



Drop-in call: Nutrition, Health and Food Security Impact Area

SHiFT and FRESH

Update for the CGIAR System Council

July 20, 2023



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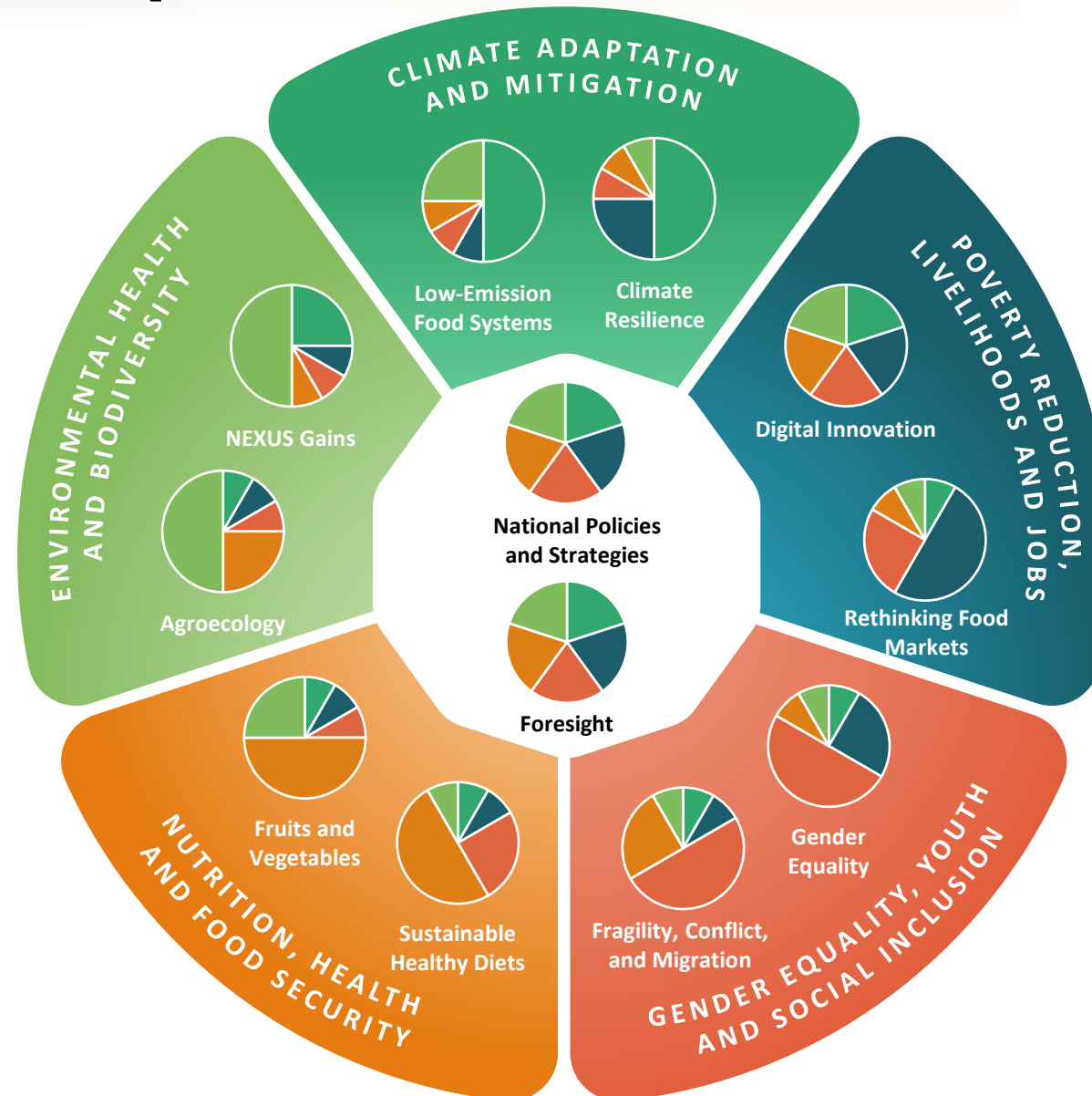
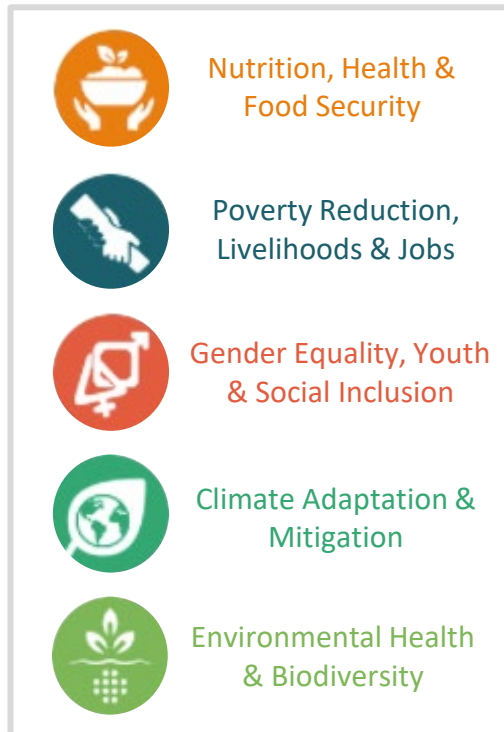
July 20/21, 2023

Schedule of 2023 Systems Transformation drop-in calls



Theme	Date	Time
Cross-cutting session (Foresight and National Policies and Strategies)	13-Apr	8am PST / 11am ET / 5pm Europe / 6pm East Africa
<i>Catch-up call for other time zones</i>	21-Apr	
Climate impact area (Climate Resilience and Low Emission Food Systems)	25-Apr	8am Manila / 10am Canberra / 7pm (Monday) Cali / 8pm (Monday) DC
<i>Catch-up call for other time zones</i>	3-May	
Environment impact area (NEXUS Gains and Agroecology)	24-May	8:30am UK / 9:30am Europe / 1pm Colombo / 5:30pm Canberra
<i>Catch-up call for other time zones</i>	1-Jun	
Poverty impact area (Digital Innovation and Rethinking Food Markets)	21-Jun	8am PST / 9am Mexico / 11am ET / 5pm Europe / 6pm Nairobi / 8:30pm New Delhi
<i>Catch-up call for other time zones</i>	29-Jun	9.30am CEST / 5:30pm AEST
Gender impact area (Gender Equality and Fragility, Conflict, and Migration)	19-Jul	8am PST / 9am Mexico / 11am ET / 5pm Europe / 6pm Nairobi / 8:30pm New Delhi
<i>Catch-up call for other time zones</i>	19/20-Jul	19-Jul 7pm Mexico / 9pm ET / 20-Jul 6:30am New Delhi / 11am Canberra
Nutrition impact area (Sustainable Healthy Diets and Fruits and Vegetables)	20-Jul	8am PST / 9am Mexico / 11am ET / 5pm Europe / 6pm Nairobi / 8:30pm New Delhi
<i>Catch-up call for other time zones</i>	20/21 Jul	20-Jul 7pm Mexico / 9pm ET / 21-Jul 6:30am New Delhi / 11am Canberra

Systems Transformation Initiatives relationships to the Impact Areas



Outline



1. Introduction (Purnima Menon; 3 min)
2. Sustainable Healthy Diets (SHiFT) Initiative overview (Inge Brouwer; 10 min)
3. Fruit and Vegetables for Sustainable Healthy Diets (FRESH) Initiative overview (Deanna Olney, Mathieu Ayenan, Quinn Marshall, Elyse Iruhiriye; 10 min)
4. Collaboration on nutrition across CGIAR Initiatives (Inge Brouwer; 5 min)
5. Q&A (30 min)
6. Close (Purnima Menon; 2 min)

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INITIATIVE ON
Sustainable
Healthy Diets

CGIAR Research Initiative on **Sustainable Healthy Diets through Food Systems Transformation (SHiFT)**

Lead **Inge Brouwer (IFPRI)** & Deputy Lead **Mark Lundy (the Alliance)**

Program Committee: Chris Béné (the Alliance), Inge Brouwer (IFPRI), Simon Bush (WUR), Alan de Brauw (IFPRI), Marion Herens (WUR), Jef Leroy (IFPRI), Mark Lundy (the Alliance), and Michiel van Dijk (WUR)

Country Coordinators: Tuyen Huynh (the Alliance, Vietnam); Belay Terefe (the Alliance, Ethiopia); Wajiha Kathun (IFPRI, Bangladesh)

Our Goals

- **Stimulate** demand for – and consumption of – *sustainable healthy diets*

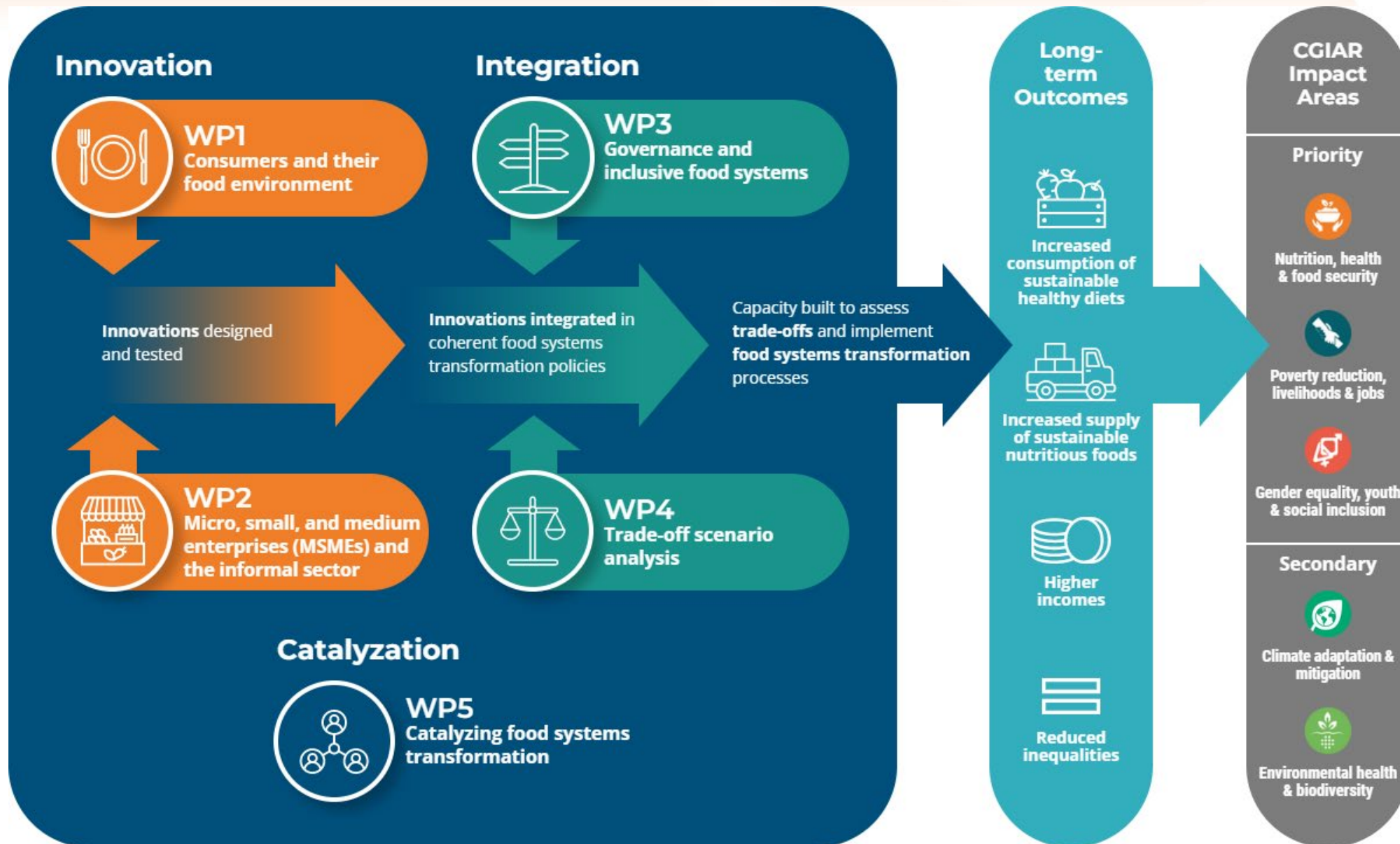
- **Support** micro, small, and medium enterprises (MSMEs) & informal sector actors to deliver more nutritious, safe, affordable & sustainably produced foods

- **Improve** livelihoods, gender equity & social inclusiveness in all food system sectors

To achieve these goals, SHiFT will:

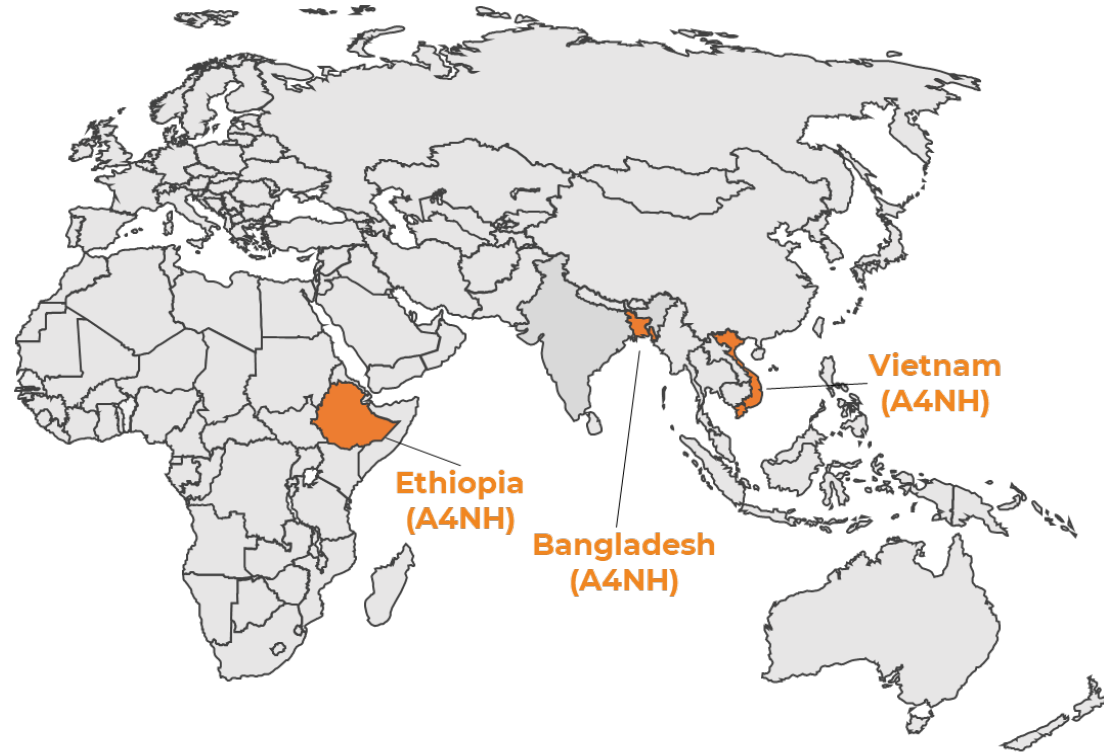
- Generate new evidence on food consumption drivers and barriers to achieving *sustainable healthy diets for all*
- Identify and test scalable solutions to encourage MSMEs to deliver *sustainable nutritious foods* and support *sustainable healthy diets*
- Analyze trade-offs in food systems and deploy political economy tools to support the design and implementation of transformative policy bundles that address them
- Strengthen capacity of national and subnational stakeholders to guide successful food systems transformation

How our work packages are organized to deliver results



SHiFT's Strategic Partners

The set of national stakeholders from government institutions in each target country responsible for implementing the follow-up actions to the 2021 UNFSS process*.



Vietnam

- Ministry of Agriculture and Rural Development (MARD)**
- Vietnam Academy of Agricultural Sciences (VAAS)**
- National Institute of Nutrition (NIN)**
- Institute for Policy and Strategy for Agriculture and Rural Development (IPSARD)

Ethiopia

- Ministry of Agriculture**
- Ministry of Health**
- Ethiopian Public Health Institute (EPHI)

Bangladesh

- Food Planning and Monitoring Unit (FPMU), Ministry of Food***

*Global partners include Wageningen University & Research, French Institutions (IRD, CIRAD, INRAe)

**Institution is also the designated National Food Systems Convener

***Strategic Partners for Bangladesh have not yet been formalized. The FPMU is the designated National Food Systems Convener

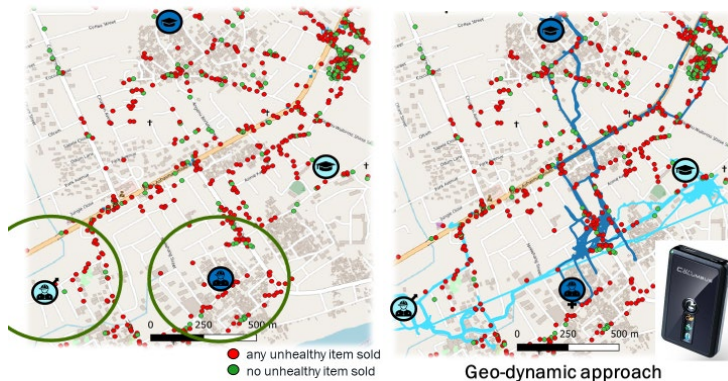
Progress: WP1 on consumers and their food environment

We developed and implemented an ambitious research plan to gather information on the food environment, consumers, and MSMEs in Vietnam and are on track to start in Ethiopia in September.

Extensive consumer, food environment and MSMEs survey in urban, peri-urban and rural areas (with WP2)

Drivers of food choice and lived experiences

Dietary patterns and their determinants



The images illustrate how the survey data is used to measure food environment exposure. From the Ghana Food Environment Study, Barba et al, 2023

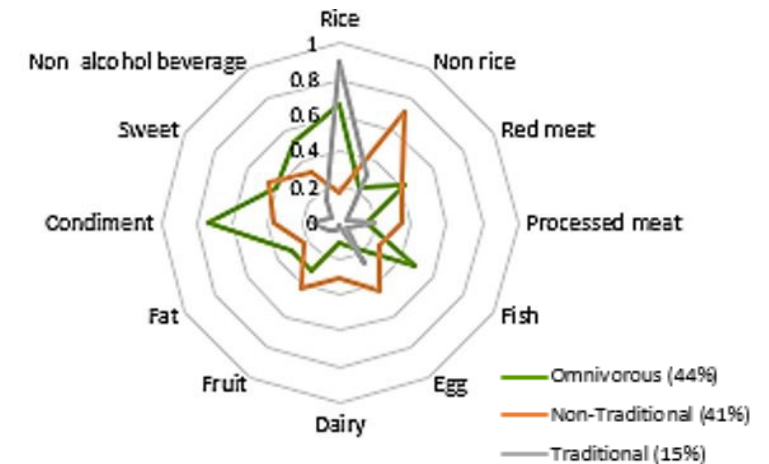
Rural



Peri-urban



Urban



Progress: WP2 on MSMEs and the informal sector

We developed an analytical [framework](#) and a typology of MSMEs;
We are working with them to develop and test *innovations* to deliver sustainable nutritious foods and support consumers in achieving sustainable healthy diets



Twiga Foods works with micro, small, and medium enterprises (MSMEs) to transform the Kenyan food system



Transforming food environments: Empowering fruit and vegetable vendors in Viet Nam and Nigeria for a healthier future



MSMEs and barriers to increasing fruit and vegetable consumption in Ethiopia

For more information see: [Sustainable Healthy Diets - CGIAR](#)

Progress: WP3, 4 and 5

WP3

Governance and inclusive food systems

- Generic **framework** for analysis of the political economy of sustainable food systems transitions
- **Policy baseline analysis** in Vietnam and Bangladesh



Photo: Michiel van Dijk, 2021

WP4

Trade-off scenario analysis

- **Modelling tools** to quantify the short-run (5-10 y) and long-run (to 2050) trade-offs of national and global food system transformation.
- **Scenario development, result validation and policy discussions** through expert consultation and stakeholder engagement

WP5

Catalyzing food systems transformation

- Engaged **Strategic Partners** and Country Coordination Units
- **E-learning course** (200+) food systems governance
- **Stakeholder mapping and capacity needs assessment**



Photo: The Alliance, 2023

Progress towards the End of Initiative outcomes



Innovations designed and tested – Eol outcomes 1 & 2

- **Generating evidence** to inform consumer-oriented innovations and innovations with MSMEs and the informal sector to support sustainable healthy diets
- **Identifying and co-designing potential innovations to be tested** with Strategic Partners
 - Discuss **priority areas for potential consumer/food environment innovations**
 - Explore **existing innovations**
 - **Review plans following the UNFSS and 2023 Stocktaking moment**
 - **Work with partners** (e.g. French Institutions, USAID Food Systems for Nutrition Innovation Lab (led by Tufts University) on school meal interventions in Hanoi and food environment/demand creation interventions in Bangladesh)

Progress towards the End of Initiative outcomes



Capacity in food system governance built – Eol outcome 3

- **Creating opportunities to train** food system actors on food systems and SHD concepts and governance with Strategic Partners.
- **Responding to strong demand** for (sub)national training on food systems governance and policy implementation for sustainable healthy diets
 - Co-design **Training-of-Trainers course** in local language on food system governance for SHD
 - Training of **15 ministries** in the Food and Nutrition Security Council in Ethiopia
 - Training for **sub-national** MARD, MOH staff along with universities and media (Vietnam)



Progress towards the End of Initiative outcomes



Innovations integrated into coherent policies – Eol outcome 4

- **Responding to technical needs** of Strategic Partners
 - Monitoring & Evaluation for food systems transformation
 - Participation in Technical Working Groups on (consumers and food environment) game-changing solutions in Ethiopia and Food System Transformation Partnership team in Vietnam.
- **Facilitating exchange visit** of the Bangladesh National Nutrition Council to Strategic partners in Vietnam
- **Supporting 4th Global Conference**, on food system transformation in Vietnam.
- **Facilitating participation** of Strategic Partners in UNFSS Stocktaking 2023.



Learn more about SHiFT

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<http://on.cgiar.org/SHIFT>



Fruit and Vegetables
for Sustainable
Healthy Diets

Fruits and Vegetables for Sustainable Healthy Diets (FRESH)

Presented by: Deanna Olney, Mathieu Ayenan,
Quinn Marshall and Elyse Iruhiriye
on behalf of the FRESH Team

July 20, 2023



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FRESH Partners and Funders



Fruit and Vegetables
for Sustainable
Healthy Diets

Global	Benin	Tanzania	Sri Lanka	Philippines
<ul style="list-style-type: none">• CGIAR Centers (IFPRI, ABC, CIMMYT, CIP, IWMI (country coordinator, Sri Lanka))• World Vegetable Center (country coordinators Benin and Tanzania)• Applied Horticultural Research• Wageningen University and Research• University of California, Davis• Institute of Development Studies• University of Sydney	<ul style="list-style-type: none">• <i>Institut national des Recherches agricoles du Bénin (INRAB)</i>• <i>Centre de coopération internationale en recherche agronomique pour le développement (CIRAD)</i>• University of Abomey Calavi• University Parakou• African Vegetable Breeding Consortium	<ul style="list-style-type: none">• Sokoine University of Agriculture• Tanzania Agricultural Research Institute (TARI)• National Irrigation Commission• Tanzania Horticultural Association (TAHA)• Tanzania Plant Health and Pesticides Authority	<ul style="list-style-type: none">• Wayamba University of Sri Lanka• University of Peradeniya• World Food Programme• Horticultural Crop Research and Development Institute (HORDI)• Hector Kobbekaduwa Agrarian Research and Training Institute (HARTI)• Foundation of Health Promotion• Medical Research Institute (MRI)• Colombo Urban Lab• Landmark Seed• Onesh Seed• Asia & Pacific Seed Alliance Consortium	<ul style="list-style-type: none">• Department of Science and Technology-Food and Nutrition Research Institute (DOST-FNRI) (Country Coordinator, Philippines)• University of Mindanao• University of the Philippines Los Baños• Bureau of Plant Industry (BPI)• International Institute of Rural Reconstruction• Asia & Pacific Seed Alliance Consortium• IPB – University of the Philippines Los Baños

We would like to thank all funders who supported this research through their contributions to the CGIAR Trust Fund: <https://www.cgiar.org/funders/>

FRESH End-to-End Approach

DEMAND

SUPPLY

FOOD
ENVIRONMENT



Nutrition,
health & food
security

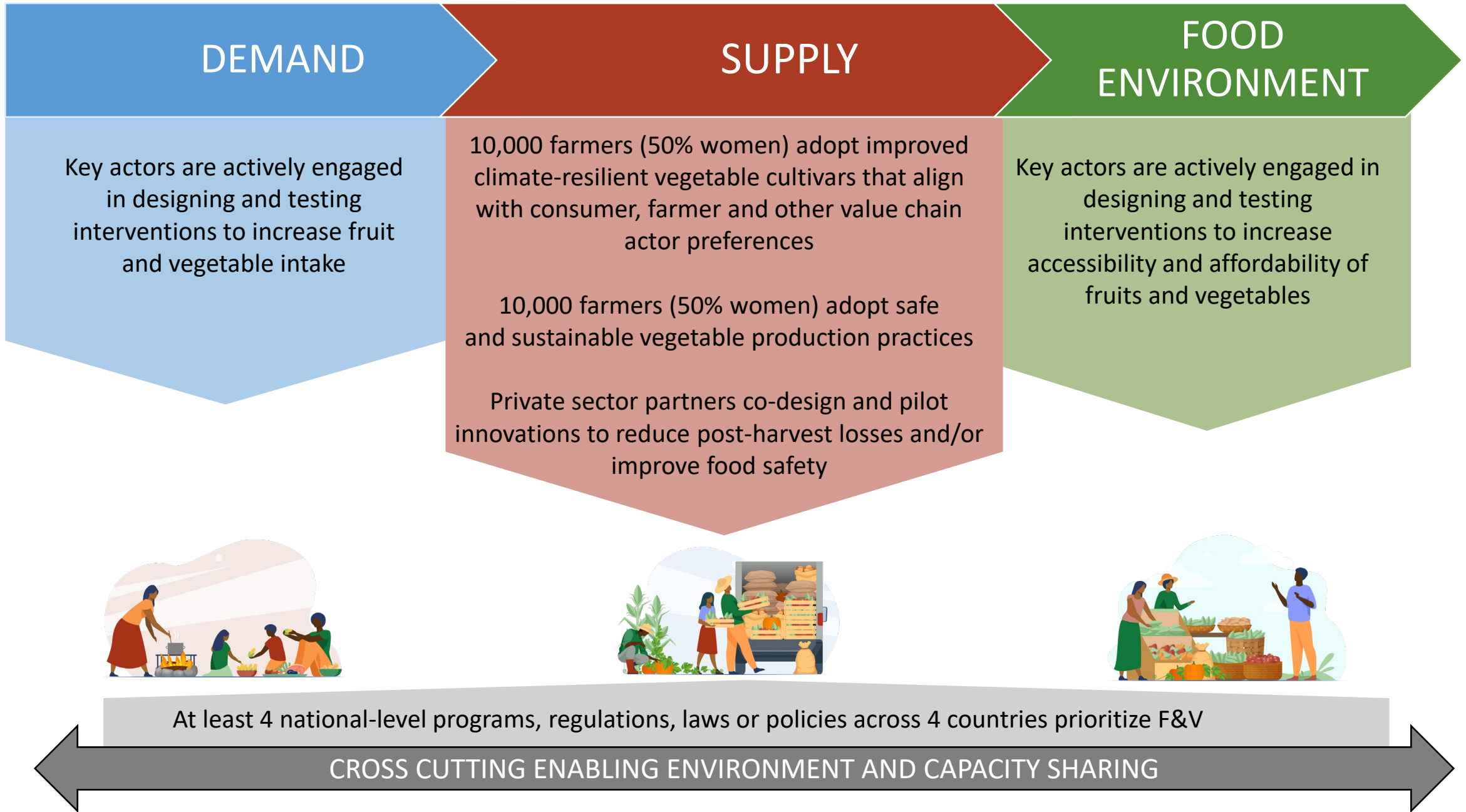
Poverty
reduction,
livelihoods &
jobs

Climate
adaptation &
mitigation

Enviro
health &
biodiversity

Gender
equality, youth
& social
inclusion

FRESH End of Initiative Outcomes (3 years)



Highlights Demand



Fruit and Vegetables
for Sustainable
Healthy Diets

- **Stakeholder engagement** in all focal countries
 - Core partners engaged in Tanzania, Sri Lanka and the Philippines (**EoI for demand**)
 - Supporting identification of priority target groups, interventions and partners
- **Literature review drafts** for focal countries (including Fiji) completed
- Initial **secondary diet data analysis** completed in two countries
- **Program impact data on dietary intake** presented in Sri Lanka
 - 2 y follow-up conducted results will be presented at **the Micronutrient Forum in the Hague, October 2023**
- Planning for **repeated surveys, process and impact evaluation of the end-to-end approach**
 - Tanzania (September 2023)
 - Sri Lanka (November 2023)
- **Capacity Sharing**
 - PhD Students (Wayamba University of Sri Lanka, University of Edinburgh)
 - Dietary data analysis - training
 - Qualitative research methods and study design - training and mentorship

Highlights

Supply (Genetic improvement and biodiversity)



Fruit and Vegetables
for Sustainable
Healthy Diets

Nutritious, disease resistant and abiotic stress tolerant vegetable varieties for smallholder farming systems

Ongoing screening and adaptation trials

Global Vegetables: Promising pepper and tomato lines in Tanzania and Sri Lanka

Traditional Vegetables: Okra begomovirus resistance screening underway in Asia and Benin
Jute mallow in Benin

Ongoing variety releases

Global Vegetables: Tomato and pepper in Benin
Chili pepper in Sri Lanka

Traditional Vegetables: Three African eggplant lines under variety release in Tanzania
Amaranth variety release underway in Benin

Bring new varieties to farmers

- Seed company staff training in seed production technologies accomplished in Benin
- Needs assessment for junior breeder capacity sharing in Sri Lanka underway



Highlights

Supply (Safe and sustainable production)



Fruit and Vegetables
for Sustainable
Healthy Diets

- Constraints and opportunities analyses conducted to ensure safe and sustainable production of vegetables year-round in focal countries
- Pilot analyses on microbial contaminants on vegetables and water from hubs and markets in Tanzania conducted in collaboration with postharvest team
- Demonstration protocols and hubs developed and piloted in Benin and Tanzania and identified in Sri Lanka
 - Diversification
 - Intensification
- Production hub management underway (**on path to EoI**):
 - Identification and testing of key interventions
 - Rolling out of farmer participatory trials
 - Development of training materials
- Surveying availability of quality inputs and services for vegetable production systems
 - Partnerships with input suppliers including bio-pesticides and bio-fertilizers
 - Establishing networks to support availability of quality inputs and services



Highlights Supply (Postharvest and food safety)



Fruit and Vegetables
for Sustainable
Healthy Diets



Literature reviews on value chain function, postharvest losses and food safety issues completed in four countries

Observations, surveys, testing and case studies have identified many **problems and unsuccessful interventions**

- Cool rooms exist, but they may not be operational or maintained or are being used for other functions
- Need to better integrate into the fruit and vegetable supply chain and improve use and upkeep.



But they have also identified **potential solutions** some of which we will pilot to achieve our **Eol of piloting 12 innovations**

1. Kapeyapaan Vegetable Cluster – supplying Jolibee AND Agritourism
2. Mango processors to trial hot water treatment to increase shelf life
3. Improved handling and processing of tomatoes to reduce loss
4. BPI residue testing program – reviewing pesticide residue data to identify field level interventions

Highlights

Food Environment



Fruit and Vegetables
for Sustainable
Healthy Diets

- **Stakeholder engagement** around food environment-related barriers to fruit and vegetable intake and possible interventions in all focal countries, core partners engaged in Sri Lanka and Tanzania (**Eol for food environments**)
- **Desk reviews** to be completed this year to synthesize food environment-related evidence, including interventions
- **Monitoring of food environments in rural Sri Lanka** during the economic crisis, including cost of diet
 - Opened door for further collaboration with government on monitoring cost of diet nationally (**on path to achieve Eol**)
 - Training provided to government stakeholders on cost of diet analysis in part to foster collaboration with Ministry of Health, expansion of food list to 29 additional items for weekly food price monitoring
- **An integrated protocol for qualitative data gathering** developed (photovoice and semi-structured interviews), in addition to geospatial mapping; training underway in Sri Lanka.
- **Planning for repeated quantitative food environment assessments** in Tanzania and Sri Lanka, alongside planned household surveys



Highlights

Enabling environment



Fruit and Vegetables
for Sustainable
Healthy Diets

Stakeholder engagement:

- Engage with strategic stakeholders across the value-chain to **(on path to EoI for enabling environment)**:
 - Inform FRESH's direction, share and discuss generated evidence
 - Co-design approaches and co-create outputs to promote the use of FRESH's research in policy and program decisions
 - Foster shared responsibility and ownership of the successes, effective delivery, and scaling of successful approaches

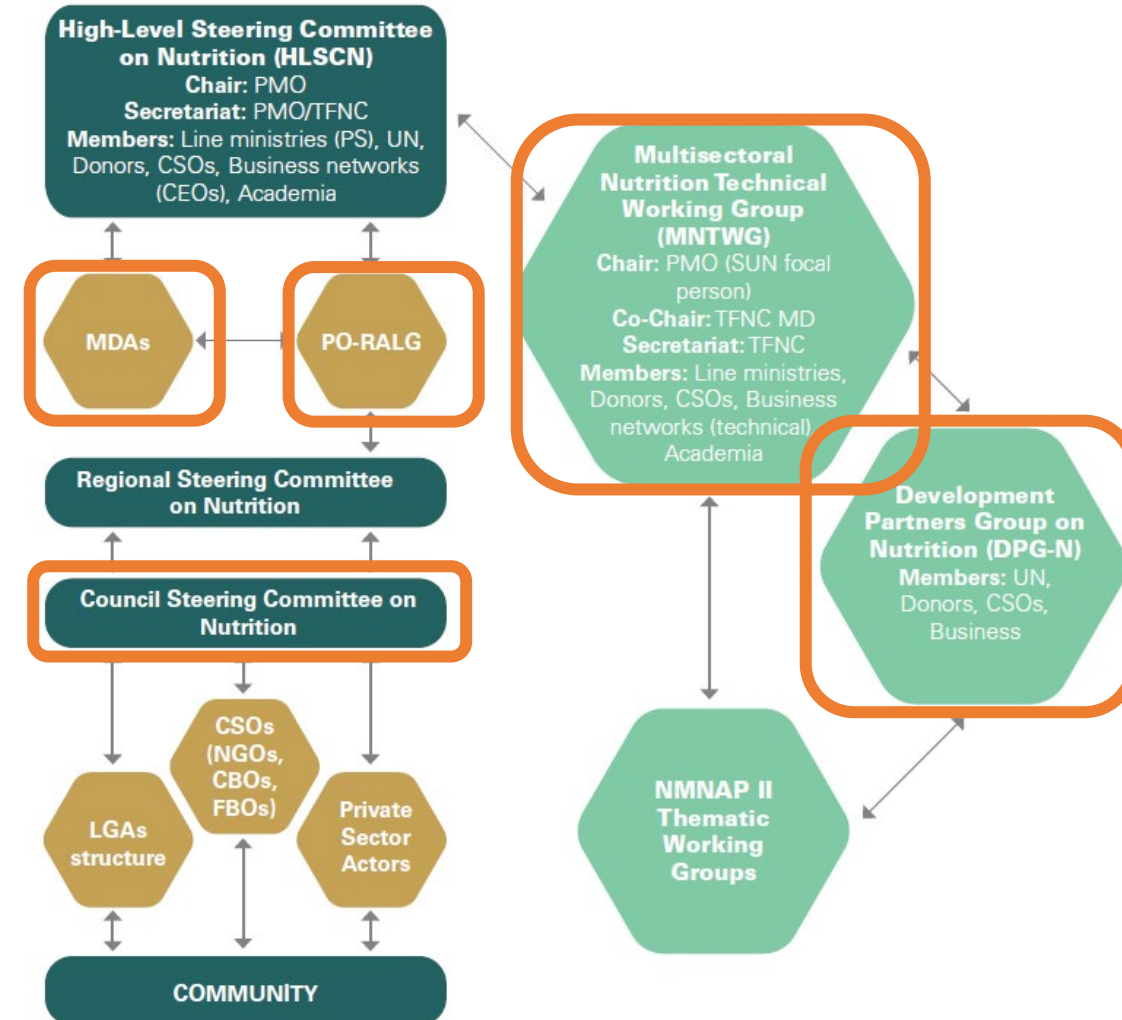
Capacity sharing:

- Identify capacity assets and needs for multi-directional learning
- Throughout the research process, work with partners and country stakeholders across the value-chain who adopt, implement, and scale interventions

Policy analysis:

- Completed briefs and initiating stakeholder workshops **(on path to EoI)**

Example: Tanzania Multisectoral Nutrition Coordination Structure





Fruit and Vegetables
for Sustainable
Healthy Diets

Thank you!

For more information go to:

<https://www.cgiar.org/initiative/fruit-and-vegetables-for-sustainable-healthy-diets-fresh/>

<https://www.ifpri.org/blog/improving-fruit-and-vegetable-consumption-will-require-holistic-approach>

Collaboration across CGIAR Initiatives: SHiFT, FRESH, TAFFSA, Resilient cities, Nutrition Platform



...that focus on consumers, the food environment, nutritious foods, *sustainable healthy diets*, and nutrition and health outcomes

Supported participation
in the 2023 **ANH
Academy Week**

Contributing to a workshop
on methods for
studying the **drivers of
food choice** in Bangladesh

SHiFT using
**Food Environment Sco
ping
Review** methodology
developed by
FRESH for Vietnam,
Ethiopia
and Bangladesh

Established
an internal interest
group for
**information sharing
and seminars on
measuring food
environments and
diets**

Supporting
participation in
the **Micronutrient Forum**
to be held in October
2023

Developing
tools and metrics
to standardize the
**measurement
of food environments and
diets** and generating multi-
country evidence that
will inform the design
of innovations

Resilient Cities
using **Food Environme
nt Scoping Review** me
thodology developed b
y FRESH to complement
diet and nutrition review
work done for urban
and peri-urban settings
across eight countries

Coordinating
an internal seminar
series to share
approaches for CGIAR
Initiatives conducting
research on
the **political economy**
of
food systems transform
ation