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

SHiFT and FRESH

Update for the CGIAR System Council
July 20, 2023
Drop-in call: Nutrition, Health and Food Security Impact Area

SHiFT and FRESH

Update for the CGIAR System Council
July 20/21, 2023
# Schedule of 2023 Systems Transformation drop-in calls

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

- Nutrition, Health & Food Security
- Poverty Reduction, Livelihoods & Jobs
- Gender Equality, Youth & Social Inclusion
- Climate Adaptation & Mitigation
- Environmental Health & Biodiversity

- Agroecology
- Foresight
- Sustainable Healthy Diets
- NEXUS Gains
- Low-Emission Food Systems
- Climate Resilience
- Digital Innovation
- Rethinking Food Markets
- Gender Equality
- Fragility, Conflict, and Migration
- Gender Equality, Youth and Social Inclusion
- Environmental Health & Biodiversity

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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)
Outline

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

**Innovation**
- WP1: Consumers and their food environment
- WP2: Micro, small, and medium enterprises (MSMEs) and the informal sector

**Integration**
- WP3: Governance and inclusive food systems
- WP4: Trade-off scenario analysis

**Catalyzation**
- WP5: Catalyzing food systems transformation

**Long-term Outcomes**
- Increased consumption of sustainable healthy diets
- Increased supply of sustainable nutritious foods
- Higher incomes
- Reduced inequalities

**CGIAR Impact Areas**
- Priority
  - Nutrition, health & food security
  - Poverty reduction, livelihoods & jobs
  - Gender equality, youth & social inclusion
- Secondary
  - Climate adaptation & mitigation
  - Environmental health & biodiversity
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

Three dietary patterns identified in Vietnam; Maasen et al, 2023
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

For more information see: Sustainable Healthy Diets - CGIAR
### Progress: WP3, 4 and 5

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<thead>
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<th>WP3</th>
<th>WP4</th>
<th>WP5</th>
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<td>Governance and inclusive food systems</td>
<td>Trade-off scenario analysis</td>
<td>Catalyzing food systems transformation</td>
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- **Generic framework** for analysis of the political economy of sustainable food systems transitions
- **Policy baseline analysis** in Vietnam and Bangladesh

- **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

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

**Photo**: Michiel van Dijk, 2021

**Photo**: The Alliance, 2023
Progress towards the End of Initiative outcomes

Innovations designed and tested – EoI 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 – EoI 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

- **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.
Fruits and Vegetables for Sustainable Healthy Diets (FRESH)

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

July 20/21, 2023
We would like to thank all funders who supported this research through their contributions to the CGIAR Trust Fund: [https://www.cgiar.org/funders/](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)

**DEMAND**
Key actors are actively engaged in designing and testing interventions to increase fruit and vegetable intake

**SUPPLY**
10,000 farmers (50% women) adopt improved climate-resilient vegetable cultivars that align with consumer, farmer and other value chain actor preferences

10,000 farmers (50% women) adopt safe and sustainable vegetable production practices

Private sector partners co-design and pilot innovations to reduce post-harvest losses and/or improve food safety

**FOOD ENVIRONMENT**
Key actors are actively engaged in designing and testing interventions to increase accessibility and affordability of fruits and vegetables

At least 4 national-level programs, regulations, laws or policies across 4 countries prioritize F&V

CROSS CUTTING ENABLING ENVIRONMENT AND CAPACITY SHARING
Highlights
Demand

- **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)

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)

• 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

Gender segregated FGDs, Arusha (2022)
Highlights
Supply (Postharvest and food safety)

**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 **EoI 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

- **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 (EoI 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 EoI*)
  - 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

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

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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

<table>
<thead>
<tr>
<th>Supported participation in the 2023 ANH Academy Week</th>
<th>Contributing to a workshop on methods for studying the <strong>drivers of food choice</strong> in Bangladesh</th>
<th>SHiFT using <strong>Food Environment Scoping Review</strong> methodology developed by FRESH for Vietnam, Ethiopia and Bangladesh</th>
<th>Established an internal interest group for information sharing and seminars on measuring food environments and diets</th>
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<td>Supporting participation in the <strong>Micronutrient Forum</strong> to be held in October 2023</td>
<td>Developing tools and metrics to standardize the <strong>measurement of food environments and diets</strong> and generating multi-country evidence that will inform the design of innovations</td>
<td>Resilient Cities using <strong>Food Environment Scoping Review</strong> methodology developed by FRESH to complement diet and nutrition review work done for urban and peri-urban settings across eight countries</td>
<td>Coordinating an internal seminar series to share approaches for CGIAR Initiatives conducting research on the <strong>political economy</strong> of food systems transformation</td>
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