Regionally Integrated Initiatives (RIIs)

AgriLAC Resiliente:

Resilient Agrifood Innovation Systems in Latin America and the Caribbean

Donor Drop-In Calls (March 2023)

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#AgriLACInitiative

Challenges in LAC region

In Central America, **poverty, (~83M)** **unemployment, (~30M)** climate and conflict lead to incessant rural migration.

51 million of rural people are exposed to **climate hazards** (drought, floods, hurricanes).

50% of LAC food producers are **women**, not recognized as farmers

Agriculture uses **33%** of LAC **land area**, **75%** of its **freshwater**

Agriculture in LAC accounts for **50%** of GHG* emissions in the region.

Biodiversity and forests in LAC play a key role in global environmental sustainability

Vulnerability, degradation and out-migration

AgriLAC's Science4Impact

CGIAR

Climate smart & nutrition sensitive **Socio-Ecological-Technical (SET)** innovations

Science-based strategies to meet **mitigation targets with SDGs**

Digitally-enabled tools for informing decision-making across AFS segments

Resilient, competitive & low emissions agri-food systems

Policies and investments for scaling up SET innovations

InnovaHubs for **ground evidence, uptake and scaling** out SET innovations

Gender responsive approaches embedded across components and geographies

Generating a positive, sustainable and measurable impact (SDG)

One CGIAR impact areas

- Environment, health and biodiversity
- Adaptation and mitigation of climate change
- Nutrition, health and food safety
- Gender equality, youth and social inclusion
- Poverty reduction, livelihoods and jobs

2022 AgriLAC Implementation: KEY FACTS

Produced 27 new knowledge products

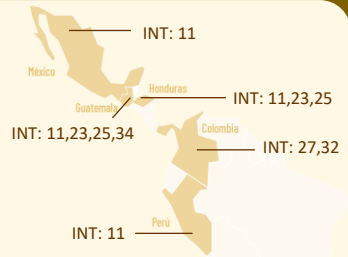
(13 led by AgriLAC and 14 in synergy with GTI)

4 peer-reviewed articles

1 book chapter

Collaborative research with **6 Thematic initiatives**

(INT: EiA-11, ClimBer-23, Digital Innovation-25, National Policies -27, Mitigate+ -32, and LCRS-34)



16 Capacity building events training **372** participants

(13 led by AgriLAC and 3 in synergy with GTI)

45% of the participants were women

Activities implemented with around **50 partners** in the region

(**Countries:** Guatemala, Honduras, Mexico, Peru and Colombia)

More than 40 joint products

10 innovations developed

(6 led by AgriLAC and 4 in synergy with thematic initiatives)

Level 1: Basic Research	1
Level 2: Formulation	1
Level 4: Controlled Testing	1
Level 5: Model/Early Prototype	1
Level 6: Semi-Controlled Testing	1
Level 7: Prototype	2
Level 9: Proven Innovation	3

90 researchers collaborating to develop and apply scientific innovations in the region

(**45%** of the total initiative workforce are **women**)

73% of the leadership positions are held by scientists from LAC

AgriLAC promoted 8 CGIAR innovations with **10K people** in the region.

(**Countries:** Guatemala, Honduras, and Colombia)

50% of the users were women

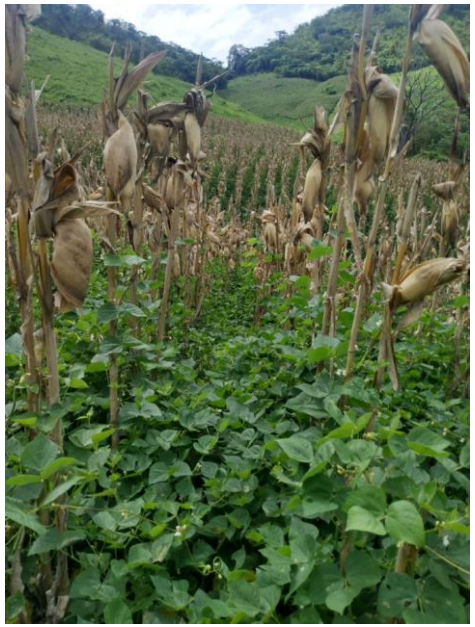
30% of products reported with **gender-significant** tag

72% of products reported with **Climate – significant*** and **principal**** tag

(*36%, and **36%)

Climate smart & nutrition technologies
used by rural men & women

Contextualized scaling of genetic innovations: dissemination of improved verities of maize, beans and rice.

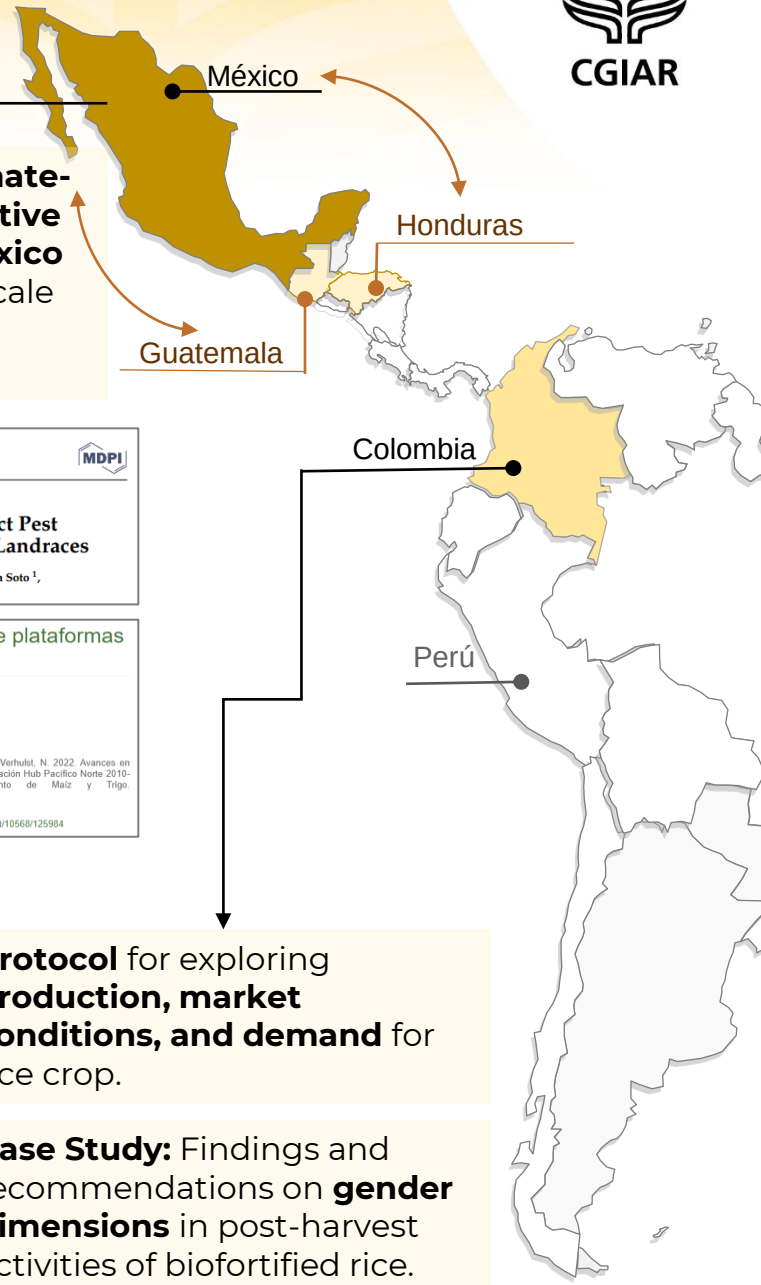


480 farmers* in **Honduras** using drought tolerant beans and maize.

100 farmers** in **Colombia** using biofortified rice and maize.

*33% women and 67% men.
**44% women and 56% men.

143 people trained to improve postharvest and food preparation practices in order to **maintain the nutritional value** of the food prepared by local communities in the dry corridor of **Guatemala and**, **Honduras and in Colombia**



Two menus of **validated climate-resilient and nutrition-sensitive maize varieties** tested in **Mexico (2022)** and ready to tailor & scale in **Guatemala and Honduras (2023-2024).**

insects
MDPI

Article

Effect of Storage Technologies on Postharvest Insect Pest Control and Seed Germination in Mexican Maize Landraces

Sylvanus Odjo [1], Nicolas Bongianino [2], Jessica González Regalado [1], María Luisa Cabrera Soto [1], Natalia Palacios-Rojas [1], Juan Burgueño [1] and Nele Verhulst [1,*]

Avances en agricultura sustentable: Resultados de plataformas de investigación Hub Pacífico Norte 2010-2021

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Citation

Fonteyne, S., Domínguez, O., García, A. R., Velasco, J. L., y Verhulst, N. 2022. Avances en Agricul-tura Sustentable, Resultados de plataformas de investigación Hub Pacífico Norte 2010-2021. México: Centro Internacional de Mejoramiento de Maíz y Trigo. https://hdl.handle.net/10883/22265

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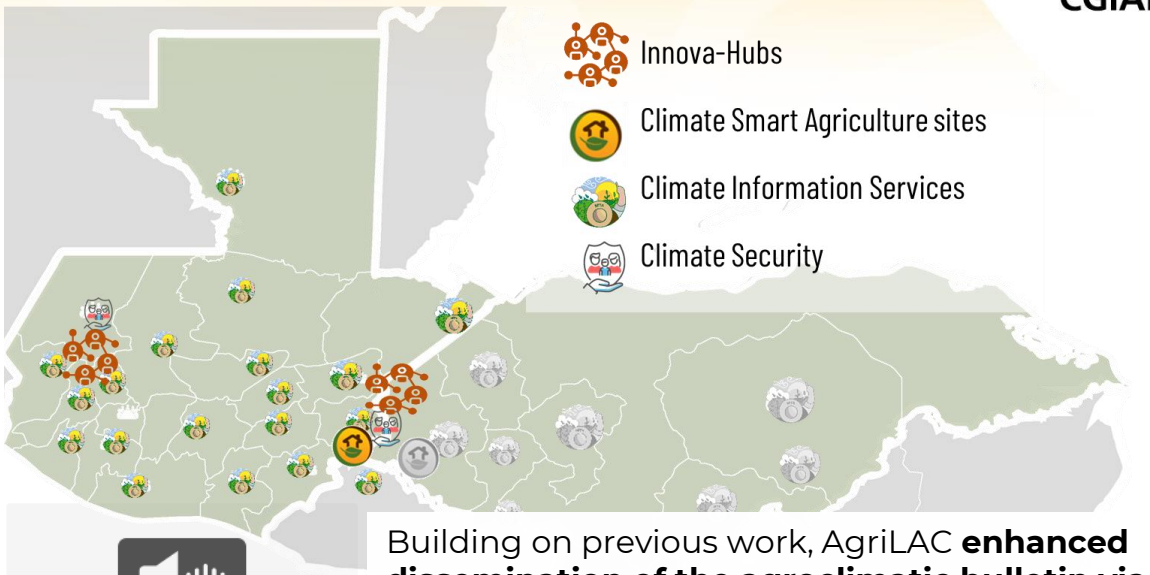
Protocol for exploring **production, market conditions, and demand** for rice crop.

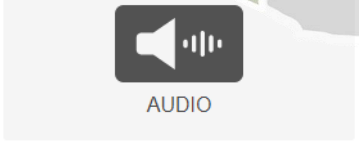
Case Study: Findings and recommendations on **gender dimensions** in post-harvest activities of biofortified rice.

Data hub tech & tools
for agroclimatic information services

Aclimate Guatemala: a user-centered designed digital agro-climatic forecast system for processing climate and crop data.

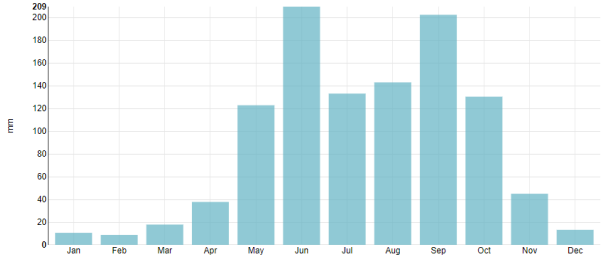
More robust Local Technical Agroclimatic Committees as an efficient delivery mechanism of climate services

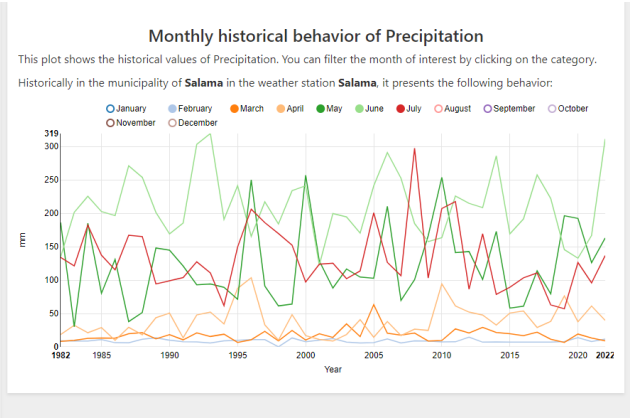




SpotRadial_MTA_Chiquim... mp3 (1.37 MB)

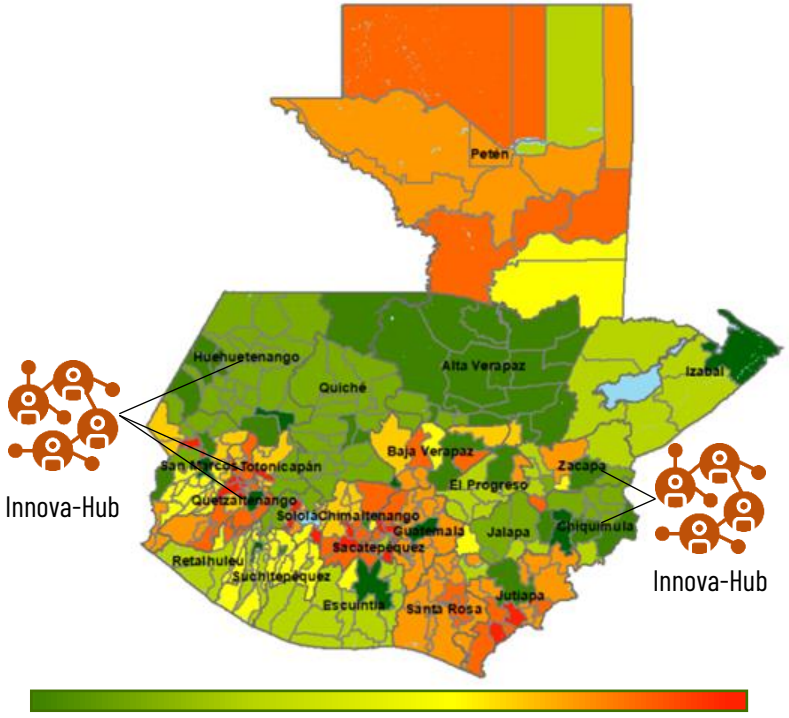
Building on previous work, AgriLAC **enhanced dissemination of the agroclimatic bulletin via radio spots.** Today about **5.1K women and 4.9K men** just in Guatemala access to agroclimatic information.





Climate-gender-migration nexus
to inform localized interventions

Mapping of Food Security and Nutrition Interventions in Guatemala: analysis at the municipal level.



Low rate of chronic malnutrition and high intensity of interventions

High rate of chronic malnutrition and low intensity of interventions

CGIAR INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE IFPRI CGIAR INITIATIVE ON AgriLAC Resiliente

NOTA TECNICA DICIEMBRE 2022

Mapeo de Intervenciones en Seguridad Alimentaria y Nutrición en Guatemala: Análisis a nivel municipal

Manuel A. Hernandez, Cynthia Paz y Constanza Alarcón*

CGIAR INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE IFPRI Alliance Bioversity & CIAT CGIAR INITIATIVE ON AgriLAC Resiliente

BRIEF NOTE FOR INITIAL DISTRIBUTION ON GENDER AND YOUTH LEARNING STUDIES IN GUATEMALA (DECEMBER 2022)

Cultural and economic barriers and opportunities for the participation of women in agricultural and livestock activities: A case study in Guatemala

Manuel A. Hernandez, Constanza Alarcón, María Lucía Berrospi, Byron Reyes, Diana Carolina Lopera, Diana Katherine Quintero.

This analysis has caught the attention of the Group of **13 donors in Guatemala** with which we will generate a tool (platform) that could help local institutions to better coordinate and complement efforts in the country.

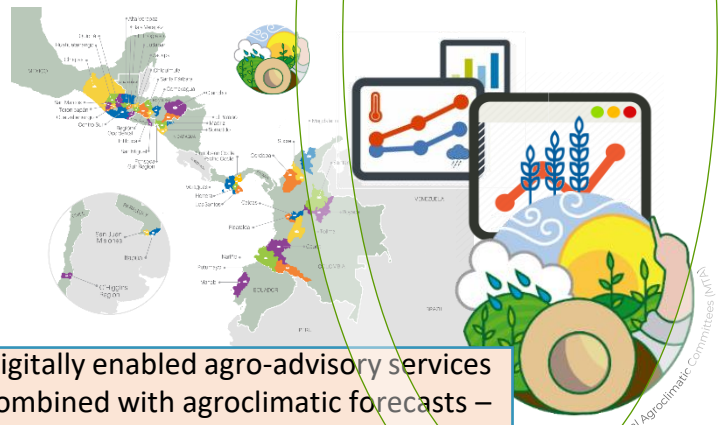
Addressing the causes of deforestation in Peru

Processes of migration and unplanned land occupation associated with the development of economic activities that compete with standing forests, threatening them with processes of deforestation and forest degradation.

AgriLAC in a nutshell: our integrated approach

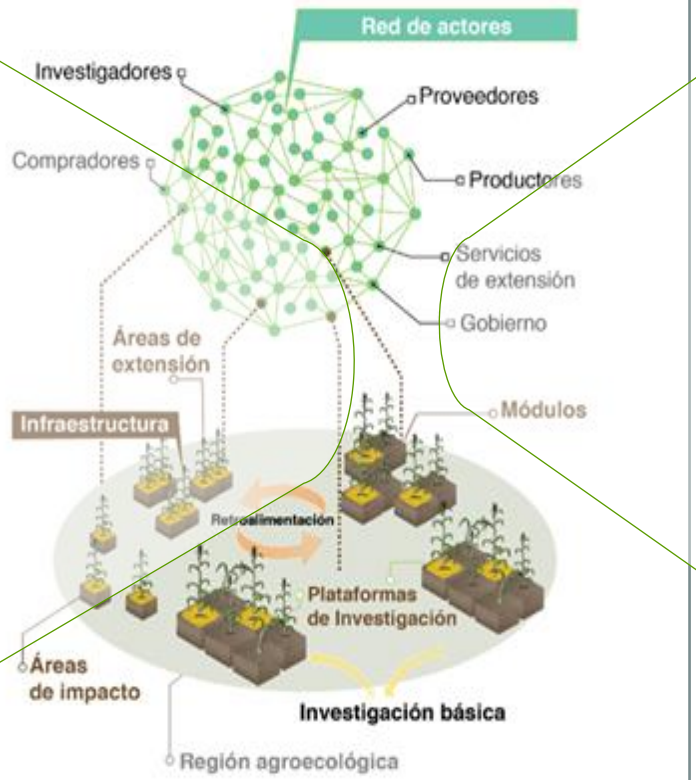
Systemic and systematic approach of **gender, youth and social inclusion** to ensure equitable implementation and outcomes **(GYSI)**

Climate smart & nutrition sensitive Socio-Ecological-Technical (SET) innovations – **WP1**



Digitally enabled agro-advisory services combined with agroclimatic forecasts – **WP2**

InnovaHubs for collaborative multi-thematic innovation and scaling of SET innovations – **WP4**



Multiscale strategies to achieve SDGs and meet low emissions development goals– **WP3**

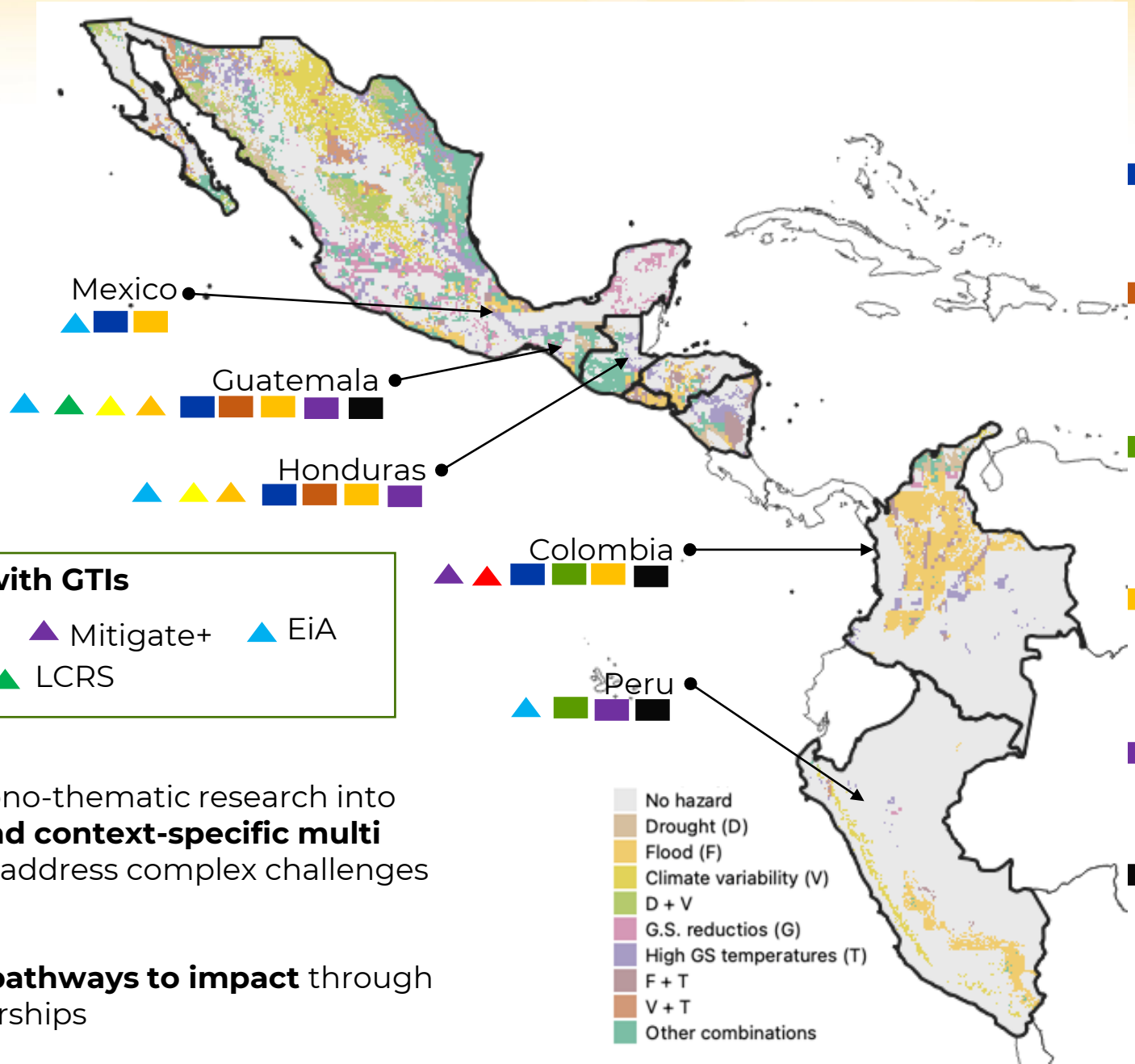
Science-informed policies and investments for resilient AFS – **WP5**

Ongoing collaboration with GTIs

- ClimBeR
- Digital innovation
- LCRS
- NPS
- Mitigate+
- EiA

MEL data and the learning studies to account for the contribution. Building on e-agrology monitoring system **(MELIA)**

Geographies & collaboration with thematic initiatives



Ongoing collaboration with GTIs

- ClimBeR
- NPS
- Mitigate+
- EiA
- Digital innovation
- LCRS

- ✓ AgriLAC integrates mono-thematic research into **coherent, systemic and context-specific multi thematic solutions** to address complex challenges on the ground.
- ✓ **AgriLAC accelerates pathways to impact** through robust regional partnerships

- SET innovations – inclusive, climate smart & nutrition sensitive **(WP1)**
- Digitally-enabled tools for informed decision-making across AFS segments (**WP2**)
- Science-based strategies to meet mitigation targets with SDGs (**WP3**)
- InnovaHubs for grounded evidence, uptake and scaling out SET innovations (**WP4**)
- Policies and investments for scaling up SET innovations (**WP5**)
- Gender responsive approaches embedded across WPs and geographies (**Gender**)

2023 expected results to inform major outcomes

SET Innovations co-development

- **Deploy participatory validation** climate-resilient, gender and nutrition-sensitive technologies in maize, beans and rice across AgriLAC countries.
- **Program on capacity strengthening** of NARS and other AFS partners to co-develop SET innovations.

Innova-Hubs *Collaborative validation & out-scaling*

- Strengthening **local partnerships in both Innova-Hubs** in Guatemala and Honduras and building blocks for establishing an Innova-hub in Colombia aligning bilateral funding.
- **Network of CoPs** between extensionists, scientists, and farmers to optimize targeted capacity building and farm extension, also connected to public and private initiatives.

Digitally enabled tools

- **Honduras** adopting **data hubs** technologies and tools.
- **Increased used of agroclimatic services** by farmers in AgriLAC countries.
- **Consolidation of co-design partnerships** to develop contextualized digital tools.

Policy-science interface and Gender

- Results on **policy recommendations** from IASI for Guatemala, Honduras and Peru AFS
- South-south exchanges for **cross-fertilization, learning and collaboration** between partners, researchers and initiatives.
- Analysis Push and Pull of **migration drivers and migration** propensity index in Peru.

MELIA

- **Regional social network analysis** of partnership as baseline to inform pathways for impact of the initiative.
- Implementation of **baseline** to measure impact of the initiative.
- **Gender learning** study on climate and migration nexus.

Thanks!

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CGIAR
Science for a food-secure future

CGIAR Alliance Bioversity International CIAT CIMMYT International Maize and Wheat Improvement Center CIP International Potato Center IFPRI International Food Policy Research Institute