



SDC A+FS Network

# Thoughts for Food

A series of light & informal events on food-systems related news



# WELCOME

# What's on the menu today?

1. Introduction
2. Food security implications of the UA conflict – WFP
3. Network space
4. News & updates
5. Food Systems Country profiles – CGIAR-CIAT

# Food security implications of the Ukraine conflict

Friederike Greb  
Economist, WFP



World Food Programme

SAVING LIVES  
CHANGING LIVES



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World Food Programme

SAVING LIVES  
CHANGING LIVES

# The conflict in Ukraine in the current global context

An overview

2022 April

# A crisis that isn't happening in a vacuum

A deep dive into the economic context



Food inflation is now over **15%** in **31** countries



**22 currencies** now a hotspot or in alert



Full-time job losses:  
**258M** in **2020**  
**125M** in **2021**  
**52M** in **2022**



**60%** of low-income countries at high risk or already in debt distress, up from **30%** in 2015



**US\$ 26 Trillion** spent to avoid economic collapse in the **first 18 months of the pandemic**

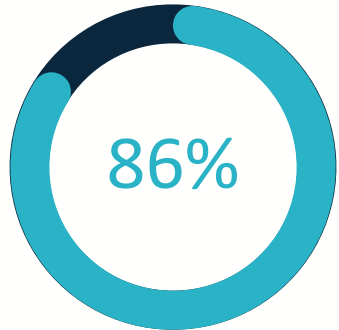
# Global food prices have been on the rise since mid- 2020



FAO's Food Price Index  
reaches a **new all-time  
high in February 2022**

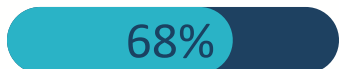
# Global supplies & reserves: A concentrated market

**7** countries\*  
make up



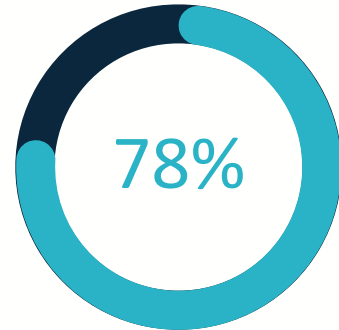
of global **wheat** exports

while **3**  
countries hold



of the world's  
wheat reserves

**5** countries\*  
make up



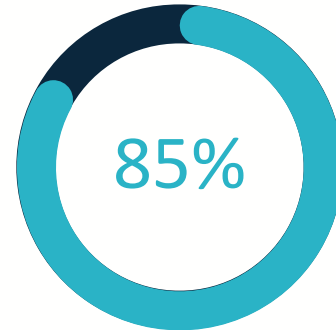
of global **coarse grain** exports

while **2**  
countries hold



of the world's  
coarse grain reserves

**4** countries  
make up



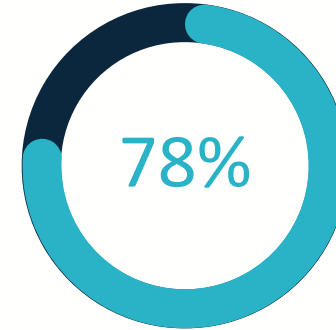
of global **corn** exports

while **2**  
countries hold



of the world's  
corn reserves

**5** countries  
make up



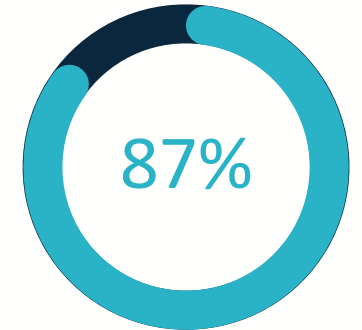
of global **rice** exports

while **2**  
countries hold



of the world's  
rice reserves

**2** countries  
make up



of global **soybean** exports

while **4**  
countries hold



of the world's  
soybean reserves

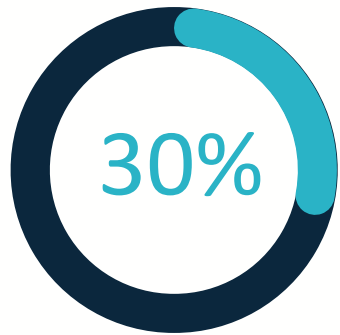
Source: USDA: World Agricultural Supply and Demand Estimates March 2022

\*Please note that this includes the European Union, which is classified as one entity in line with the USDA WASDE Report

# Conflict in one of the world's breadbaskets

Tracing Ukraine and Russia's share of the world's main commodities

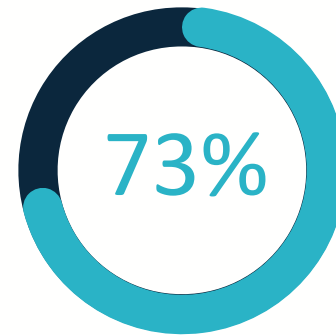
**Russia and Ukraine** provide



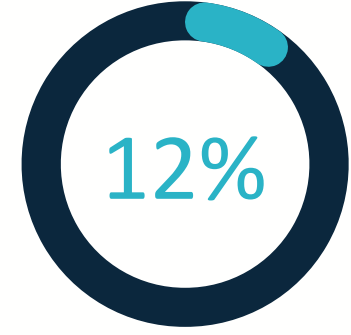
of global  
**wheat**  
exports



of global  
**maize**  
exports



of global  
**sunflower oil**  
exports



of global  
**crude oil**  
exports



# Logistical challenges of the conflict



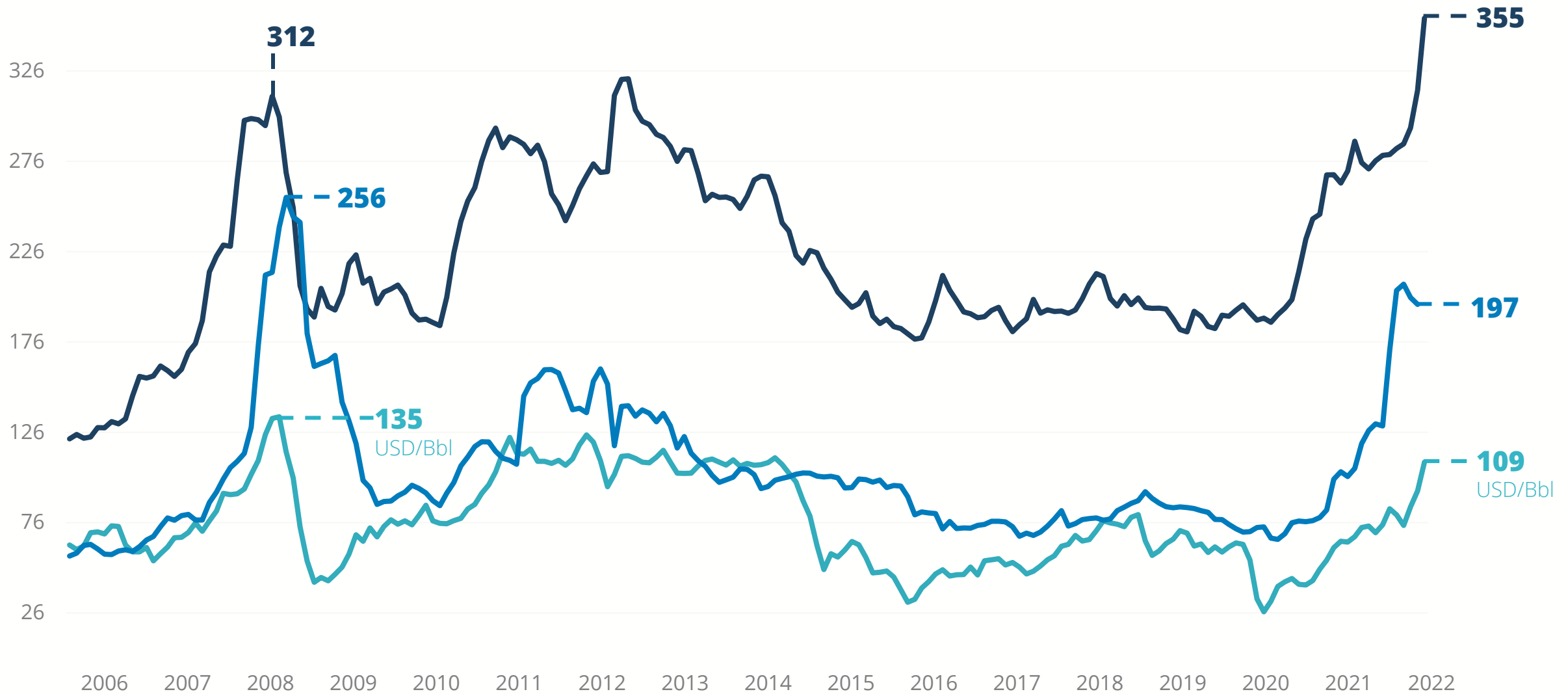
Rising costs of insurance premia

War risk premiums have hit **\$300,000** for some tankers operating in the Black Sea

Vessels stuck in the Black Sea

**86** reported merchant ships currently stranded in Ukrainian ports and waters

# Commodity prices



■ IGC Grains and Oilseeds Index (Jan 2000 = 100) ■ Fertilizer Index (Jan 2000 = 100) ■ Crude Oil (Brent) USD/Bbl

Note: This chart represents monthly averages

Sources: IGC, World Bank, Trading Economics

# An unprecedented world



Source: [Trading Economics](#)

This chart represents monthly averages, except for April 2022, where the most recent daily data is reported

## 2008

No wars

No economic or national security threats in Europe

No frequent, volatile climate shocks

No global pandemic

## TODAY

### CONFLICT

Syria

Yemen

Ethiopia

Northeast Nigeria

### CLIMATE

Back-to-back, major droughts

Multi-year, landscape changing floods

Climate variability and volatility

### COVID-19

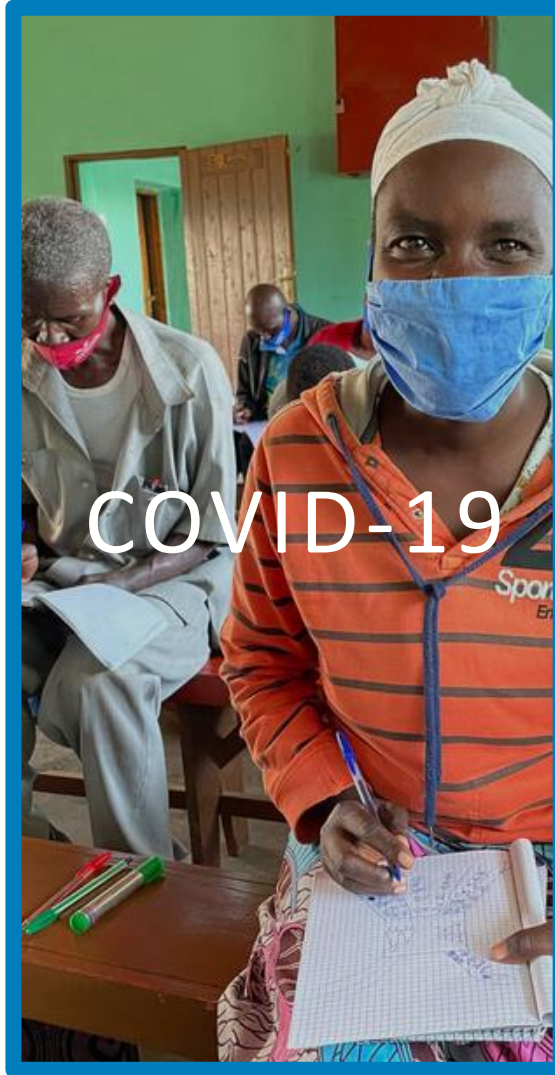
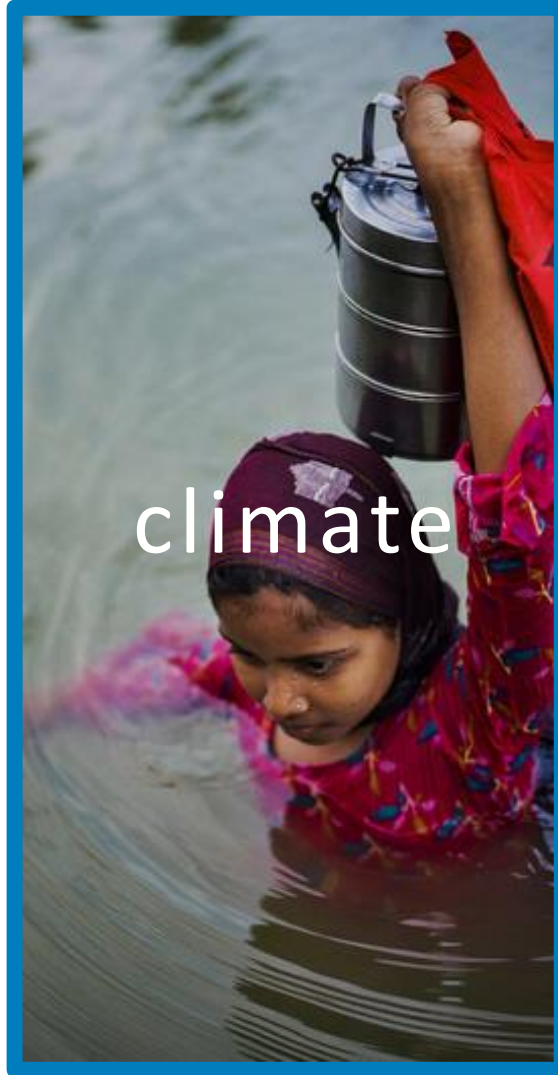
Massive income losses

Record inflation

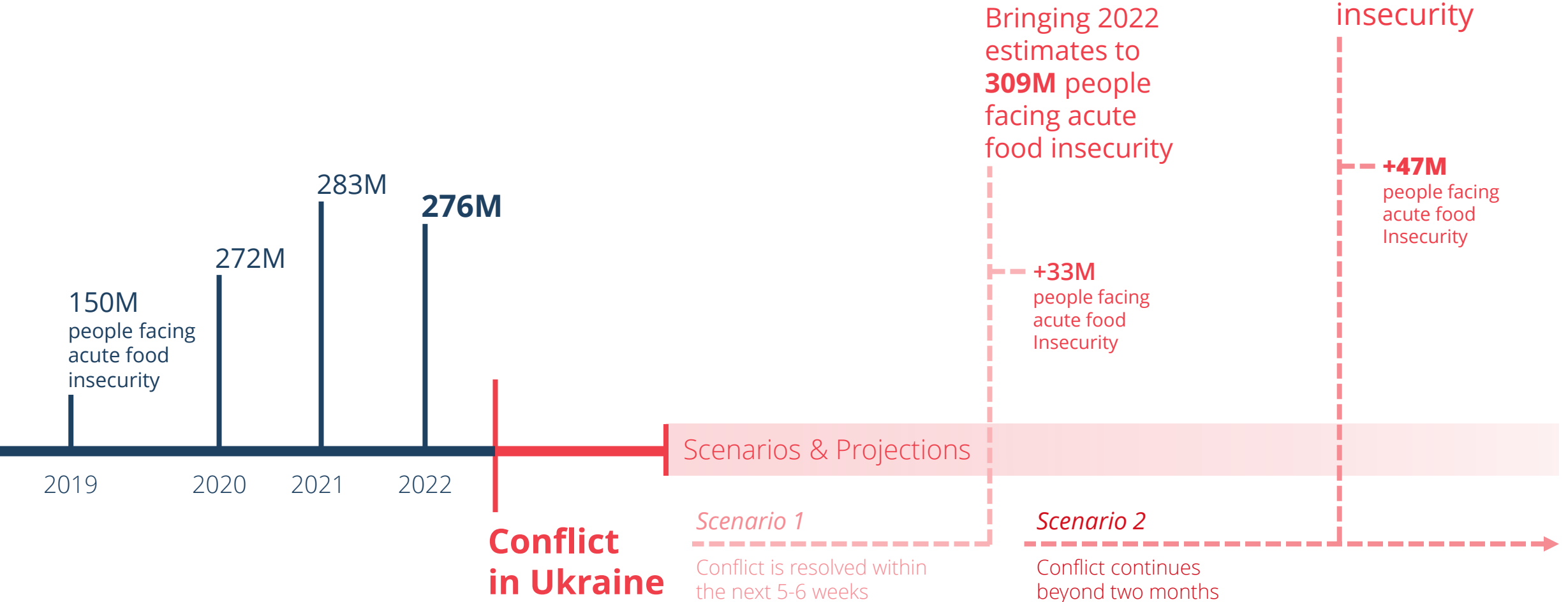
Supply chain disruptions

Record debt burdens

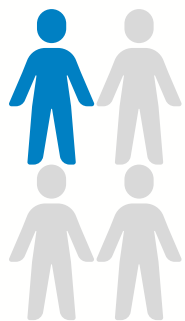
# Root causes



# global acute food insecurity numbers



# Needs assessment in ukraine



**1 in 4**

One in four IDPs planning to migrate to European countries as soon as possible



**Two thirds**

of respondents reported feeling unsafe or very unsafe

(70% women, 61% men)



**35%** food insecure

**46%** worried about having enough food






**23%** ate less than two meals per day



**One third**

of respondents reported that stores were no longer operating regularly, **36%** stated prices increased significantly

## Essential Needs Priorities

-  **31%** Safety
-  **24%** Food
-  **22%** Fuel for transportation
-  **15%** Healthcare
-  **24%** Communications

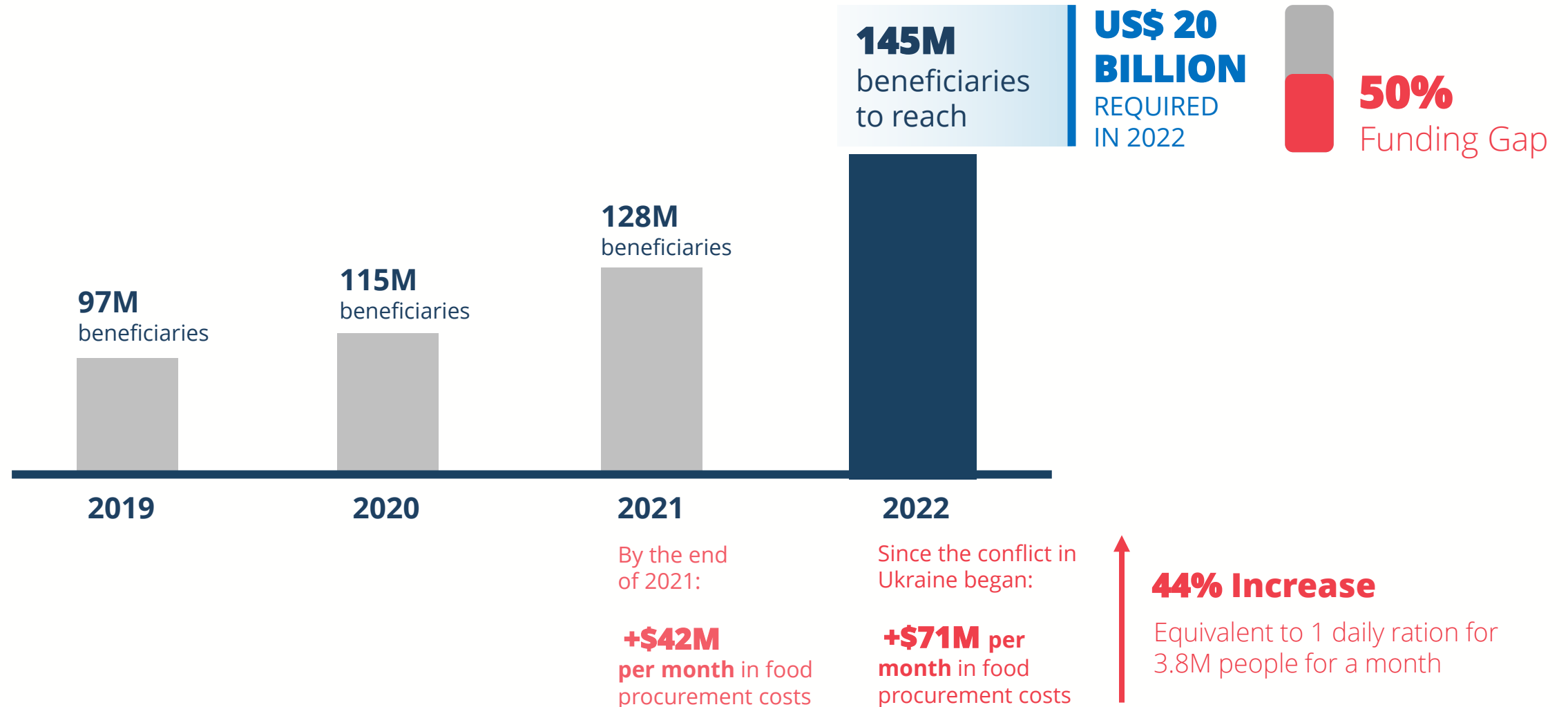


**Around 17%**

reported receiving assistance:

- **9%** food
- **6%** cash
- **4%** non-food

# Increasing needs & ever more constrained funds



# Policy recommendations

- Provide adequate humanitarian assistance to vulnerable groups
- Keep trade flowing and minimize disruptions to supply chains
- Avoid ad hoc policy reactions, export restrictions and import subsidies
- Exempt humanitarian assistance from export bans, extra ordinary taxes and duties
- Strengthen market transparency to provide timely information
- Rethink energy and agricultural polices to diversify import sources for food and fuel
- Consider a food, fuel and fertilizer import facility for the poorest and most affected countries



Thank you



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# WHAT'S NEW?

1. Keep food trade open



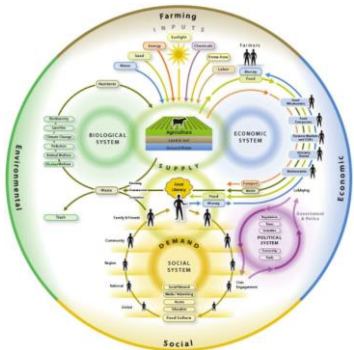
2. Provide safety nets



3. Support farmers



4. Transform food systems for increased resilience, nutrition and sustainability



# Four paths to respond to the food price crisis

Mari Elka Pangestu,  
World Bank Managing Director of  
Development Policy and Partnerships

# Untapped opportunities for climate action – An assessment of food systems

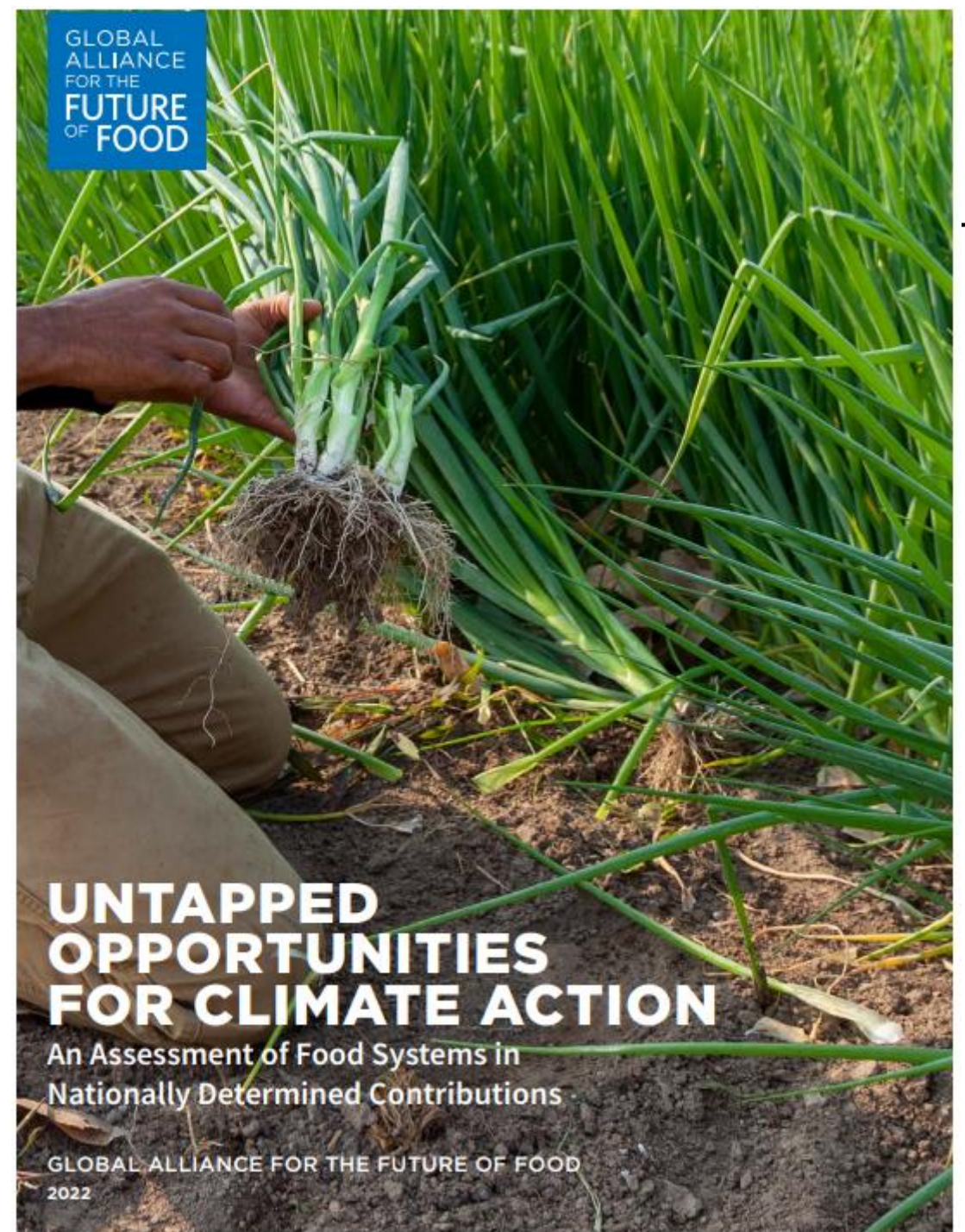
Global Alliance for the Future of Food report



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# A study on nudges by University of Geneva

Inciting instead of coercing, «nudges» prove their effectiveness in the food domain



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# Women-led solutions to desertification

UNCCD Call for submission – ahead of the COP15 in Abidjan, May 2022




**Deadline for applications is 18 April**



UNITED NATIONS  
UNIVERSITY

**UNU-EHS**

Institute for Environment  
and Human Security



**Coherence and Alignment among  
Sustainable Land Management,  
Ecosystem-based Adaptation,  
Ecosystem-based Disaster Risk Reduction  
and Nature-based Solutions**

**REPORT  
NO. 28**

December 2021

Yvonne Walz, Florence Nick,  
Oscar Higuera Roa, Udo Nehren, Zita Sebesvari

# Coherence among SLM, EbA, and NbS

White paper: “Transforming Food  
Systems for Country-led Innovation”



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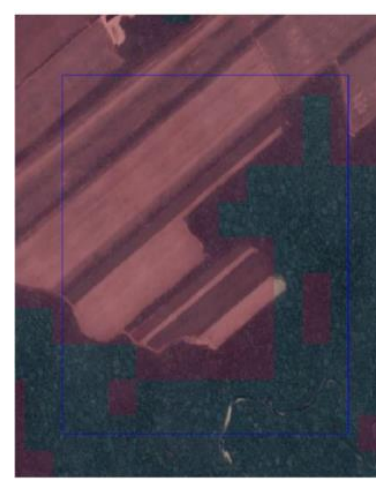
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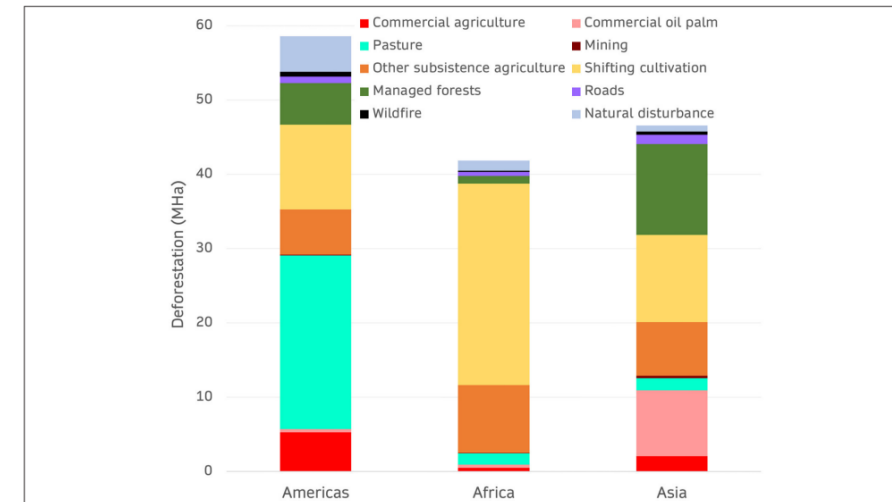
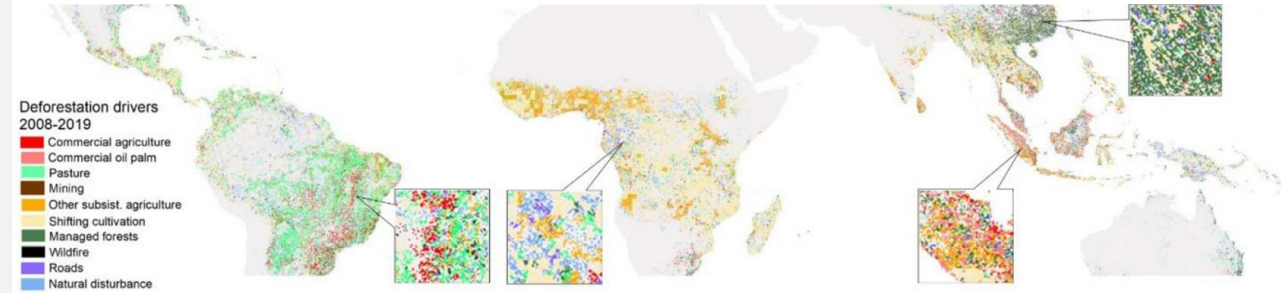
# Crowdsourcing campaign identifies drivers of tropical forest loss

When community engagement meets innovation to build evidence



**B** Please select the predominant tree loss driver visible inside the tree loss pixels in the blue box

- Subsistence agriculture
- Commercial agriculture
- Commercial oil palm or other palm plantations
- Pasture
- Managed forest/forestry
- Roads/trails/buildings
- Mining and crude oil extraction
- Wildfire (disturbance)
- Other natural disturbances/No tree-loss driver



**FIGURE 3** | The amount of deforestation (in Mha) by driver in the Americas, Africa, and Asia in the area 30° latitude north and south of the equator.



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# Food Systems Country profiles

Christophe Bene  
Senior Policy Advisor, CGIAR-CIAT



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Alliance



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,  
Education and Research EAER  
Federal Office for Agriculture FOAG

# Food System Country profiles for transforming food systems towards sustainability

*Ethiopia, Honduras, Bangladesh*

Christine Chege and Chris Béné



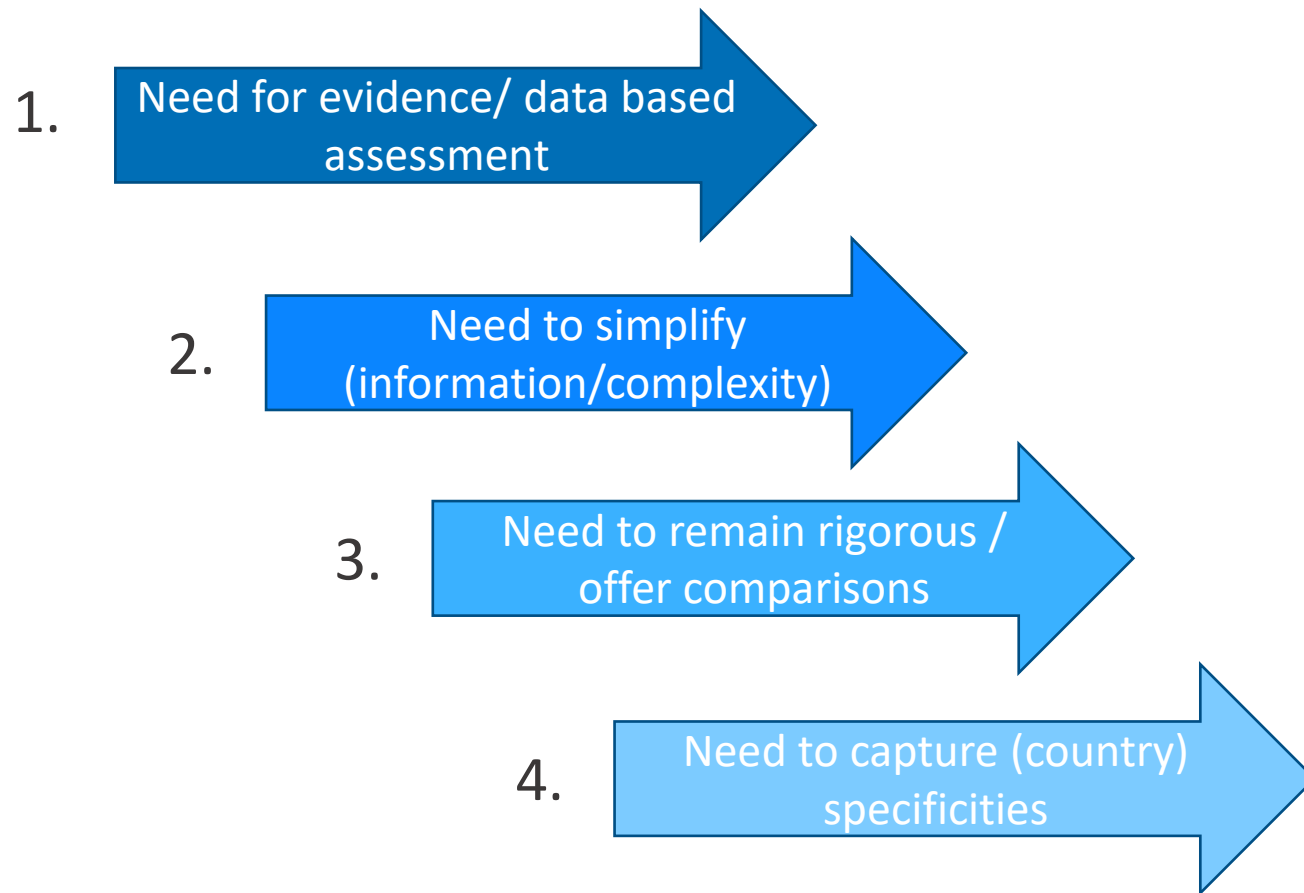
Bioversity International and the International Center for Tropical Agriculture (CIAT) are CGIAR Research Centers. CGIAR is a global research partnership for a food-secure future.

# Project overview

- Funded by the Swiss Federal Office for Agriculture (FOAG) as part of its support to the UNFSS
- initially 2 years (2020 – 2021) + one year extension
- Implemented by CIAT (currently, Alliance of Bioversity International and CIAT)
- Pilot countries: Ethiopia, Bangladesh, and Honduras



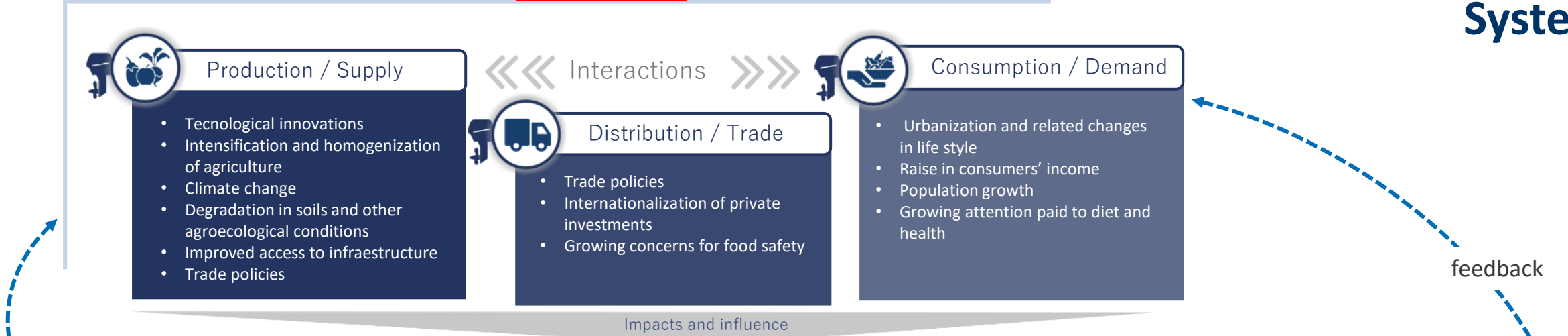
# Project rationale



**Country Food System Profile:** short document that synthesizes in a clear, concise and graphic fashion the critical information necessary for public and private decision-makers to obtain a holistic/systemic but synthetic overview/assessment of their countries' food systems

# Our model of a Food System

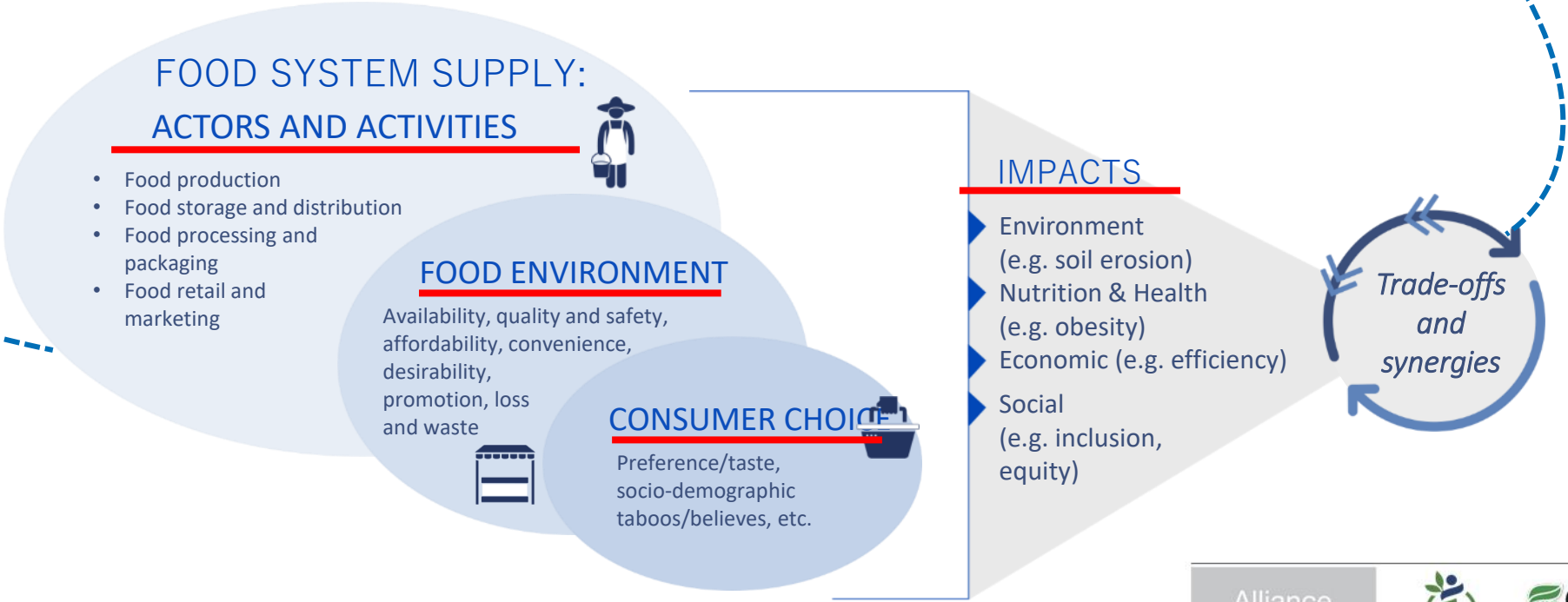
## DRIVERS



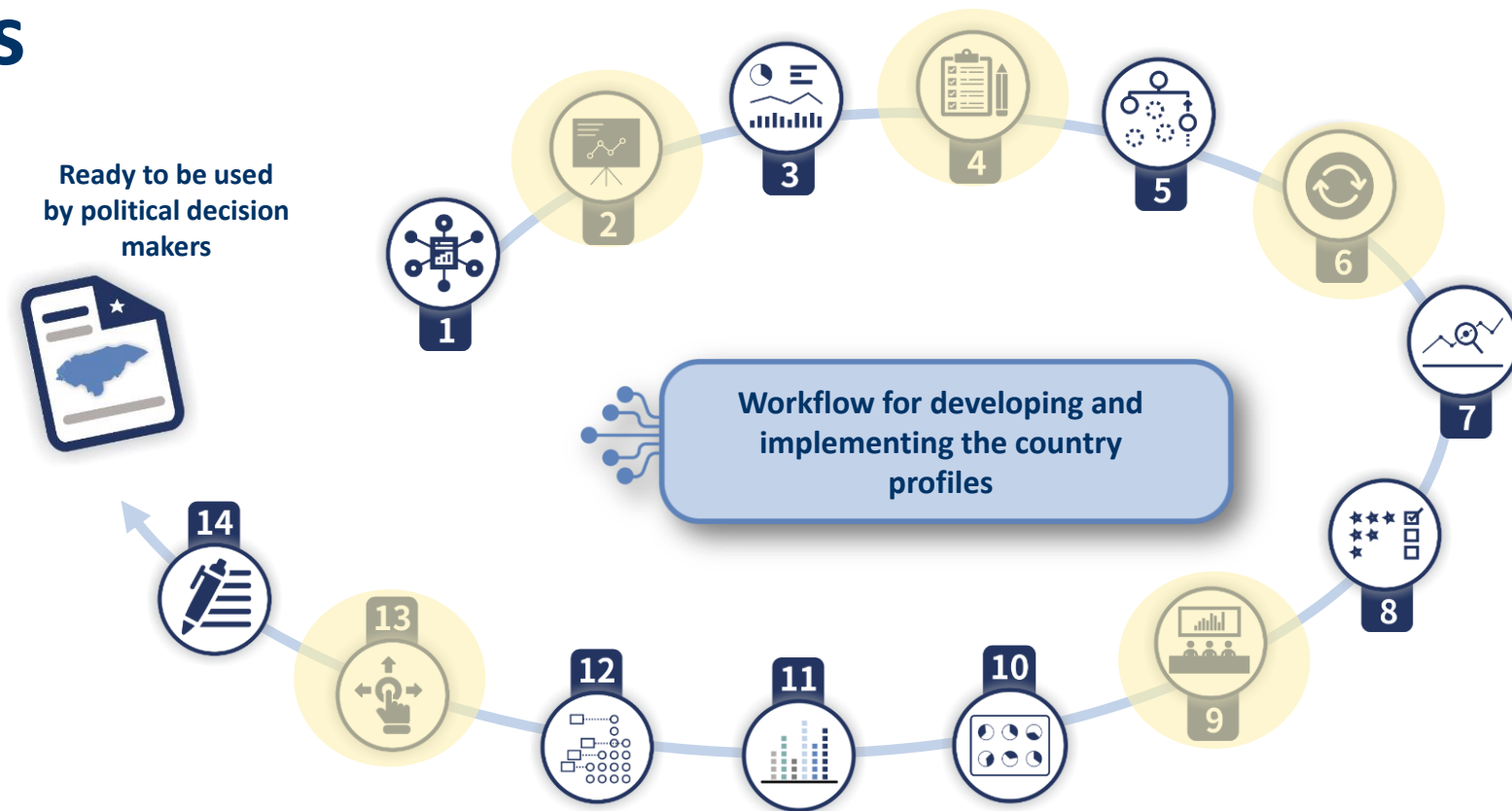
feedback

### General context

- Global and national economy
- Macro, meso and local shocks and stresses (e.g. conflict)
- Culture, social norms
- Political economy



# The Process



1. Design of the common analytical framework
2. Project presentation and framework validation
3. Establishment of a list of potential indicators for each component of the framework
4. Inventory of publicly available data in the three pilot countries
5. Populating the components with existing publicly available indicators
6. Completing and finalizing the list of potential indicators for each component of the framework with national stakeholders and experts
7. Assessing the quality/representiveness of the indicators as a good proxy of the process considered
8. Trimming down the number of indicators
9. Final list presented to national stakeholders
10. Normalization
11. Regional and GDP comparison and ranking
12. Inference analysis
13. Usability study
14. Narrative building

# Choice of indicators (rigorous and transparent process)

- **Inclusion/exclusion criteria**

- clear methodology
- no latent variable
- comparability
- time period
- conceptual relevance
- clear expected effect
- drivers
  - induce unidirectional change
  - measurable in term of change

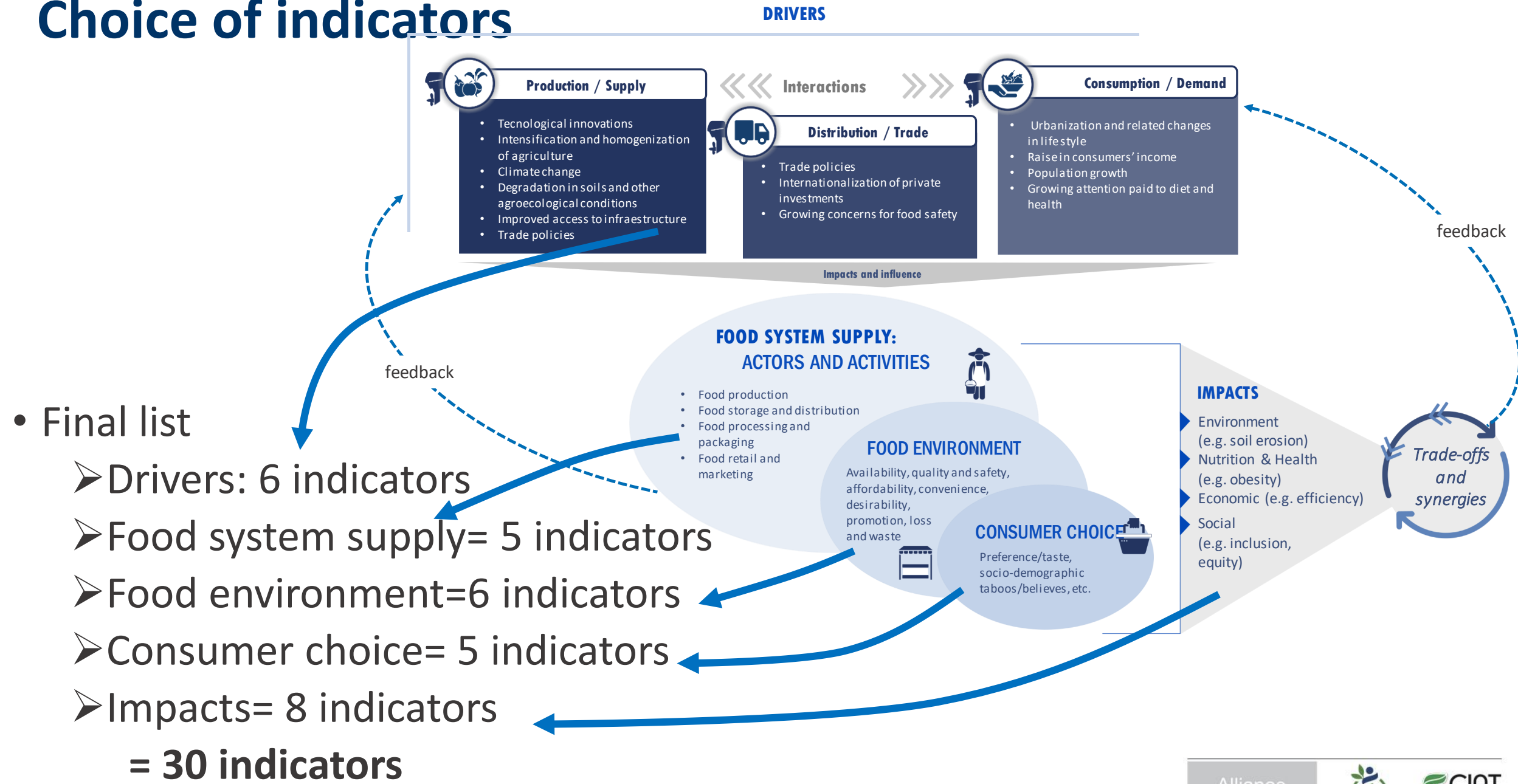
- **Trimming process**

- representativeness
- contemporariness
- open access
- time series
- repeatability

**using scoring and ranking**

**from 150+ indicators to ... 30 indicators**

# Choice of indicators





# Honduras - Drivers

Production/  
Supply



Fertilizer consumption (*kg/ha of arable land*)

Technological  
innovations



Temperature change ( $^{\circ}\text{C}$ )

Climate  
change

Distribution/  
Trade



Food exports (*% of merchandise exports*)

Trade  
policies



FDI inflows to Agriculture, Forestry and Fishing (*%*)

Private  
investments

Consumption/  
Demand



Urban population growth (*annual %*)

Urbanization

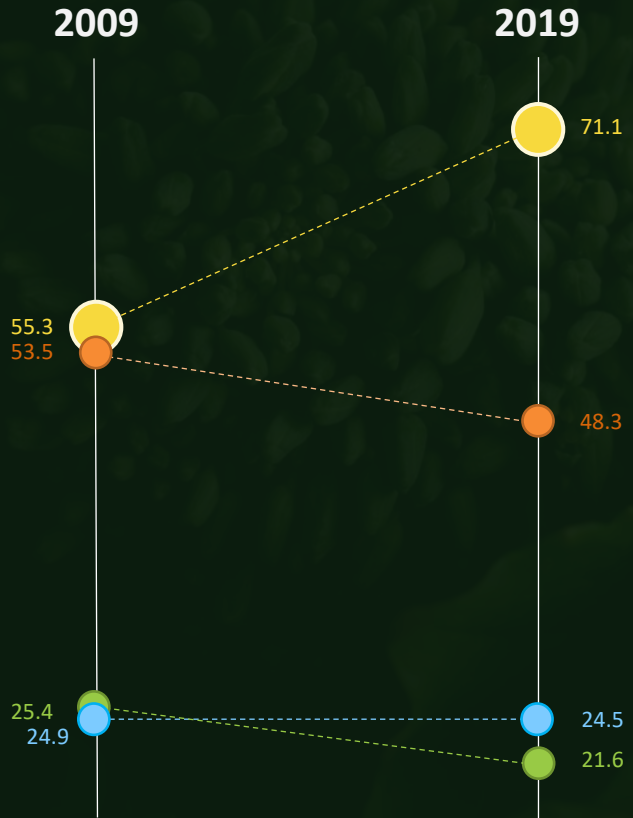


GDP per capita growth (*annual %*)

Consumer  
income

# Honduras - Drivers

**Food exports**  
*(% of merchandise exports)*



- Honduras
- Geographic neighbors
- Countries with similar GDP per capita
- Global average

# Honduras - Outcomes



Agriculture total-emissions ( $CO_2eq$ )



Tree cover loss (*ha*)

Environment



Prevalence of obesity in the adult population (%)



Prevalence of undernourishment (%)

Food security/  
Nutrition



Agricultural sector value added per worker (*constant 2010 US\$*)



Food, beverages and tobacco (*% of value added in manufacturing*)

Economic




Gender gap for obesity (*women/men prevalence*)



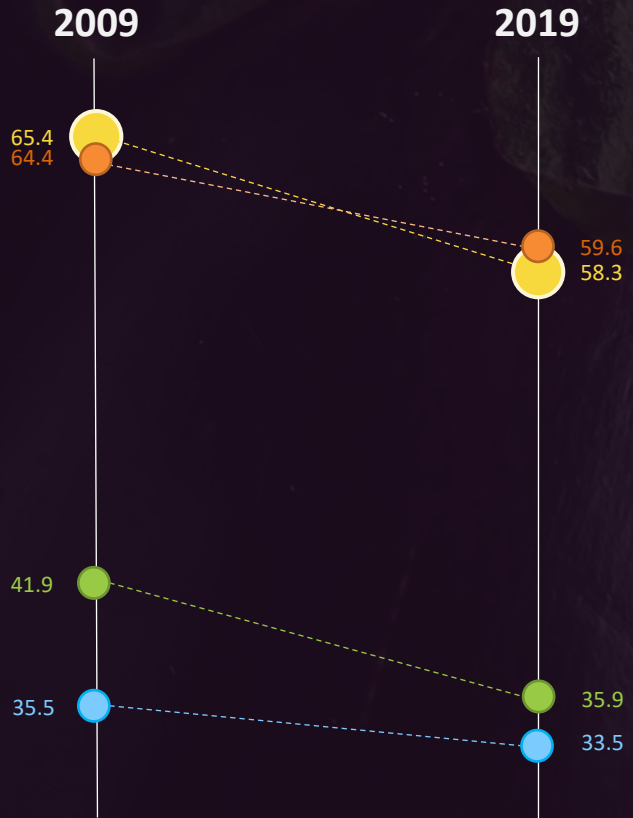
Gini index

Social

# Honduras - Outcomes



Tree cover loss  
(ha)



- Honduras
- Geographic neighbors
- Countries with similar GDP per capita
- Global average

# Strengths of our approach...

Process is based on a rigorous methodology which includes

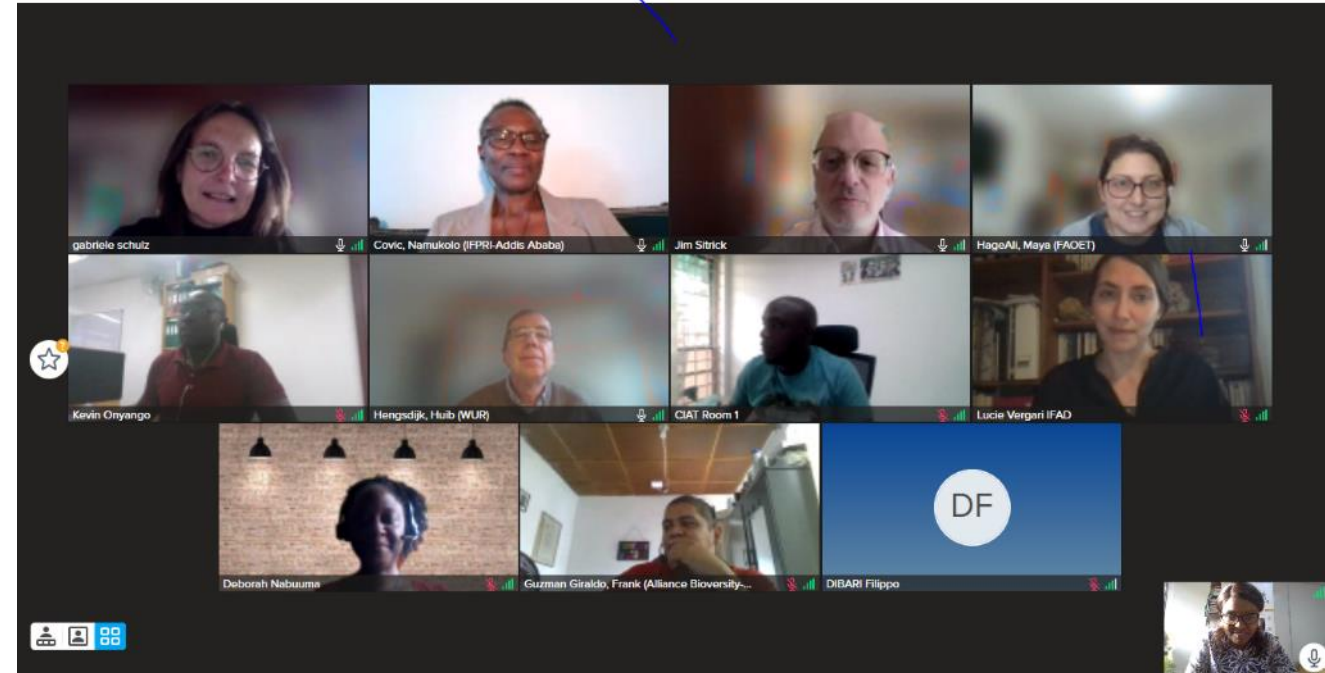
- Clear inclusion and exclusion criteria of the indicators
- A methodology for trimming down the indicators from over 150 indicators per country to 30
- Comparability and potential for analysis and inference

# Strengths of our approach...

- Participatory process: The country profile we propose is from the outset designed and constructed with the stakeholders. Stakeholders provide feedback and validation at every step
- Choice of indicators is bottom-up reflecting country specific needs - yet included into a generic framework which allows regional / global comparison

# Experience from Ethiopia

- Emphasis on stakeholder engagement
- Need to have diverse stakeholders covering a wide range of food system components
- Virtual workshops comprised of presentations, group work in breakout sessions and Q &A sessions



One of the breakout sessions

# Project steps: Ethiopia Food System Country Profile



## INTRODUCTION

- Constituting the stakeholder group
- Shared food system concepts

Workshop 1:  
January 21<sup>st</sup> 2021



## INDICATORS

- Prioritization of indicators
- Inventory of existing data sources

Workshop 1:  
January 21<sup>st</sup> 2021



## THE CURRENT PICTURE

- The current food system in (a few) numbers

Workshop 2:  
March 2021



## THE NARRATIVE

- Why the system is the way it is
- Possible entry points

Workshop 3:  
April/May 2021



# Project steps: Ethiopia Food System Country Profile



## INTRODUCTION

- Constituting the stakeholder group
- Shared food system concepts

**Workshop 1:**  
January 21<sup>st</sup> 2021



## INDICATORS

- Prioritization of indicators
- Inventory of existing data sources

**Workshop 1:**  
January 21<sup>st</sup> 2021

- Selection and invitation of stakeholders to the first workshop, based on an existing food system stakeholder group
- Understanding what a food system is
- Discussion on other actors who should be invited in the next workshop, and their contacts
- Discussion of the shortlisted indicators for the Ethiopia food system, by component and the process of prioritization
- Group work to discuss and give feedback
- Missing data and data sources

# Project steps: Ethiopia Food System Country Profile



## THE CURRENT PICTURE

- The current food system in (a few) numbers

- Presentation of the current Ethiopia Food System- using the selected indicators
- Part of the 2<sup>nd</sup> UNFSS dialogue meeting for the government of Ethiopia – presented to over 100 participants who discussed and gave feedback

Workshop 2:  
March 2021



# Project steps: Ethiopia Food System Country Profile



## THE NARRATIVE

- Why the system is the way it is
- Possible entry points for transforming the Food system

- Presentation of the current Ethiopia Food System- using the selected indicators
- Group work to discuss the results presented:
  - Why is the food system the way it is?
  - How can this be changed?– Entry points for transformation
- Formed part of the Ethiopia UNFSS dialogue discussions

Workshop 3:  
April/May 2021



# Some of the stakeholders engaged

Government of Ethiopia

Other Food System stakeholder in Ethiopia

Donors



MoA



Ministry of Health



Ethiopian ATA  
Agricultural Transformation Agency

Ministry of Education



gain  
Global Alliance for Improved Nutrition



WFP



Food and Agriculture Organization of the United Nations



unicef



IFAD

Private sector companies: processors, distributors



Researchers & development agencies: CGIAR centers, NGOs, EPHI,

Local & international universities



giz

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Alliance





Alliance



*iThank you!*



Biodiversity International and the International Center for Tropical Agriculture (CIAT) are CGIAR Research Centers.  
CGIAR is a global research partnership for a food-secure future.



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# NEXT STEPS & A+FS ANNOUNCEMENTS

- The presentations from today are available in the Shareweb at:  
<https://www.shareweb.ch/site/Agriculture-and-Food-Security/CUG/Pages/thoughts-for-food.aspx>
- We'll be back with more Thoughts for Food in June
- Share news, topics and ideas with us



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Before you leave...

**What do you think about this meeting?**

**<https://forms.office.com/r/k1UaAgznCb>**



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**Thank you!**  
**Stay well, stay safe and stay connected !**