











A time of changes, a time for changes

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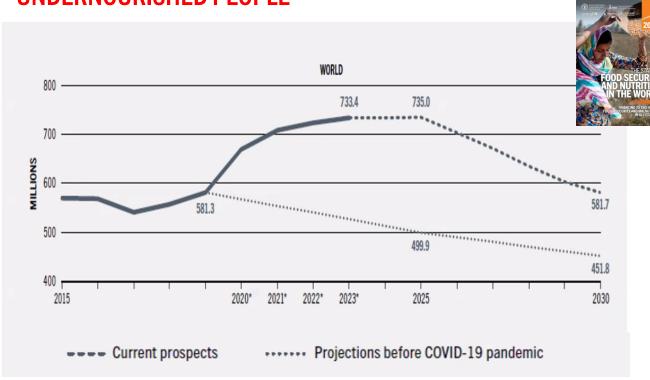




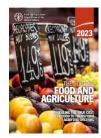




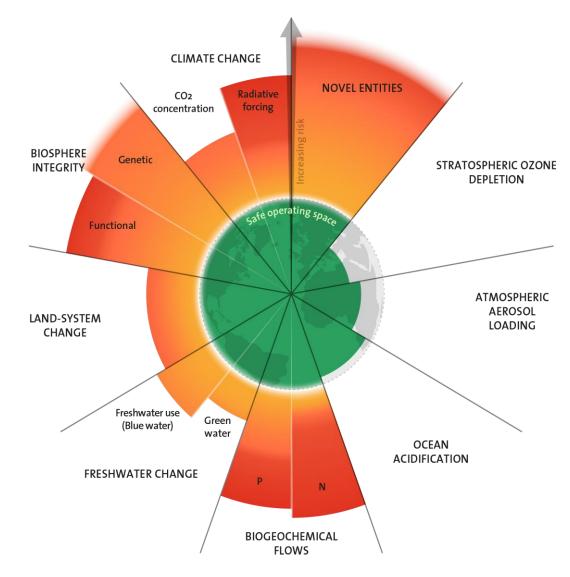
# PROJECTIONS OF THE GLOBAL NUMBER OF UNDERNOURISHED PEOPLE



NOTES: \* Projected values. The 2020, 2021 and 2022 values are based on the middle of the projected ranges.



#### THE 2023 UPDATE ON PLANETARY BOUNDARIES



Source: "Azote for Stockholm Resilience Centre, based on analysis in Richardson *et al.*, 2023".

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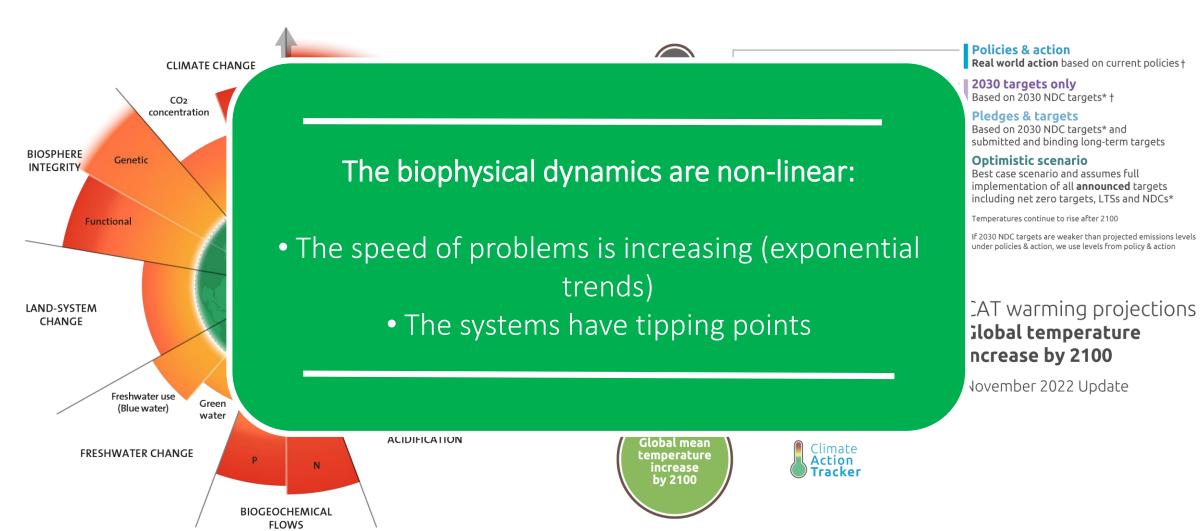






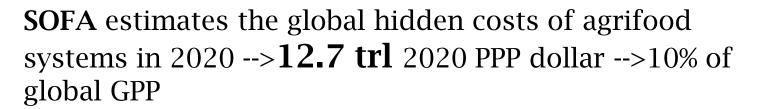


#### THE 2023 UPDATE ON PLANETARY BOUNDARIES



Source: "Azote for Stockholm Resilience Centre, based on analysis in Richardson *et al.*, 2023".

#### Unhealthy diets are costly!



- Health-related hidden costs from poor diets (>70% of all costs)
- Environmental costs
- Social costs



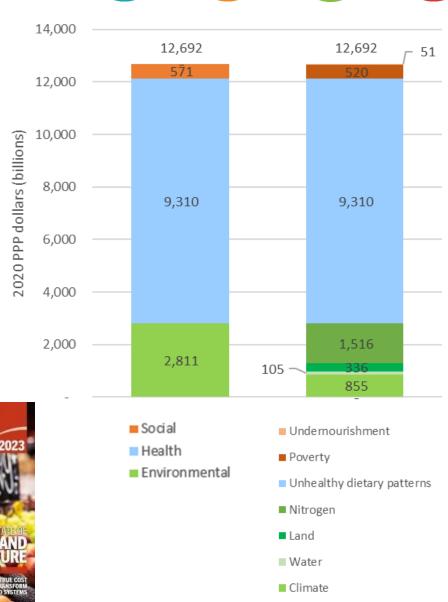












Global hidden costs



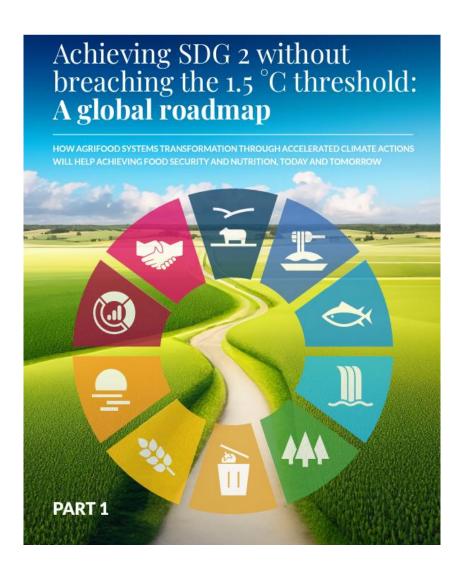






# A theory and instrument of change: The FAO Global Roadmap





# Value Proposition of the Roadmap









#### Integrated approach

Harmonised framework but aimed to be contextualised

Systemic thinking & Sectoral implementation

#### Special usefulness and messages for

- Ministries of Agriculture and Food
- Ministries of Environment
- Ministries of Finance
- Private sector

**Inclusive** 

## Why FAO & the UN?

- Political engagement with countries & Legitimacy.
  - Technical agency:
     expertise and
     knowledge as levers for
     change.

# It is a multi-year process











2023 Roadmap Part I

Presenting a global vision

#### **COP 29**

2024 Roadmap Part II

Moving from a global to regional view and from a vision to costing and financing

#### **COP 30**

2025 Roadmap Part III

Establishing country action plans, monitoring and accountability

# Key messages

#### **Key messages from the FAO Global Roadmap**









We need to urgently act and change the narrative.

Food security and nutrition is an essential human right and will not be achieved sustainably without climate actions.

Silos must be broken across concepts, actors and sectors. It is a necessity to overcome specific trade-offs.

Agrifood systems must be on the forefront of a **just transition** and inequalities must be reduced.

Solutions, gathered in **10** domains.

**International coordination** is an absolute necessity.

#### ... So, we can achieve







While making

agrifood

systems net

carbon sink

and preserving

planetary

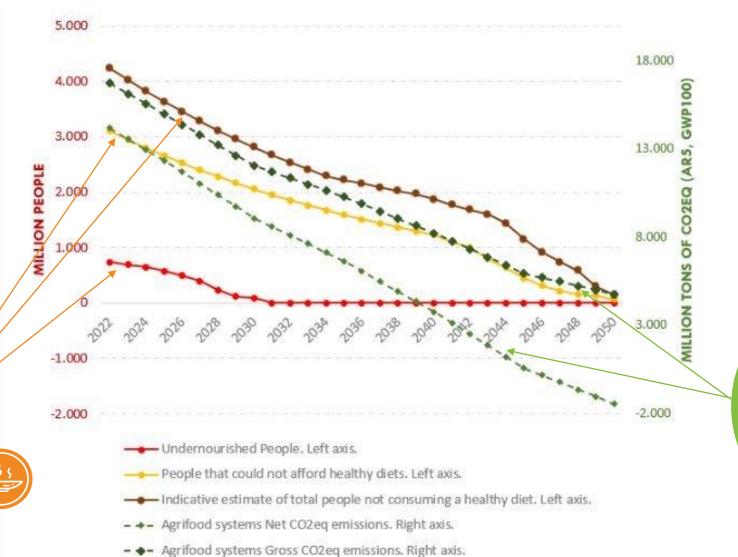
biodiversity



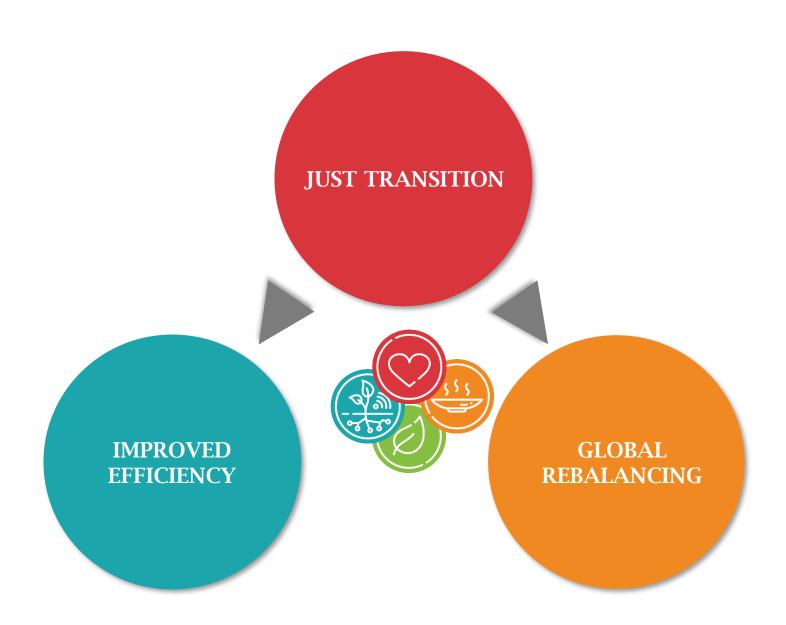
Provide Good Food for All, Today and Tomorrow



Eradicating hunger and providing healthy diets for everyone



# One principle - Two guides ...



### Aspirational goals & implementable solutions









#### 10 DOMAINS

· Livestock, Crops, Fisheries and Aquaculture, Forest and Wetlands, Soil and Water, Food Loss and Waste, Enabling Healthy Diets for all, Data and Inclusive Policies

#### 120 ACTIONS

 Actionable options based on core FAO materials and new evidences and requiring to be contextualized

#### 20 MILESTONES

Simple steps to monitor and foster progresses



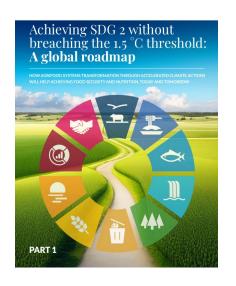
## 10 Domains





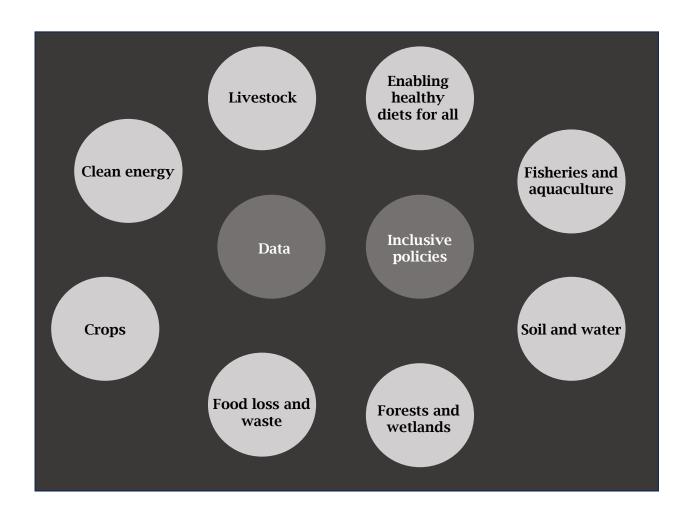












Achieving SDG 2 without breaching the 1.5 °C threshold: FAO's global roadmap

#### **Domains & Actions**





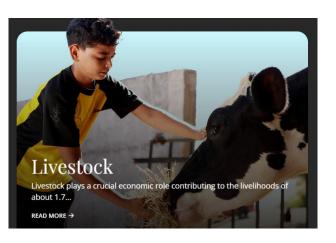
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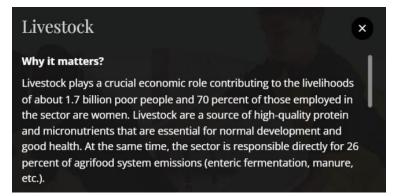












#### What can be done?

- 1. Improve livestock productivity through better genetics
- 2. Intensify livestock production in relevant locations and improve feeding practices
- 3. Protect animal health through improved veterinary services and animal disease surveillance
- Change the feed industry and promote new sources of proteins for feed
- 5. Restore degraded pasture and improve grazing management practices

#### **Domains & Actions**















# The role of contextualization

- Heterogeneity of socio and biophysical conditions
- Heterogeneity of economic and environmental cost and benefits of solutions
- Heterogeneity of political costs of reforms and policy processes
- → Local solutions in an integrated framework

genetics tions and improve

erinary services and

le new sources of proteins

threshold: FAO's global roadmap

5. Restore degraded pasture and improve grazing management

#### **Milestones**

#### 10 DOMAINS

• Echoing, but not limited to, FAO's core technical fields of expertise, with linkages to units, PPA and accelerators: Livestock, Crops, Fisheries and Aquaculture, Forest and Wetlands, Soil and Water, Food Loss and Waste, Enabling Healthy Diets for all, Data and Inclusive Policies

#### 120 ACTIONS

 Actionable options based on core FAO materials and new evidences and requiring to be contextualized

#### 20 MILESTONES

Simple steps to monitor and foster progresses

Domain	Year	Description
Livestock	2030	Methane emissions from the livestock sector have been reduced by 25% compared to 2020.
	2050	Total factor productivity for livestock has grown at 1.7% per year globally.
Fisheries and aquaculture	2030	100% of fisheries under effective management and all illegal, unreported and unregulated activities phased out.
	2040	At least 75% growth in global sustainable aquaculture. Production compared to 2020 level.
Crops	2050	Total factor productivity for crops has grown by 1.5% per year globally.
	2050	Total factor productivity for crops has grown by 2.3% per year for low-income countries.
Enabling healthy diets for all	2030	All the countries have updated their food-based dietary guidelines to provide context appropriate quantitative recommendations on dietary patterns.
	2030	All countries have legislation restricting food advertisement targeting children.
Forest and wetlands	2025	Zero net-deforestation is achieved globally.
	2035	Zero gross-deforestation is achieved globally.
Soil and water	2030	Achieve universal and equitable access to safe and affordable drinking water for all.
	2040	10 Gt of $CO_2$ eq of additional carbon have been sequestrated in cropland and pasture soil between 2025 and 2050.
Food loss and waste	2030	Reduce by 50% per capita global food waste at the retail and consumer levels.
	2050	All food loss and waste are integrated in a circular bioeconomy and used for feed, soil enhancement or bioenergy production.
Clean energy	2030	No people are using traditional biomass for cooking.
	2050	CO <sub>2</sub> capture from bioenergy reaches 1 263 Mt CO <sub>2</sub> per year.
Inclusive policies	2030	All countries have implemented nationally appropriate social protection systems and measures for all, and ensure that all groups vulnerable to climate-related extreme events and other economic, social and environmental shocks and disasters, are covered.
	2040	Gender productivity gap in land productivity gap between female- and male-managed farms of the same size is halved compared to 2020.
Data	2030	All farmers and ranchers have access to globally recognised solutions to monitor their GHG emissions.
	2030	Total factor productivity for crops and livestock corrected for non-market inputs and outputs are monitored in all countries on an annual basis.

Walking with numbers

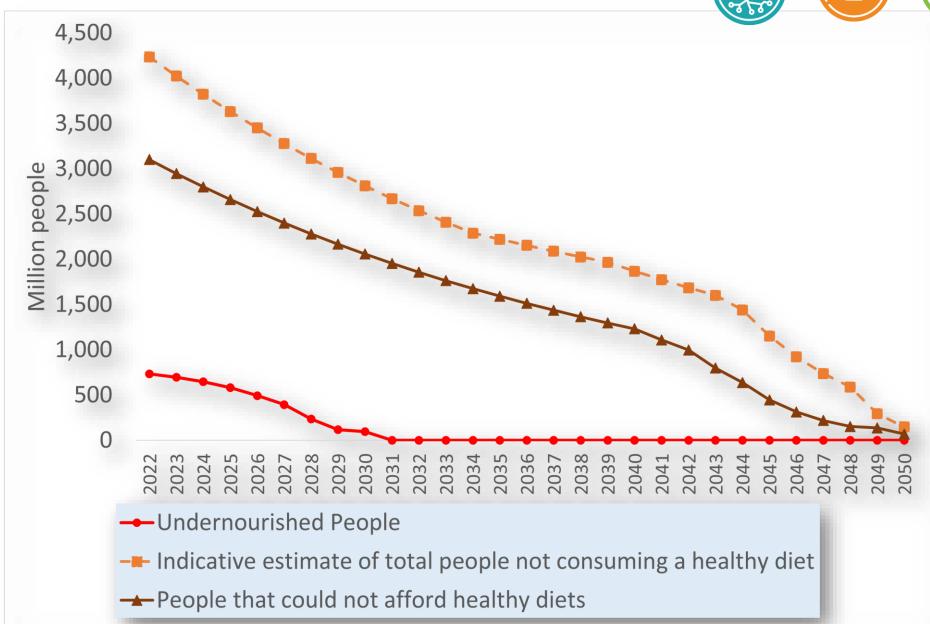
#### What we want to see











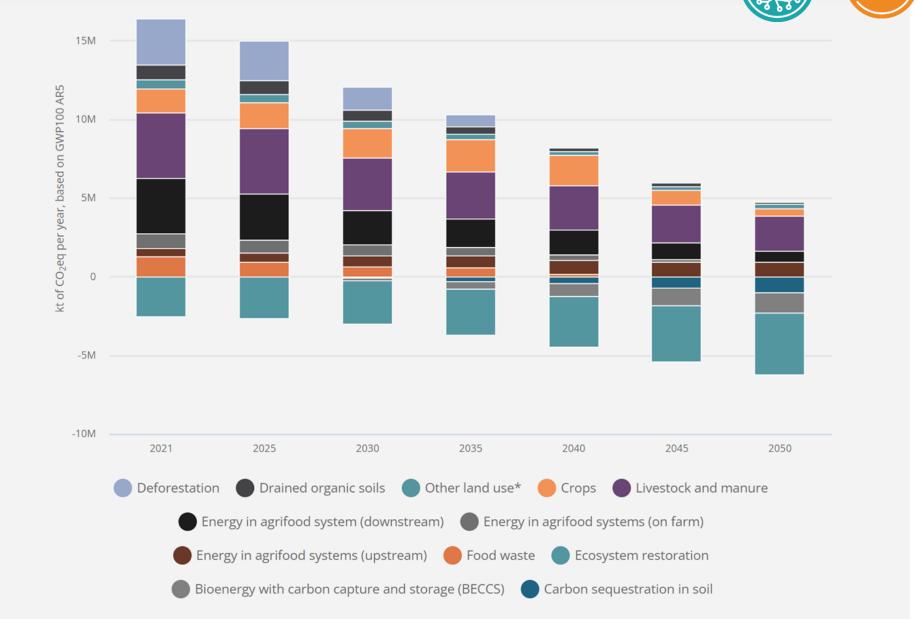
## **Emissions dynamics**











#### **Productivity dynamics**









