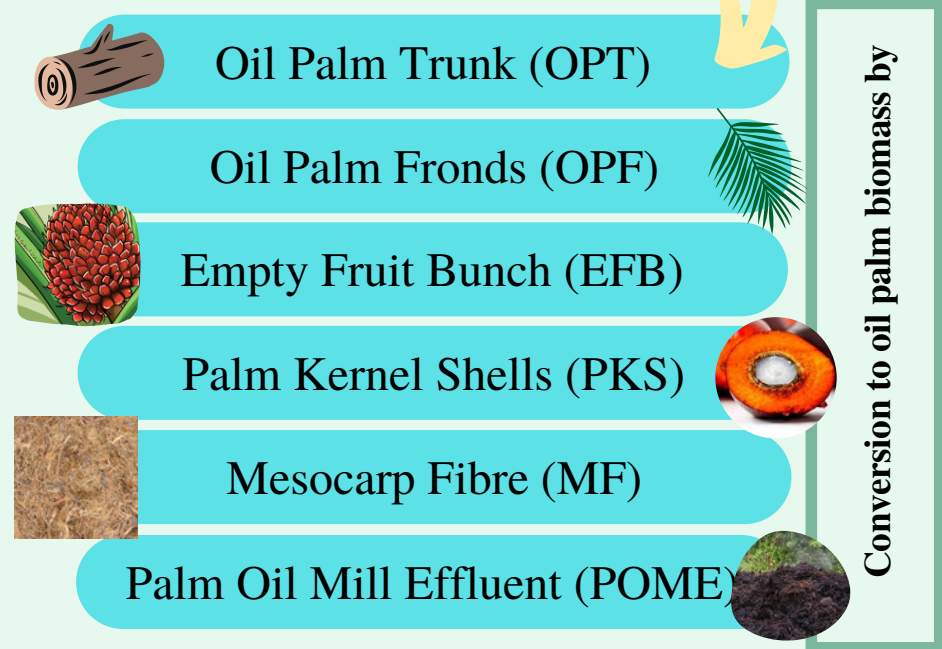


# Malaysian Palm Oil <sup>CONTRIBUTION TO</sup> UN Sustainable Development Goals

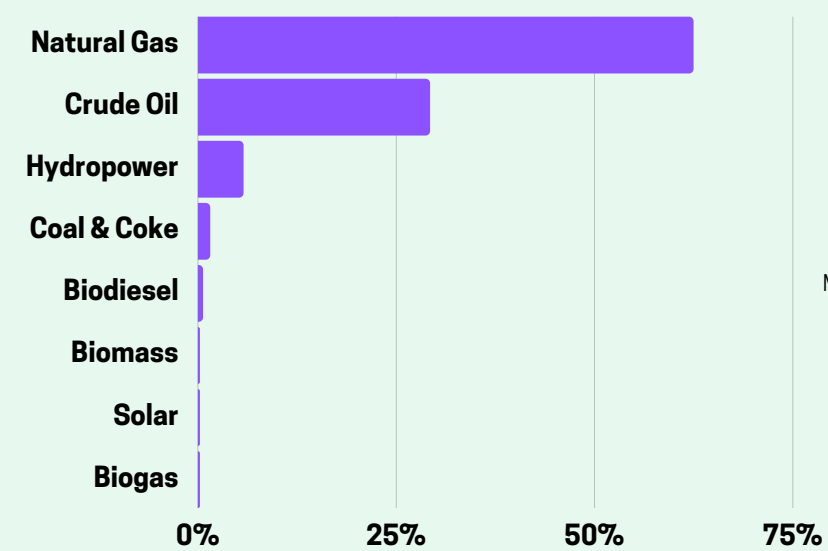


Palm oil only accounts for 10% of the tree

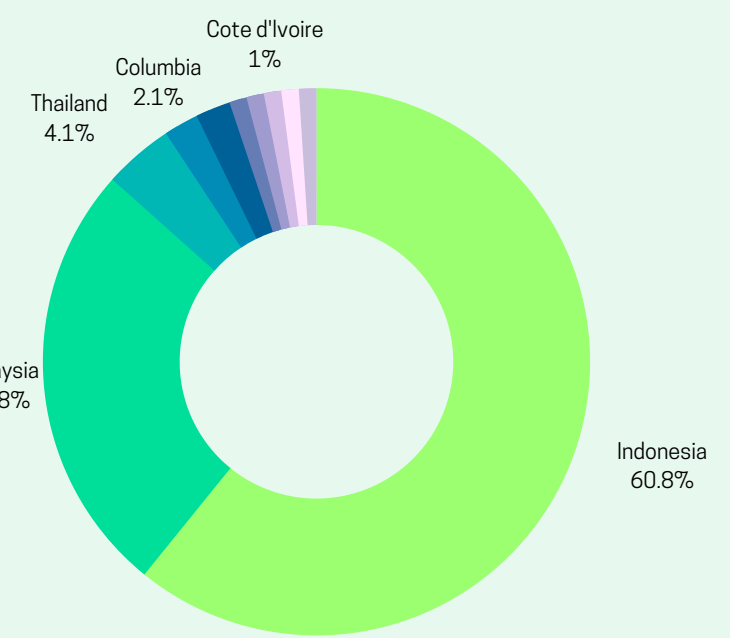
the remaining 90%



- ### Methods
- Biochemical
  - Thermochemical
  - Physical
  - Chemical



\*Primary Production by Fuel Type as in 2018

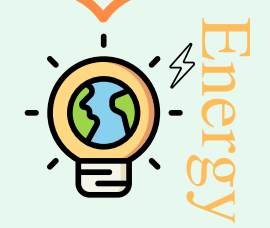
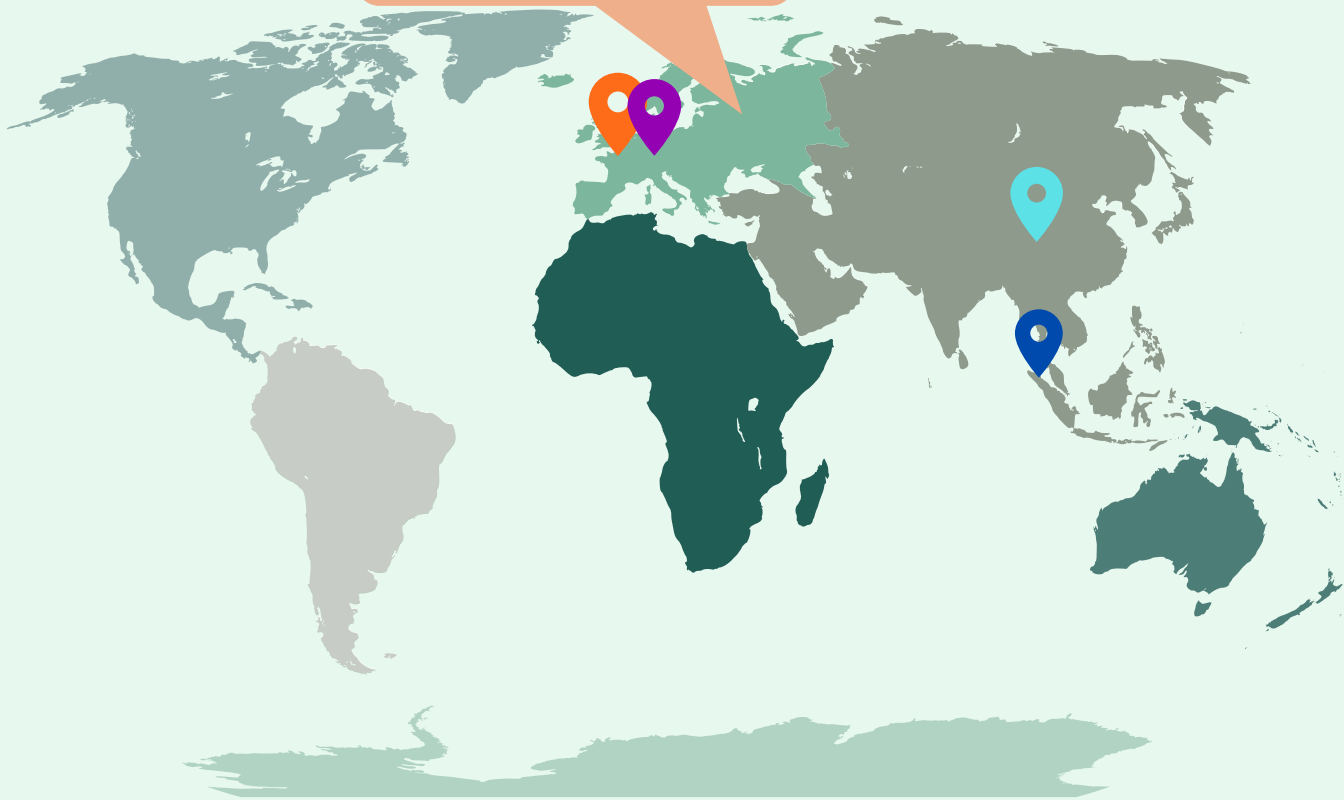


\*World Palm Oil Production 2022

### - References -

- [https://www.researchgate.net/publication/323496339\\_Oil\\_Palm\\_Elaeis\\_guineensis\\_Biomass\\_in\\_Malaysia\\_The\\_Present\\_and\\_Future\\_Pro Prospects](https://www.researchgate.net/publication/323496339_Oil_Palm_Elaeis_guineensis_Biomass_in_Malaysia_The_Present_and_Future_Pro Prospects)
- [https://www.st.gov.my/en/contents/files/download/116/Malaysia\\_Energy\\_Statistics\\_Handbook\\_20201.pdf](https://www.st.gov.my/en/contents/files/download/116/Malaysia_Energy_Statistics_Handbook_20201.pdf)
- <https://ipad.fas.usda.gov/cropexplorer/cropview/commodityView.aspx?cropid=4243000>
- <https://www.theedgemarkets.com/article/malaysia-foster-cordial-engagement-eu-palm-oil-industrys-benefit>
- <https://themalaysianreserve.com/2022/06/28/malaysia-to-promote-palm-oil-to-eu-through-cordial-engagement/>
- <https://sime-darbyplantation.com/sime-darby-plantation-berhad-and-cofco-establish-new-collaboration-on-palm-oil/>
- <https://www.ums.edu.my/ipbv2/en/more-news-and-info/297-ums-collaborating-with-german-biotech-company-on-sustainable-bioethanol-production-from-oil-palm-efb>
- <https://link.springer.com/article/10.1007/s11625-021-01052-4>
- <https://olenex.com/sustainability/sustainable-development-goals/sdg-8-decent-work-and-economic-growth/>
- [https://www.researchgate.net/publication/272219399\\_The\\_Economics\\_of\\_the\\_Malaysian\\_Palm\\_Oil\\_Industry\\_and\\_Its\\_Biodiesel\\_Potential](https://www.researchgate.net/publication/272219399_The_Economics_of_the_Malaysian_Palm_Oil_Industry_and_Its_Biodiesel_Potential)
- <https://themalaysianreserve.com/2021/01/05/palm-oil-export-earning-to-surpass-rm70b/>

Malaysia-EU partnership programmes aimed at enhancing the sustainability of the palm oil trade.



National Initiatives for Sustainable & Climate Smart Oil Palm Smallholders with the **Netherlands**.

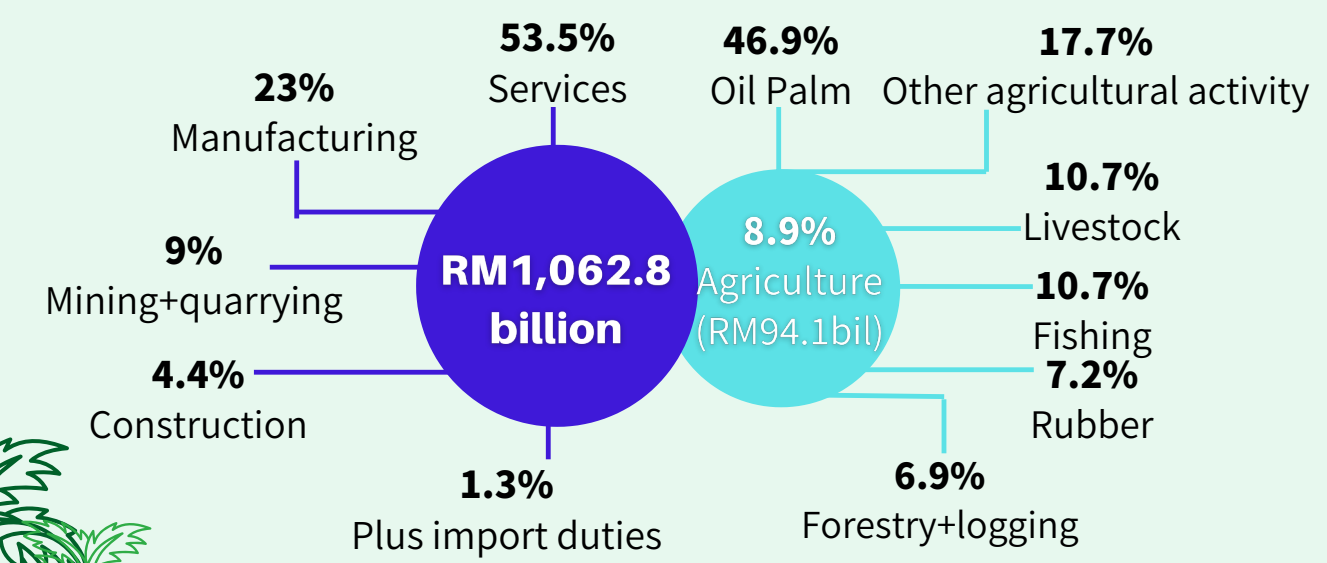
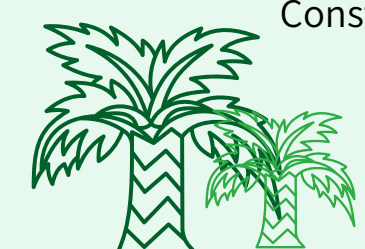
Malaysia & **Indonesia** had joint missions to manage palm oil-related problems in Europe under the Council of Palm Oil Producing Countries (CPOPC).

Sime Darby Plantation Berhad & **COFCO** collaborate to develop healthy palm oils & specialty fats in Malaysia.

University Malaysia Sabah (UMS) collaborating with **German** biotech company on sustainable bioethanol production from oil palm EFB to reduce agricultural waste.

Economic Contribution

- Increase the income of people within the palm oil industry
- Improve Malaysia's foreign exchange rate
- Production of food, biofuels, biomass and biomaterials



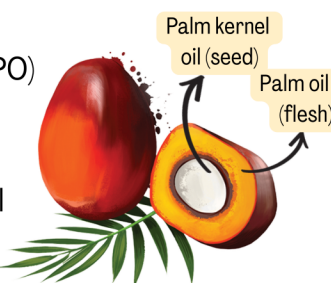
\*Percentage share of GDP by kind of economy activity



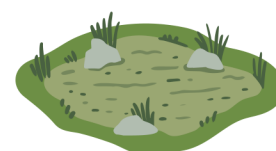
# HOW THE MALAYSIAN PALM OIL INDUSTRY BENEFITS OUR LIVES

## INTRODUCTION

- Palm oil is an edible vegetable oil, sourced from while oil palm, a tropical West African palm tree.
- Oil palm was first introduced to Peninsular Malaysia and then Malaya in the early 1870s but the first commercial planting of the oil palm took place in Selangor in 1917. [2]
- Oil palm produces :  
(A) crude palm oil (CPO)  
from the fibrous mesocarp/flesh  
(B) crude palm kernel oil (CPKO) from the kernels/seed.
- In Malaysia, the oil palm species commonly planted is *tenera*. It gives a good ratio of palm oil and palm kernel oil yields.



## FUTURE CONTRIBUTIONS



Plantation of oil palm can restore degraded land, and increase land efficiency in Malaysia

- [18] Minimize the usage of chemical pesticides and replace it by biological control agents



going **ZERO WASTE**

More advanced technology may help to achieve zero-waste industry

## 4 WASTE



**Biomass**  
the primary biomass available at the mills after oil recovery is mesocarp fibre (MF), palm kernel (PK) shell, and empty fruit bunch (EFB)

- Bioplastics**
- biopolymers can be used in food packaging [8]
  - biocomposites can be used for furniture [9]



- Biogas**
- methane from palm oil mill effluents could provide green energy



- Biochar [10]**
- from excess EFB and PK shell
  - used as a bio-adsorbent to remove residual pollutants



- Fertilisers**
- The EFB, fronds and trunks of the tree make for good organic fertilisers [11].

**Did you know?**  
about 5.9 million hectares of land are under oil palm cultivation in Malaysia



## 3 PRODUCTS

- a) **Cosmetics [6]**  
Soaps, shampoo, conditioner, makeup, skincare, fragrance



- c) **Cleaning products**  
Detergents, dishwashing, laundry products



- b) **Food**  
Ice cream, cookies, quick meals, cakes, instant noodles



- d) **Animal feed**  
e) **Biofuel**  
f) **Bioparaffin wax [7]** for batik



Palm oil supplies about 40% of the global vegetable oil

No hydrogenation is needed since palm oil olein is a saturated fat

## 1 PLANTATION



- MSPO CERTIFICATION SCHEME [3]**
- Development of Certification Standards
  - Peer reviewing of audit reports

- REDUCTION OF GREENHOUSE GASES**
- Palm tree absorb carbon dioxide
  - Zero-burning initiative can reduce carbon dioxide emissions
  - Can minimize global warming



- WILDLIFE CONSERVATION [4]**
- Malayan Tiger conservation programs
  - Elephant Grass Planting Project
  - Forestation provides habitat for animals on land



## 2 PROCESSING



### Crude Palm Oil (CPO)

[5] Bunch reception > Sterilization > Threshing > Fruit digestion > Pulp pressing > Oil clarification > Oil drying

### Crude Palm Kernel Oil (CPKO)

[5] Bunch reception > Sterilization > Threshing > Fruit digestion > Pulp pressing > Nut recovery > Nut drying > Nut cracking > Kernel separation > Kernel drying



- Industrialization increases productivity
- All these processes require specific machines and manpower to complete
- Generate job opportunities and provide income
- Increase product demand
- Contribute to Malaysia's overall economy



## -- FUN FACTS --

It is used in food dating back [12]  
**5,000 years**

Indonesia and Malaysia provide of the world's production **85%**

In 2017, palm oil made up about **1/3** of all vegetable oil consumed worldwide



Palm oil contains the highest amount of **vitamin E** compared to other vegetable oils [14]

[14] Roughly **50%**

of packaged goods sold in grocery stores contain palm oil

It grows best around the equator. [15]

[16] Palm oil trees can live up to **200 years!**



Palm oil is trans fat-free. [17]

It has the highest land use efficiency compared to other vegetable oils. [15]



Scan me for a list of references



**UNIVERSITY OF MALAYA**



# PRECIOUS GIFT FROM PALM

## INTRODUCTION

MALAYSIA was responsible for **34.3%** of the exports of palm oil in year **2020**<sup>[1]</sup> and cultivates oil palm on **3.31 million** hectares of land.<sup>[2]</sup>

Malaysian Palm Oil (MPO) is widely used in various **FOOD PRODUCTION** but it is criticized for **ENVIRONMENTAL IMPACT** due to its cultivation.

Hence, it is encouraged to investigate how **MPO** **United Nation** contributes to **Sustainable Development Goals (SDG)** & **ENVIRONMENTAL ISSUES**.<sup>[3]</sup> in the means of socio-economic growth how it can further be improved in combat

## HOW MPO SUPPORT UN SDGs

3 GOOD HEALTH AND WELL-BEING

Support **SDG 3:** Good Health And Well-being

Support **SDG 8:** Decent Work And Economic Growth

8 DECENT WORK AND ECONOMIC GROWTH

Support **SDG 12:** Responsible Consumption And Production

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

Palm Oil is **HEALTHY** to us!

**10%** polyunsaturated fatty acids **50%** saturated fatty acids **40%** monounsaturated fatty acids

### BENEFITS:

Lower Cholesterol Level

Suppress Inflammation

Affordable Pricing

Act as **antioxidants** and Enhance **immune system activity** and **protection** against **oxidation** by free radicals ★★★★★

Malaysia Palm Oil Council (MPOC) protects PO Plantation Workers

→ Fulfil indicator of Roundtable on Sustainable Palm Oil (RSPO); 6.2.4, 6.7.4, 7.2.10

→ Provide:



Medical Care



Accident Insurance



Adequate Housing



Sanitation

Palm Oil Industry Generates Profits to People, Society & Country

Create important **EMPLOYMENT**

Create **INCOME OPPORTUNITY**

Secure **ECONOMIC GROWTH** of smallholders and plantation workers

Give transparent and **FAIR PRICES**

Create **FAIR-TRADE** environment between growers and millers

### ACHIEVEMENTS:

**44%** Globally Exported Palm Oil Supplied by Malaysia Stimulates the Rapid Growth of PO industry

Fostered Domestic PO Refining Businesses, Achieving A Refining Capacity of **26.5 million tons**

Expand the Narrow Base of Economy Diversity and Generate Economic Growth

<sup>[11]</sup> Government used oil palm to **IMPROVE** Standard of Living of Poor in the Rural Areas



Rate of Poverty of Agriculture Sector **DECREASED** by **21.2%** in 1990

Malaysian Sustainable Palm Oil (MSPO) produce Certified Sustainable PO

→ First introduced in 2015

→ Implement penalties

### CONTRIBUTIONS:



Provide Transparency about PO Industry<sup>[12]</sup>



Reduce Carbon Footprints



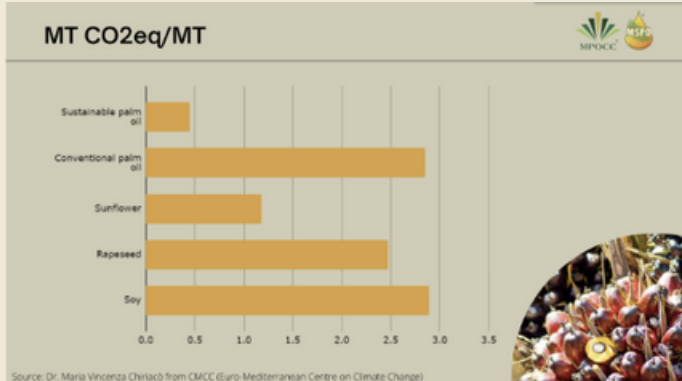
Eradicates Deforestation & Reconnects Fragmented Forests<sup>[13]</sup>



Advocates Zero Burning

### PROOFS:

Sustainable Palm Oil emits **LESSER CO<sup>2</sup> EQUIVALENT** PER TONNE compared to soy, rapeseed and sunflower!



## HOW MPO CAN SUPPORT UN SDGs IN FUTURE

Create Riparian Buffer Zones

To preserve forest patches within and around PO plantations  
To stabilize riverbanks and lessen crop water pollution

Implement the Soil Cover Crops Method

To prevent soil erosion and lessen the necessity for using herbicides to control weeds  
To increase groundwater replenishment

Practise Biological Pest Control

To reduce the use of pesticides and increase plantation biodiversity

Stress on Waste Management and Recovery

Combined with EFBs, processed residues can be composted and neutralized to create biofertilizer.

6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



### References:

[1] <https://mpoc.org.my/malaysian-palm-oil-industry/>  
[2] <http://s2ouy9p9bldgk.cloudfront.net/downloads/aplandusebridged.pdf>  
[3] <https://iopscience.iop.org/article/10.1088/1748-9526/ac6e77>  
[4] <https://pubmed.ncbi.nlm.nih.gov/14506002/>  
[5] <https://www.mpoc.org.my/mpoc-blogs/9-unsdg-goals-reinforced-by-mpo>  
[6] <https://pubmed.ncbi.nlm.nih.gov/12656004/>  
[7] <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4247006/#CR12>  
[8] <https://mpoc.org.my/q-a-series-on-palm-oil-facts-on-malaysian-palm-oil/>

[9] [https://www.linkedin.com/posts/krishnan-jepersen-6256515\\_palm-oil-sdg-materiality-report-activity-689229469224587264-kPrD?utm\\_source=share&utm\\_medium=member\\_desktop](https://www.linkedin.com/posts/krishnan-jepersen-6256515_palm-oil-sdg-materiality-report-activity-689229469224587264-kPrD?utm_source=share&utm_medium=member_desktop)  
[10] <https://link.springer.com/article/10.1007/s11625-021-01052-4>  
[11] <https://core.ac.uk/download/pdf/6054187.pdf>  
[12] [https://www.ukm.my/news/Latest\\_News/making-palm-oil-industry-more-sustainable/](https://www.ukm.my/news/Latest_News/making-palm-oil-industry-more-sustainable/)  
[13] <https://www.theparliamentmagazine.eu/news/article/mpo-sustainable-palm-oil-redefined>  
[14] <https://www.mpoc.org.my/mpoc-blogs/sustainable-palm-oil-an-important-example-of-climate-change-mitigation>  
[15] [https://scholar.harvard.edu/files/cagoh/files/mohd\\_hanifah\\_et\\_al\\_2021\\_-\\_with\\_supplement.pdf](https://scholar.harvard.edu/files/cagoh/files/mohd_hanifah_et_al_2021_-_with_supplement.pdf)

### Image sources:

[https://commons.wikimedia.org/wiki/File/Riparian\\_buffer\\_on\\_Bear\\_Creek\\_in\\_Story\\_County\\_Iowa.JPG](https://commons.wikimedia.org/wiki/File/Riparian_buffer_on_Bear_Creek_in_Story_County_Iowa.JPG)  
<https://www.cbd.int/cepa/toolkit/html/resources/89/897FE218-90F0-4030-B7A3-5A87869C5C88/Sustainable%20Palm%20Oil.pdf>  
<https://www.inside-rge.com/sustainable-operations/nats-here-come-the-owls/>  
<https://www.thechemicalengineer.com/features/palm-oil-better-with-enzymes/>  
<https://www.vectrasy.com/vector-art/128600-palm-oil-vectors>  
<https://www.flaticon.com/>  
<https://mpoc.org.my/>  
<https://mpo.mpob.gov.my/>  
[https://en.wikipedia.org/wiki/United\\_Nations](https://en.wikipedia.org/wiki/United_Nations)

### OTHER UN SDGs THAT MPO HAS SUPPORTED:

1 NO POVERTY

2 ZERO HUNGER

5 GENDER EQUALITY

10 REDUCED INEQUALITIES

17 PARTNERSHIPS FOR THE GOALS



# Achieving UN SDGs with MALAYSIAN PALM OIL

By Sean Choo Yan Jhia - Department of Aerospace Engineering  
Chua Hoe-Teng - Department of Aerospace Engineering  
Nicholas Patrick Boudville - Department of Mechanical Engineering

UNIVERSITY OF  
**Southampton**  
MALAYSIA

**IPOSC**  
INTERNATIONAL PALM OIL  
SUSTAINABILITY CONFERENCE 2022

**IChemE**  
Palm Oil Processing  
Special Interest Group



## 1917

Malaysia's palm oil industry started when Frenchman Henri Fauconnier commercially planted the oil palm in Batang Berjuntai (Bestari Jaya), Selangor.<sup>1</sup>



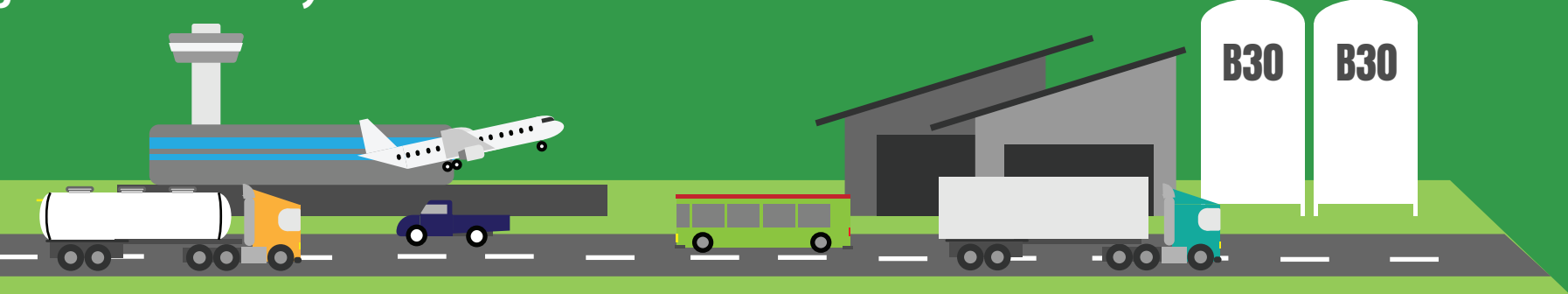
## 2000 - 2010

The Malaysia Palm Oil Board (MPOB) was created to overlook all oil palm research & production.<sup>3</sup> In the following decade, the Malaysian Oil Palm Wildlife Conservation Fund would be initiated to assist conservation efforts.<sup>4</sup>



## 2020 - present

Malaysia launches B20 biodiesel mandate.<sup>7</sup> The MPOB has also partnered with multiple Chinese institutions to produce biodiesel and biojet fuel in Malaysia.<sup>8</sup>



## 1970 - 2000

Malaysia begin export of palm oil and started research on the potential use of palm oil as feedstock.<sup>2</sup>



## 2010 - 2020

2015, Malaysia signed the Paris Agreement, targeting a reduction in GHG emissions intensity by 45%, by 2030<sup>5</sup>, and implemented the Malaysia Sustainable Palm Oil (MSPO) certification to increase sustainability of palm oil.<sup>6</sup>

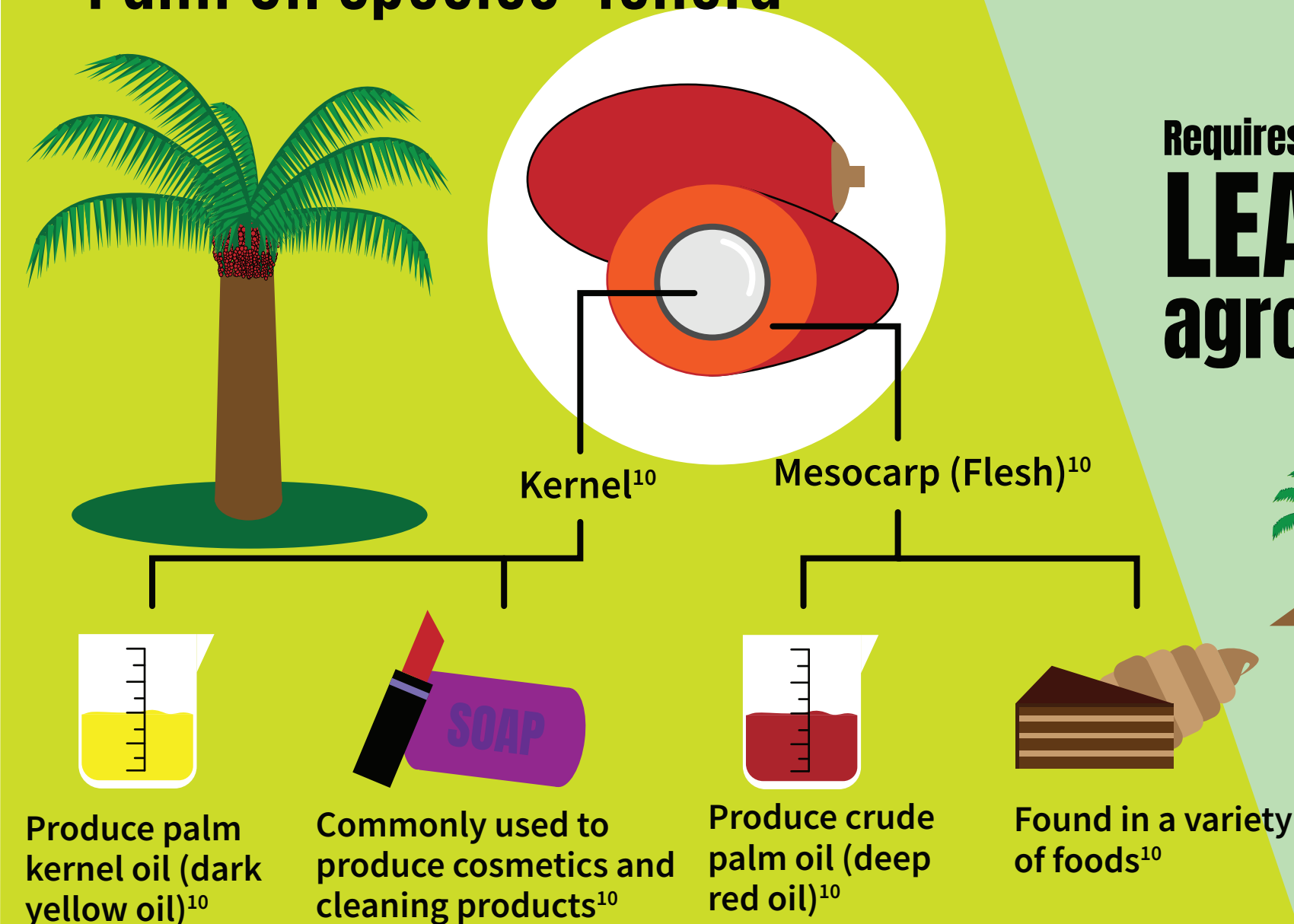


## 2030

Targets 100% Biodiesel sourced from certified sustainable palm oil, B30 (transport) and B10 (industry).<sup>7</sup>

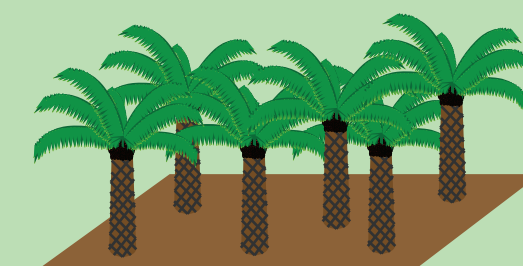
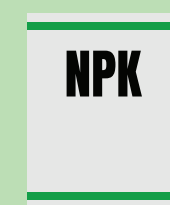


## Palm Oil Species: Tenera<sup>9</sup>



## Sustainability of Palm Oil:

Requires the **LEAST** agrochemical & fossil fuels inputs for cultivation.<sup>11</sup>

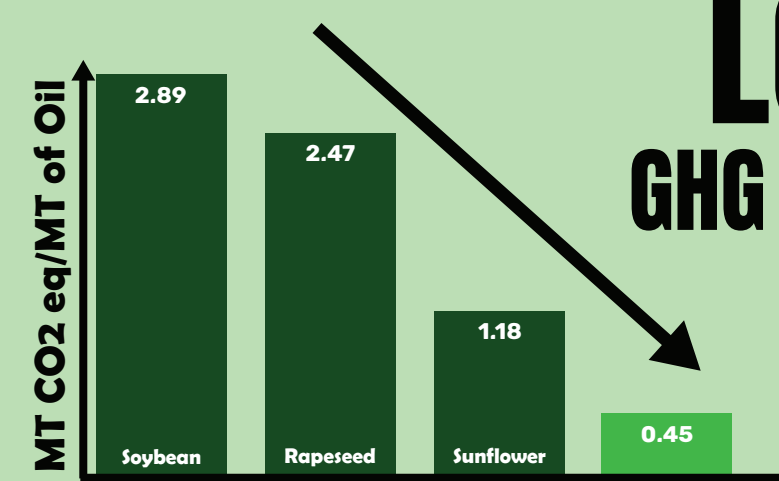


1 ha

= **5x More** oil Yield per ha<sup>11</sup>



**LOWEST** GHG Emissions among other oil crops<sup>11</sup>



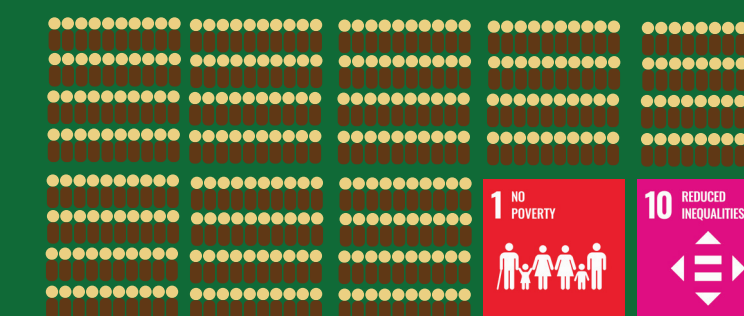
## Significance of Palm Oil:

**5.9 MILLION ha** of oil palm planted<sup>7</sup>

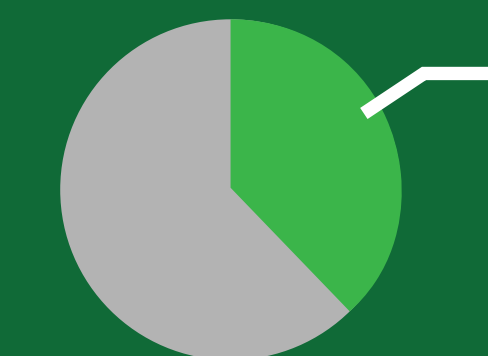


x 7

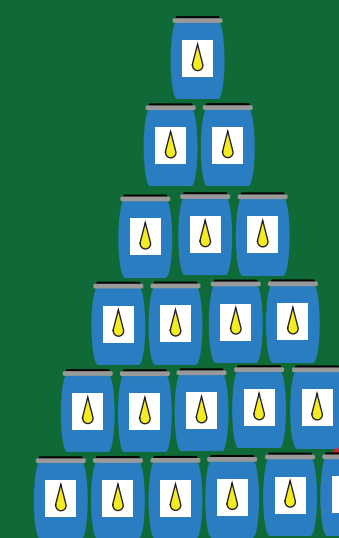
**> 400,000** workers<sup>7</sup>



**38%** of Malaysia's Agricultural Output<sup>12</sup>



**Palm Oil Export<sup>7</sup>:**



26.7 million tonnes

**RM 73.3 BILLION**

1. Palm Oil Facts. (n.d.). Malaysian Palm Oil Council. <https://mpoc.org.my/palm-oil-facts/>  
2. B. Nambiar, "Malaysia: 100 Years of Resilient Palm Oil Economic Performance," Journal of Oil Palm Research, pp. 13-25, 2018, doi: 10.21894/jopr.2018.0014  
3. "About Us - MPOB Portal." Malaysian Palm Oil Board (MPOB). <https://mpob.gov.my/corporate-info/about-us> (accessed 22 Aug. 2022)  
4. "Malaysian Palm Oil Wildlife Conservation Fund (MPOWCF)." Malaysian Palm Oil Council (MPOC). <http://mpoc.org.my/malaysian-palm-oil-wildlife-conservation-fund-mpowcf/> (accessed 22 Aug. 2022)  
5. "Towards a Low Carbon Emissions Pathway." CEO Action Network (CAN). Climate Governance Malaysia. [Online]. Available: [https://www.bnm.gov.my/documents/20124/3770663/jc3\\_can\\_cgm\\_report\\_2022.pdf](https://www.bnm.gov.my/documents/20124/3770663/jc3_can_cgm_report_2022.pdf)  
6. R. Teo. "Sustaining the future for palm oil." Borneo Post Online. <https://www.theborneopost.com/2019/02/24/sustaining-the-future-for-palm-oil/> (accessed 24 Aug. 2022)  
7. "NATIONAL AGRICULTURAL POLICY (2021-2030)." Ministry of Plantation Industries and Commodities (MPOC) (accessed 23 Aug. 2022)  
8. Yusof, A., 2022. New Straits Times. Available: <https://www.nst.com.my/business/2021/12/753889/mpob-chinese-partners-produce-biodiesel-and-biojet-fuel-malaysia> (Accessed 25 August 2022)  
9. Akvopedia.org. 2022. Sustainable Oil Palm Farming / Tenera, Dura, and Pisifera - Akvopedia. Available: [https://akvopedia.org/wiki/Sustainable\\_Oil\\_Palm\\_Farming\\_-\\_Tenera,\\_Dura,\\_and\\_Pisifera](https://akvopedia.org/wiki/Sustainable_Oil_Palm_Farming_-_Tenera,_Dura,_and_Pisifera) (Accessed 22 August 2022)  
10. Bauer, S., 2022. The anatomy of an oil palm. China Dialogue. Available: <https://chinadialogue.net/en/food/the-anatomy-of-an-oil-palm/#:~:text=Each%20fruit%20contains%20around%2050%2C%20cosmetics%2C%20plastics%20and%20chemicals> (Accessed 24 August 2022)  
11. "Fact Sheets Malaysian Palm Oil." Malaysian Palm Oil Council. <https://mpoc.org.my/fact-sheets-malaysian-palm-oil/> (accessed 23 Aug. 2022)  
12. F. K. Chang. "Palm Oil: Malaysian Economic Interests and Foreign Relations." Foreign Policy Research Institute. <https://www.fpri.org/article/2021/04/palm-oil-malaysian-economic-interests-and-foreign-relations/> (accessed 25 Aug. 2022)




# Malaysia's Road to achieve UN Sustainable Development Goals via Palm Oil




 **17.9%** of Malaysia's land covered with palm oil plantation

 **~ 1,000,000** people employed (directly & indirectly)

 ensures that plantation worker is paid by the **minimum WAGE law**

 **3.8t** of palm oil is produced for every 1 hectare of land used

 land efficiency = affordable (cooking oil + palm-based food products) helps contribute to

**> 5x higher yield than sunflower & soy oil**



Palm oil is RICH in:

- pro-vitamin A carotenoids
- vitamin E

and consists of NO:

- cholesterol
- trans fats

the essential nutrients available in cheap palm oil will help eradicate

**STUNTING WASTING OBESITY** in Malaysian Children

Created by:

CHANG MUN YUEN  
LOH JUN MANN  
SITI HANIFAH ADIIBA

Monash University Malaysia  
Monash Industry Palm Oil  
Research Platform



**+ 4.6 %**  
increase in Malaysia's food security index from 2012 to 2021

**- 2.6 %**  
decrease in Malaysia's hunger index from 2000 to 2021



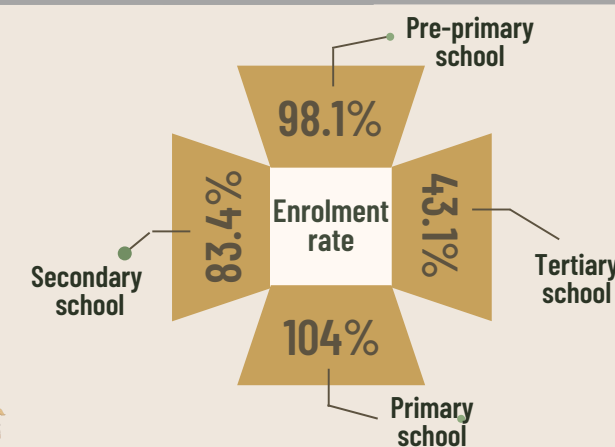
Population using at least basic drinking water services is **97.1%** as of 2020

Population using at least basic sanitation services is **99.6%** as of 2018

**35%**  
diarrhoeal illness



Adult literacy Rate in 2019 is **96.8%**



Palm oil industry contributed

**2.7%** to Malaysia's GDP  
and **37.7%** of agricultural output



**FAIR & TRANSPARENT**  
trade environment



**RM60 million** allocated for  
**MECHANISATION & AUTOMATION**



The growth of the palm oil industry has made Malaysian cities more

**inclusive, safe, resilient and sustainable**

