# Foresight for Food Virtual Foresight Masterclass for Cross-Country Learning 18 April 2023









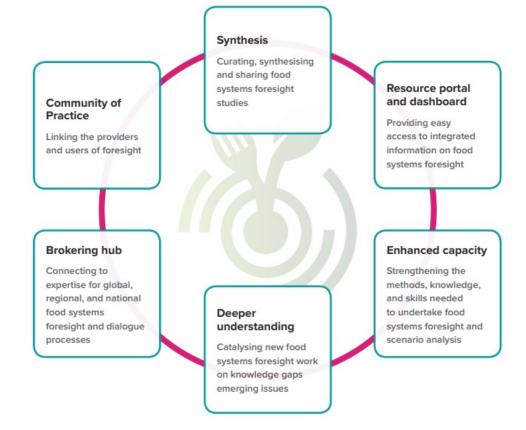


#### **Introducing Foresight4Food**

- Network of providers and users of foresight and scenario analysis
- Promotes futures thinking for food systems transformation
- Helps to build capabilities for foresight
- Focus on linking participatory processes and data modelling













## Programme for the day

**Opening** 10 mins Warm-up group discussion 10 mins FoSTr update and word of welcome 10 mins **Foresight and Food systems** 15 mins **Dhaka Urban Food Systems** 15 mins **Group discussions via Mural** 35 mins **Reporting back** 15 mins **Closing words** 5 mins



## Warm up group discussion (10 mins)

#### Lets get to know each other a bit!

Assignment: take 30 seconds to collect an object from your room that symbolizes something related to foresight for food systems to you.

In your break-out groups, share the following:



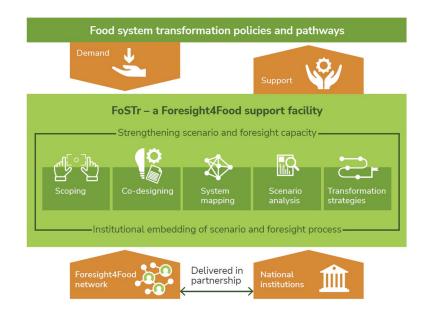
- Introduce yourself (name, organisation, country):
- Share your object and what it symbolizes
- Why are you interested in foresight for food systems



## The Foresight for Food Systems Transformation (FoSTr) Programme



- A three-year scenario & foresight programme (2022-2025) to help transform food systems in five countries across the globe: Jordan, Bangladesh, Uganda, Kenya and Niger.
- Funded by the Netherlands, delivered through IFAD and implemented by Foresight4Food, University of Oxford, Wageningen University and in-country research partners.



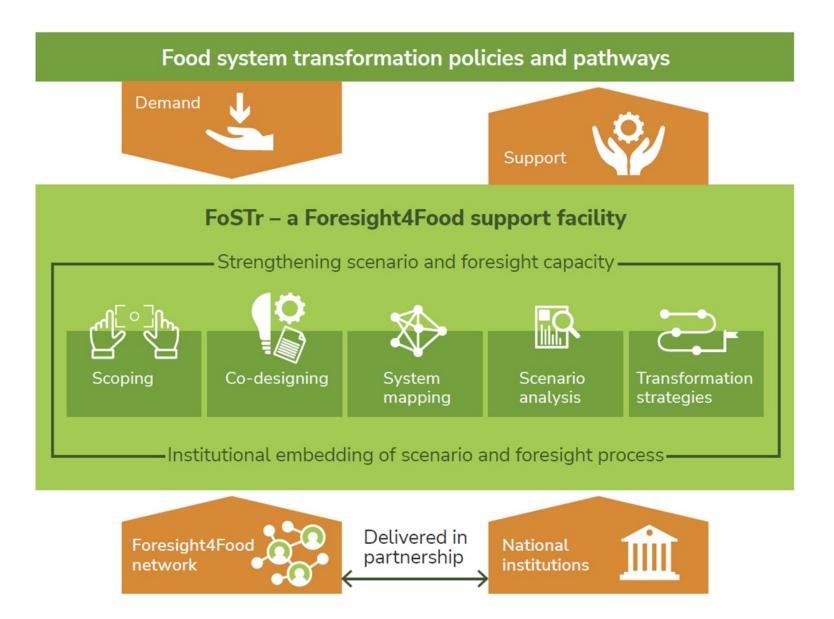








## FoSTr: a national foresight support facility





## Participatory foresight processes...





## ... informed by quantitative modelling

Inputs Tools Output **Analysis** Global macro-economic National data Land use, water use, Trade-offs model with national detail ghg emissions **Diets** Poverty, import Microsimulation model Scenarios dependence, diet affordability



## Jordan: exploratory visit & roundtable (October 2022)













## Welcoming words from Jordan Minister of Agriculture H.E. Khalid Hneifat





#### Bangladesh (Exploratory visit & SHiFT workshop, November 2022)





## Niger (Exploratory visit & workshop, February 2023)







## Kenya (Exploratory visit & workshop, March 2023)







## Timeline per country

2022 2023 **Exploratory** Food system analysis, selection of First foresight Jordan visit (Oct 22) country facilitator & research partners workshop (April 23) First foresight Food system analysis, selection of **Exploratory** Bangladesh workshop (May 23) country facilitator & research partners visit (Nov 22) Food system analysis, selection of country First foresight **Exploratory** Niger facilitator & research partners workshop (TBD) visit (Feb 23) Food system analysis, selection of **Exploratory** First foresight Kenya country facilitator & research partners visit (Mar 23) workshop (TBD) **Exploratory visit Selection of country facilitator** Food system Uganda (June 23) & research partners analysis



## Upcoming country visits

- Bangladesh: foresight workshop (April 28 May 4)
- Jordan: foresight workshop (May 7 11)
- Uganda: exploratory visit (June 5- 9)
- Kenya: foresight workshop (TBD)
- Niger: foresight workshop (TBD)



## Foresight for Food System Change An Overview













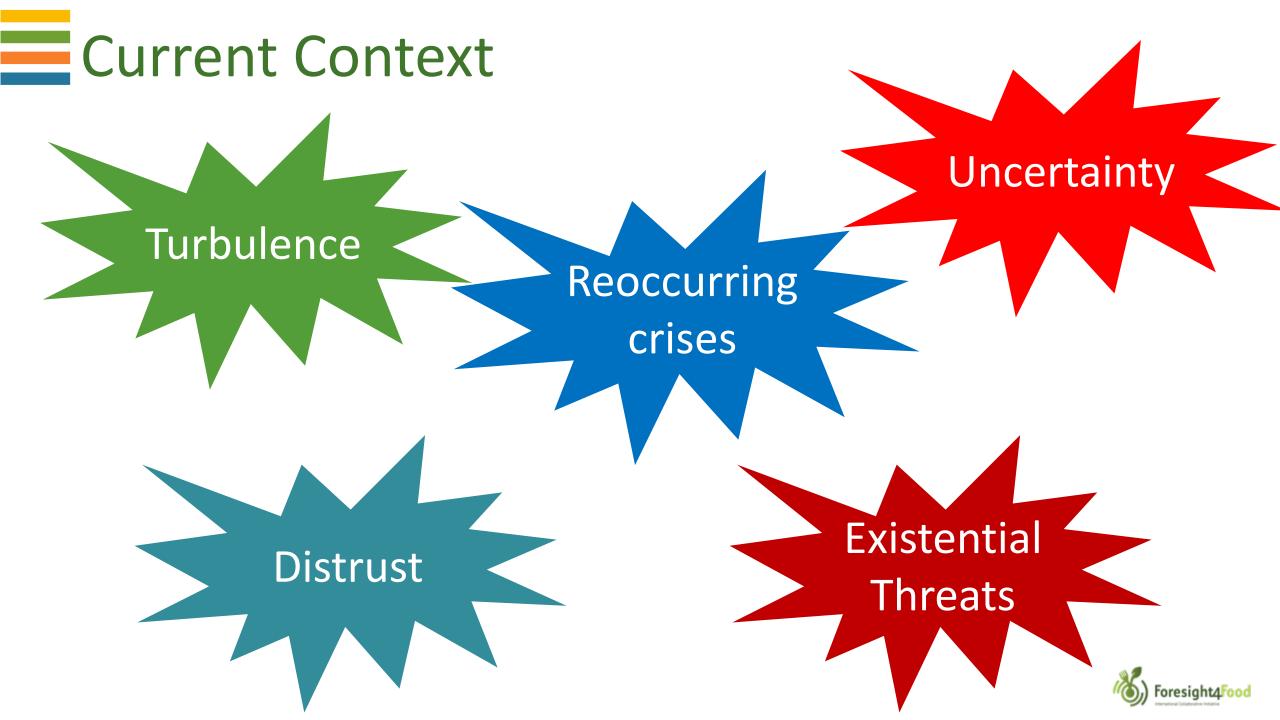


Our future planetary and human well-being depends on our collective capacity to fundamentally transform food systems!

But how?





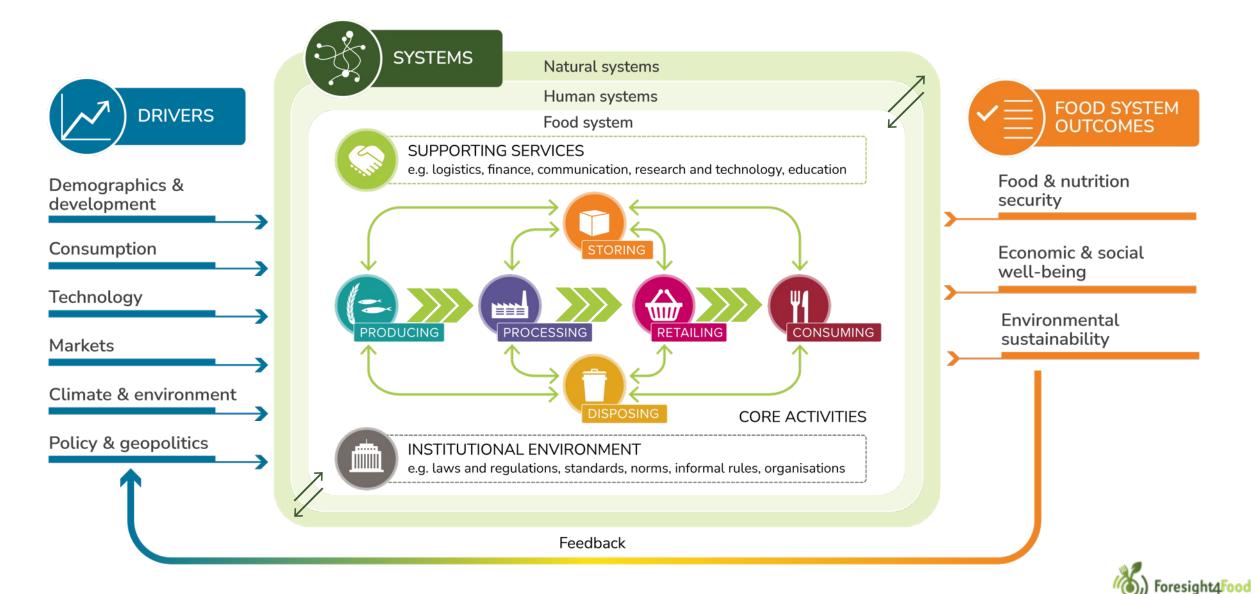


## There are Many Opportunities for Change

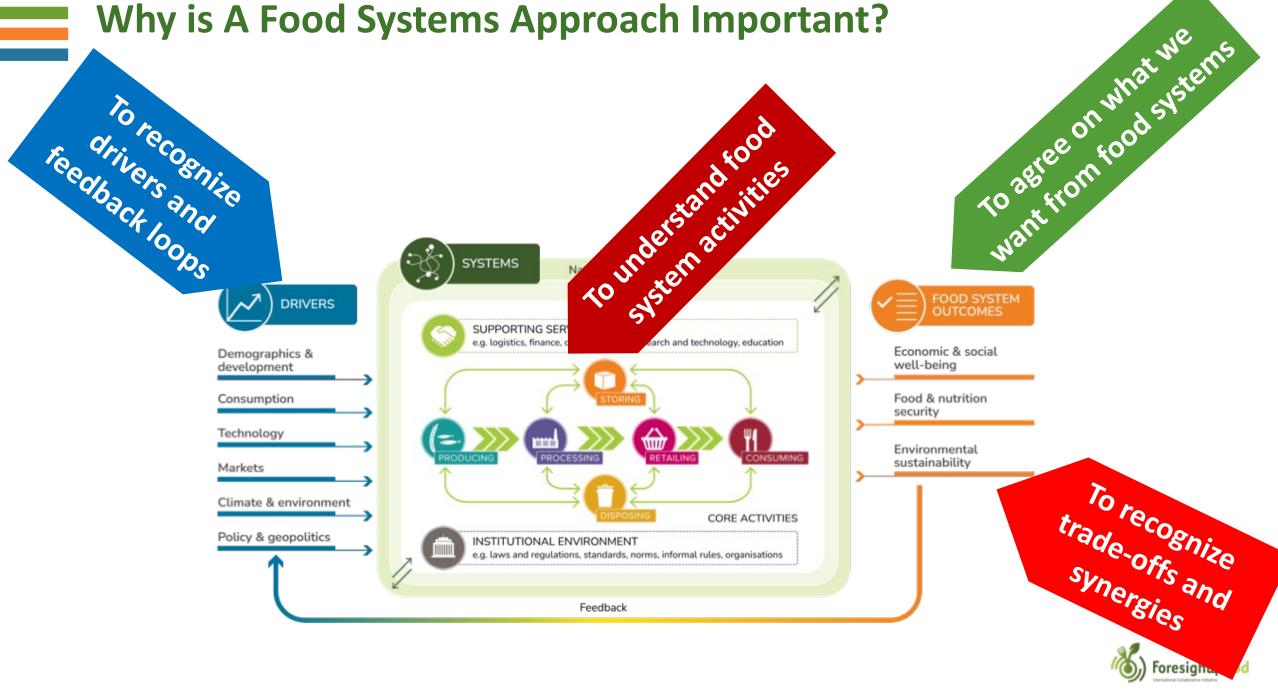
- Collective understanding and will
- Emerging technologies
- Changing economic incentives
- Alternative and novel foods
- True cost accounting
- Artificial intelligence and big data
- Alliances across government civil society business and science
- Innovation and learning systems

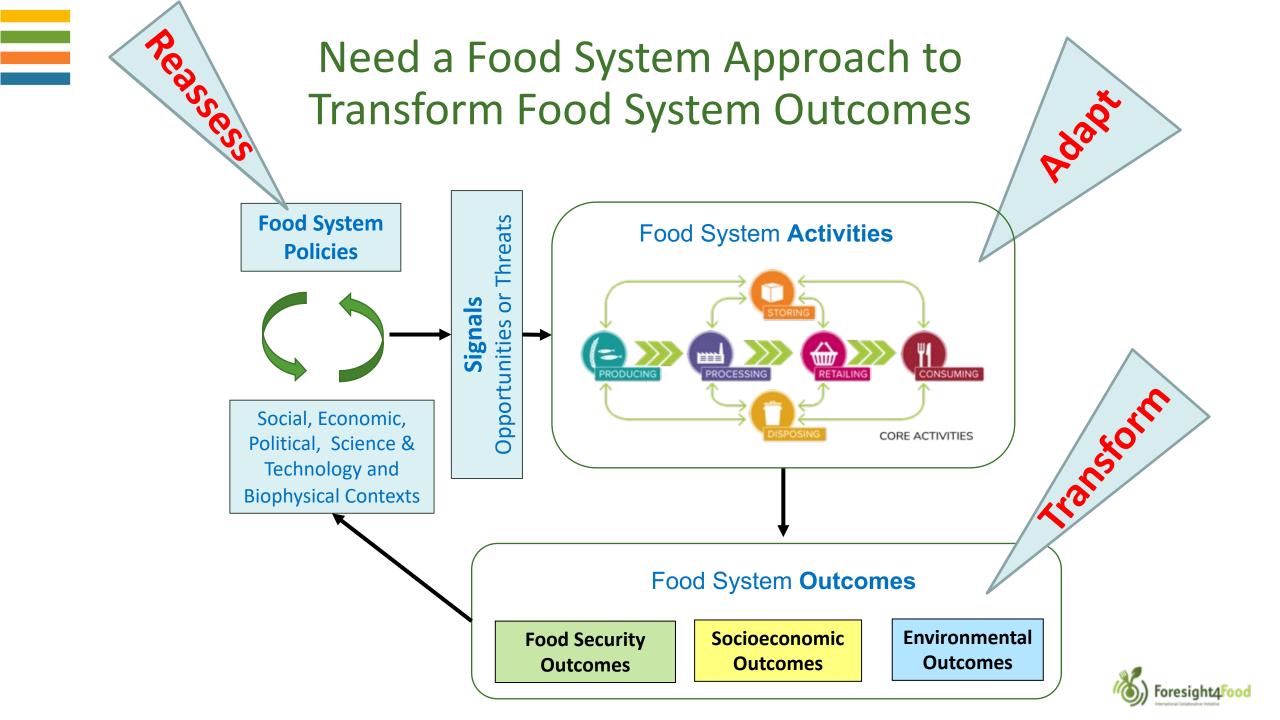


#### A Simplified Food Systems Model



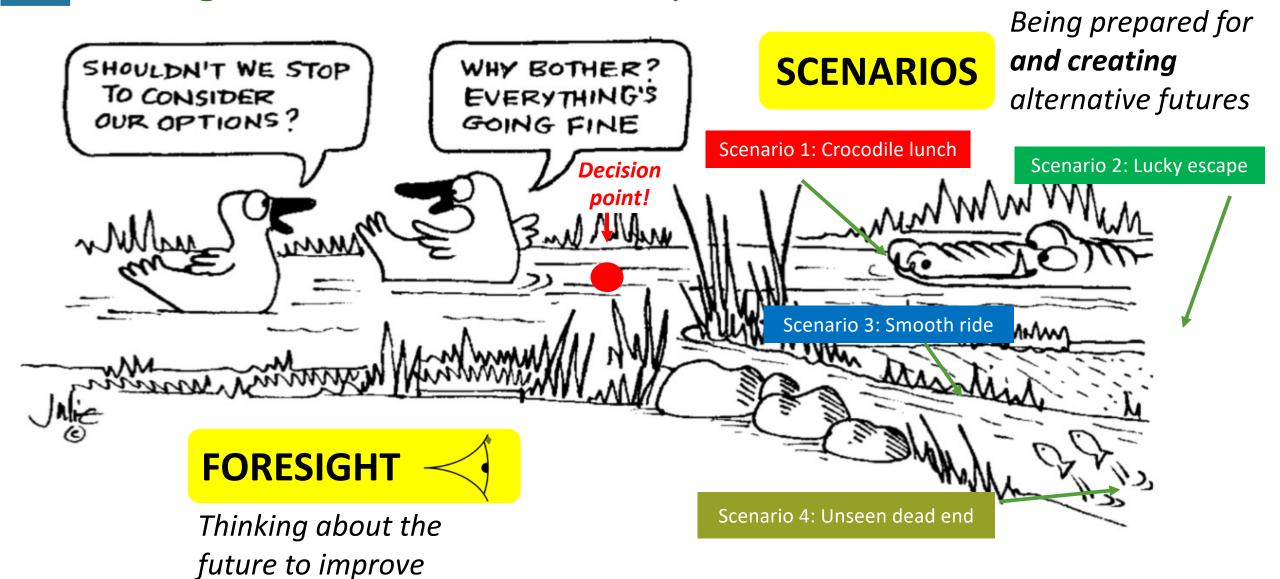
#### Why is A Food Systems Approach Important?





#### Foresight and Scenarios in Simple Terms

decision making today





#### Risks and Opportunities

Systemic Risks



## Transformational Opportunities

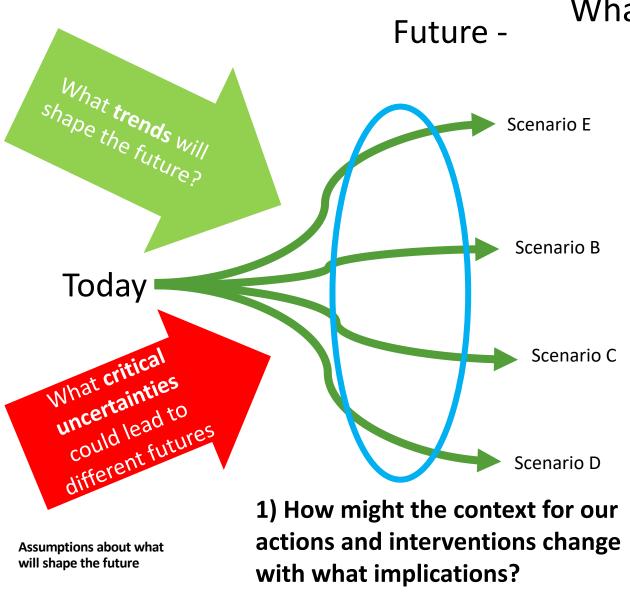








#### Foresight: Key Questions



What might the system be like in 10 - 20 years?

2) Which future scenarios would be more or less desirable, and how could systems change be "nudged" in desirable directions?

3) To what extent would planned actions / policies / investments remain relevant in different future scenarios?



## Why Foresight and Scenarios

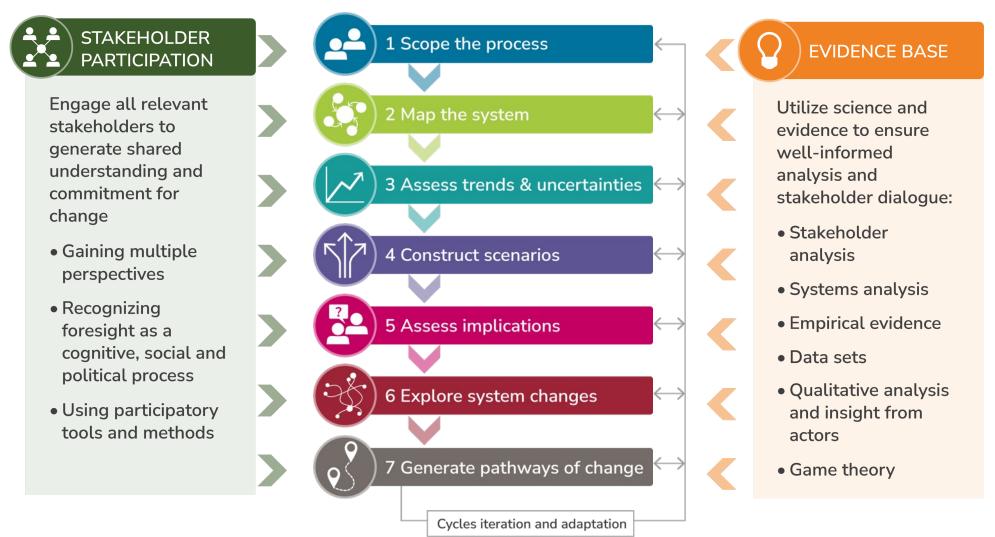
## 1) Make explicit the likely **future consequences** of today's actions or lack of action

- 2) Be aware of future pressures, shocks and risks to a system for enhanced **resilience**
- 3) Understand desirable or undesirable future states of a system
- 4) Create **Societal understanding** of desirable directions for systemic change
- 5) Enable anticipatory and adaptive policy and investment processes

The future is created by how it is imagined today!

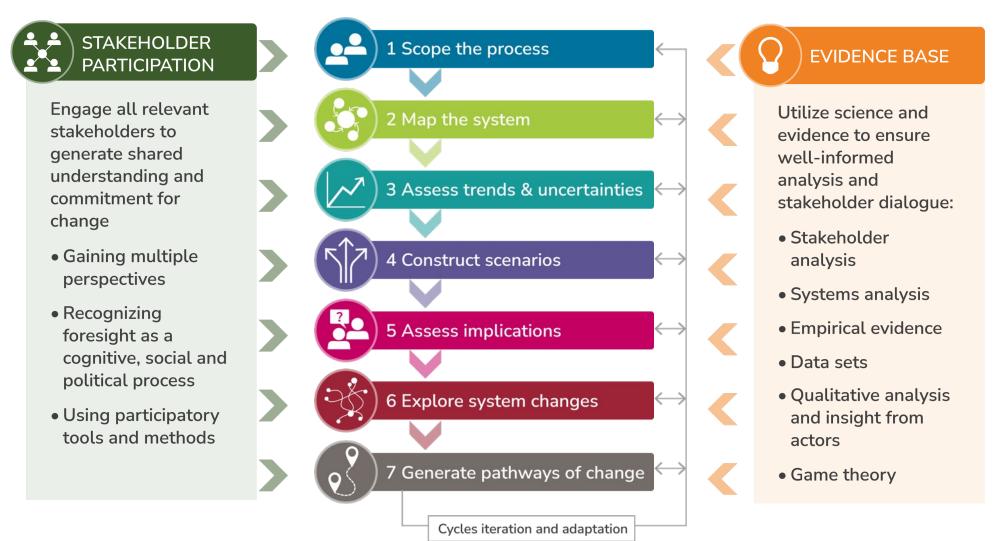


## Foresight4Food Guiding Framework





## Foresight4Food Guiding Framework





## Tools in the Process

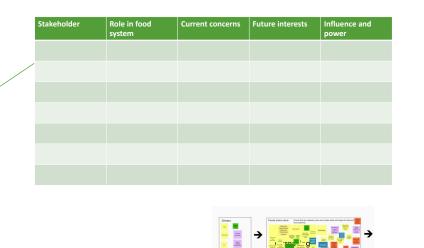




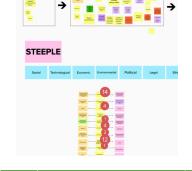












Stakenoluer	трисацоня от закеношетя				and opportunities
	Scenario 1	Scenario 2	Scenario 3	Scenario 4	
A					
В					
с					
D					
E					
F					
Society at large					



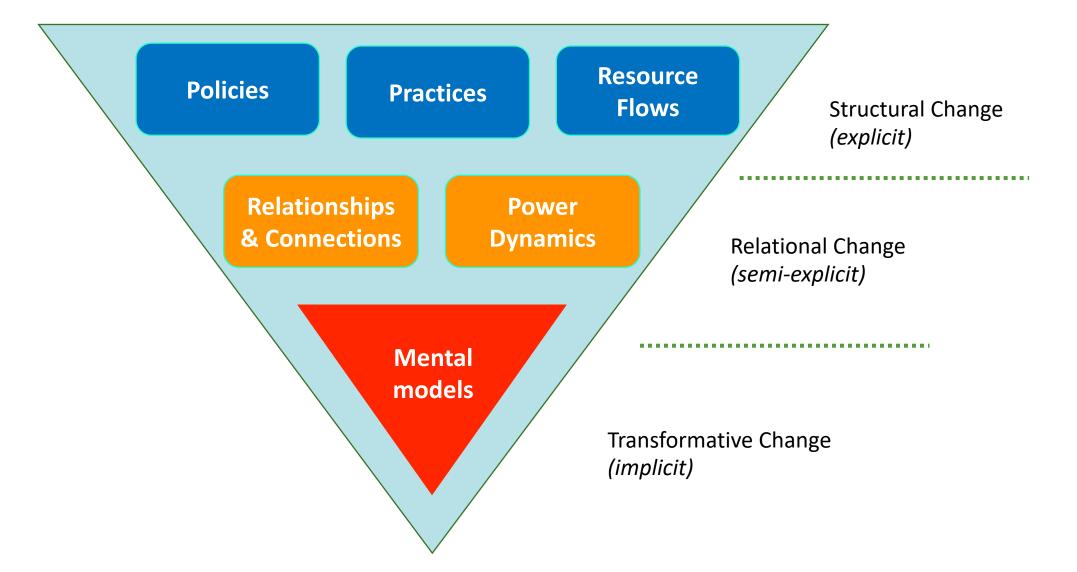
Interested streets

Hopefully the map

doesn't get much more



## Conditions for Systems Change





### Experiences Dhaka Food Systems project

FoSTr Cross country learning session, 18<sup>th</sup> April 2023

Marion Herens & Riti Herman Mostert, WCDI, on behalf of the FAO-WUR DFS team









#### Content

- Aim and rationale of the project
- Why foresight & scenario
- The process

The results to date

Some insights & dilemmas





#### Current issues in Dhaka's Food Systems

- Dhaka is a one of the world's largest and fastest growing megacities. Population >22 million, with half a million climate migrants annually
- Food for everyone is an immense challenge (infrastructure, food prices, food safety, management, nutrition, access, etc...).
- Food (security)is considered an agricultural issue, the domain of Min of Agriculture, Min of Food, and Min of Fisheries and Livestock.
- Food is NOT on the urban agenda. City Corporations are unfamiliar with food (i.e. not considered in urban plans) and lack knowledge and experience in food system management.
- Many Gov. agencies are responsible for the food system (w/ clear mandates) but coordination and collaboration is challenging.

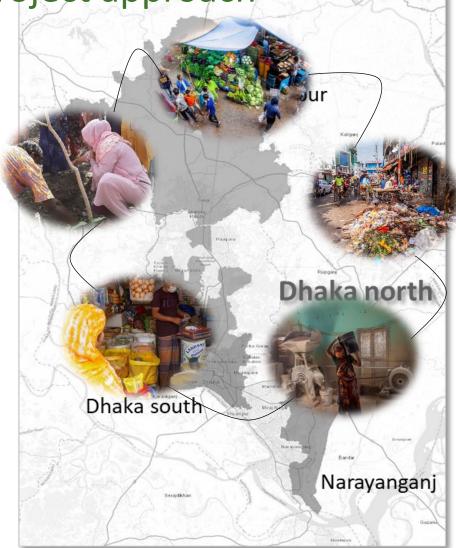




haka food system Project approach

**Short-term impact:** Targeted interventions with direct impact on food systems activities and specific target groups:

- Promoting nutrition & food security
- Upgrading fresh markets
- Reducing Food loss & waste
- Improving food safety & consumer awareness
- Strengthening food value chains



**Long-term impact:** enable institutions for stronger food governance (multi actor, multisector) and support adaptive planning capacity (multilevel)







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## BIG aim: development of the Dhaka Food Agenda 2041

- The Foresight4Food foresight framework is being used in Bangladesh to help developed a Dhaka Food Agenda 2041
- A first phase of the foresight process was conducted in early 2022 involving four virtual workshops and a two-day face to face workshop in Dhaka
- Over the course of 2022 the preliminary work was further elaborated with additional stakeholder engagement, data gathering, and analysis.

 The Dhaka Food Agenda 2041 is a collaborative effort across Bangladesh national, local and city governments. It is supported by FAO and Wageningen University and Research (WUR) with funding

form the Netherlands.





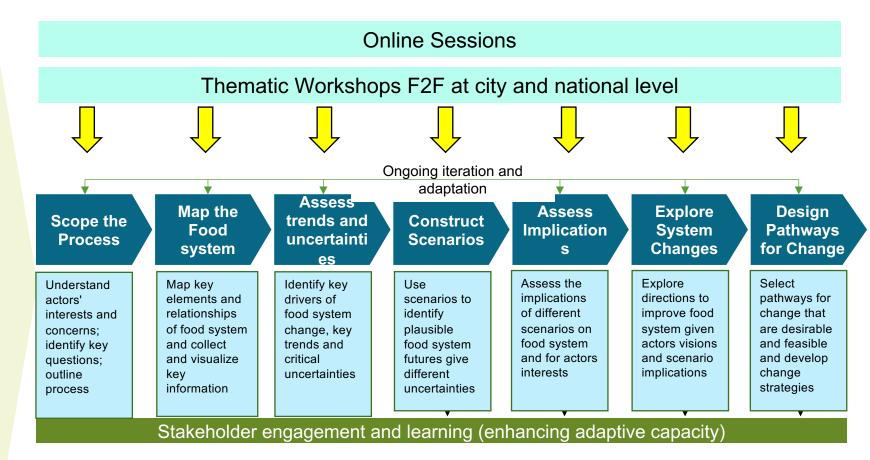




### **Process** overview

The overall foresight framework translates into this step by step (but iterative) process.

Each step used a set of methods and tools which support the analysis



















## Scope the Process

Scope the Process

Understand actor's interests and concerns; identify key questions; outline process The foresight process started by asking participants what "keeps them awake at night" and what surprises them when thinking about Dhaka's food System.



The next step was to identify key stakeholder groups and their current concerns and future interests regarding Dhaka's food system.

Common interests and tensions/ conflicts were then be identified.

Note: All the virtual sessions used the online facilitation tool Mural with templates created for each activity









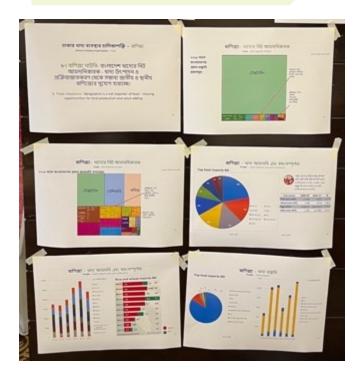
## Map the Food System – Emerging Issues and Questions from the Data

Map the Food system

Map key elements and relationships of food systems and collect and visualize key information



Ten key observations and associated questions to guide the foresight and scenario work emerged from reviewing the available data



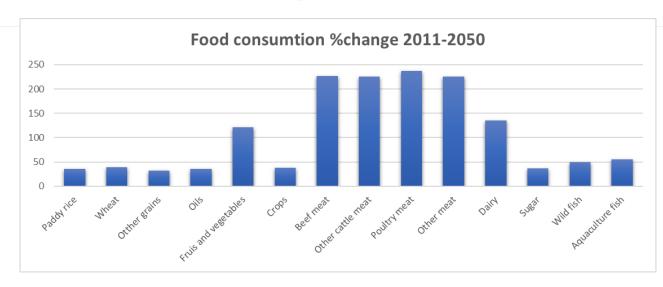
During the face-to-face workshop the food systems data was posted around the room, grouped by the 10 themes, and reviewed by participants working in pairs

- 1. A **growing population** in Bangladesh, in combination with urbanisation leads to an increasing demand for food
- 2. Dhaka has a significant and **growing triple burden of malnutrition** with high rates of poverty, malnutrition and stunting remaining high while overweight and obesity is likely to increase rapidly
- 3. Increasing wealth over the coming decades will dramatically reshape food consumption and demand. At the same time, Dhaka is likely to see significant food inequality in terms of quality, safety and diversity of diets between its richer and poorer resident
- 4. Food supply for Dhaka has a huge environmental footprint, and will get bigger how can this be managed?
- 5. Vast numbers of **very poorly paid people are involved in supplying food** for Dhaka (famers, processors, traders, retailers) there is a dilemma between cheap food vs living incomes for people in the food supply chain.
- 6. Most food is purchased from local **fresh markets**, but these markets must be safe, hygienic and supply a diverse selection of fresh foods. Upgrading is crucial, but what will be their role in the future?
- 7. Where will food come from? Urban and peri-urban production? Bangladesh's rural areas? Imports? What are the environmental, socio-economic and food and nutrition security implications and how should this be managed?
- **8.** Trade imbalance Bangladesh is a net importer of food missing opportunities for local production and value adding
- **9. Climate change** will have a big impact on Bangladesh and Dhaka what are the implications for food supply and distribution for Dhaka?
- 10. Commitments are made at national level to improve food and nutrition security for all, but **budget allocations** do not match those commitments.

## Insights from Modelling and GIS

#### Map the Food system

Map key elements and relationships of food systems and collect and visualize key information

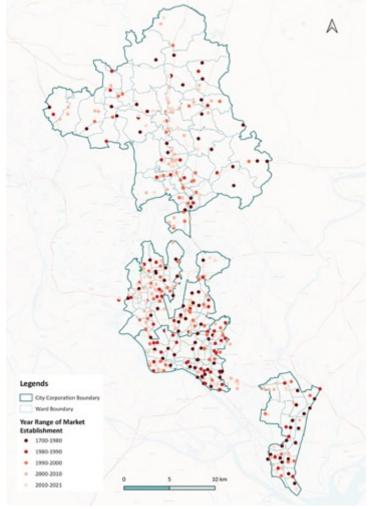




Quantitative modelling and spatial analysis is helping to provide insight about the current situation and future scenarios. Support for this work is being provide by WUR researchers.

The modelling work is further developed to help provide more details for the scenarios

#### Distribution of wet markets in Dhaka





## Critical Uncertainties for Dhaka's Food System Towards

2041

Assess trends and uncertainties

Identify key drivers of food systems change, key trends and critical uncertainties



Analysis of data and stakeholder consultation led to these six critical uncertainties being identified

Resilience

Trade

Equity

Food price

Consumption patters

**Business Structure** 



# Scenarios crafted for further dialogue and validation

Scenario A: "Diversified and viable small-scale entrepreneurship enables health for people and planet"

Consumers have shifted to healthier diets that are resource efficient. Food demands are being many micro, small and medium scale enterprises working in partnership with larger firms, with good food safety and quality standards in place. Appropriate technology plays increasing role in sustainable business operations. Farmers can get a fair price, and incentives are in place to protect the environment. Healthy food is more available and affordable to both poor and wealthy consumers with a diversity of retail options.

**Business structu** 

Healthy and environm sustainable diets

**Consumption patterns** 

Many micro-, small- and mediumscale enterprises

High consumption of unhealthy and/or resource intensive diets. Food sector remains dominated by many micro, small and medium enterprises operating with poor standards and low returns. Growing food inequalities between those who can afford better quality healthier food and those who can't. Limited power of small retailers over types of food to sell and pricing. Growing difficulties in domestic production and increased reliance on the international market



Scenario C: "Fragmented, uncoordinated and unsustainable agri-food sector hangs on"

in Dhaka's food system were engaged. Scenario D: "Profit driven larger-scale companies

Dhaka Food Agenda 2041 - A shared vision for Dhaka's food system

drive unsustainable and unhealthy consumption"

exploited low number of larger-scale companies monopolising the market. Purchasing from supermarkets becomes more prevalent, many of which provide cheap poor quality and low nutritional value food products. Food inequalities increase.

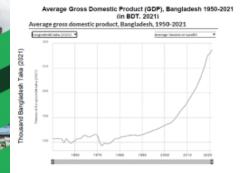
stakeholders from different sectors



Unhealthy and resource intensive diets

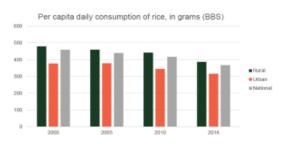
## ... Consolidation in the Dhaka Food Agenda 2041

#### Why a Food Agenda for Dhaka: Current Trends



 Gross Domestic Product | P0-100 | average income or wealth | Adults | Individual Source: https://wid.world/country/bangladesh/

Income has been steadily growing..



https://ebrary.ifpri.org/utils/getfile/collection/p15738coll2/id/133124/filename/133336.pdf

... this is projected to continue to increase by 3.5 times to 2050 in Dhaka, associated with rising inequalities and **changes** in diets and food preferences.

#### Why a Food Agenda for Dhaka: Future Projections National population (mil people) GDP per capita (mil USD) Dhaka Division has the highest annual population growth rate in the country at 1.74% (1.22% national). Bangladesh's population is expected to grow to almost The region is expected to 200 million in 2050. By reach a population of about 2041, 52.8% is expected to 67 millions in 2040. live in urban areas. Average income per household (BDT) Population Dhaka Division (mil people)

#### Critical uncertainties

A series of critical uncertainties likely to shape the transformation of the Dhaka food system were identified through the participatory process as listed in figure 14. Now, moving forward, the Government of Bangladesh is integrating some of the uncertainties in formulating the long-term plans and policies. As such, the uncertainties remain but are beginning to be articulated into the key future visions and policies.

#### Climate resilience

Is food going to be reliably produced, accessible and affordable despite climate change?

#### Trade

Will Bangladesh rely positively on an open or will need to respond to geopolitical setback of globalization?

#### Business structure

Critical Uncertainties

Which businesses will be selling food? A diversified set of retailers or will this be concentrated in a few hands?

#### Equity

Is the expected growth in incomes translated in shared prosperity or inequalities?

## Consumption patters

Is consumption going to be healthy and sustainable, may be or may be not?

#### Food prices

Can we expect price stability and affordability?





## ... And translated into an actionable



To realize this vision and steer or "nudge" Dhaka's food system towards a desirable future scenario the following five key directions for action were identified during stakeholder workshops:

- 1. Consumption of healthy and nutritious food
- 2. Meeting Dhaka's future food demands
- 3. Optimizing people livelihoods in the food system
- 4. Protecting Dhaka's population from shocks to the food system
- 5. Feeding Dhaka in a nature positive way



The key directions of change identified for a healthier, sustainable and more resilient urban food system were further elaborated in stakeholder consultations into interlinked immediate, short term, and long-term areas of actions. Each action would contribute to change in the key directions. Immediate actions (within next twelve months) defined seek to contribute to quick wins. Long term actions (for 2027-2041) aim for the future are sustained by immediate and short-term actions (for 2024-2026). They refer to actions that are not easily implementable or simply require larger periods to mature. In addition, putting the Dhaka food agenda into action and enabling a responsive approach to an uncertain future will require new forms of governance and stakeholder collaboration and learning across government, businesses, consumers, civil society and research.

#### 1. Consumption of healthy and nutritious food

Around the world, diets are changing and especially in urban areas, consumers tend to change their consumption patterns. Considering projected increase in welfare, it is safe to say that also in Dhaka, diets will continue to change in the future. However, what those diets will look like exactly, or how this might be different across income groups are some important uncertainties. What Dhaka's population will consume has many implications. If diets start mimicking other middle- and high-income countries, issues such as overweight, obesity and related non-communicable diseases such as acrdiovascular disease and type-II diabetes should be anticipated. Navigating away from this scenario requires that healthy and nutritious food become accessible and affordable to all, through reliable and adequate food outlets in their neighbourhood, and that consumers are able to make informed choices: knowing what foods are healthy, safe and fitting their dietary needs. Their food environment should support consumers to make those healthy choices.

Therefore, the following three key areas of action are proposed:

- Ensure (consumer) awareness and access to information about healthy diets and nutrition facts
- 2. Enhance consumers' access to affordable, diversified, healthy diets
- 3. Ensure physical access to foods for all

Regardless of what business structures will dominate Dhaka's food system in the future, these three actions ensure that appropriate foods reach all consumers in a transparent and affordable way. At the same time, demand is shaped by ensuring that consumers can make informed choices and act accordingly.

[2] NPAN2, NFNSP 2020

[3] NFNSP 2020, NPAN2, Food Safety Act 2013, Packaged Food Labelling Act 2017

[4] NFNSP 2020

[5] 2nd National Plan of Action for Nutrition - NPAN2 (2016-2025)

[6] Bangladesh Standards and Testing Institution Act 2018

[7] Food Safety Act 2013, Dept. of Livestock Services Quality Control Laboratory Policy 2021

[B] NPAN2

[9] The Consumers' Right Protection Act 2009

[10] NFNSP 2020, NPAN2, Food Safety Act 2013, Packaged Food Labelling Act 2017

#### 1.1 Ensure (consumer) awareness and access to information about healthy diets and nutrition facts

#### Immediate actions (steps in next 12 months)

- Conduct targeted good food campaigns, training on healthy diets, proper cooking/ consumption practices,[2] food labelling and food safety, engaging producers, consumers, private sector, media and monitoring institutions for responsible food offer and choice[3]
- . Promote healthy foods more attractively, engaging the private sector[4]

#### Short-term actions (2024-2026)

- . Incorporate nutrition education in academic curriculum[5]
- Test food items regularly[6] to check for nutrition facts and publish results publicly[7]
- Widely disseminate age-and-key-groups-specific dietary guidelines based on local foods (e.g., for pregnant and lactating women - PLW, children, adolescents)[8]

#### Long-term actions (2027-2041)

-Ensure consumer rights through policies and their implementation(9)
 -Ensure proper labelling of food items (in easy terms/ Bangla) with food facts, nutrition values(10)

#### Leading actor: Ministry of Food (MoF)

#### Roles for specific actors, champions, networks:

- MoF/ BFSA: Raise awareness (esp. for children and youth to change their mindset) and enforce laws
- . DAE/ DoF/ DLS (MoA, MoFL): Raise awareness and formulate policies
- MoEducation: Integrate nutrition and safe food in curriculum
- BSTI: Ensure proper labelling
- · Research organization/ CGIAR: Conduct evidence based research

#### 1.2 Enhance consumers' access to affordable, diversified, healthy diets

#### Immediate actions (steps in next 12 months)

- Keep nutritious foods affordable by setting price ceilings for basic food items/ major food groups[11]
- Increase transparency and competitiveness by displaying daily product prices in fresh markets, and monitoring markets for prices, unethical stocking, and syndicates and enforce laws[12]

[11] NFNEP 2020, National Food Policy 2006, Allocation of Business among the Different Ministries and Divisions (Schedule I of the Rules of Business, 1996 Revised up to April 2017); Ministry of Commerce [12] Agricultural Marketing Act 2018, Local Government (Dity Corporation) Act 2009, Bangladesh Govt. Hats and Bazars (Management) Order 1972, Allocation of Business among the Different Ministries and Divisions (Schedule I of the Rules of Business, 1996 Revised up to April 2017); Ministry of Commerce and Comm

Some insights & dilemmas

#### Insights:

Stacked engagement processes fostered foresight dialogues in bringing in broad range of stakeholders

Trust and action focus critical factors (advantage of applying utilitarian lens on foresight & scenario development)

#### System High Project steering Committee workings workings workings CGUFSS meeting workings groups CGUFSS DFA Workshop Validation & Dhaka Stakeholder Foresights workshop Technical Food consultations Digital DFA workshop Foresights

to Launch

#### Dilemmas:

- Turning foresights into action: Who holds the foresight process (and can be held accountable)?
- How to 'build an enabling environment' for foresights processes?
- How to maintain long-term focus on the future of urban food systems (usually driven by projects). Short term urgencies keep reappearing and tend to dominate agendas at the different levels.
- How to establish a functional flow and good interactions between the qualitative and quantitative components (timelines, reflection moments etc.)?

# Thank you for your attention

## **Marion Herens**

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DFS project: <a href="https://www.wur.nl/en/research-results/research-institutes/centre-for-development-innovation/show-cdi/improving-dhakas-food-system.htm">https://www.wur.nl/en/research-results/research-institutes/centre-for-development-innovation/show-cdi/improving-dhakas-food-system.htm</a>

#### Foresight videos:

https://www.youtube.com/watch?v=uO2Jv5nYG3I&t=6s https://www.youtube.com/watch?v=m8JCsgsnpzY



# Group discussion (max 35 mins)

# How can we enhance foresight capacities through cross-country learning?

In break-out groups, discuss the following questions:

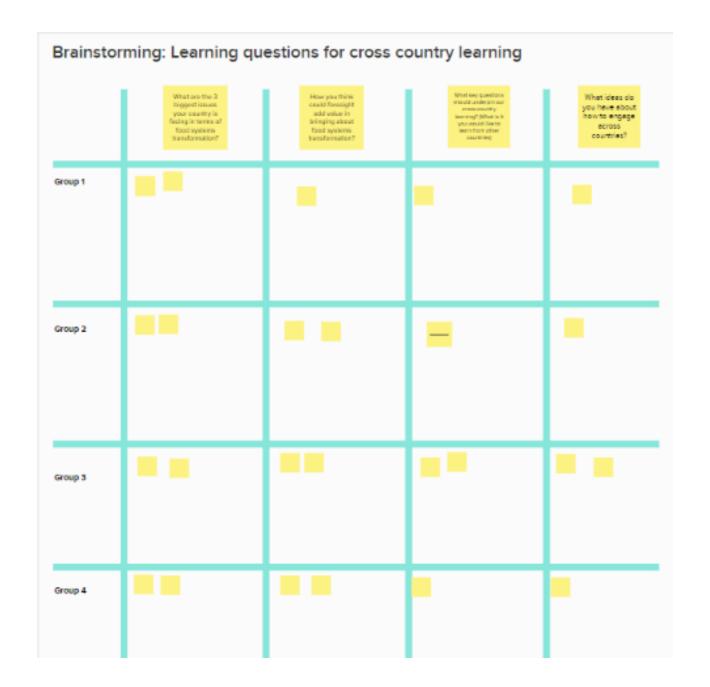
- What are the 3 biggest issues your country is facing in terms of food systems transformation?
- 2. How you think could foresight add value in bringing about food systems transformation?
- 3. What key questions should underpin our cross-country learning?
- 4. What ideas do you have about how to engage across countries?

#### On <u>Mural</u>:

- Use sticky-notes to capture your thoughts
- Put this under the relevant headings, supported by F4F team members
- Don't discuss too long on single issues but rather brainstorm together!



# Mural







## Thank you!



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