

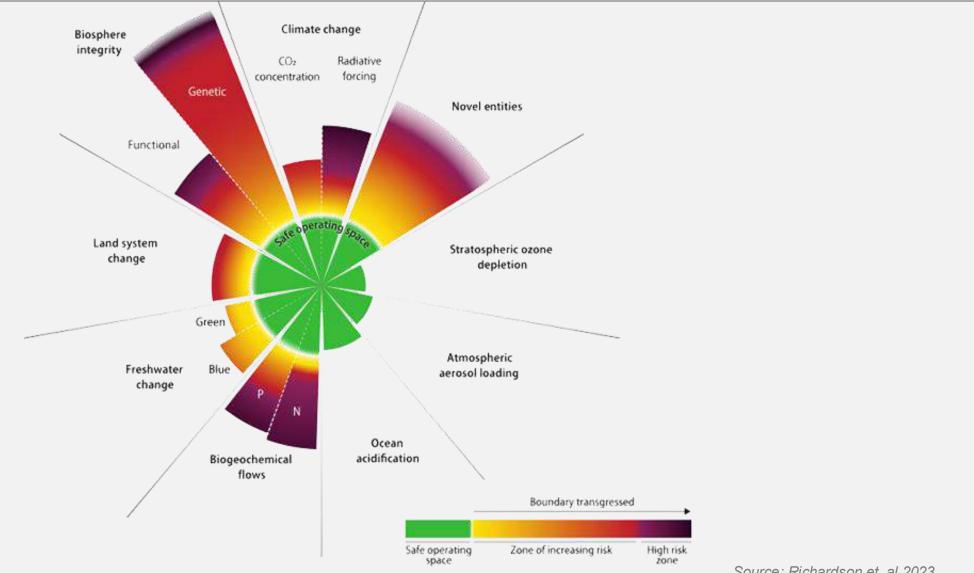


FOOD SYSTEMS:
CHALLENGES, AND
OPPORTUNITIES FOR THE
PALM OIL AGROINDUSTRY

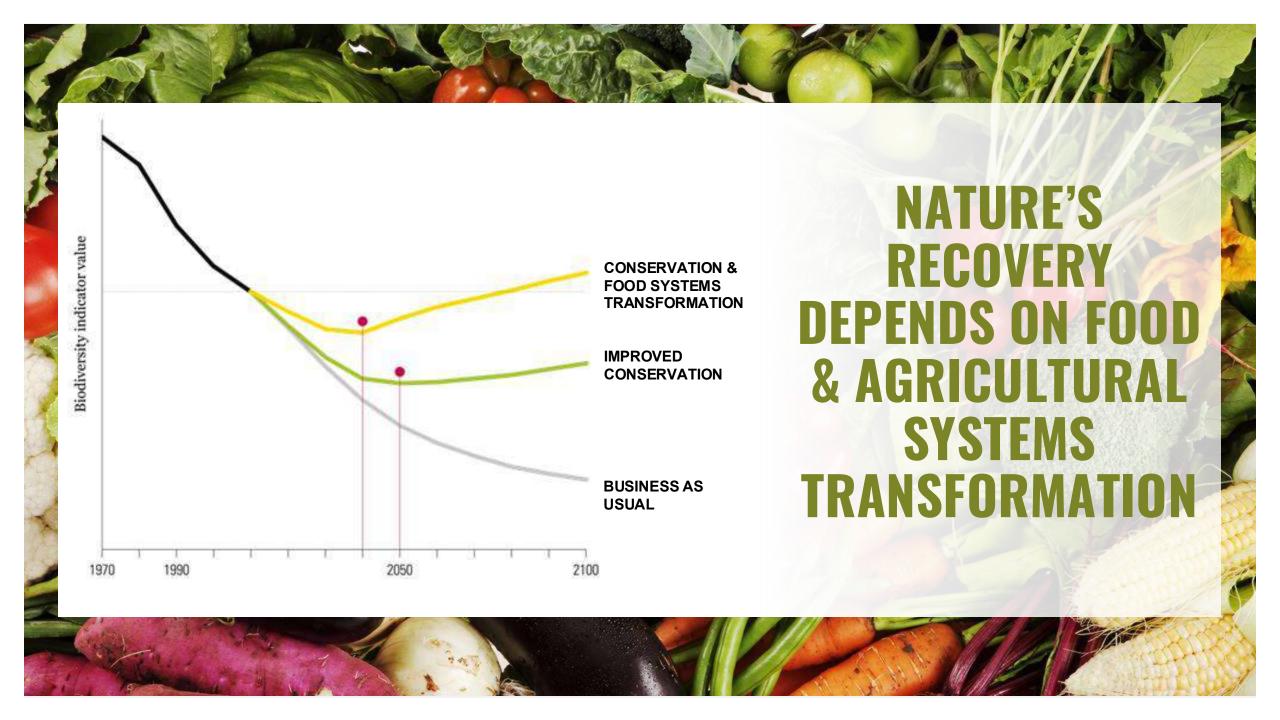
João Campari, Ph. D.
Global Leader, Food & Agriculture Practice
WWF International

WE ARE TRANSGRESSING PLANETARY BOUNDARIES



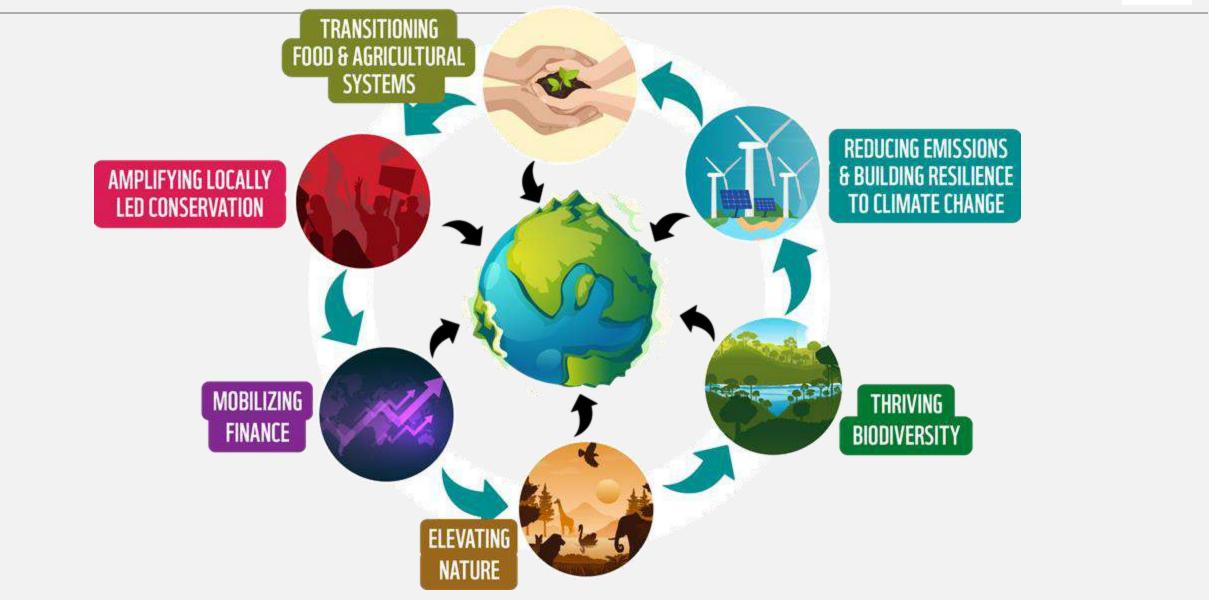


Source: Richardson et. al 2023



PART OF A HOLISTIC APPROACH TO CONSERVATION





FOOD SYSTEMS ARE THE MAIN THREAT TO PEOPLE AND PLANET



Food systems overexploit and inefficiently use natural resources...



LAND USE

of inhabitable land is used for food production



WATER USE 70%

of freshwater withdrawals are used for food produciton



DIVERSITY **75%**

of food comes from 12 crops and 5 animals



UNEATEN FOOD

of food produced is lost or wasted



LIVESTOCK

of croplands are used to grow feed for livestock

leading to an unhealthy planet...



BIODIVERSITY LOSS

of terrestrial biodiversity loss is caused by food systems



CLIMATE CHANGE

of greenhouse gas emissions are caused by food systems



NATURE LOSS

of deforestation is caused by food systems



BIODIVERSITY LOSS

50%

of freshwater biodiversity loss is caused by food systems

and unhealthy people.



FOOD ACCESS

of people lack regular access to adequate food



HEALTH

of people are obese or overweight



HUNGER

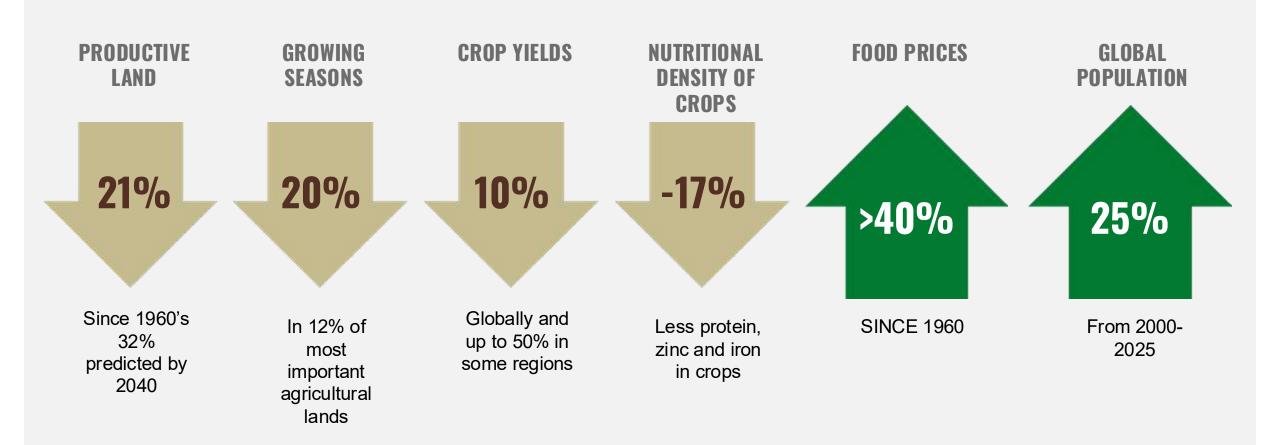
Of people go hungry

NET VALUE OF FOOD SYSTEMS NEGATIVE USD11 TRILLION PER YEAR

Sources: (1) WWF Living Planet Report 2020, (2) WWF Driven to Waste 2022, (3) FAO State of Food Security and Nutrition 2023, (4) World Obesity Federation 2023, (5) Crippa et. al 2021 (6) FAO, 1999 (7) Scientific Group of the UN Food Systems Summit,

THERE ARE SEVERE RISKS FOR FOOD SECURITY

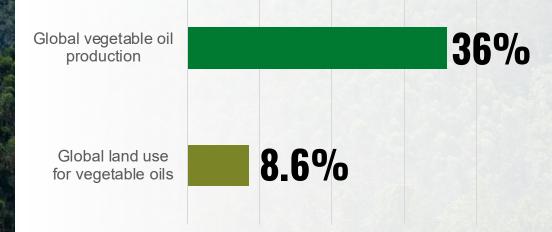




UNCCD, Global Land Outlook ILRI & WWF, Rangelands Atlas IPBES, Assessment Report on Land Degradation and Restoration IFPRI, GCAN Policy Note FAO, FAO Food Price Index UN, World Population Prospects



EFFICIENT LAND USE

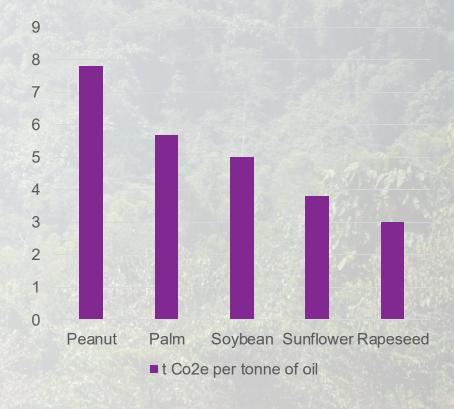


>4x

average amount of vegetable oil produced per hectare of land versus other crops

Our World in Data, Palm Oil

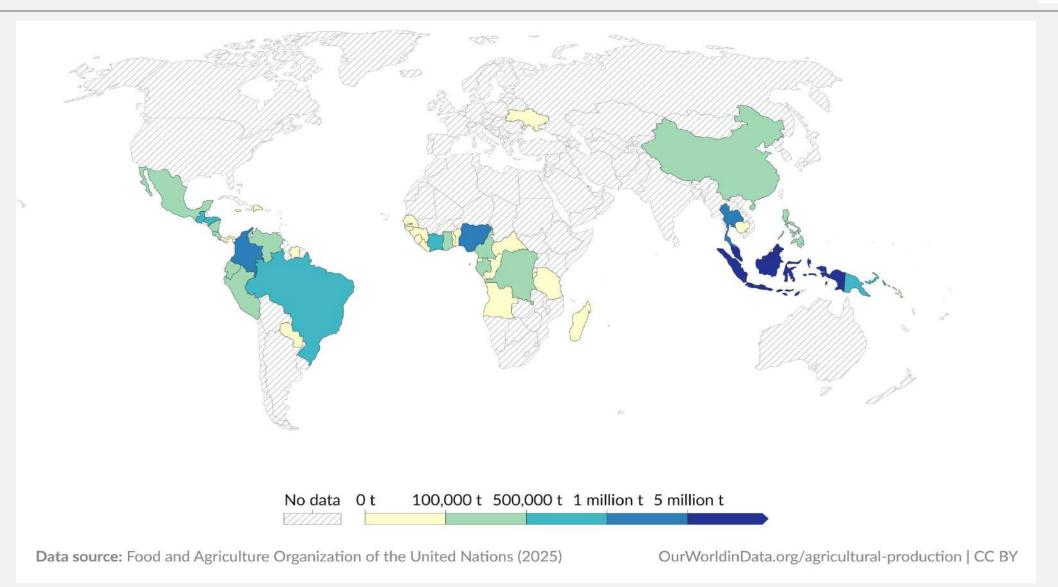
BUT HIGH CARBON FOOTPRINT



Efeca, Carbon emission and palm oil

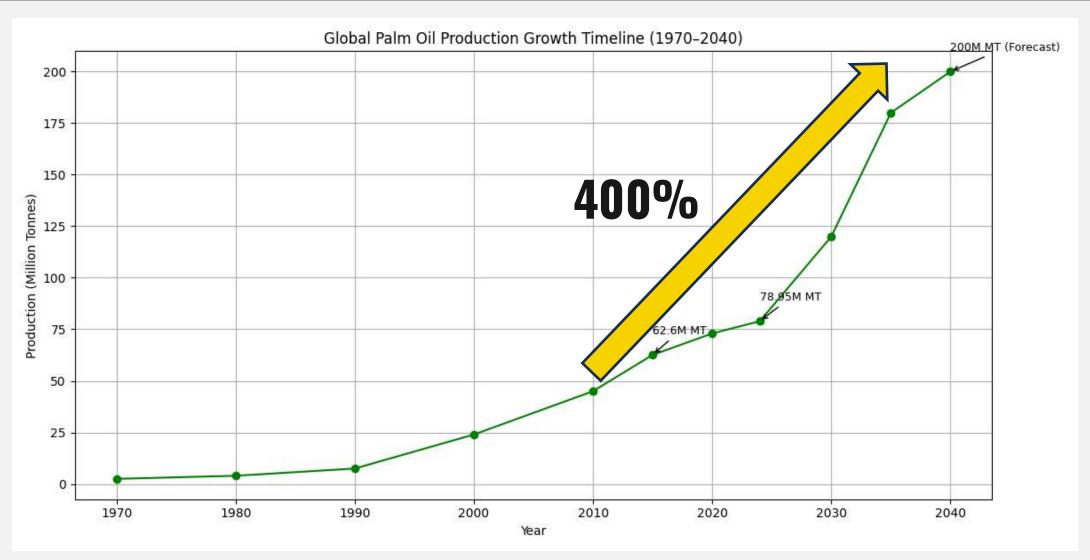
OVERLAP WITH KEY CONSERVATION AREAS





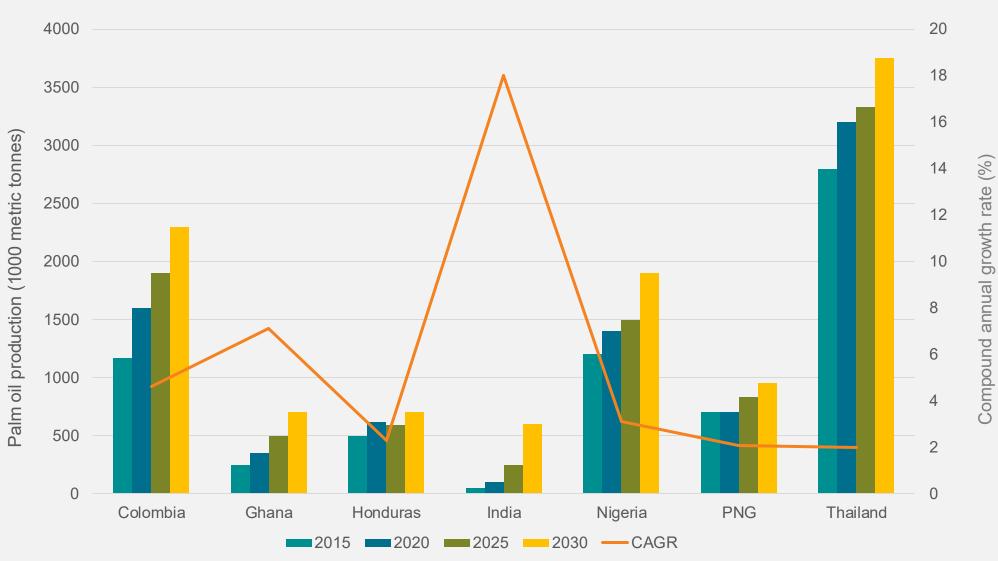
INCREASED DEMAND INCREASES THREATS





TROPICAL DEFORESTATION COULD INCREASE

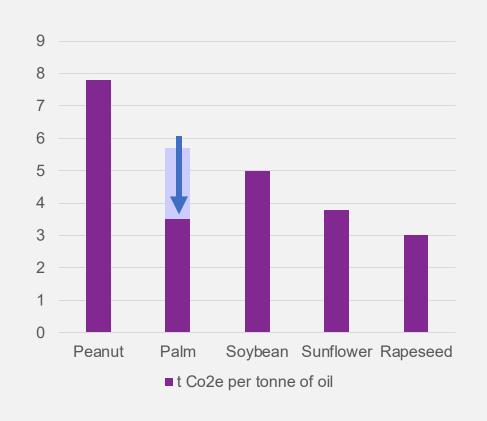






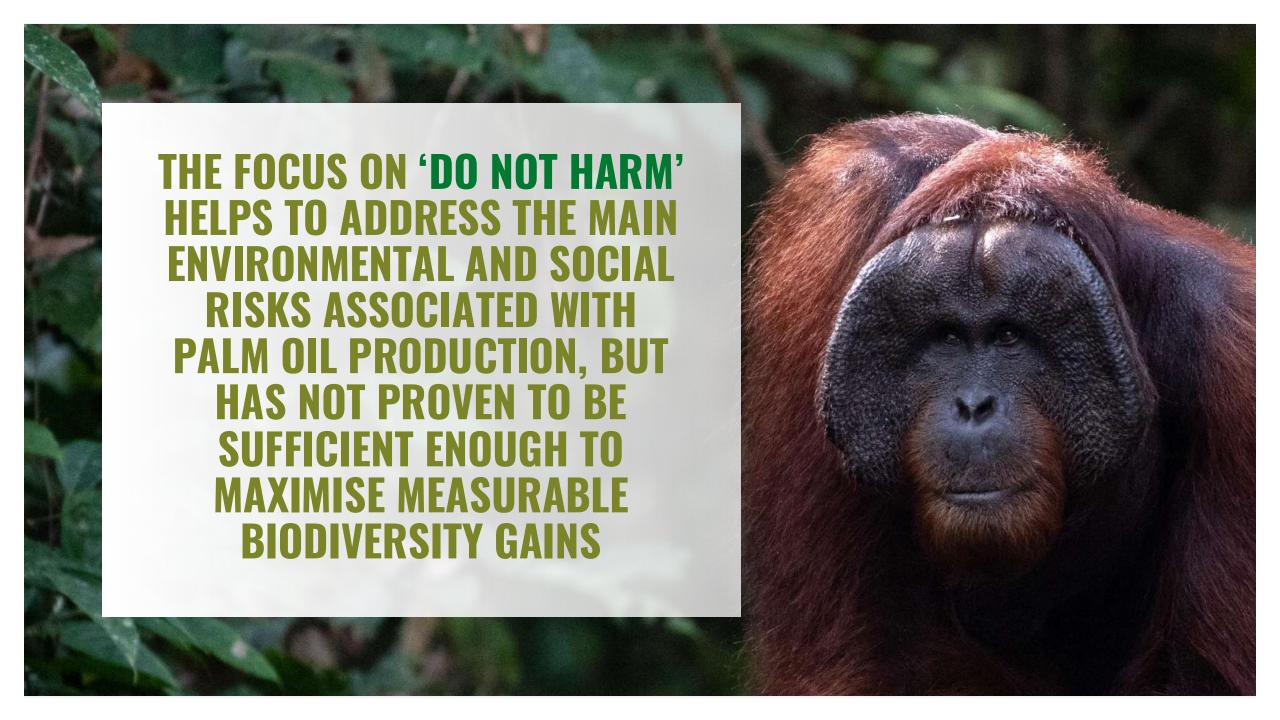
SUSTAINABLY CERTIFIED PALM OIL





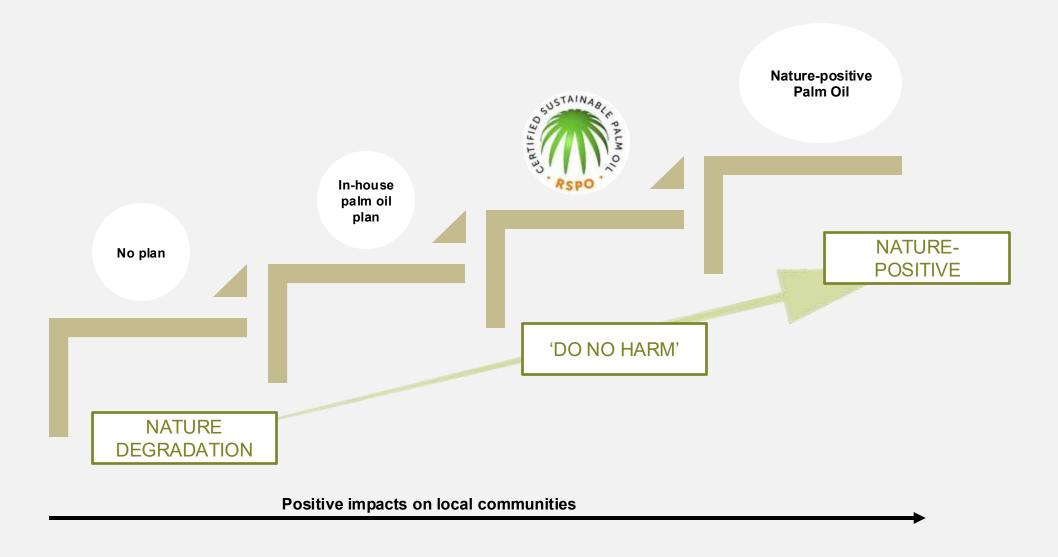


But in 2024 only 20% of global palm oil supply was certified sustainable



SHIFT TO REGENERATIVE PALM OIL PRODUCTION





GOAL

BY 2030 FOOD AND AGRICULTURAL SYSTEMS ARE IMPROVED THROUGH JUST TRANSITIONS, SECURING NATURE FROM FURTHER CONVERSION, OVERFISHING AND DEGRADATION, WITH NATURE-POSITIVE APPROACHES APPLIED IN 800 MILLION HECTARES OF KEY AREAS.

THE FOUR PATHWAYS FOR ACTION (4Ps)

PLANET

Influence changes in scaling mechanisms to deliver new and ambitious decisions, policies and commitments at global and national levels, so that food and agricultural systems operate within planetary boundaries, avoiding negative tipping points and promoting positive ones.

PLACES

Deliver action to protect nature from deforestation and conversion for food production, sustainably manage existing food and agricultural production systems and restore degraded ecosystem services and rehabilitate soil function for sustainable food production.

PEOPLE

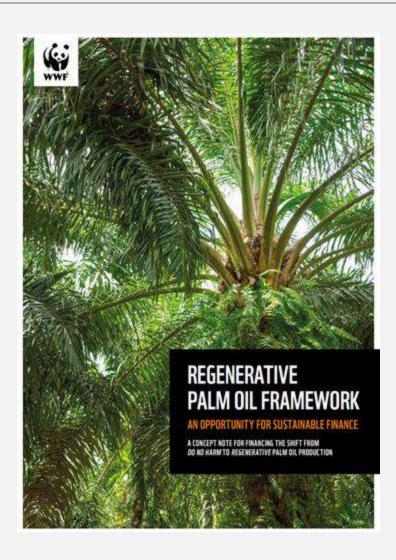
All people - particularly Indigenous Peoples, local communities, smallholder farmers, and other underrepresented groups - are meaningfully included in decision-making processes related to food and agriculture, and equitably benefit from their participation.

PROSPERITY

Externalities from food and agricultural systems are quantified to establish an economic narrative and call to action in which nature-positive food and agricultural systems can improve prosperity - resilience, health and livelihoods - of all nations and people.

WWF'S REGENERATIVE PALM OIL FRAMEWORK





SIX SOCIAL AND ENVIRONMENTAL PERFORMANCE TARGETS

Maintain crop productivity

Ensure social and economic wellbeing

Enhance biodiversity

Support ecosystem services

Strengthen climate resilience

Reduce greenhouse gas emissions and increase carbon sequestration

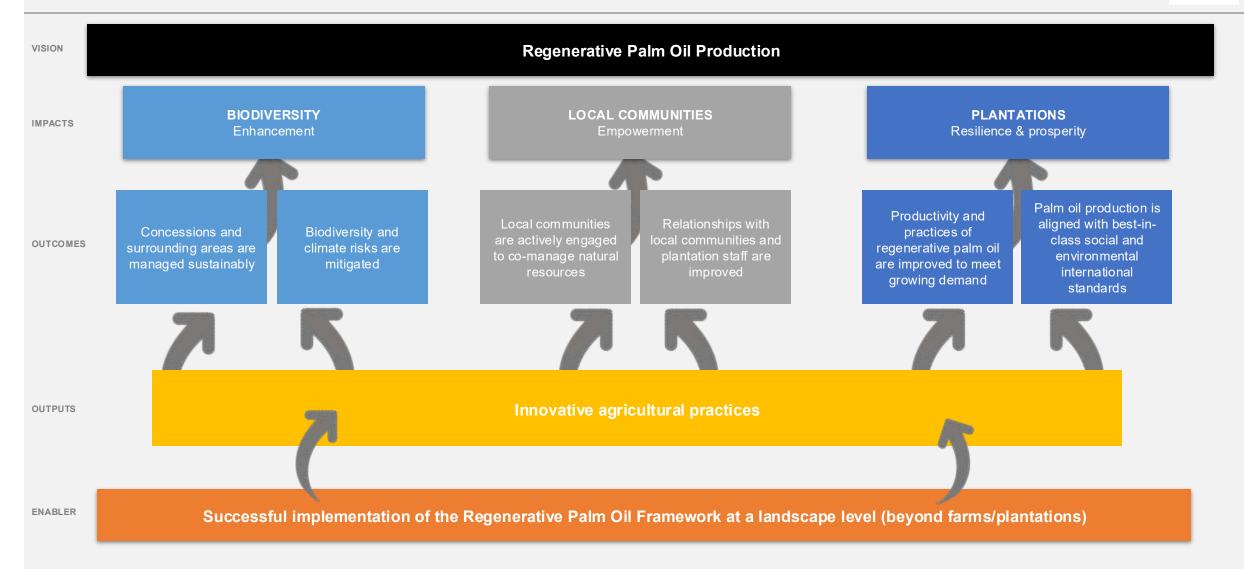
REGENERATIVE PALM OIL: THE PROPOSED COMMON DEFINITION





REGENERATIVE PALM OIL: OUR THEORY OF CHANGE







TOGETHER IT IS POSSIBLE TO TRANSFORM FOOD & AGRICULTURAL SYSTEMS AND RESTORE NATURE



Working to sustain the natural world for people and wildlife

together possible...

panda.org

MUCHAS GRACIAS



2025

