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Foresight



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Drop-in call 1: Cross-cutting session

Highlight Foresight and NPS

Update for the CGIAR System Council

13 April 2023

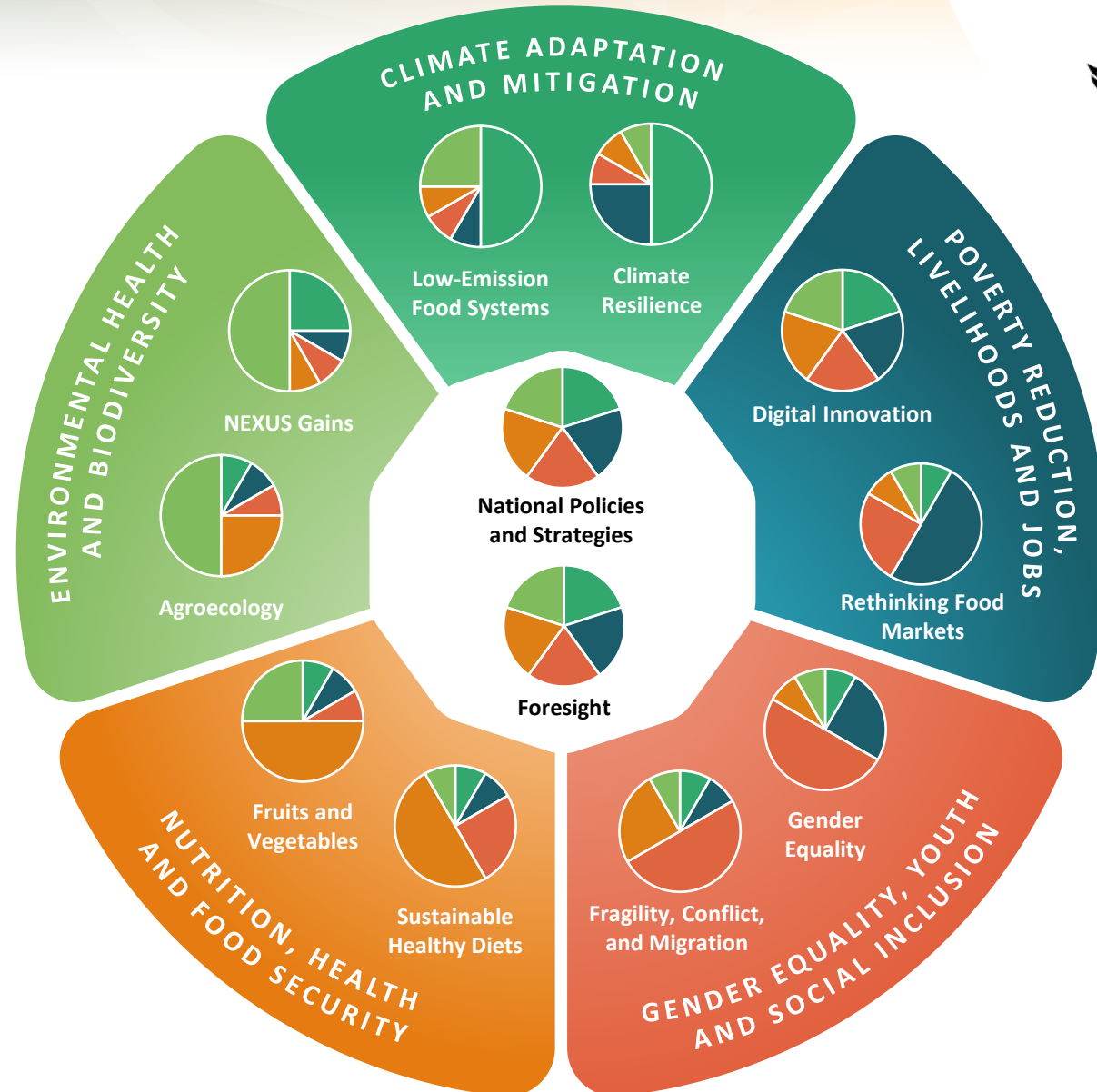
Systems Transformation Initiatives relationships to the Impact Areas



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Schedule of upcoming Systems Transformation drop-in calls

Theme	Date	Time
Cross-cutting session (Highlight Foresight and National Policies and Strategies)	Thursday April 13 th	8am PST / 11am EDT / 5pm CEST / 6pm EAT
<i>Catch-up call for other time zones</i>	Friday April 21 st	8am CET / 9am EAT / 4pm AEST
Climate impact area (Highlight Climate Resilience and Low Emission Food Systems)	Tuesday April 25 th	10am AEST
<i>Catch-up call for other time zones</i>	Wednesday May 3 rd	8am PST / 11am EDT/ 5pm CEST / 6pm EAT
Nutrition impact area (Highlight Sustainable Healthy Diets and Fruits and Vegetables)	Wednesday May 17 th	8am PST / 11am EDT/ 5pm CEST / 6pm EAT
<i>Catch-up call for other time zones</i>	Thursday May 18 th (TBC)	TBC
Environment impact area (Highlight NEXUS Gains and Agroecology)	Wednesday May 24 th	9:30am CET / 5:30pm AEST
<i>Catch-up call for other time zones</i>	Week of May 29 th	TBC
Gender impact area (Highlight Gender Equality and Fragility, Conflict, and Migration)	Wednesday June 7 th	8am PST / 11am EDT / 5pm CEST / 6pm EAT
<i>Catch-up call for other time zones</i>	Week of June 12 th	TBC
Poverty impact area (Highlight Digital Innovation and Rethinking Food Markets)	Wednesday June 21 st	8am PST / 11am EDT / 5pm CEST / 6pm EAT
<i>Catch-up call for other time zones</i>	Week of June 26 th	TBC
Drop-in call for everyone	Wednesday September 6 th	9:30am CET / 5:30pm AEST
<i>Catch-up call for other time zones</i>	Week of September 11 th	TBC

Points of Emphasis

1. Progress toward end of Initiative outcomes.
2. Scientific contributions.
3. Coherence with other CGIAR activities.

Outline

1. Introduction (Channing; 3 mins)
2. Foresight Initiative overview (Keith; 10 mins)
3. NPS Initiative overview (Clemens; 10 mins)
4. How Foresight & NPS are working together (Lensa; 10 mins)
5. Q&A (25 mins)
6. Close (Channing; 2 mins)



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Rosita, age 3, with a cabbage seedling for planting
in Java, Indonesia; Photo by Ricky Martin/CIFOR



Foresight

Thinking about the future
to inform decisions today

Update for the CGIAR System Council

13 April 2023

Keith Wiebe (Lead), Elisabetta Gotor (Co-Lead & WP1), James Thurlow (WP2),
Gideon Kruseman (WP3), Dolapo Enahoro and Tonya Schütz (WP4)

Foresight Initiative overview

Four work packages... working through an iterative process of engagement and analysis...

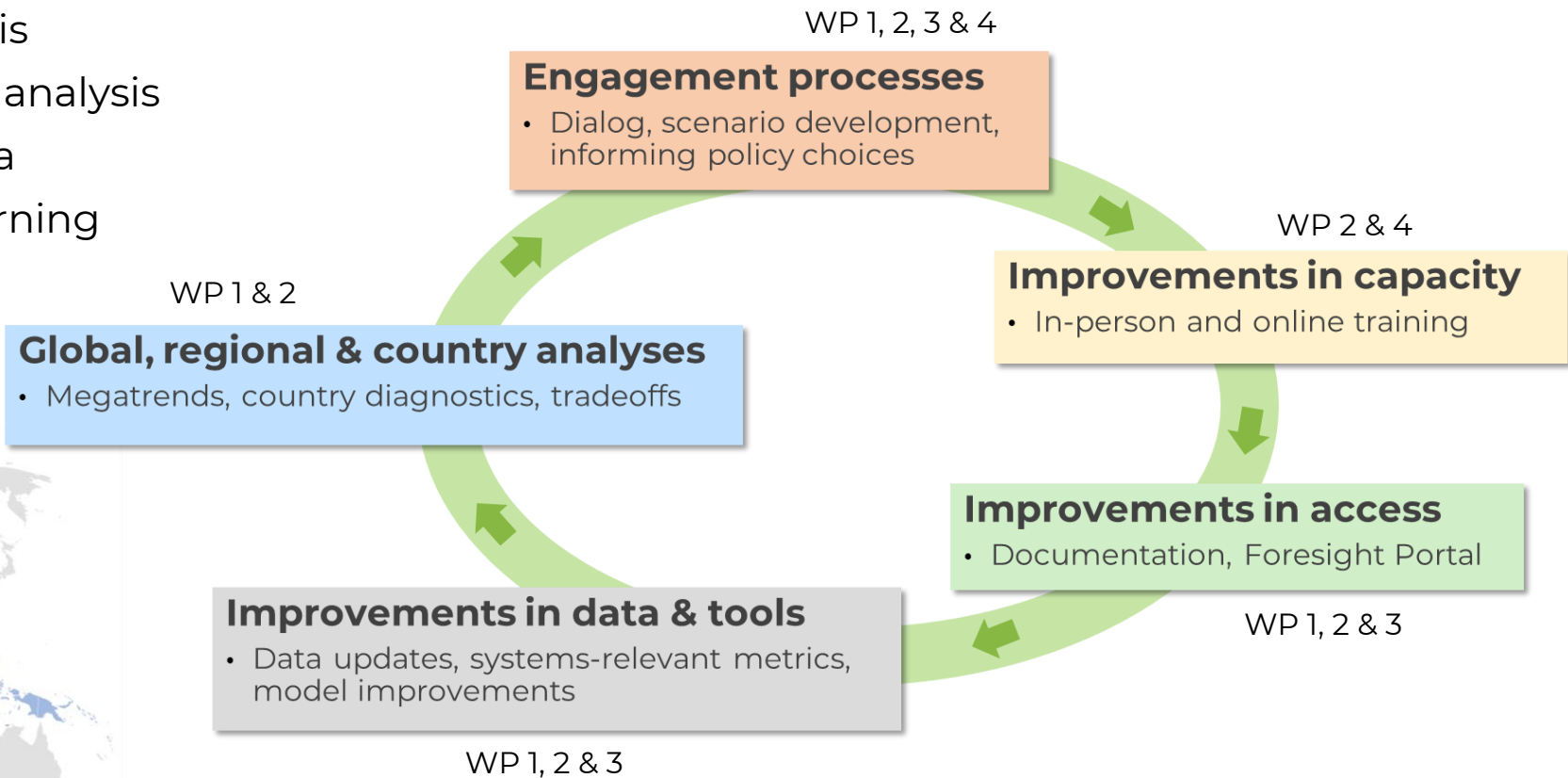
WP 1 – Global & regional analysis

WP 2 – Focus region & country analysis

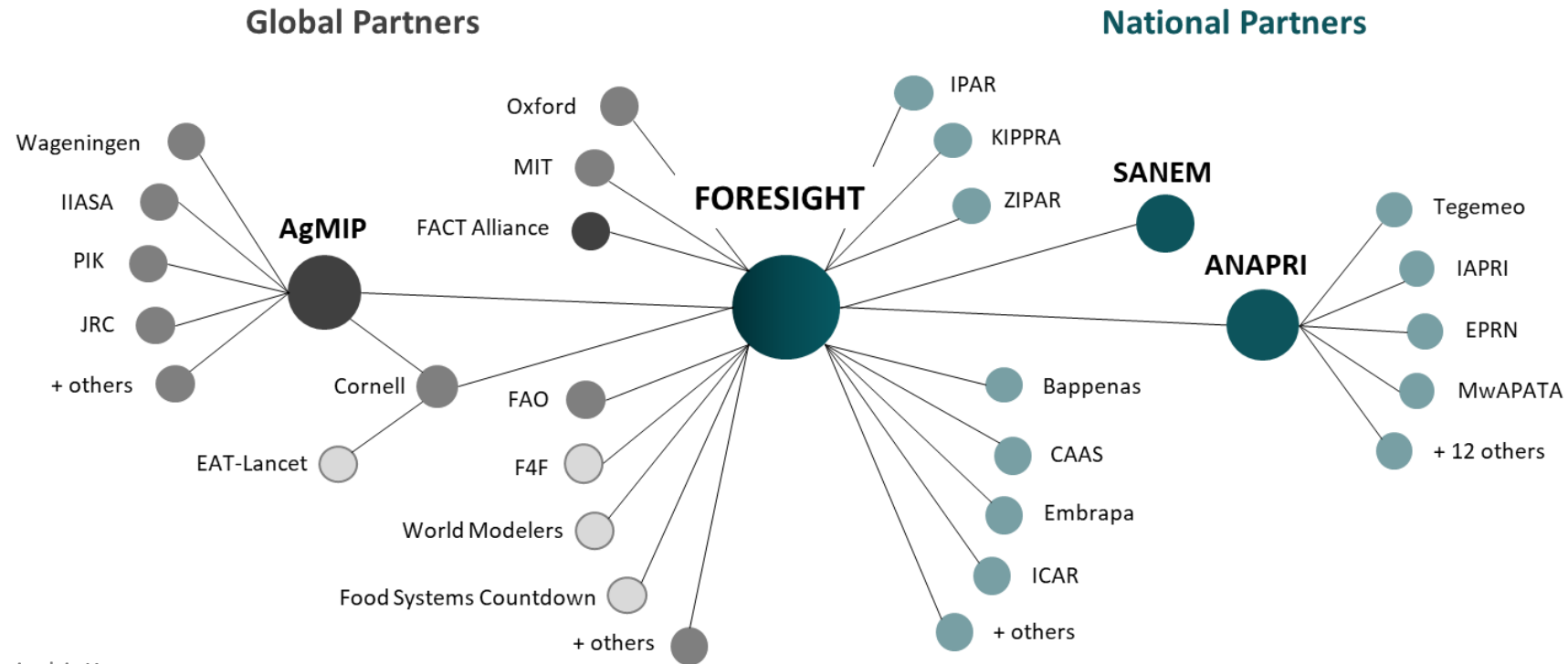
WP 3 – Access to models & data

WP 4 – Capacity building & learning

... at multiple scales



Foresight Initiative partnerships



Foresight Partnership Forum, Nairobi, Kenya,
January 2023; Photos by Frank Maina



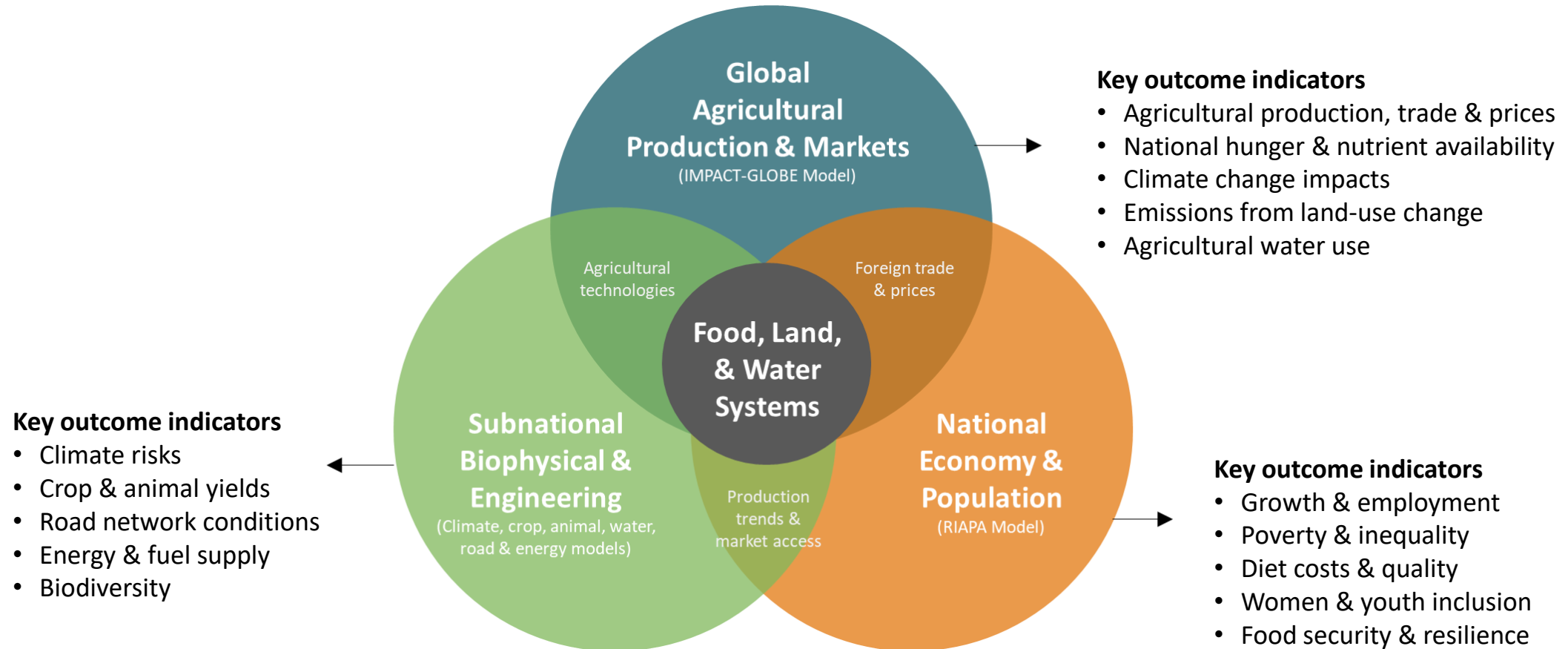
Foresight Initiative progress towards End-of-Initiative Outcomes

- 1. Better-informed global and regional decision-making**
through engagement and analysis with international organizations, development partners, and leading research institutions
- 2. Better-informed national policy choices in at least six countries**
through analysis of Russia-Ukraine conflict impacts, dialog with national governments, and national food system diagnostic studies
- 3. Improved access to foresight tools and data in at least six countries**
through improved documentation of data and tools and development of an online Foresight Portal
- 4. Strengthened national foresight capacity in at least six countries**
through in-person training with 16 policy research institutes that are members of ANAPRI, and development of online training materials



Foresight Initiative scientific contributions

(1 of 3)



Foresight Initiative scientific contributions

(2 of 3)

- **20 briefs on the impacts of the Russia-Ukraine conflict** and other global crises on food, fuel and fertilizer prices, income, and food security in low-income countries ([Diao et al. 2022](#))
- **Analyses of the frequency of climate extreme events** in Southern Africa ([Thomas et al. 2022a](#) and [2022b](#))
- **Analyses of the impacts of climate change and socioeconomic factors** on ecosystem services, nutrition and health outcomes ([Smith et al. 2022](#), [Enahoro et al. 2023](#))
- **Analysis of international agricultural research priorities** ([Fuglie et al. 2022](#))
- **Analysis of diets, health & planetary boundaries** with AgMIP Global Economics and the EAT-Lancet Commission (in progress)

C. Arnold et al.

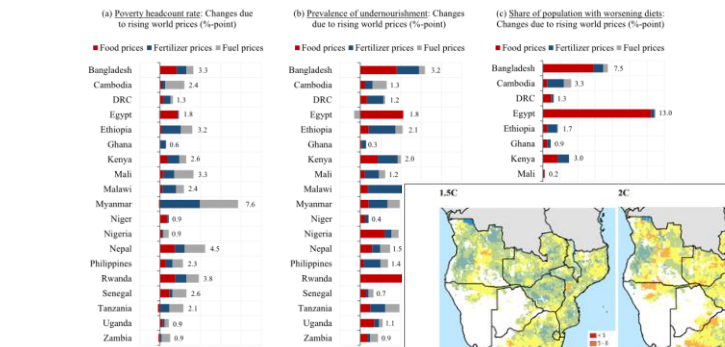


Fig. 3. Estimated impacts on poverty and food security. Note: Poverty headcount rate is the population share with consumption below the US\$ share consuming less than the minimum calorie threshold. Diets are defined across six food groups in at least one additional group, where deprivation means consuming less than the minimum calorie threshold. Source: Simulation results from IFPRI's RIPA models (see [www.ifpri.org/project/riga](#) (available at [dataverse.harvard.edu/dataverse/iam](#))).

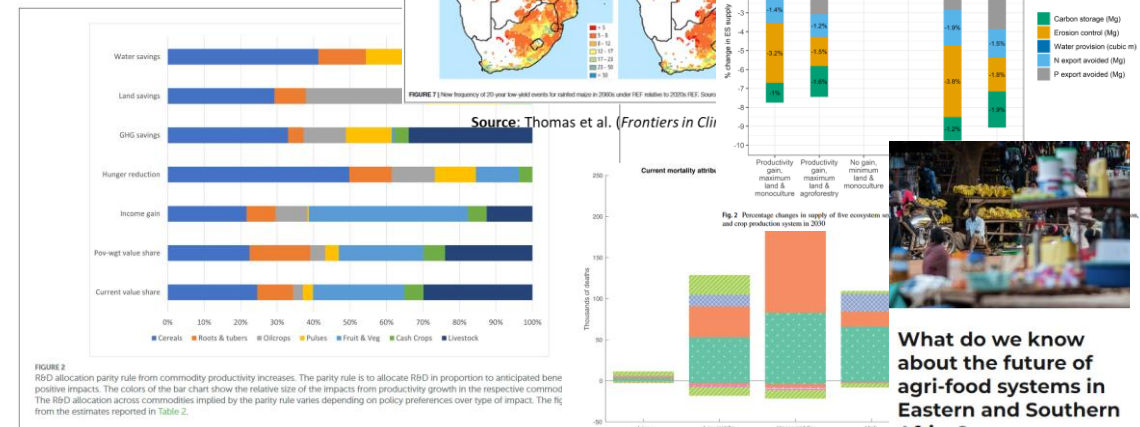


Figure 2

R&D allocation parity rule from commodity productivity increases. The parity rule is to allocate R&D in proportion to anticipated bene- ficial impacts. The colors of the bar chart show the relative size of the impacts from productivity growth in the respective commodity. The R&D allocation across commodities implied by the parity rule varies depending on policy preferences over type of impact. The fig- ure from the estimates reported in Table 2.

Figure 3

Current annual security estimated to be attributable to inadequate fertilization and its dietary impacts. The chart shows the percentage changes in supply of five ecosystem services and crop production in 2050. The ecosystem services are Carbon storage (Mg), Erosion control (Mg), Water provision (cubic m), N export avoided (Mg), and P export avoided (Mg). The crop production is in thousands of tonnes. The chart shows the percentage change in supply for each ecosystem service and crop production across different income levels (Low, Low-middle, Upper-middle, High). Source data may be found in Excel Table S6.

Foresight Initiative scientific contributions

(3 of 3)

Climate Change Data Portal will provide ready-to-use downloadable information to analysts in developing countries
(same data used in CGIAR's foresight models)

Projected climate variables at country and higher-resolution scales

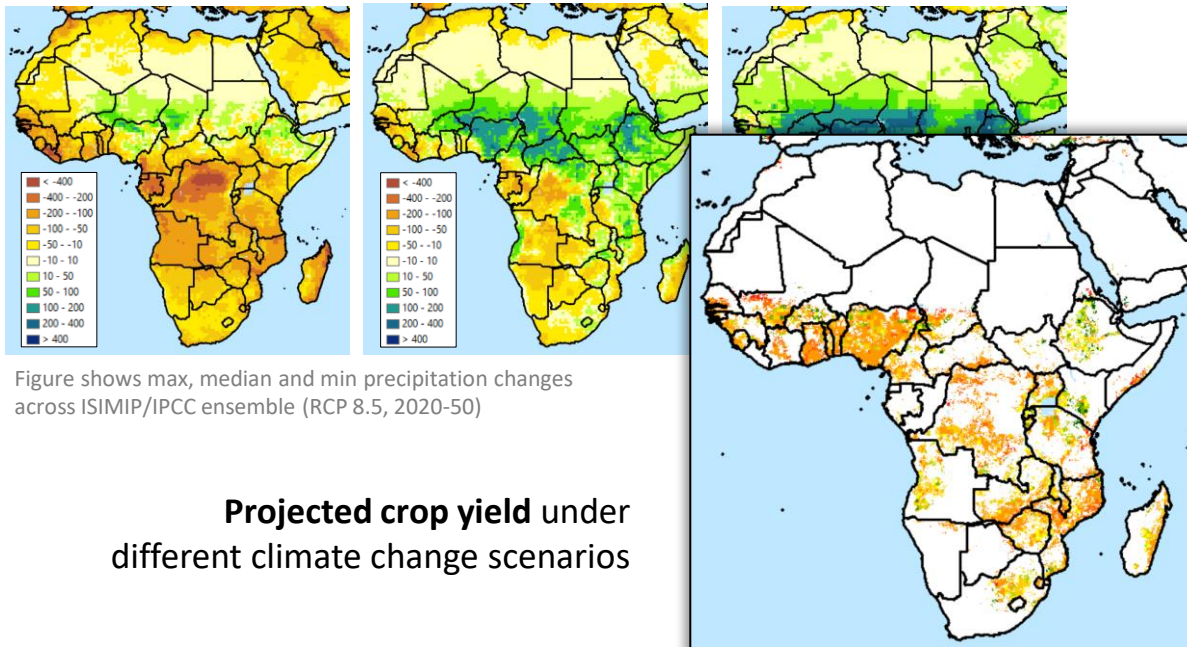


Figure shows max, median and min precipitation changes across ISIMIP/IPCC ensemble (RCP 8.5, 2020-50)

Projected crop yield under different climate change scenarios

Figure shows percentage change in rainfed maize yields in areas growing maize (median change from ensemble RCP 8.5)

New gender work program is evaluating closing labor market gaps and gender-intentional policies
(with World Bank's Gender Innovation Lab)

Estimated impacts of closing gender gaps in the labor market (preliminary)

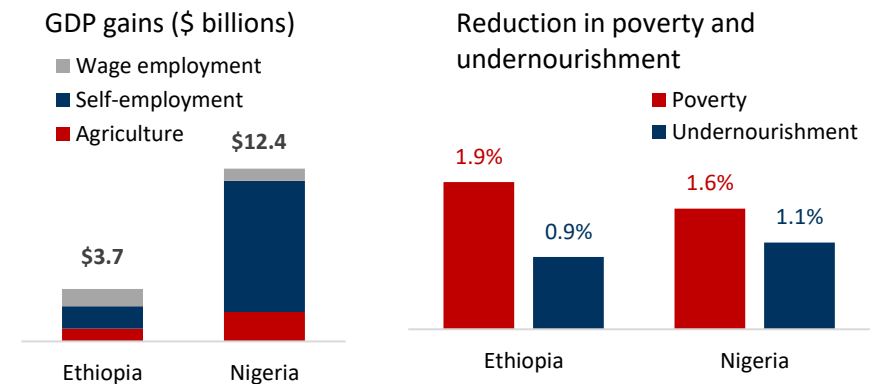


Figure shows economic impacts of eliminating the gap between men and women's earnings in different segments of the labor market

Foresight Initiative coherence with other CGIAR activities (1 of 2)

Foresight is working closely with other CGIAR Initiatives, including:

- **with the NPS Initiative** and national partners in Egypt, Kenya and Nigeria to analyze impacts of the conflict in Ukraine, to engage with decision makers to inform policy choices; and to conduct agrifood system diagnostic studies in these countries as well as states in India;
- **with the Diversification in East and Southern Africa Initiative** to analyze impacts of climate change on production of major commodities, and to explore policy options to increase diversification;
- **with the Market Intelligence Initiative** to analyze the potential of different breeding investments to meet changing patterns of demand and supply under alternative future conditions;
- **with the Digital Innovation Initiative** and other partners to develop new ways to share foresight-related data and models;
- **with the Fruits and Vegetables Initiative** and other partners to analyze the cost of healthy diets for different regions and population groups under alternative future scenarios;
- **and with other Initiatives** through sharing of foresight-related data, tools, and staff expertise.

Foresight Initiative coherence with other CGIAR activities (2 of 2)

Foresight's work also complements related bilateral projects, including:

- **with BMGF** to inform policy prioritization in selected countries, and to incorporate information on climate hazards, impacts and agricultural practices in the Adaptation Atlas;
- **with USAID and BMGF** to support the Foresight and Rapid Response Modeling System (FARRMS) country impact analysis work, output indicator creation, Nexus SAM development and documentation, and to inform investment priorities for agricultural research and development;
- **with the EAT-Lancet Commission** to examine the impacts of future diets on health and planetary boundaries – including to improve attention to issues of concern to low-income countries;
- **and with other bilateral projects**, including new projects in development with the World Bank and the Asian Development Bank.



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National Policies and Strategies

Update for the CGIAR System Council

13 April 2023

Clemens Breisinger (Lead), Alan Nicol (Co-Lead), Yumna Kassim (Manager),
Joseph Karugia (CGIAR Country Convener for Kenya), Lensa Omune (Research Officer)

At a Glance



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Building policy coherence

Supporting coherence building measures (EoIO V)

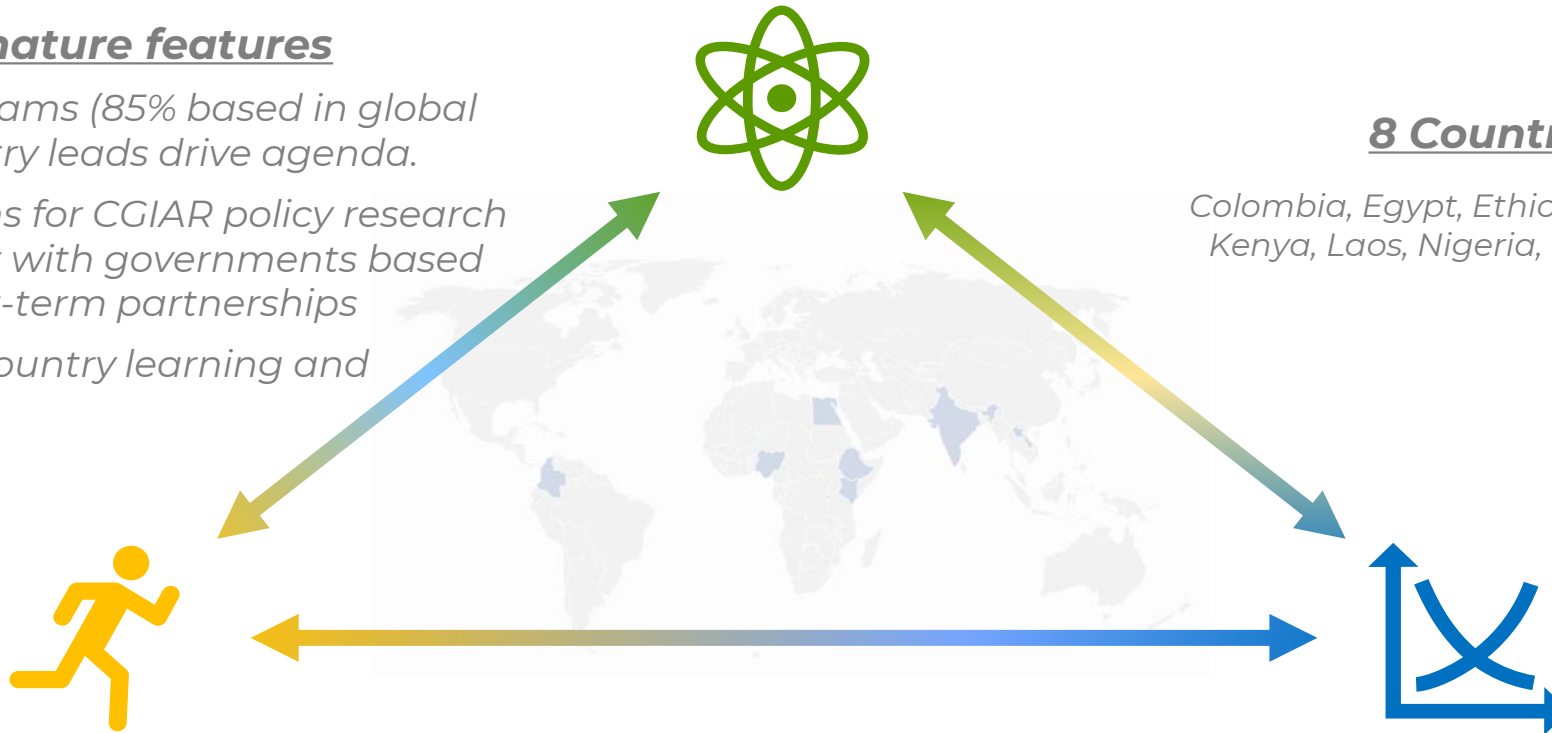
Co-organizing NPS policy seminar series & communities of policy practice (EoIO VI)

NPS signature features

- ✓ Country-based teams (85% based in global south), NPS country leads drive agenda.
- ✓ Provides platforms for CGIAR policy research and engagement with governments based on trusted, longer-term partnerships
- ✓ Promotes cross-country learning and exchange

8 Countries

Colombia, Egypt, Ethiopia (2023) India, Kenya, Laos, Nigeria, Rwanda (2023)



Responding to policy demand & crises

Co-creating rapid policy responses and information / adoption (EoIO I)

Co-creating crisis responses and information / adoption (EoIO II)




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Integrating policy tools

Sharing analytical capacity to use of CGIAR policy analysis tools (EoIO III)

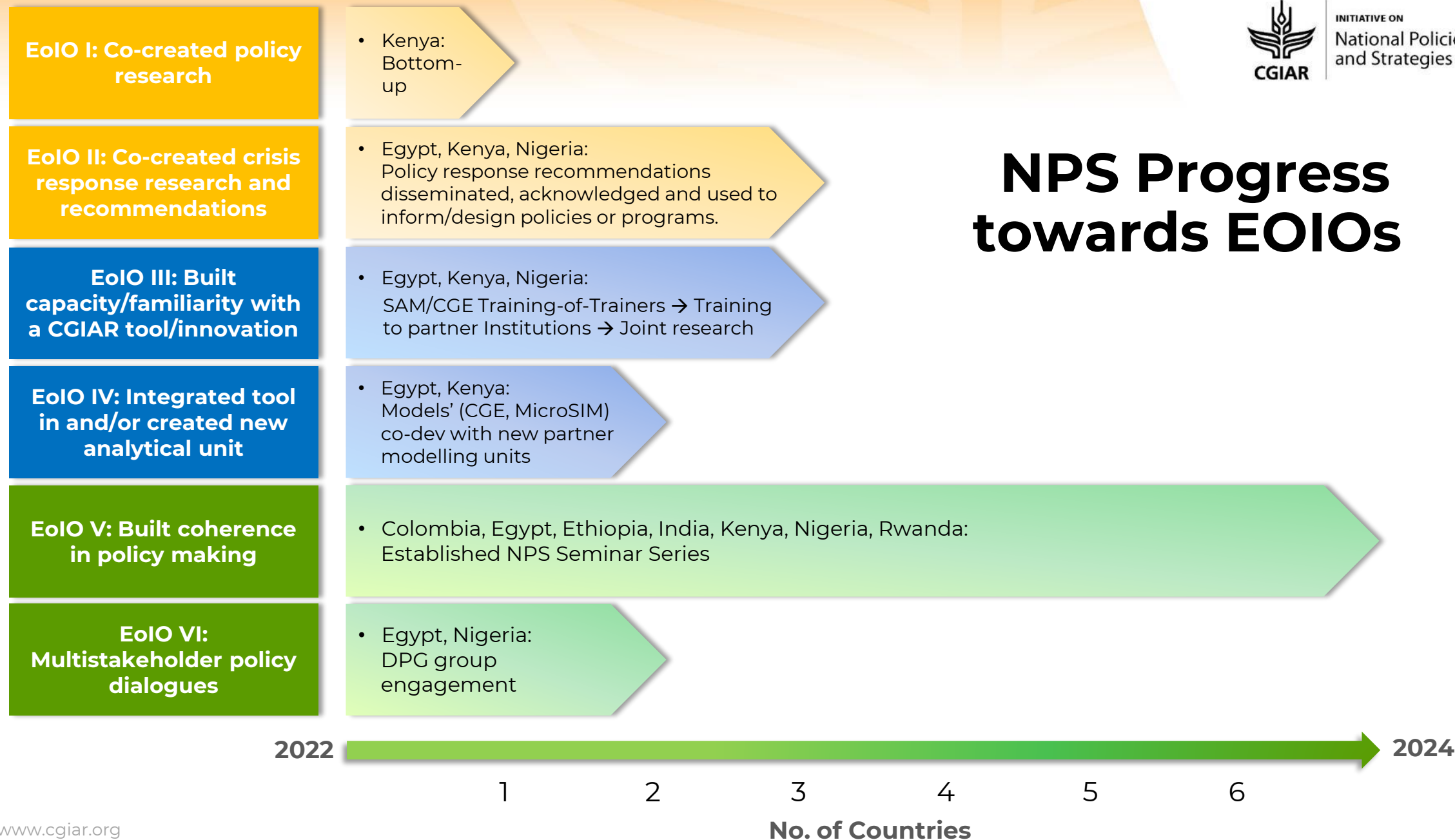
Institutionalizing CGIAR tools in analytical units / new units (EoIO IV)

NPS support to national strategies, policies, and institutions

	National Strategies	 Building policy Coherence*	 Response to policy demand and crises	 Integrating policy tools (main national partner)
Colombia	<ul style="list-style-type: none"> National Development Plan 2023-2026 	<ul style="list-style-type: none"> Colombia NPS Seminar Series 	<ul style="list-style-type: none"> Impact of extreme climate events 	<ul style="list-style-type: none"> Ministry of Agriculture and Rural Development
Egypt	<ul style="list-style-type: none"> Egypt Sustainable Development Strategy 2030 	<ul style="list-style-type: none"> Egypt NPS Seminar Series DPG-ARD group 	<ul style="list-style-type: none"> Ukraine war/Inflation Social Policy 	<ul style="list-style-type: none"> Institute of National Planning
Ethiopia	<ul style="list-style-type: none"> Reconstruction and Recovery Plan 	<ul style="list-style-type: none"> Ethiopia NPS Seminar Series 	<ul style="list-style-type: none"> Impact of the conflict Investment priorities for rebuilding 	<ul style="list-style-type: none"> Ministry of Planning and Development
India	<ul style="list-style-type: none"> Mahatma Gandhi National Rural Employment Guarantee Act Odisha State Empowerment and Livelihood Improvement Program 	<ul style="list-style-type: none"> India NPS Seminar Series Annual NPS event with CGIAR SO 	<ul style="list-style-type: none"> Women's agency in MGNREGA Evaluation of OPELIP in Odisha 	<ul style="list-style-type: none"> National Institution for Transforming India
Kenya	<ul style="list-style-type: none"> Bottom-Up Economic Transformation Plan, 2022-2027 	<ul style="list-style-type: none"> Kenya NPS Seminar Series DPG group Science-Policy Interface Pilot 	<ul style="list-style-type: none"> Ukraine war Bottom-Up Economic Plan 	<ul style="list-style-type: none"> Kenya Institute of Public Policy Research & Analysis
Laos	<ul style="list-style-type: none"> Green and sustainable agriculture framework 	<ul style="list-style-type: none"> Lao NPS Seminar series Agroecology subsector initiation 	<ul style="list-style-type: none"> Support to Agroecology-based, food system transformation policy 	<ul style="list-style-type: none"> National Agriculture and Forestry Research Institute
Nigeria	<ul style="list-style-type: none"> National Agricultural Technology and Innovation Policy, 2022-2027 	<ul style="list-style-type: none"> Nigeria NPS Seminar Series Nigeria DPG group 	<ul style="list-style-type: none"> Ukraine war Fertilizer policies 	<ul style="list-style-type: none"> Nigerian Institute of Social and Economic Research
Rwanda	<ul style="list-style-type: none"> Sector Strategic Plan for Agriculture 5, 2024-2030 	<ul style="list-style-type: none"> Rwanda NPS Seminar Series Agriculture Sector Working Group 	<ul style="list-style-type: none"> New Livestock/Animal Resources Sector Strategy New PSTA- 5 Evidence-based Design 	<ul style="list-style-type: none"> Ministry of Agriculture and Animal Resources

*CGIAR Policy Dashboards and Policy Coherence Studies conducted in six countries

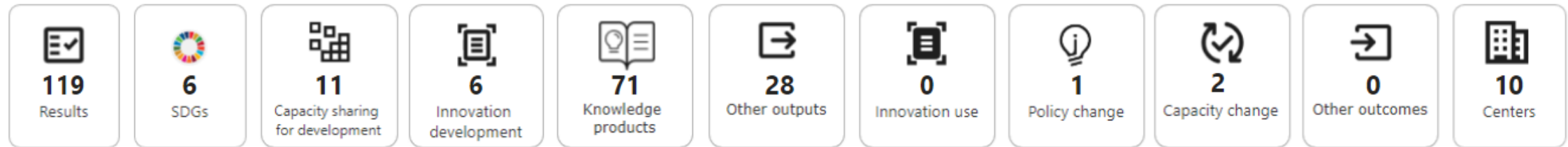
NPS Progress towards EOIOs



Scientific Contributions



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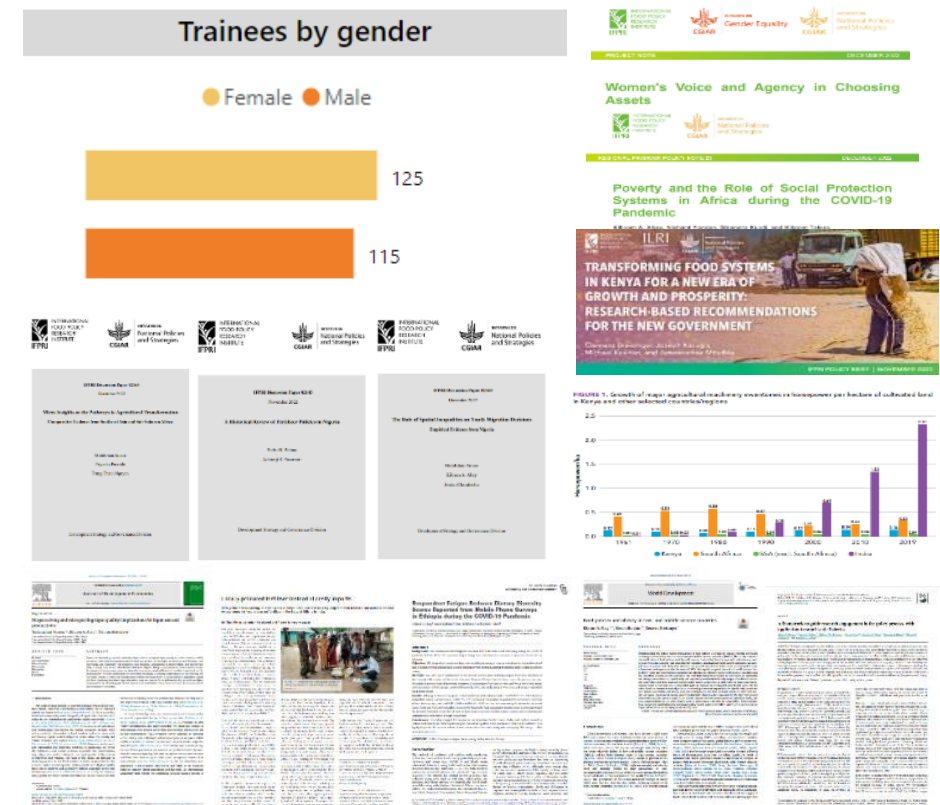


I. Research questions (examples):

- How can more coherent policy design and implementation improve policy outcomes?
- What are the expected impacts of crises and what are expected outcomes of alternative policies and investments?
- What can countries learn from each other for policy and strategy design and implementation (e.g., Rethinking fertilizer subsidies).

II. Research methods to answer these questions

- Survey-based impact evaluations
- Economy-wide modeling
- Household microsimulations
- Political economy studies
- Cross country comparative analysis

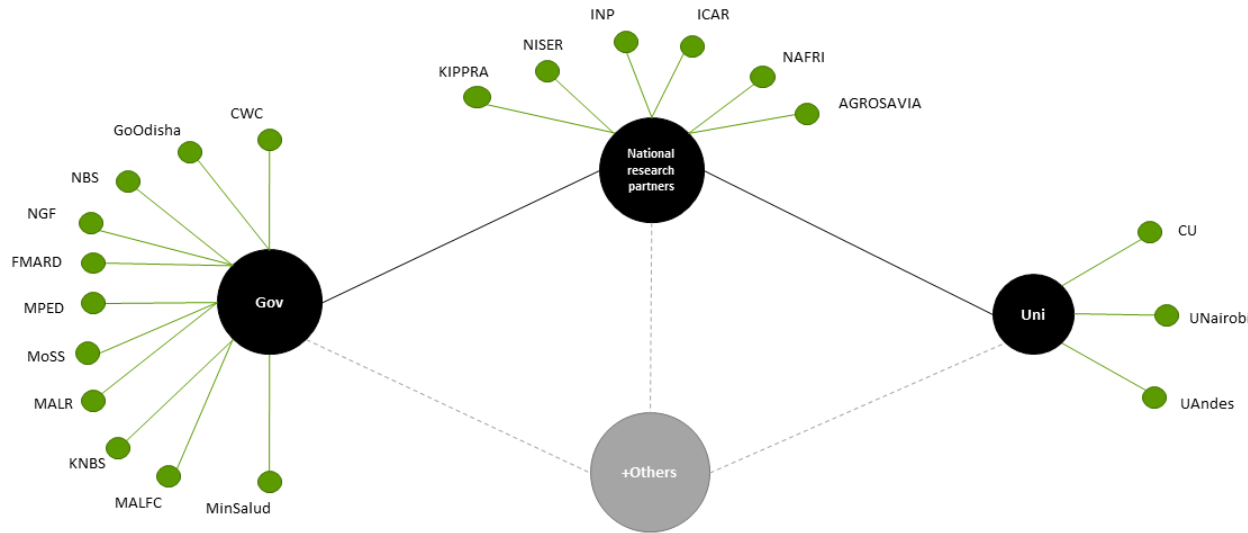




Building Policy Coherence



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National NPS Partners

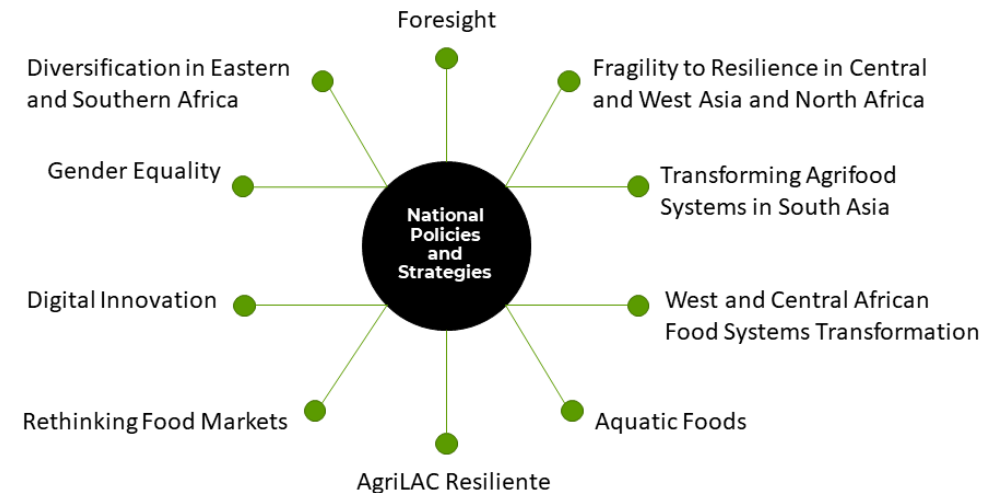
For Governments:

- NPS conducts coherence analysis in 6 countries
- NPS provides and builds platforms for science-policy dialogues

For CGIAR:

- NPS builds a CGIAR policy coherence dashboard
- NPS works closely with CGIAR Country Convenors

CGIAR Initiatives

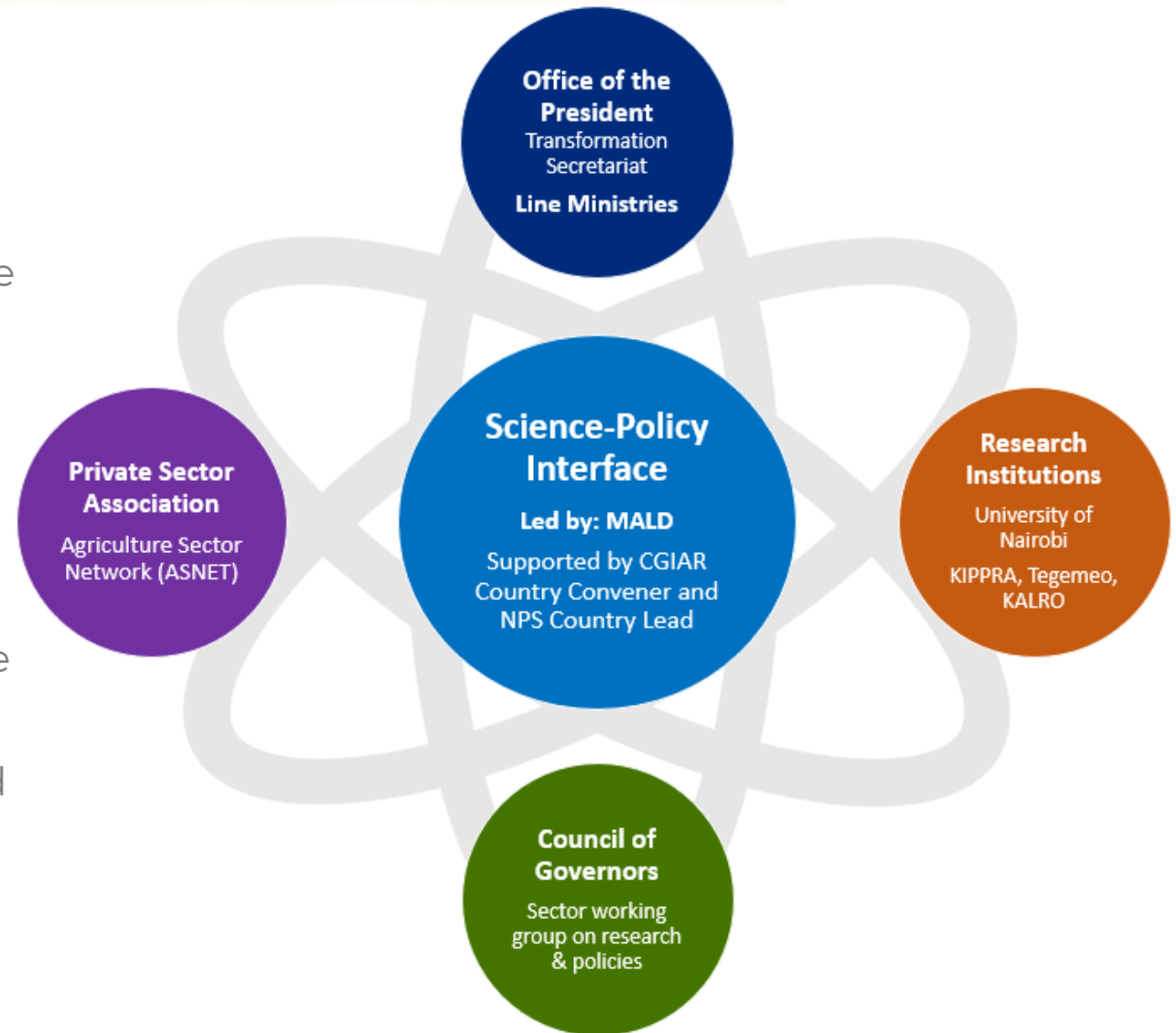


New Era for Science-Policy Interface (SPI) in Kenya



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- Kenyan agricultural Cabinet Secretary (Minister) and Principal Secretary (Deputy Minister) support the SPI and acknowledge that unprecedented challenges require transformative change.
- Office of the President, county representatives, private sector, Kenyan research institutions support SPI.
- Digitalization, artificial intelligence, etc. provide new opportunities for the SPI to be more effective and efficient.
- Stronger national research institutions and more coordinated CGIAR approach builds coherence



New Era of Science-Policy Interface (SPI) in Kenya: Next Steps

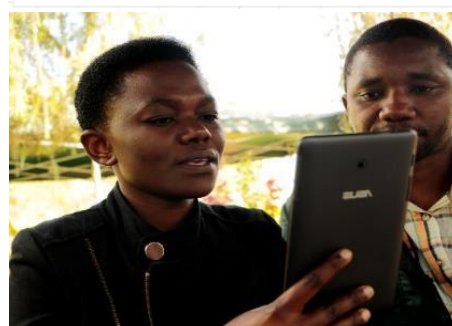
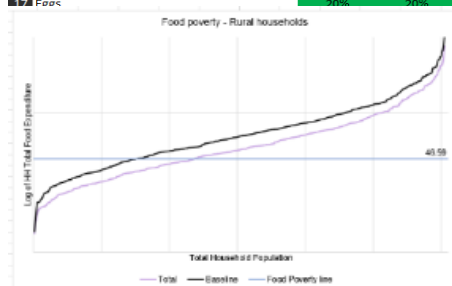


- Formalize the Science-Policy Interface under the leadership of the MALD and support of NPS on behalf of CGIAR.
- Set up mechanisms for regular exchange and rapid response using traditional and digital approaches.
- Annual Food Systems Conference, joint research, capacity sharing and communications outputs and outcomes.

[Kenya Food Systems Conference: Recommendations and actions to support the implementation of the Bottom-Up Economic Plan in Kenya - CGIAR](#)

Additional Added Value of NPS Initiative Funding

	A	B	C
1	Price Shocks		
2	Name	Rural	Urban
3	Rice	20%	20%
4	Maize	20%	20%
5	Wheat	20%	20%
6	Other cereals (e.g. sorghum, millet)	20%	20%
7	Starchy staples (e.g. potatoes)	20%	20%
8	Bananas & plantains	20%	20%
9	Nuts (e.g. peanuts, tree nuts)	20%	20%
10	Pulses (e.g. beans, peas)	20%	20%
11	Raw milk	20%	20%
12	Dairy products	20%	20%
13	Beef	20%	20%
14	Goat/lamb/pork & other ruminants	20%	20%
15	Poultry (e.g. chicken)	20%	20%
16	Fish & seafood	20%	20%
17	Food	20%	20%



POLITICAL ECONOMY AND POLICY ANALYSIS (PEPA) SOURCEBOOK

A Guide to Generating Evidence for National Policies
and Strategies (NPS) for Food, Land and Water
Systems Transformation

1. Allows for time to produce innovations

- Political Economy Analysis (PEA) Toolkit incorporating Policy and Institutional Landscape Analysis (PILA)
- Household microsimulation tool “modelling without models”
- Embedded digital impact evaluation systems for more rapid and cost-effective data collection

2. Allows for cross-center/initiative collaboration and flexibility of funding to respond quickly

- Country demand for specific policy inputs (e.g., livestock for Rwanda PSTA-5 from ILRI)
- Collaboration on Ukraine-Russia war response with CGIAR Foresight initiative.

Photo 1 credit: Manon Koningstein, CIAT
Photo 2 credit: C. de Bode, CGIAR



Responding to policy demand and crises



Building policy coherence



Integrating policy tools



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Vegetable traders at Wakulima Market in Nairobi, Kenya
Photo credit: Photo by Sven Torfinn/Panos Pictures

How Foresight and NPS are working together

- a) Responding to Ukraine-Russia War
- b) Responding to Government Requests
- c) Strengthening Partners' Capacity for Future Analysis

Responding to Ukraine-Russia War

Evaluating impacts and policy options

Foresight | Mobilizing tools

- Rapidly adapted CGIAR's models for multi-country analysis of rising food, fuel and fertilizer price
- Initial analysis focused on stylized policy response options

NPS | Mobilizing partners

- Building an expert rapid response team to guide and inform case studies in focus countries e.g., Kenya
- Informed policymakers and partners of early analysis

19 country case studies





Seminars for global audiences

[Click here for Foresight seminar](#)

Web portals with case studies

[Click here for web portal](#)

www.cgiar.org

Working Together | Joint engagement & outputs

More in-depth design and discussion of analysis with policymakers and partners

Publication of final results by Foresight, NPS and partners




VISION:
An international center of excellence in public policy research

MISSION:
To provide the Government with research and policy options

July 20, 2022 | 12:00 to 14:00


[Click here for info on NPS seminar](#)



Kenya: Impacts of the Ukraine and Global Crises on Poverty and Food Security


Clara Bratsinger, Kiran Shah, Paul Dorosh, James Muthira, Lennox Othman, Edwin Othman, Angela Probst, James Smith, and James Thornton

[Click here to access paper](#)



Bilateral meetings & NPS blogs


[Click here for NPS blog](#)



The Russia-Ukraine Crisis Poses a Serious Food Security Threat for Egypt

[Click here for NPS blog](#)

Rapid training for partners on models



Responding to Government Requests

Assessing Kenya's "Bottom-Up" Economic Plan



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NPS | Receiving government requests and co-creating analysis

- Forged long-standing partnership with KIPPRA
- Supported KIPPRA-led team in analyzing new development plan through series of technical meetings

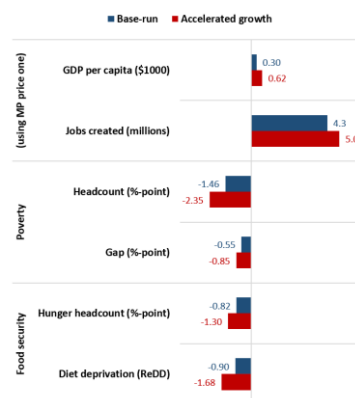
Foresight | Supporting policy analysis

- Provided data and tools and experience modeling national development plans

Working group designed model scenarios

	A	B	C	D	E	F	G	H
1	Growth scenarios							
2	Historical and projected growth rates							
3								
4								
5	National economy							
6			Historical			Scenario		
			Value	Share	Growth	Value	Share	Growth
7			2019	2019	2009-2019	2027	2019-2027	
8	Agriculture, forestry and fishing		1,051	20.8%	4.6%	1,510	18.5%	4.6%
9	Crop and animal production, hunting and re		981	19.4%	4.7%	1,419	17.4%	4.7%
10	Forestry and logging		52	1.0%	4.2%	72	0.9%	4.2%
11	Fishing and aquaculture							1.1%
12	Manufacturing, mining and quarrying and							4.6%
13	Mining and quarrying							10.7%
14	Manufacturing							3.4%

Poverty and Food Security Outcomes Under Base-Run and Accelerated Growth Scenarios (change in outcomes, 2022-2027)



Working Together | Joint engagement

Leveraging the New Bottom-Up Economic Plan for Food System Transformation in Kenya

Hosted by KIPPRA and IFPRI Kenya

This event is part of the Kenya NPS Seminar Series

DEC 5, 2022 - 2:00 TO 4:00PM EAT

PODCAST



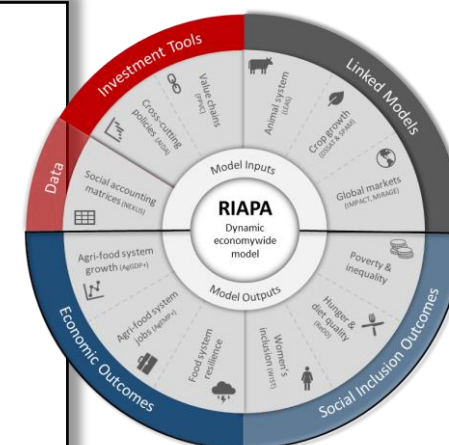
KIPPRA hosted seminar with high-level policymakers



IFPRI
National Treasury and Planning Cabinet Secretary Prof. Njuguna Ndung'u (left) and Ministry of Agriculture and Livestock Development Principal Secretary Kello Harsama discuss Kenya's new Bottom-Up Economic Plan.

"Rest assured that we are happy with the results you presented, we will use them." ~ Cabinet Secretary (Minister) of Treasury and Planning Kenya

RIAPA country modeling framework



Final analysis assessed impacts on incomes, jobs, poverty, food security & diets

Strengthening Partners' Capacity for Future Analysis

Providing training on policy modeling tools



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Foresight | Developing tools and materials

- Continuously improving and updating model capabilities, data quality, and documentation
- Disseminating training materials for in-person workshops, self-study, and online course.

NPS | In-country capacity sharing

- Focus on institutionalizing the maintenance and use of tools and databases by national partners
- Conducting trainings for research partners (e.g., KIPPRA in Kenya, NISER in Nigeria, INP in Egypt)
- Emphasis on **“training of trainers”** approach and **“on-the-job”** learning

Working Together | In-country training workshops



Photo credit: Ken Malot, KIPPRA

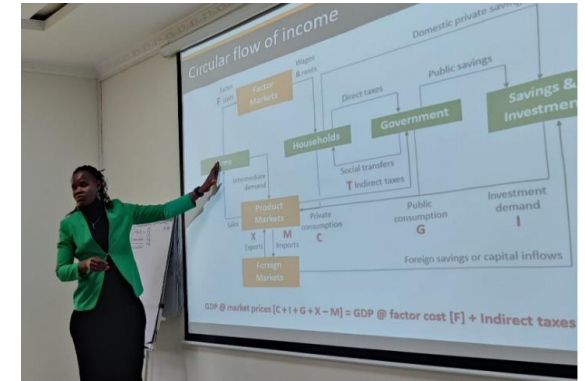


Photo credit: Damaris Nanjira, KIPPRA



Photo credit: Onilogbo Omobolanle, IFPRI



Photo credit: Mariam Raouf, IFPRI

Q&A



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For more information

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