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Food Systems Learning Journey

A learning adventure taking us around the globe to understand and act more systemically

Second event

Framing, System Boundaries & Thematic Linkages

While you wait: go to menti.com and use code 3398 7128

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Framing, System Boundaries and Thematic Linkages

NOW: Part I: Setting the stage (John Ingram)

- ***Recap of Key Features (Food Systems Essentials)***
- ***Introduction to concepts of system framing and the importance of system boundaries***

At 10:25 CET: Part II - Entering the inter-thematic space

- *A short expert panel discussion*

At 10:55 CET: Part III: Have your say

- *Break-out sessions*

At 11:40 CET: Part IV: Looking ahead

- ***The Food Systems Dashboard (Lawrence Haddad, GAIN)***
- *What's next?*

Mentimeter

What do you see and what are you focusing on? (30 seconds)

→ Wordcloud

Go to menti.com and use code 3398 7128

Or scan the QR code

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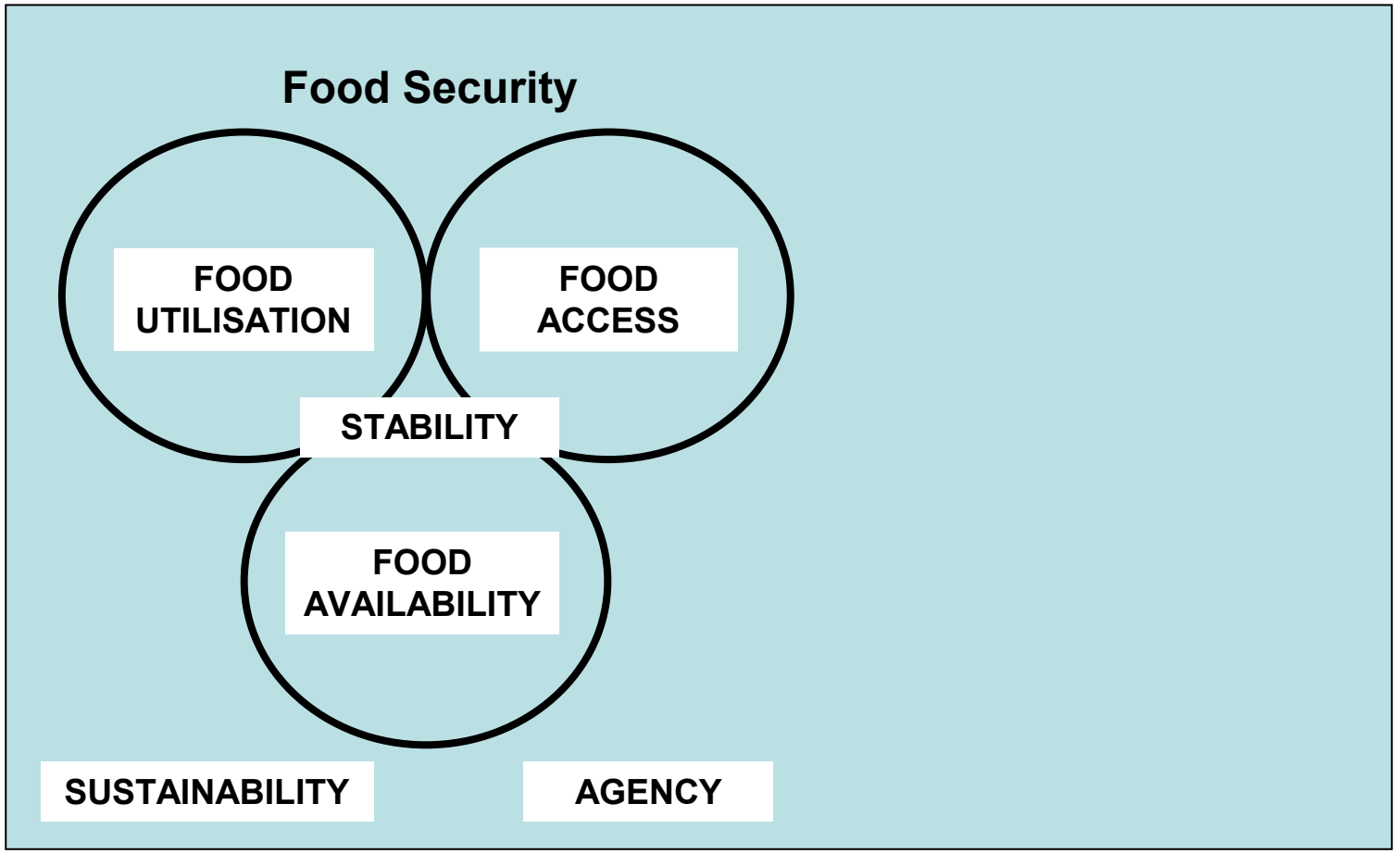
Part I – setting the stage

Food Systems Key Features

Dr John Ingram

JohnSIIngram@gmail.com

What do we want from Food Systems?



Mentimeter

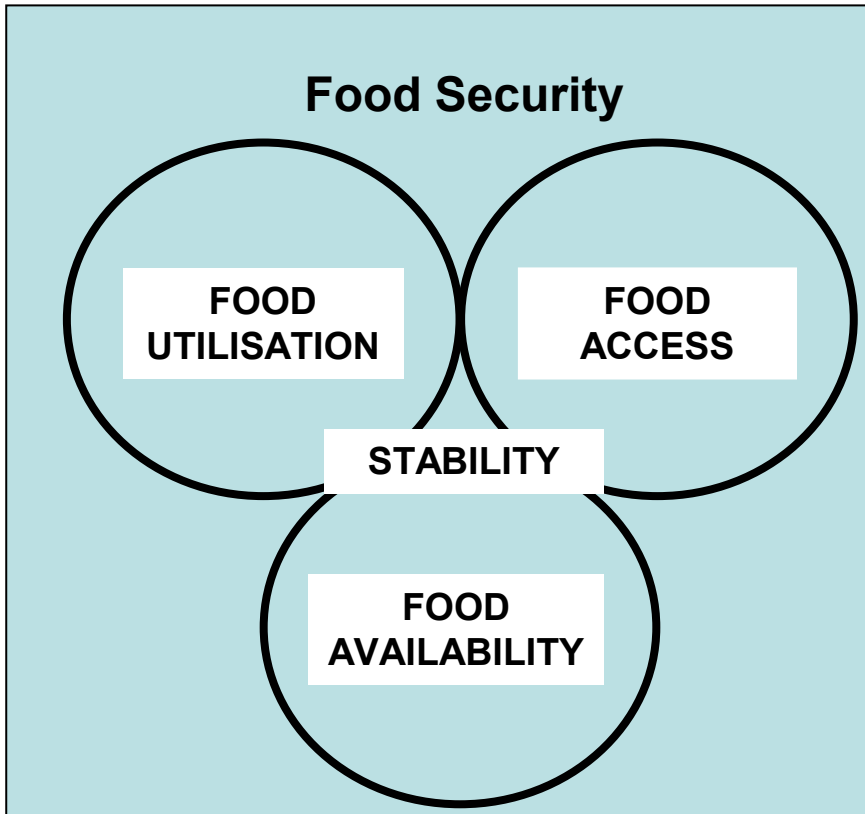
- What else do we want from Food Systems? (30 seconds)

→ Wordcloud

Go to menti.com and use code 3398 7128

Or scan the QR code

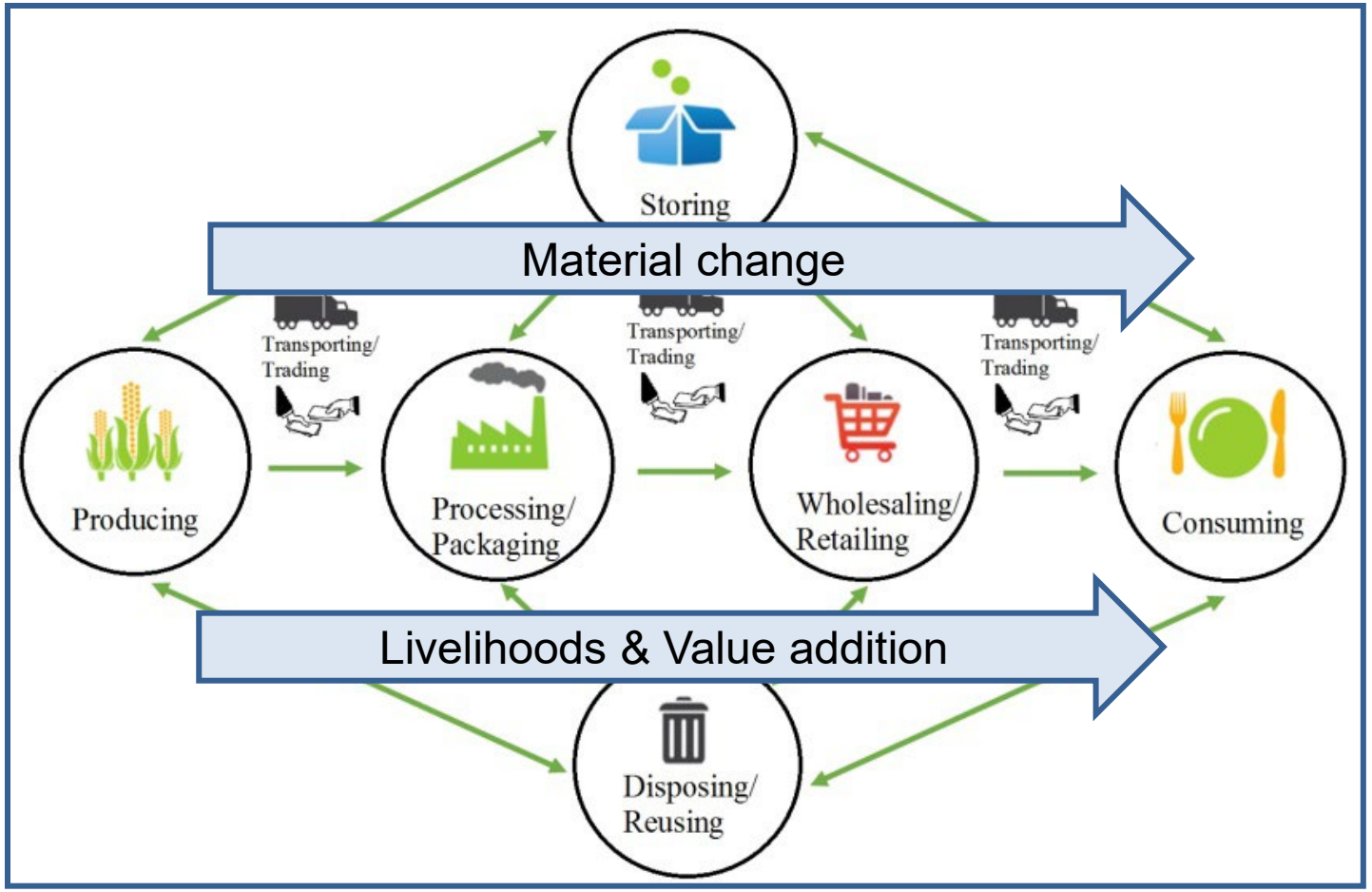
What else do we want from Food Systems?



Other Societal Interests

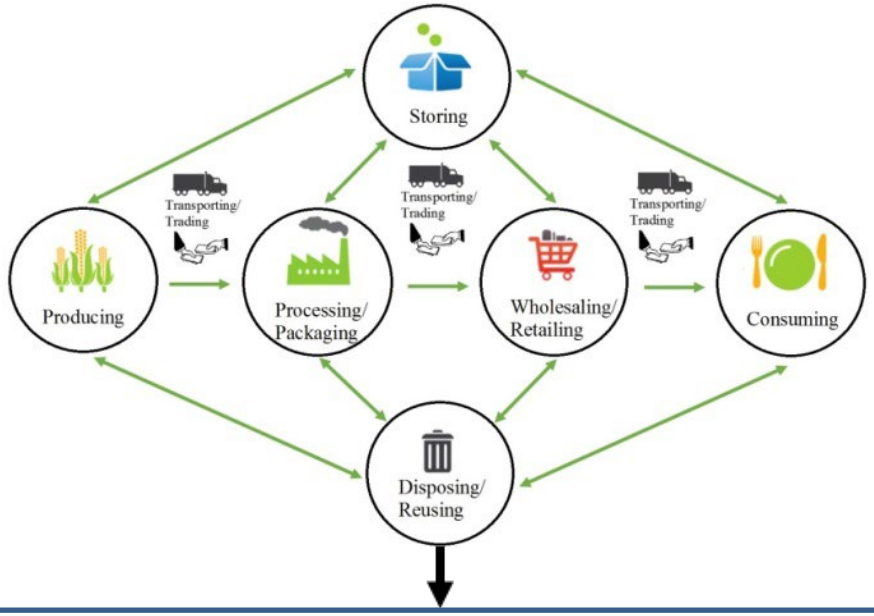
- Health
- Income
- Profit
- Rural development
- Employment
- Environment
- Landscape
- Ecosystem services
- Animal welfare
- …

Food System *Actors, Activities* and *Drivers*



Food System 'Activities' and 'Outcomes'

Balancing the '*What We Do*' with the '*What We Want*' but the '*What We Get*'



Trade-offs to be aware of!

Synergies to exploit!

Socioeconomic Outcomes

- Employment
- Wealth
- Health
- Social capital
- Human capital
- Equity
- …

Food Utilisation

Food Access

Food Security

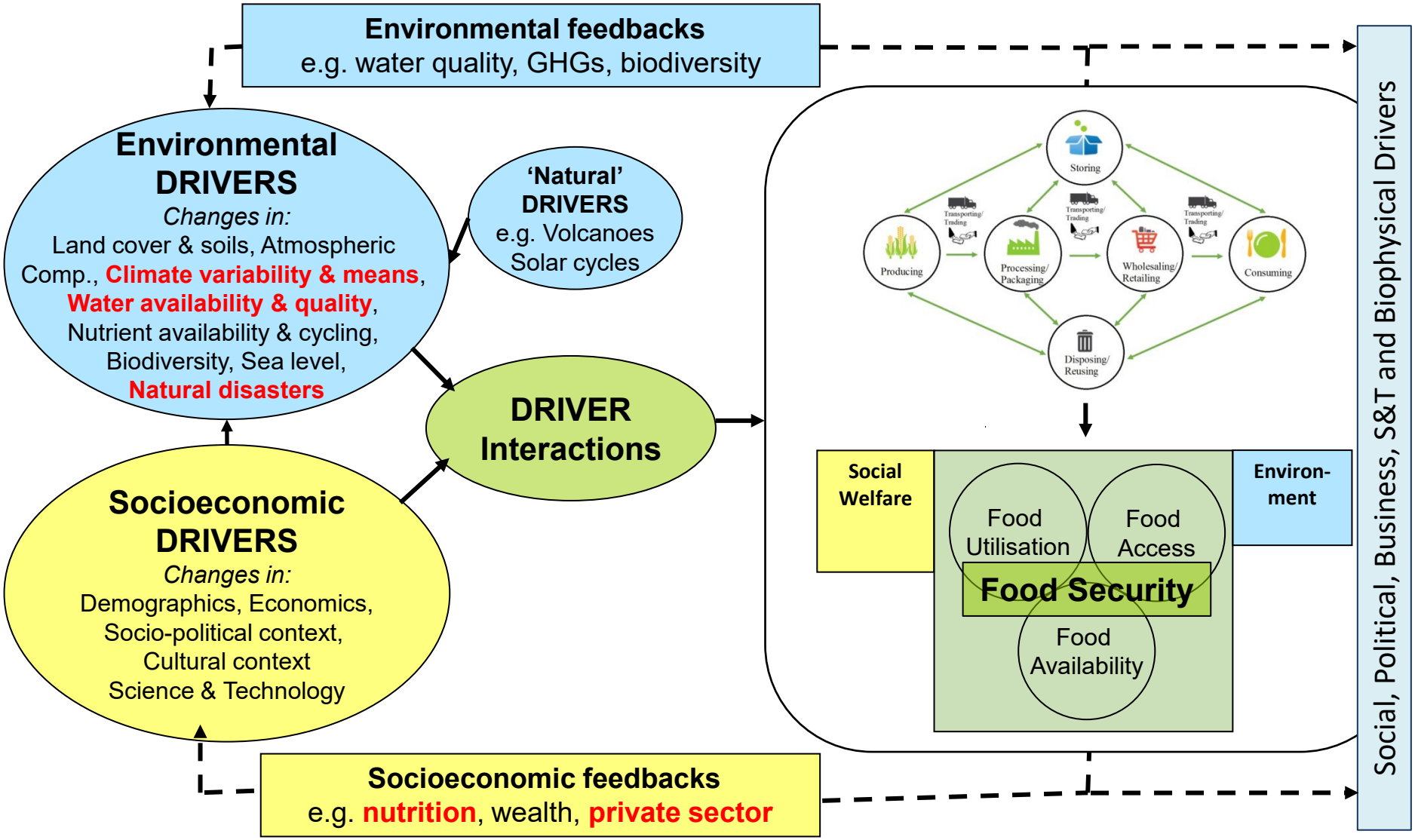
Food Availability

Environmental Outcomes

- Climate change
- Water availability
- Water quality
- Biodiversity
- Biogeochemistry
- Soil degradation
- …

Food System Dynamics

Drivers & Feedbacks; Tradeoffs & Synergies



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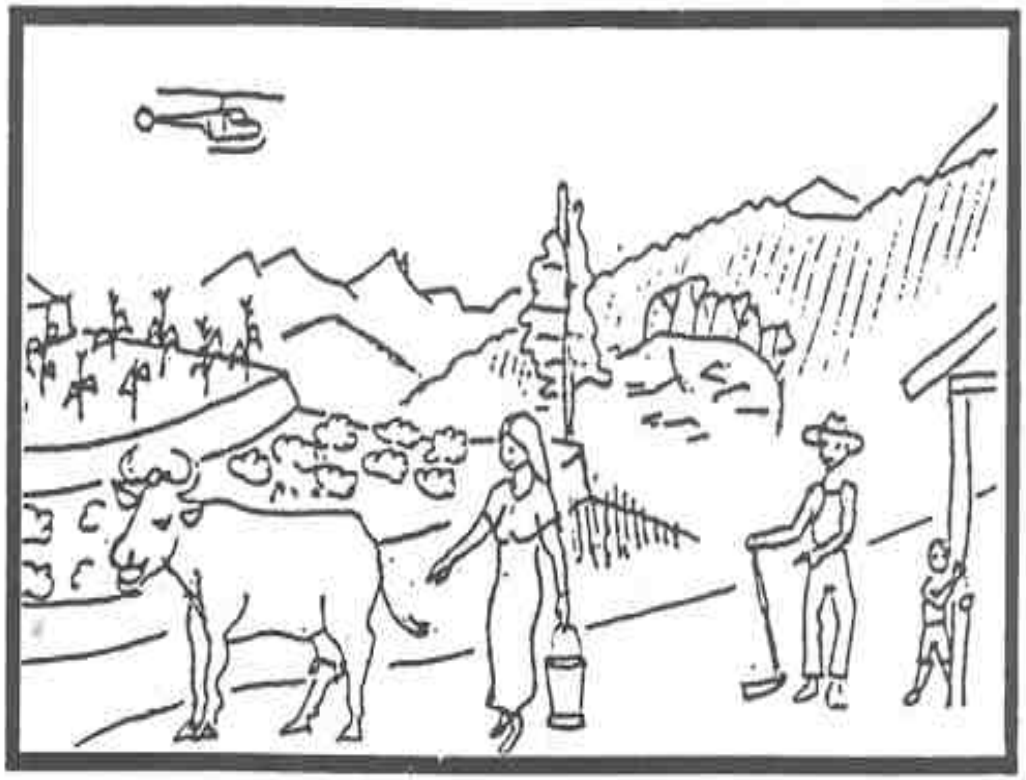
Part I – setting the stage

Framing and boundary setting

what's in and what's out?

Dr John Ingram

Framings



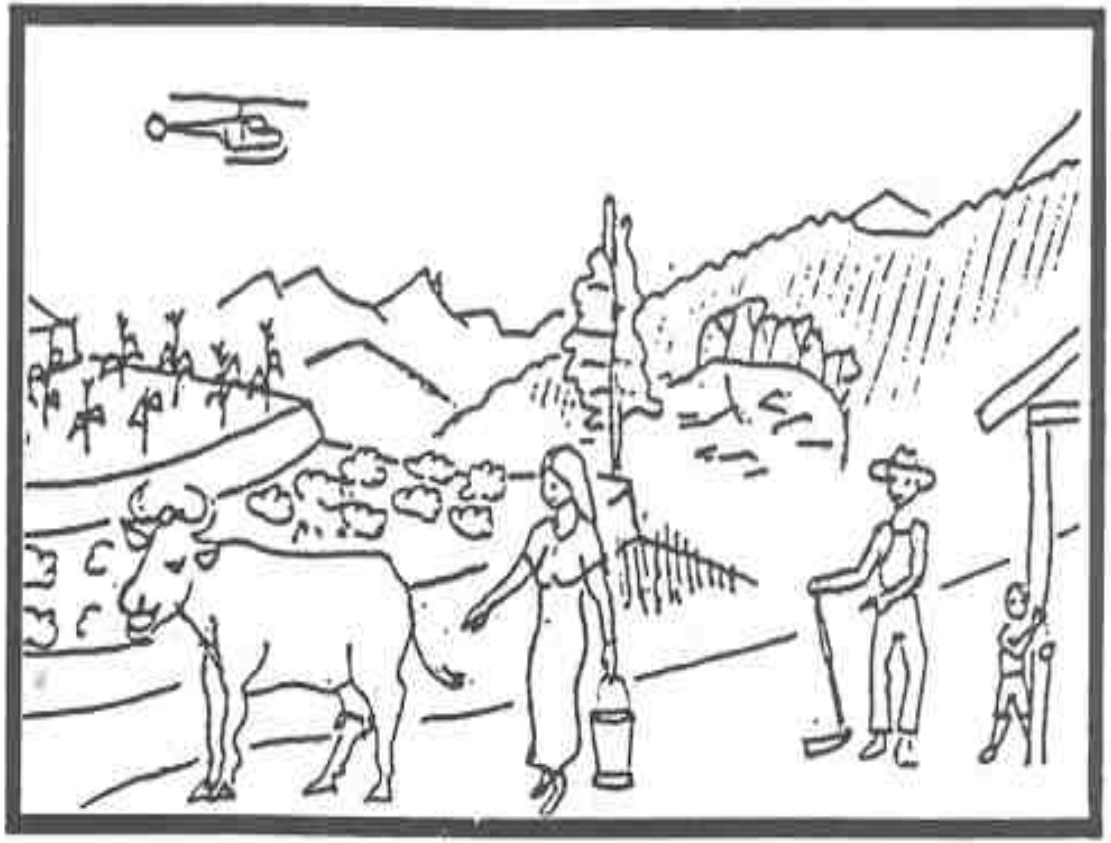
"Current Reality"

- What do you see?
- What are you thinking about when you see this picture?
- Why are you drawn to any specific aspect?
- **What is your 'frame' of reference?**

Mentimeter 2

- What do you see and what are you focusing on (30 seconds)?

=> Wordcloud



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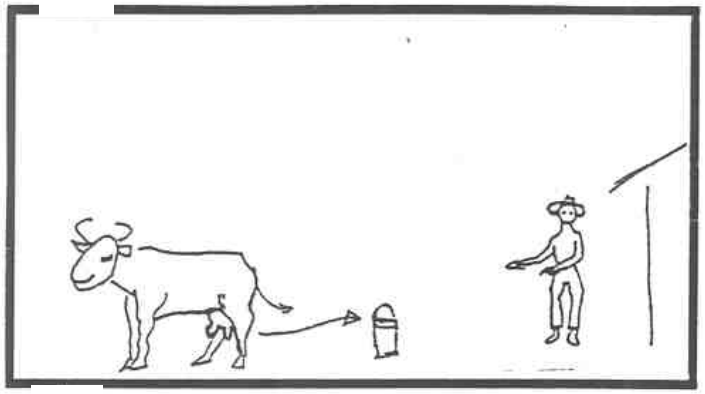
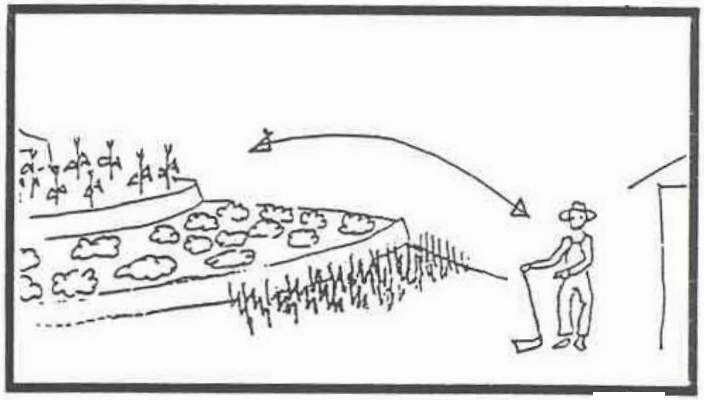
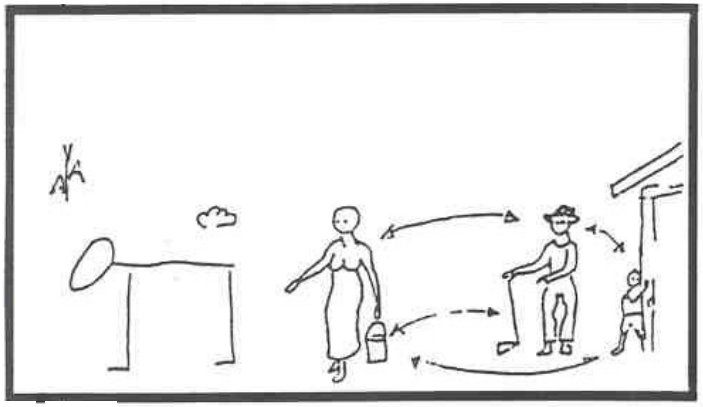
Framings: Who ‘sees’ what?



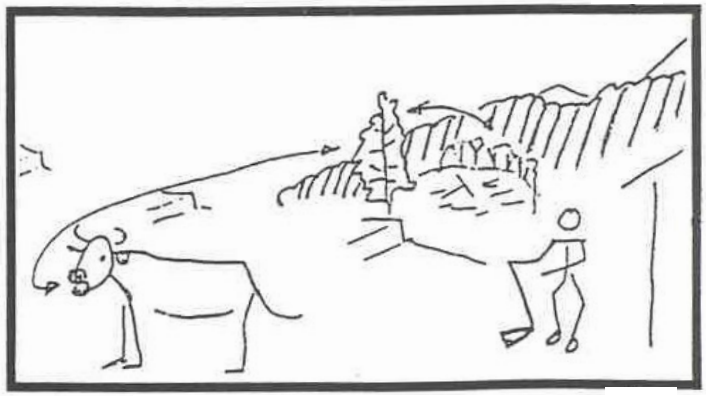
The view of a dairy specialist



The view of an agronomist

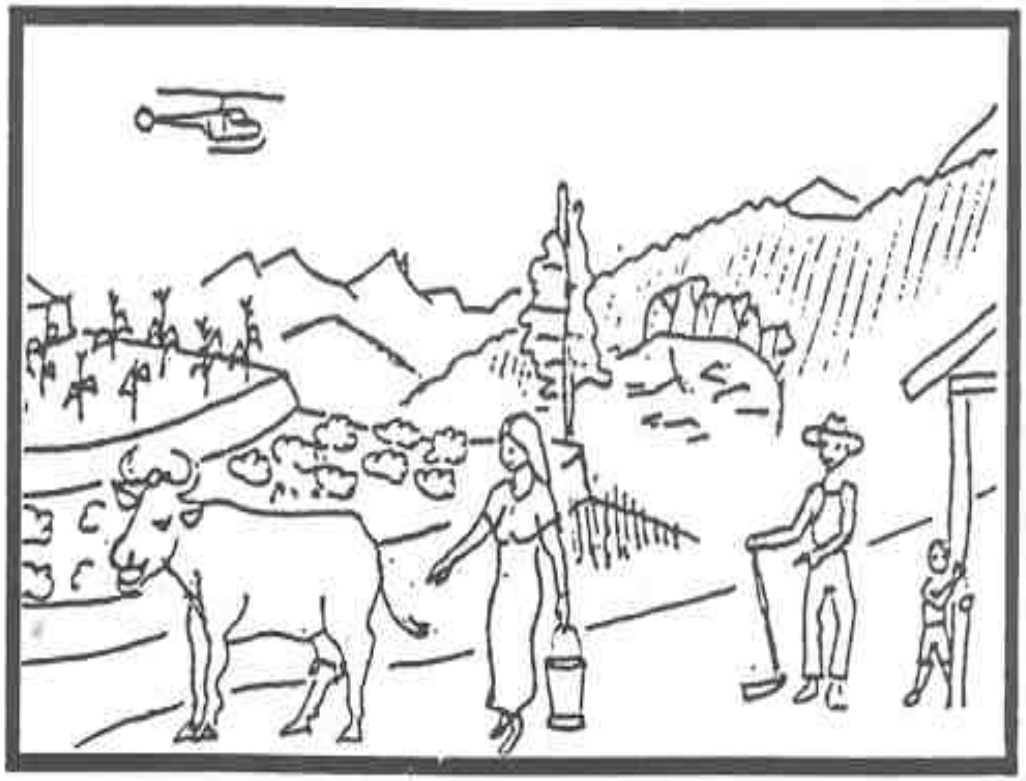


The view of a sociologist



The view of an ecologist

Framings



"Current Reality"

The whole picture

"*A systems approach begins when you first see the world through the eyes of another.*"

C.W. Churchman

Framings

When we ‘frame’ something, it allows us to focus on certain objects by bringing them to the foreground of our thinking, while reducing others to the background

We do this all the time in our thinking when we decide on what to focus on, or determine what something is, and isn’t

Boundaries

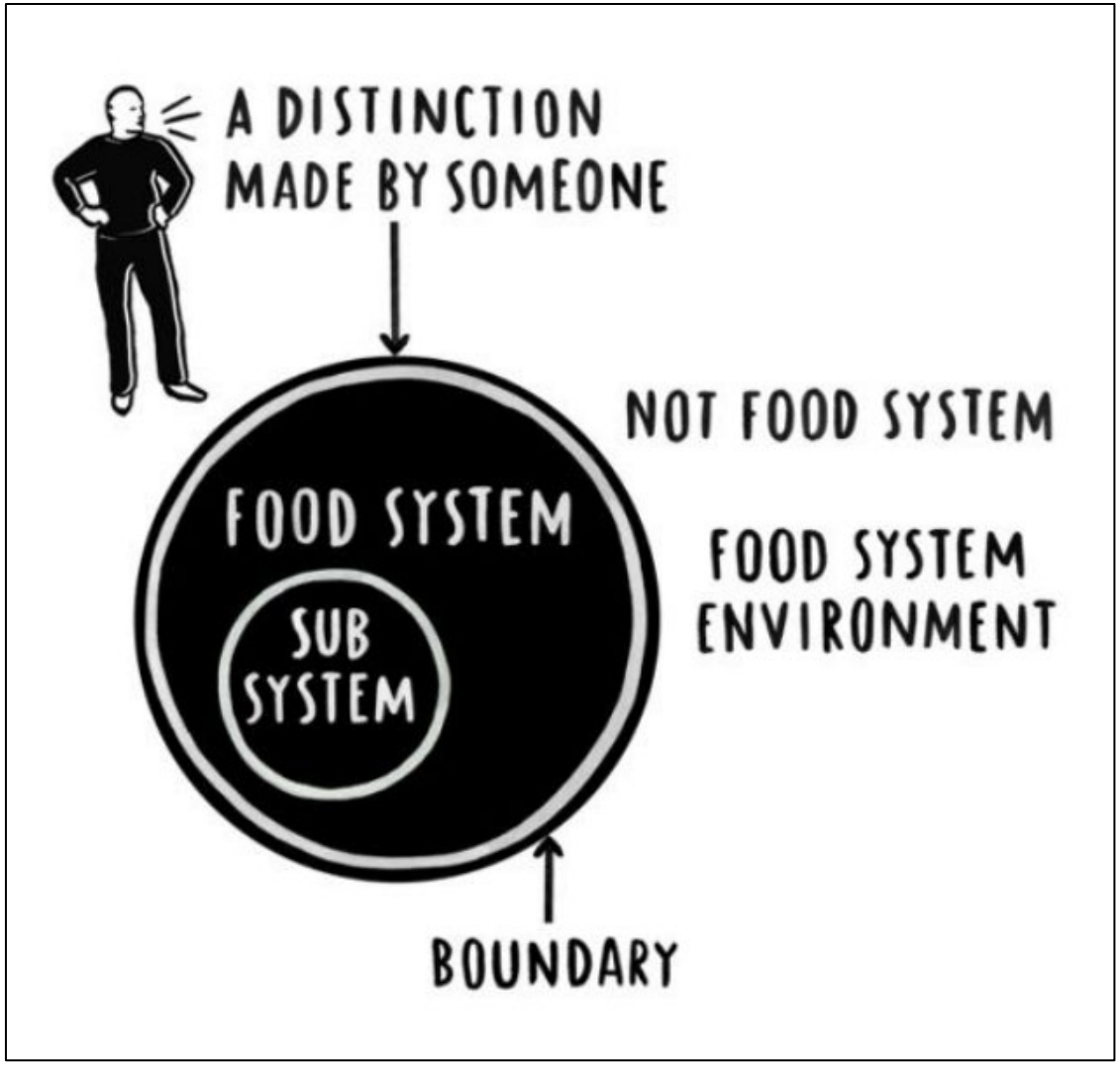
- Physical and temporal boundaries (e.g. area, walls and duration)
- Conceptual boundaries (e.g. what is included/excluded)

What kinds of boundaries can you think of for the project you are involved in?

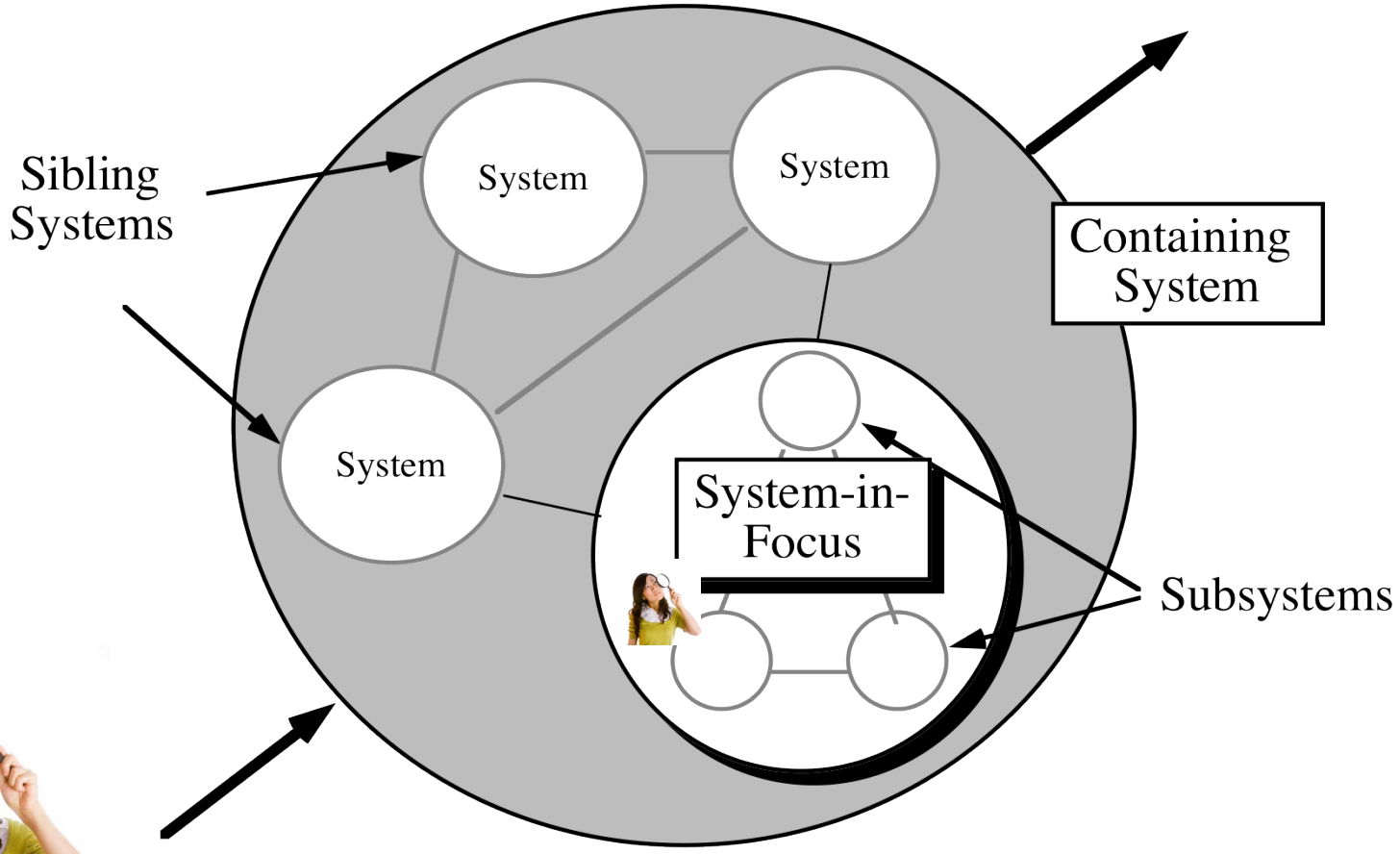
How do these types of boundaries fit within the food system?

- jurisdictional borders
- organizational structures
- limits of knowledge and understanding
- values and what is important

System Boundary Judgements

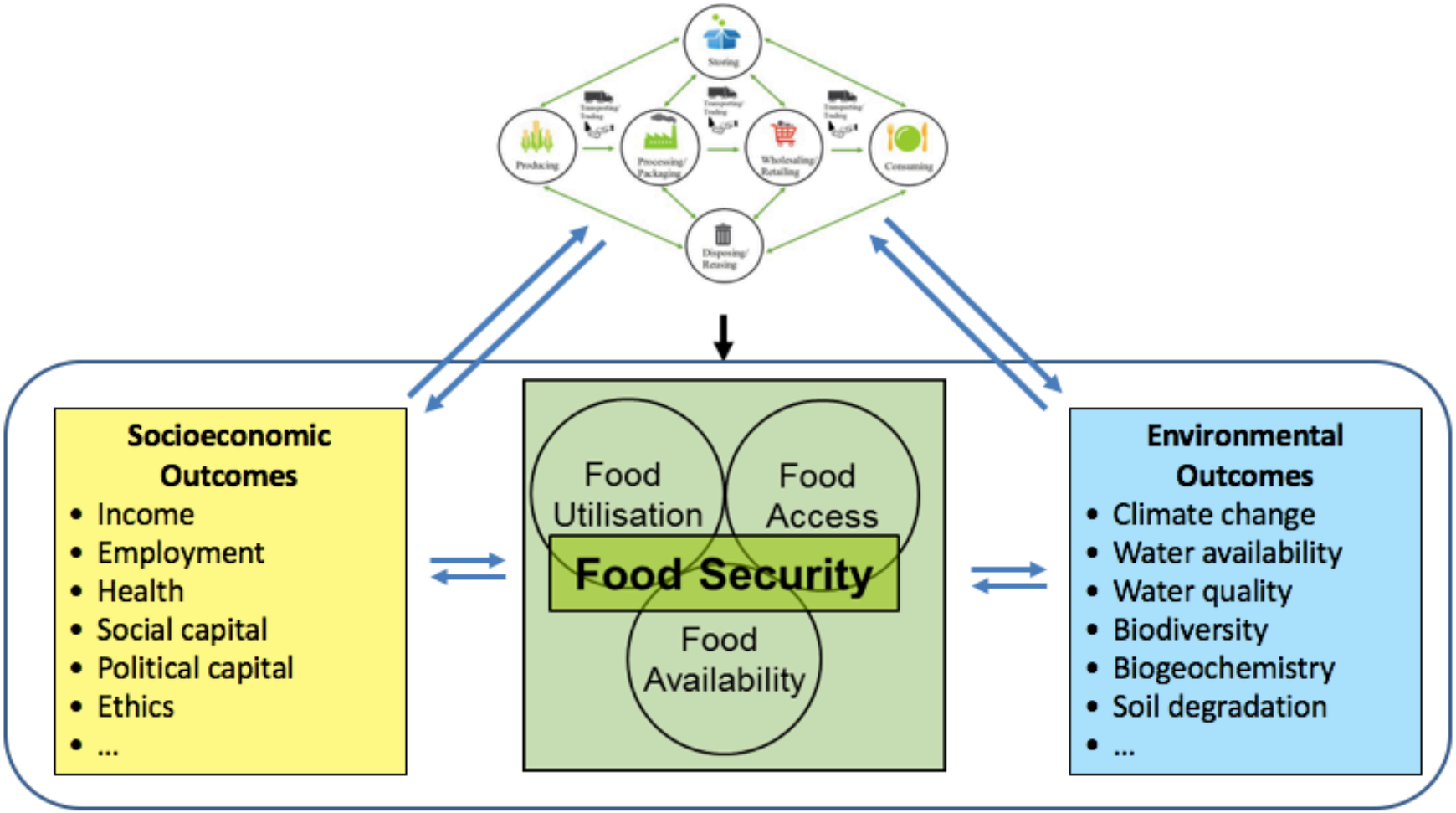


What is ‘the’ System?

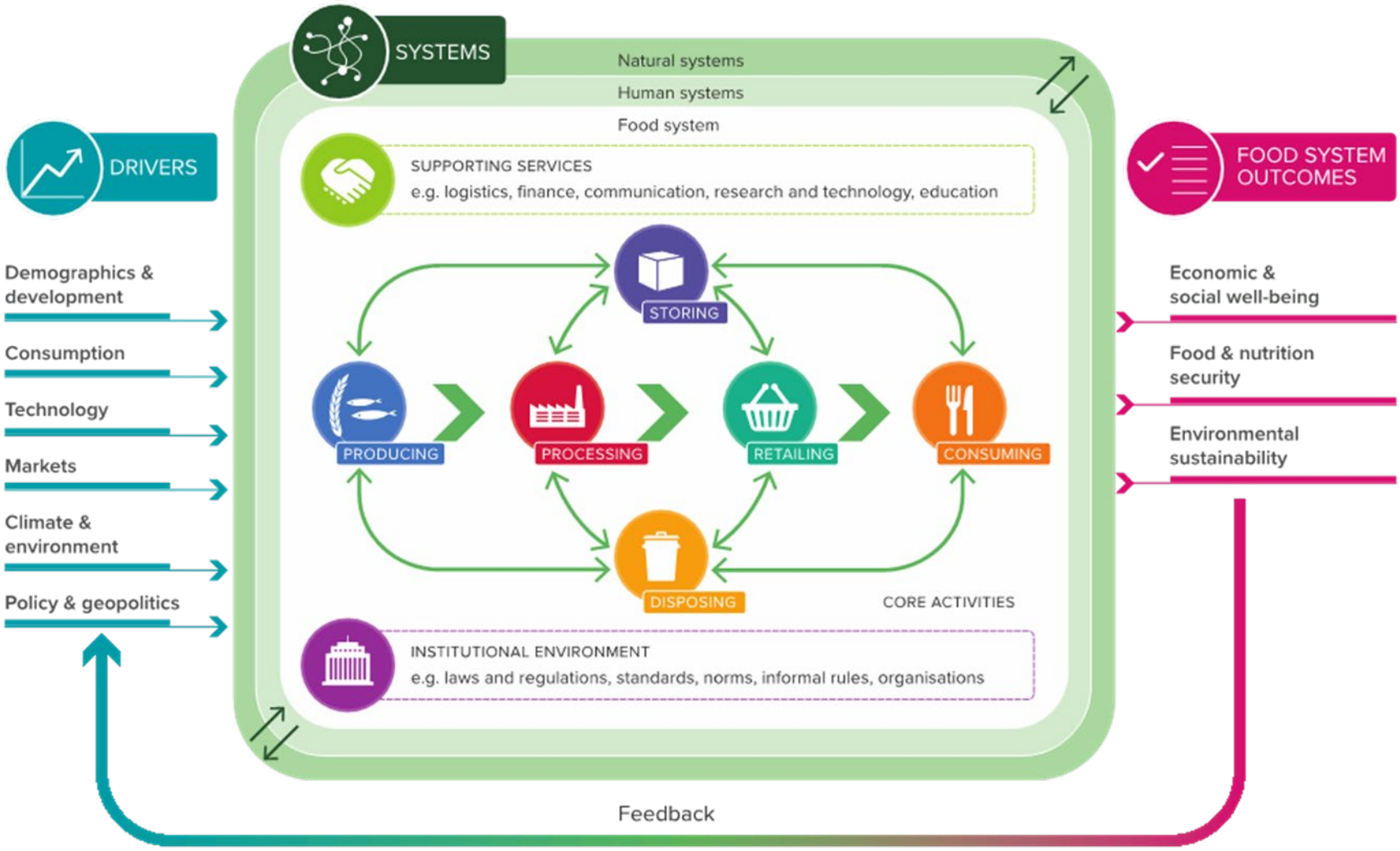


So is this the ‘Food System’?

Or this?

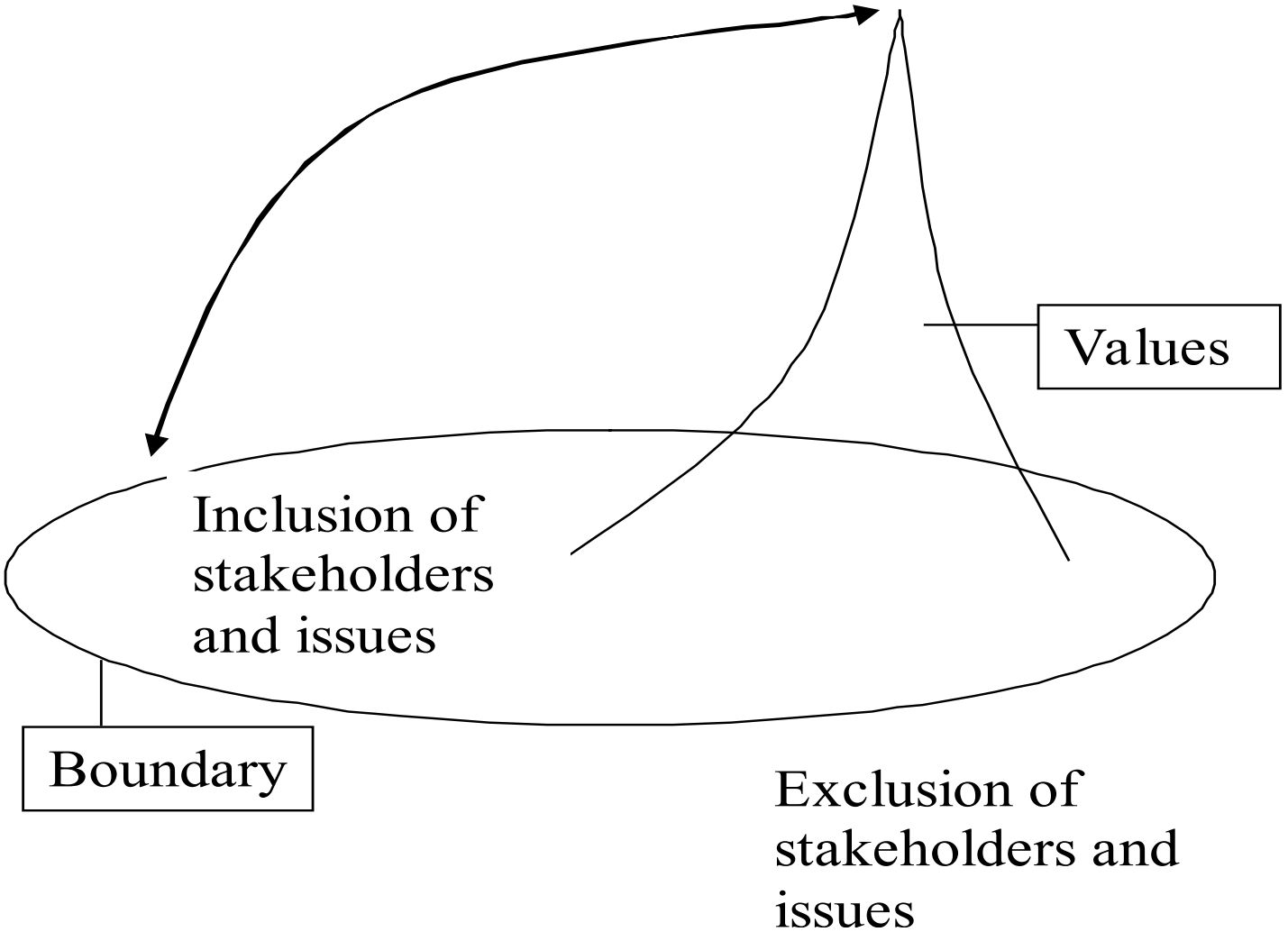

Storing
Producing
Processing/ Packaging
Wholesaling/ Retailing
Consuming
Disposing/ Reusing
Socioeconomic Outcomes
• Income
• Employment
• Health
• Social capital
• Political capital
• Ethics
• ...
Food Utilisation
Food Access
Food Security
Food Availability
Environmental Outcomes
• Climate change
• Water availability
• Water quality
• Biodiversity
• Biogeochemistry
• Soil degradation
• ...

But lets think of it as this

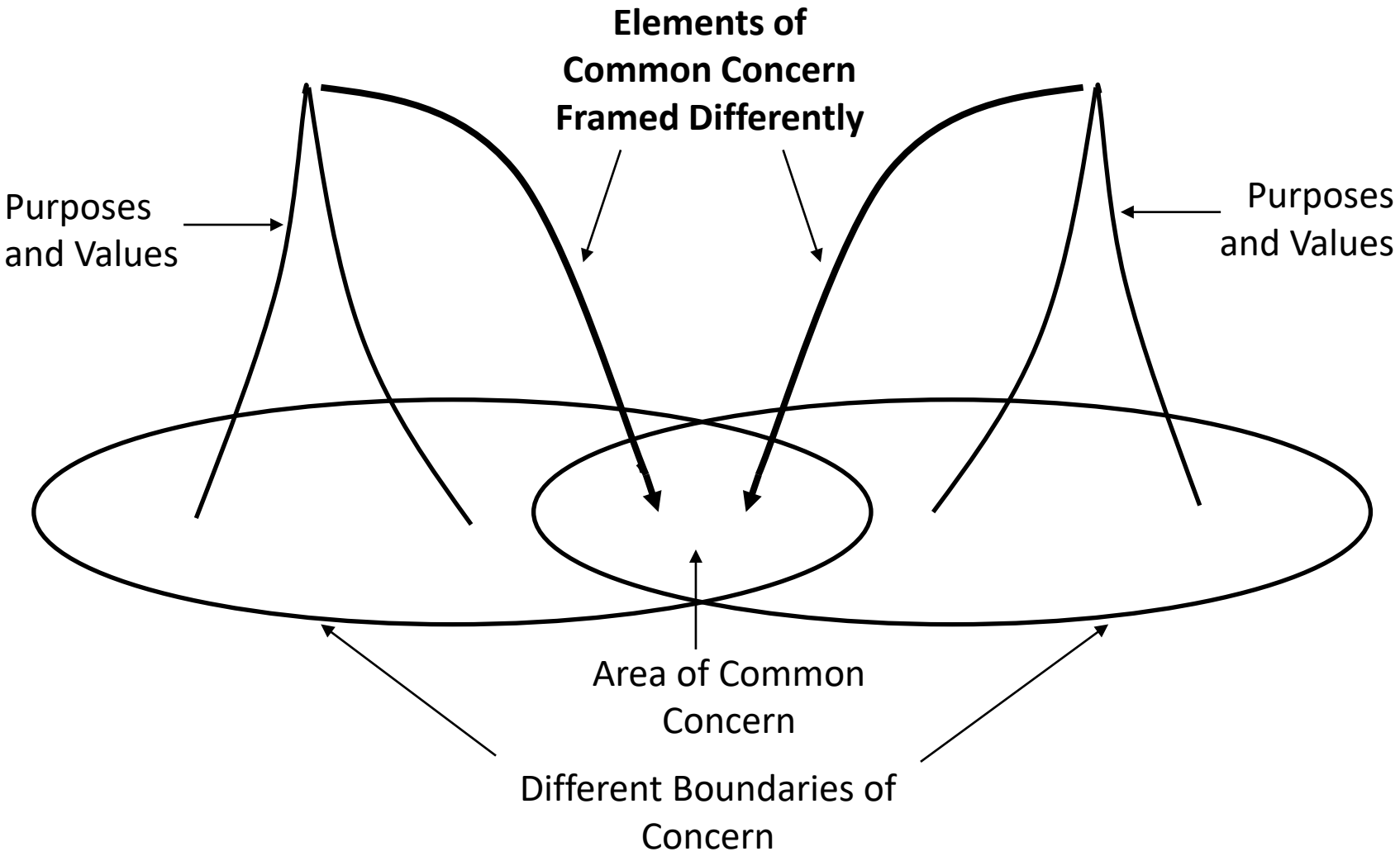


The Boundary Idea

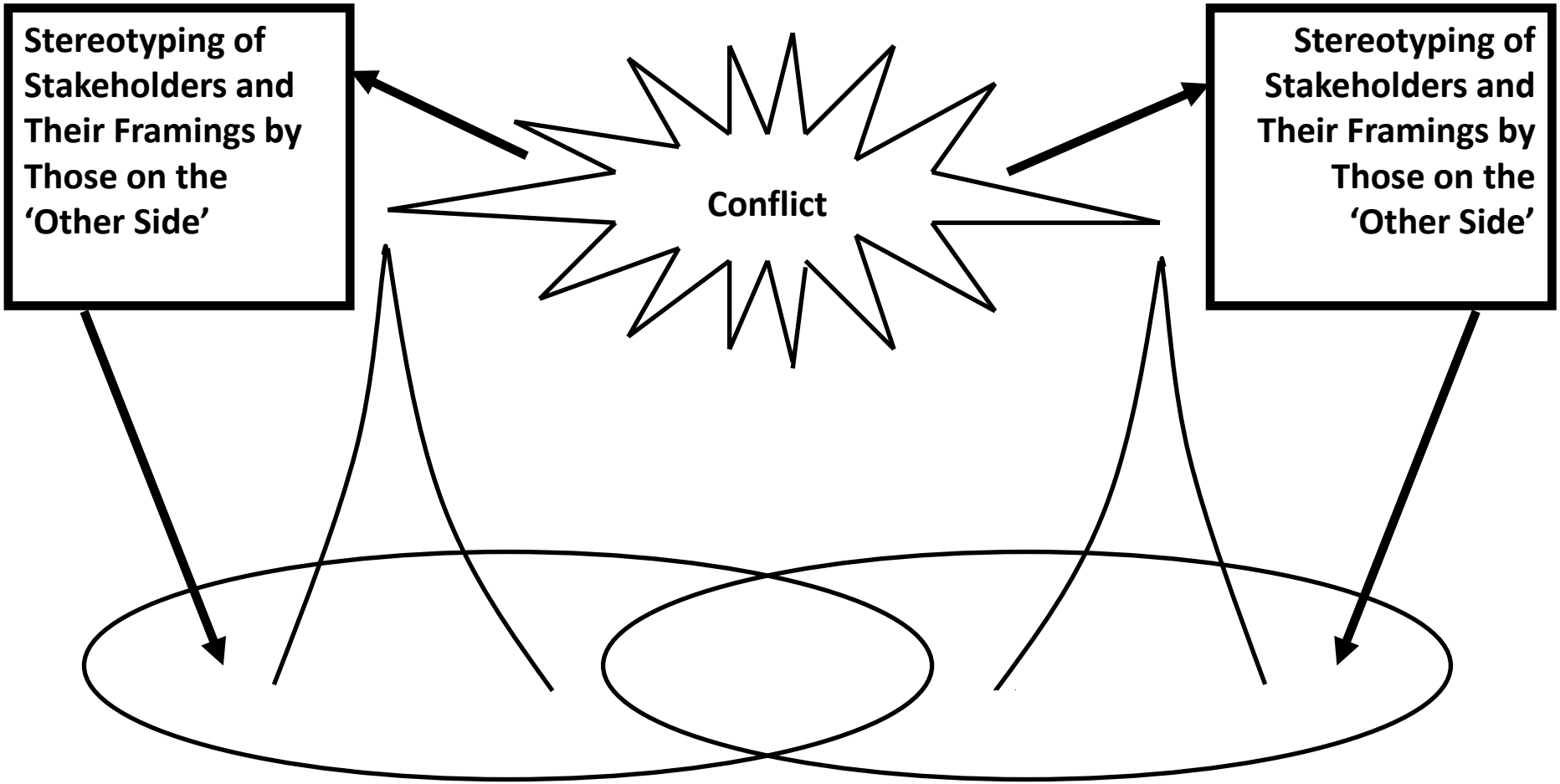
Churchman, 1970



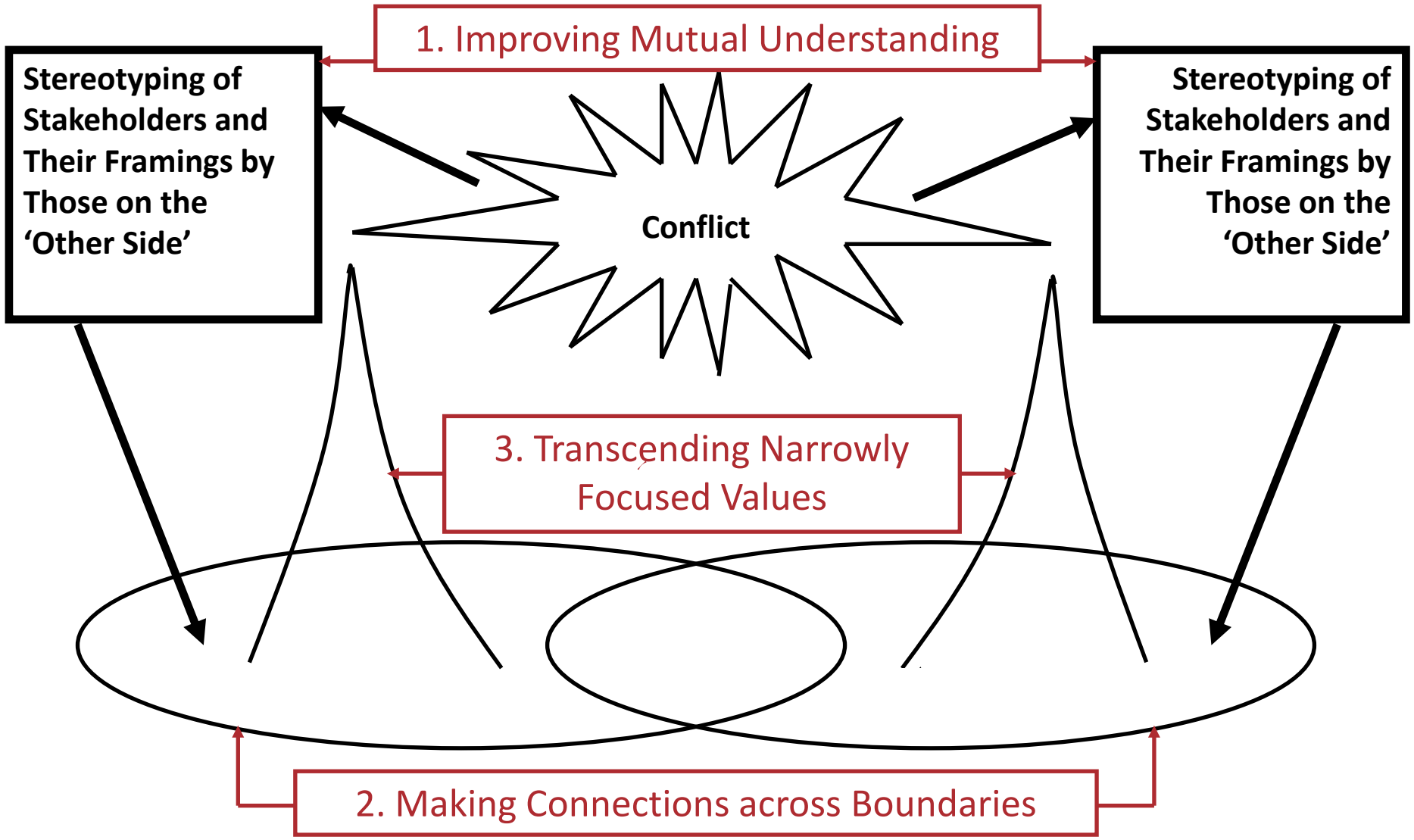
Competing Frames



Stereotyping of Others and Loss of Trust in the Ability to Communicate



Three Points of Intervention



Questions to help ‘surface’ boundary judgements

Motivation: What are you concerned about and what is your purpose in seeking to understand or intervene?

Power: Who is in control of what is going on, and has power of veto? Who has control over preference shaping, agenda setting and decision making within the project? Who determines the measure of success? What do different groups of people have a say over?

Knowledge and expertise: What experience and expertise are involved? What forms of knowledge are necessary, and from what sources?

Legitimacy: What is the basis of legitimacy within the project (positional authority, scientific methods, democratic processes, consensus, end user backing, etc.)?

Questions?

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Part II – entering the inter-thematic space

What some experts think about thematic linkages

Our Panellists:

Corinne Huser, Gender
Olivier Praz, Health
Stephanie Guha, Social Protection
Patrick Sieber, Climate Action

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Part III – have your say

Break-out sessions

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Part IV – looking ahead

The Food Systems Dashboard

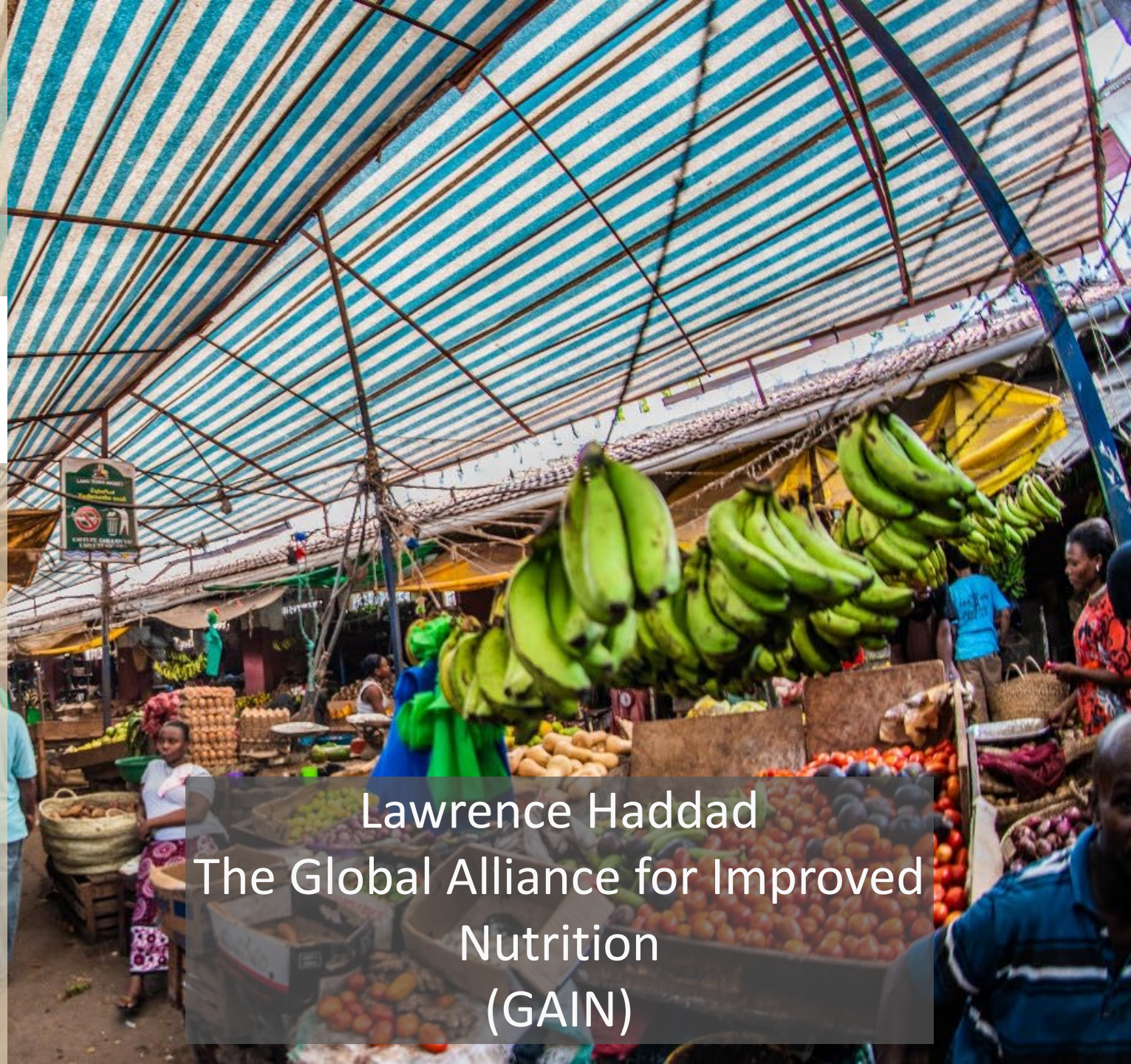
Lawrence Haddad

GAIN

Food Systems Dashboard

The *International* Food Systems Dashboard

A Tool for Holistically Examining the World's Food Systems



Lawrence Haddad
The Global Alliance for Improved Nutrition
(GAIN)

The problem for food system decision makers

- Food Systems are complex: decision makers need data to guide them
- Data for food systems too difficult to access and use
  - Over 40 different data sources had to be searched to find comprehensive data on food systems
  - Data not organised by elements of food systems
  - Data not quality screened
  - Data not easily visualised
  - Data not diagnosed/benchmarked
  - Data not linked to action

The Dashboard currently includes over 200 indicators from over 40 sources for 230 countries and territories – over 630,000 data points.

24

Drivers

Politics and Leadership
Biophysiccal, Climate, and Environment
Globalization and Trade
Sociocultural Dynamics
Population Growth, Migration, and Conflict
Income Growth and Distribution
Land Use and Urbanization

31

Food Supply Chains

Food production systems & inputs
Food storage, loss, distribution, & transport
Food processing & packaging
Retail, markets & waste

45

Food Environments

Food availability
Vendor properties
Food affordability
Food properties
Food messaging

13

Individual Factors

Economic
Cognitive
Aspirational
Situational

0

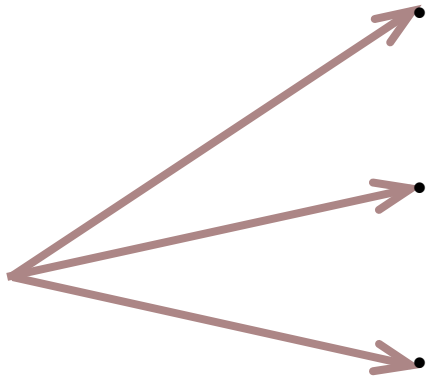
Consumer Behavior

Food Storage
Food Waste
Food Acquisition
Food Preparation
Meal Practices

86

Outcomes

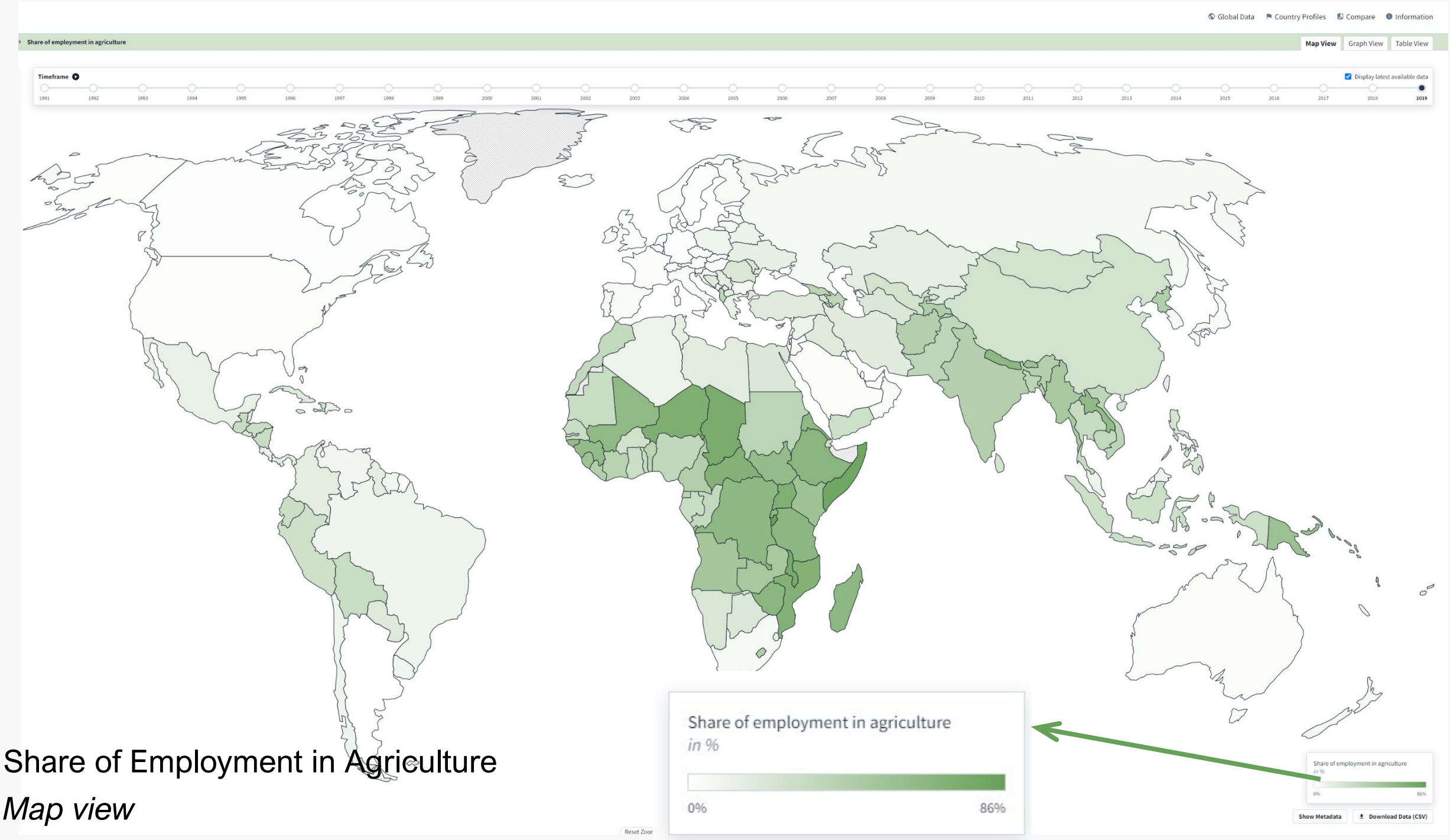
Diets
Food Security
Environment
Nutrition and Health
Social Equity
Economy



42 on IYCF and dietary intake

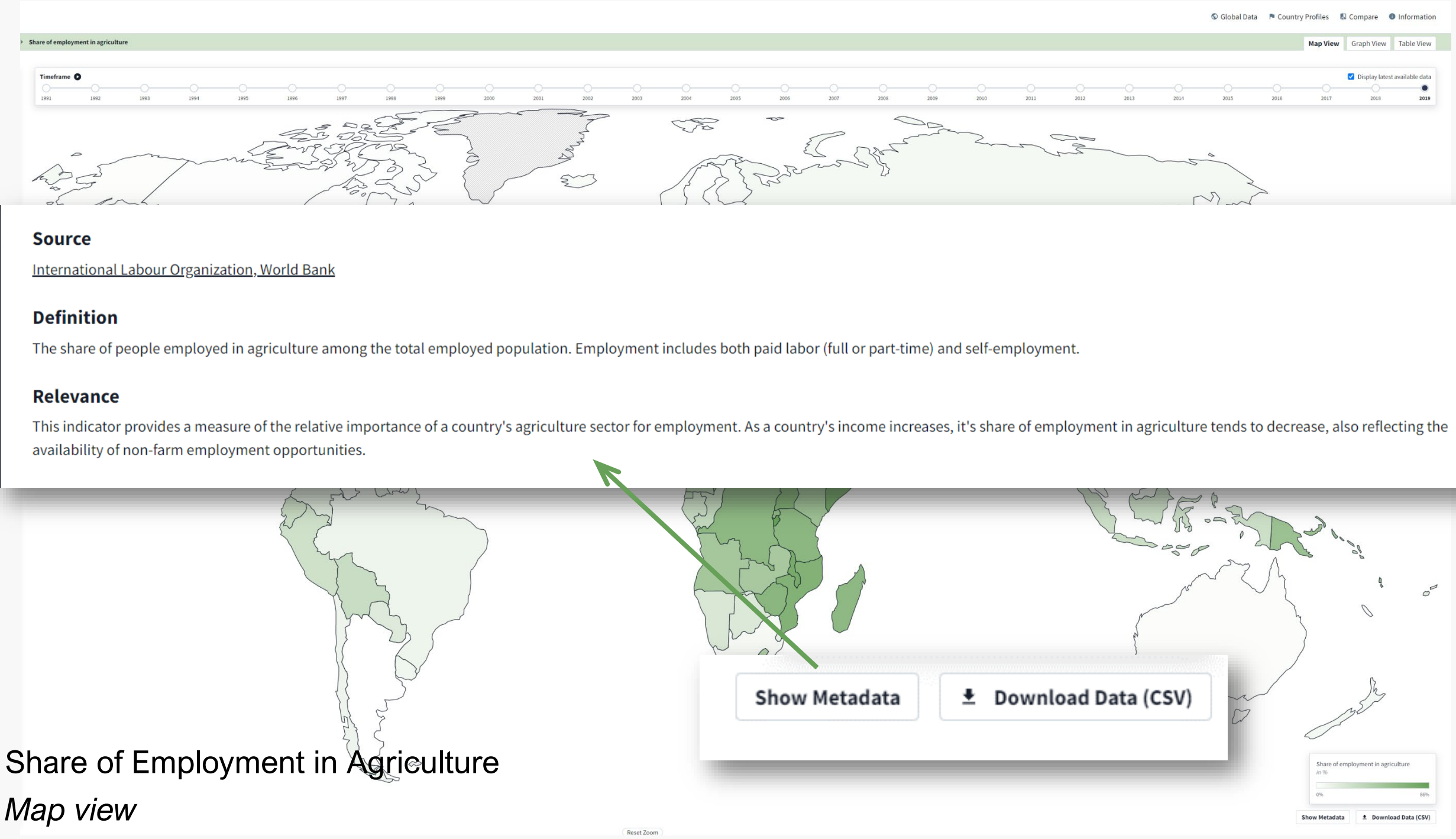
23 nutritional status and NCDs

12 environmental sustainability



Share of Employment in Agriculture

Map view



Share of Employment in Agriculture

Map view

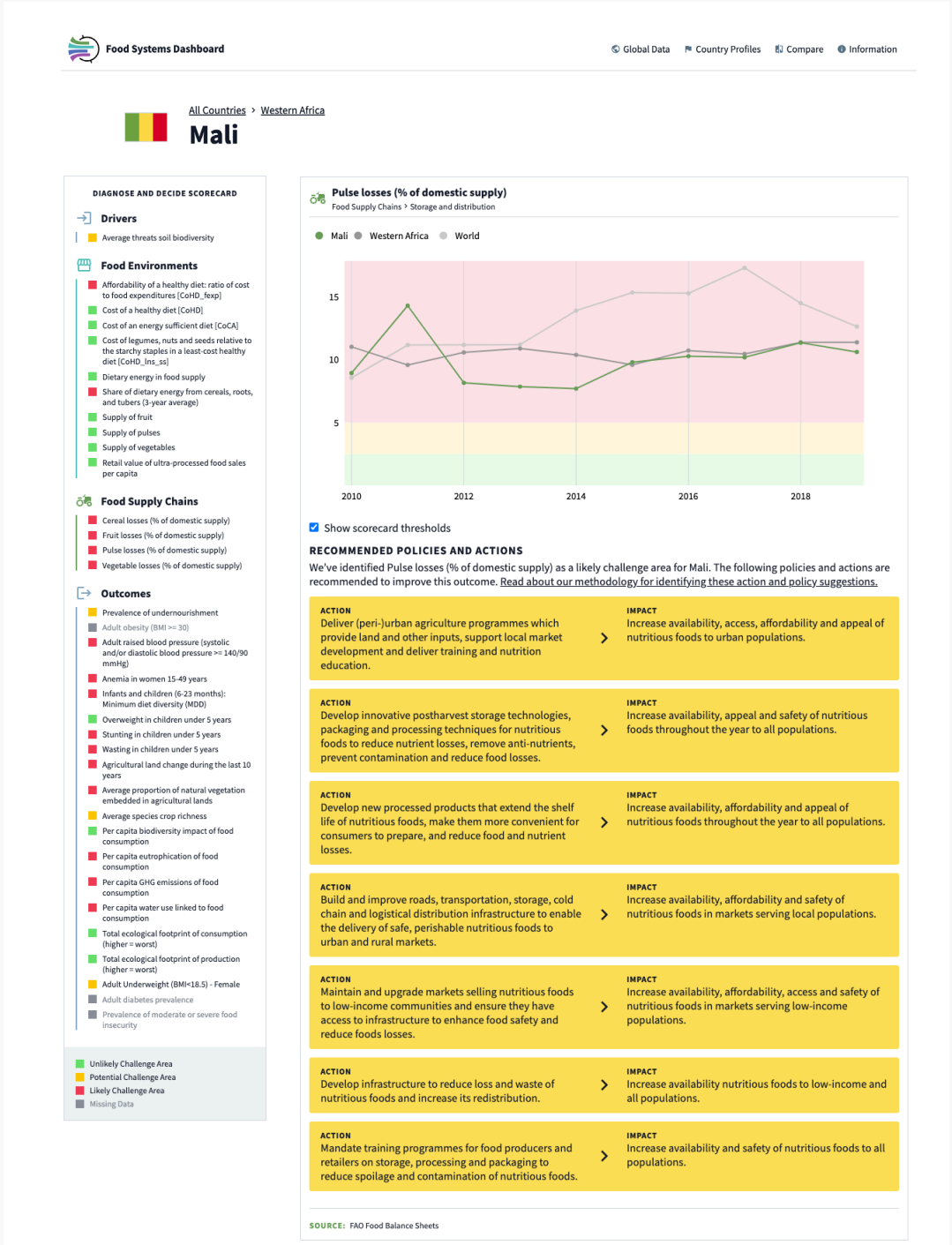
www.foodsystemsdashboard.org

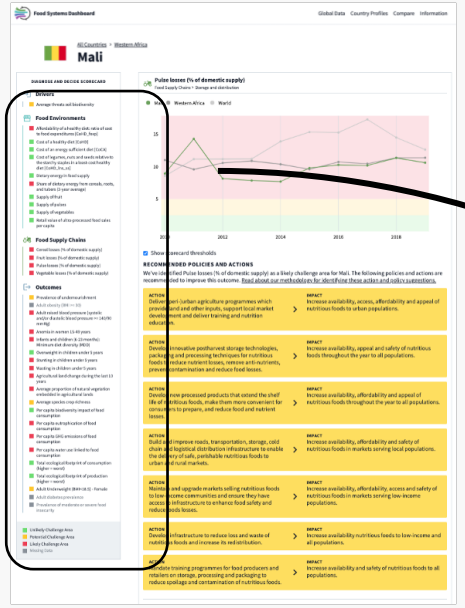
Describe
Diagnose
Decide

200 + indicators
230 countries & territories

Diagnose citation:
https://journals.plos.org/plosone/article/comments?id=10.1371/journal.pone.0270712

Decide citation:
https://www.gainhealth.org/sites/default/files/event/publication-42-policies-and-actions-to-orient-food-systems-towards-healthier-diets-for-all.pdf





Mali

The **DIAGNOSE** tool generates an overview of food systems performance for each country.

- Unlikely Challenge Area
- Potential Challenge Area
- Likely Challenge Area
- Missing Data

DIAGNOSE AND DECIDE SCORECARD

Drivers

- Average threats soil biodiversity

Food Environments

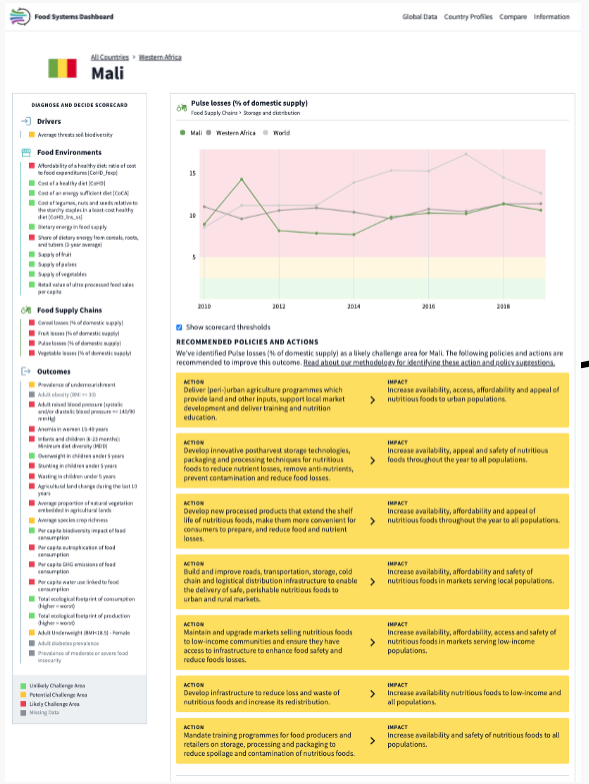
- Affordability of a healthy diet: ratio of cost to food expenditures [CoHD_fexp]
- Cost of a healthy diet [CoHD]
- Cost of an energy sufficient diet [CoCA]
- Cost of legumes, nuts and seeds relative to the starchy staples in a least-cost healthy diet [CoHD_lns_ss]
- Dietary energy in food supply
- Share of dietary energy from cereals, roots, and tubers (3-year average)
- Supply of fruit
- Supply of pulses
- Supply of vegetables
- Retail value of ultra-processed food sales per capita

Food Supply Chains

- Cereal losses (% of domestic supply)
- Fruit losses (% of domestic supply)
- Pulse losses (% of domestic supply)
- Vegetable losses (% of domestic supply)

Outcomes

- Prevalence of undernourishment
- Adult obesity (BMI >= 30)
- Adult raised blood pressure (systolic and/or diastolic blood pressure >= 140/90 mmHg)
- Anemia in women 15-49 years
- Infants and children (6-23 months): Minimum diet diversity (MDD)
- Overweight in children under 5 years
- Stunting in children under 5 years
- Wasting in children under 5 years
- Agricultural land change during the last 10 years
- Average proportion of natural vegetation embedded in agricultural lands
- Average species crop richness
- Per capita biodiversity impact of food consumption
- Per capita eutrophication of food consumption
- Per capita GHG emissions of food consumption
- Per capita water use linked to food consumption
- Total ecological footprint of consumption (higher = worst)
- Total ecological footprint of production (higher = worst)
- Adult Underweight (BMI<18.5) - Female
- Adult diabetes prevalence



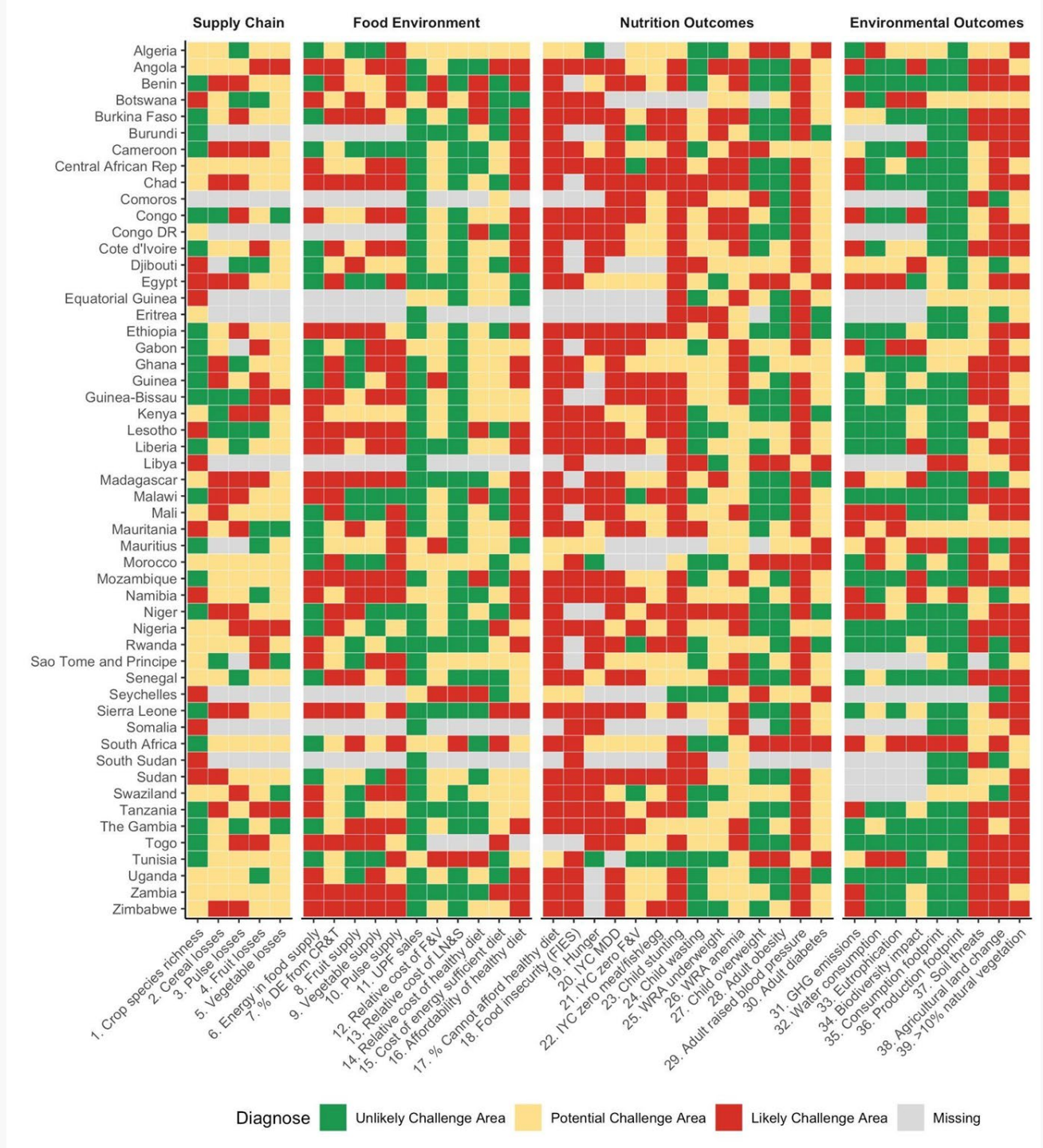
The **DECIDE** tool connects the dots between challenge areas and relevant solutions.

RECOMMENDED POLICIES AND ACTIONS

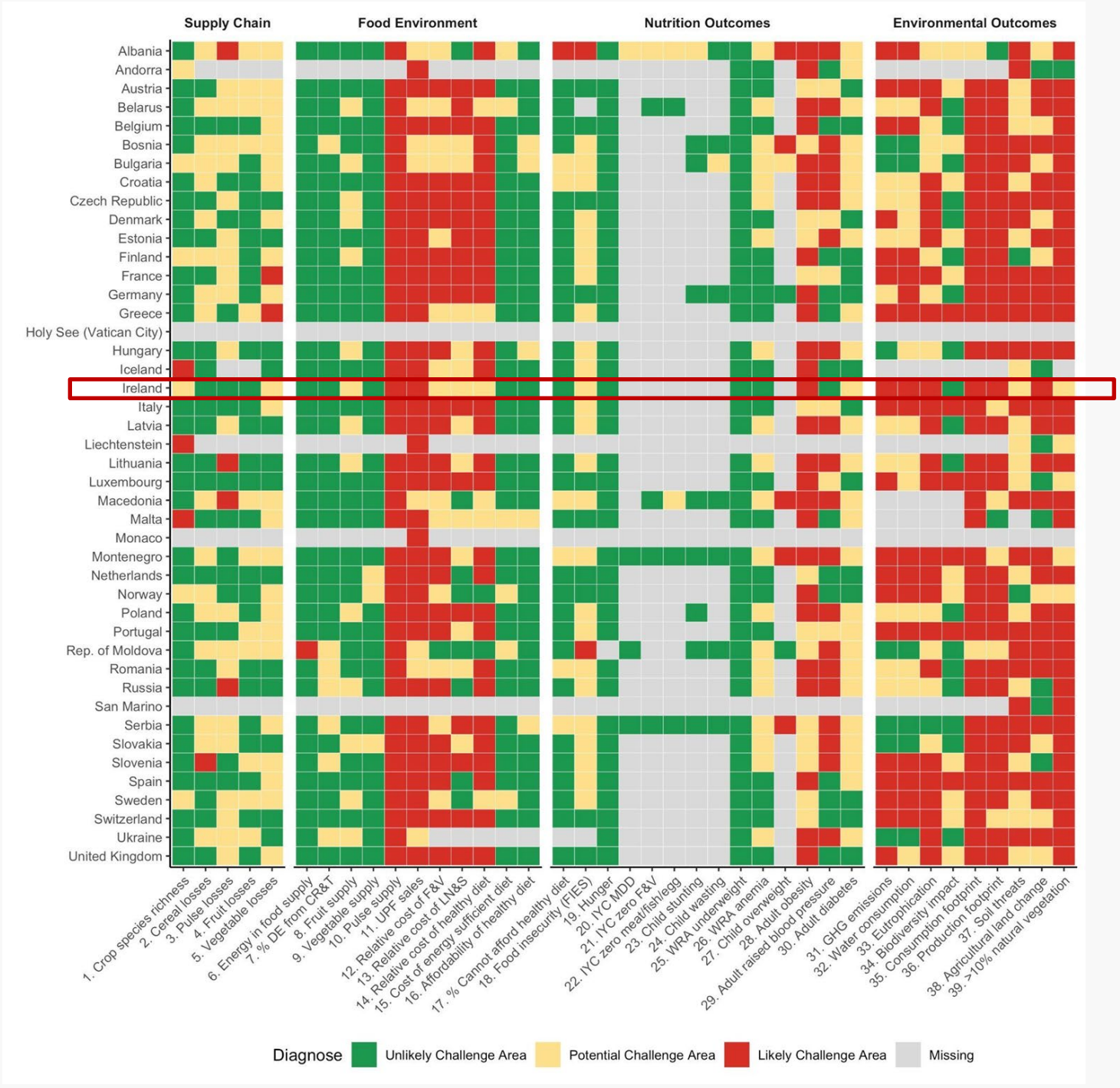
We've identified Cereal losses (% of domestic supply) as a likely challenge area for Mali. The following policies and actions are recommended to improve this outcome. Read about our methodology for identifying these action and policy suggestions.

ACTION	IMPACT
Develop infrastructure to reduce loss and waste of nutritious foods and increase its redistribution.	Increase availability nutritious foods to low-income and all populations.
Mandate training programmes for food producers and retailers on storage, processing and packaging to reduce spoilage and contamination of nutritious foods.	Increase availability and safety of nutritious foods to all populations.
Deliver (peri-)urban agriculture programmes which provide land and other inputs, support local market development and deliver training and nutrition education.	Increase availability, access, affordability and appeal of nutritious foods to urban populations.
Develop innovative postharvest storage technologies, packaging and processing techniques for nutritious foods to reduce nutrient losses, remove anti-nutrients, prevent contamination and reduce food losses.	Increase availability, appeal and safety of nutritious foods throughout the year to all populations.
Develop new processed products that extend the shelf life of nutritious foods, make them more convenient for consumers to prepare, and reduce food and nutrient losses.	Increase availability, affordability and appeal of nutritious foods throughout the year to all populations.
Build and improve roads, transportation, storage, cold chain and logistical distribution infrastructure to enable the delivery of safe, perishable nutritious foods to urban and rural markets.	Increase availability, affordability and safety of nutritious foods in markets serving local populations.
Maintain and upgrade markets selling nutritious foods to low-income communities and ensure they have access to infrastructure to enhance food safety and reduce foods losses.	Increase availability, affordability, access and safety of nutritious foods in markets serving low-income populations.

SOURCE FAO Food Balance Sheets



Traffic Light Benchmarking for 55 African countries



The problems--and answers--are within food systems

Ireland's challenge areas

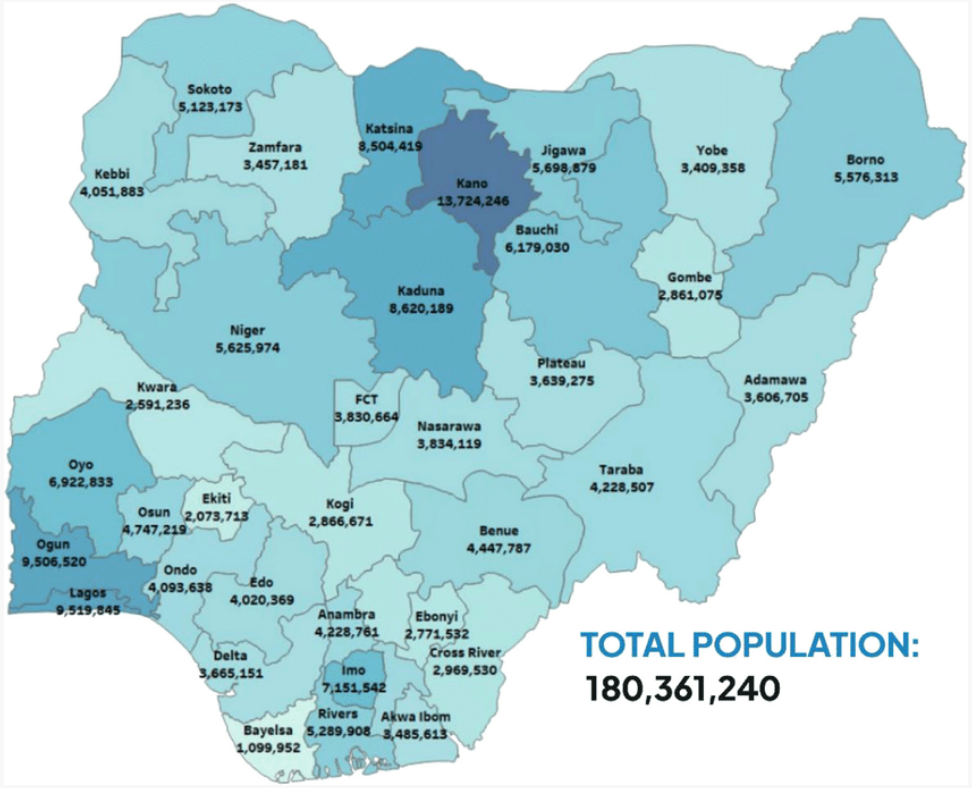
- Low supply of pulses
- High consumption of ultra processed foods
- Adult obesity
- GHG emissions
- Water consumption from food
- Eutrophication (quality of body of water)

From the Food Systems Dashboard

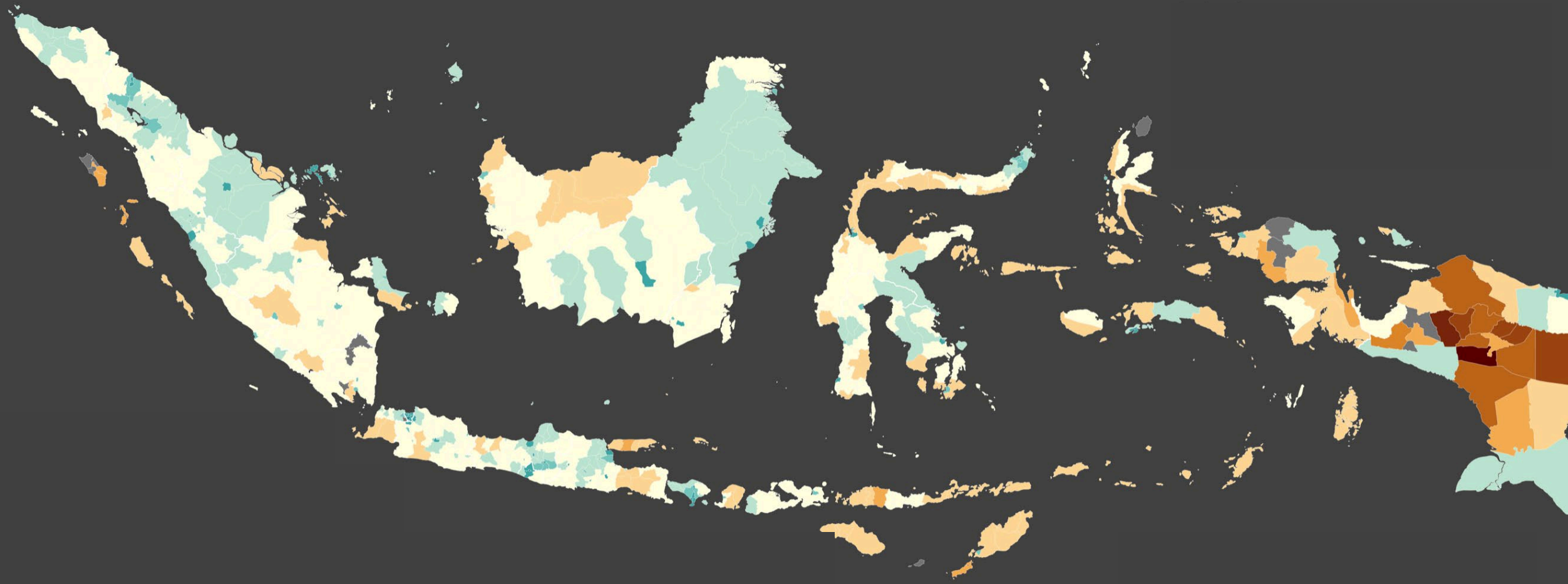
www.foodsystemsdashboard.org

We are working with key government partners on 6 country and subnational Dashboards, covering >1 billion people

1. Bangladesh: The Food Planning and Monitoring Unit, Ministry of Food
2. Indonesia: The National Development Planning Agency (Bappenas) and the Central Bureau of Statistics
3. Pakistan: The Ministry on Planning Development & Special initiatives, Planning Commission of Pakistan
4. Mozambique: The Ministry of Industry and Commerce, the Ministry of Agriculture and Rural Development and the Ministry of Health
5. Kenya: The Ministry of Agriculture, The Department of ICT, The Department of Trade, The Department of Health
6. Nigeria: The Ministry of Agriculture and the Ministry of Finance, Budget & National Planning



In Indonesia we will be able to build diagnostic profiles for 514 cities and regencies



Having access to comprehensive, quality-vetted set of indicators that span across aspects of the food system, in a way that is easy to use for analysis and visualisation, is a critical tool for policymaking, programme design, and research. The Food Systems Dashboard helps to make this possible.

Thank you!

Food Systems Dashboard

JOHNS HOPKINS UNIVERSITY

gain
Global Alliance for Improved Nutrition

Part IV – looking ahead

What's next?

SDC A+FS Network

Food Systems Learning Journey

A learning adventure taking us around the globe to understand and act more systemically

2022 Workshops

West Africa / Bamako – Regional workshop 5th/6th December (Fr)

→ West Africa online event: 20th December 10 – 11:30 CET

MENA / Cairo – 12th/13th December (En)

→ MENA online event: 12th January 2023 10 – 11:30 CET

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2023 Workshops

East & Southern Africa / Harare –
week of 16th – 20th January (En)

→ E & S Africa online event: 25th January 10 – 11:30 CET

Asia / Tashkent – 16th/17th March (En)
Asia / Bangkok – 20th/21st March (En)

→ Asia online event: 5th April 2023 9 – 10:30 CET

Latin America / Harare – Santa Cruz 18th/19th April (Sp)

→ Latin America online event: 5th May 16 – 17h CET

Thank you for joining us!

See you soon….

… in Bamako?

… in Cairo?

… or online?