

#### FOOD SECURITY IN CRISIS

The world is currently facing a series of unprecedented global challenges. Food security is one of them.



By 2050, 70% more food will be required to feed humanity (compared to 2010).1



**Food production capacity** is decreasing, mostly due to climate change.



In 2021, 828 million people were suffering from hunger —46 million more than in 2020.<sup>2</sup>

Food systems —the way we produce, process, transport and consume food— are in crisis, and this crisis translates into economic inequality, social unrest and conflicts.

The food system crisis is taking place in the context of a more global crisis that has come to be known as the three Cs crisis: Climate, COVID and Conflict.

### LATIN AMERICA AND THE CARIBBEAN, A KEY REGION FOR FEEDING THE WORLD

The Latin America and the Caribbean region plays an essential role in global food production and the conservation of the planet's biodiversity. The region holds:



largest reserve of arable soil.

the world.3



**30%** of the planet's renewable water and **46%** of its tropical forests.



30% of the world's biodiversity.

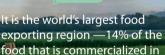


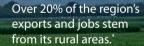
33% of available land.



resources.5

The importance of agriculture and rural areas in the region is undeniable:





The focus on food exports and processed foods is threatening local resources and traditional agrifood production practices.

By 2050, food demand in the region

will increase by 22.5% (compared to

2020), but agriculture already uses:

- 1. ECLAC (2021), Balance preliminar de las economías de América Latina y el Caribe 2020. https://repositorio.cepal.org/handle/11362/46501 2. FAO et al (2022), El Estado de la Seguridad Alimentaria en el Mundo 2022: https://www.fao.org/publications/card/es/c/CC0639ES. 3. World Bank (2020), Future Foodscapes. Re-imagining Agriculture in Latin America and the Caribbean.

- 4. ECLAC (2021), op. cit.
- 5. World Bank (2020), op. cit.

#### WHAT IS CGIAR?

During its history, which spans over 50 years, CGIAR has consolidated itself as the world's largest scientific agricultural **research network**. CGIAR now brings together:

research centers throughout the world. A network of more than 3.000 institutional partners.

Approximately 9.000 staff in almost of more than 4 partners.

In 2019, CGIAR initiated a broad reform process. The evolution towards One CGIAR means that this extensive research network works in a more unified, coherent and focalized way. Its increasingly coordinated global structure, governance and strategic vision are unfolding through more multidimensional thematic and regional initiatives, while its research centers continue to be the pillars of its activity.

#### Our mission

Use science and innovation to transform food, land and water systems in the context of the climate crisis. In other words: use science to ensure that food security is a right for all and not a privilege for a few.

#### Our vision

- Food systems must be more sustainable, inclusive and equitable, as proven by the United Nations Food Systems Summit.
- The food system reform should be the **first step in a change** that would guarantee sustainable livelihoods for all humanity.
- This reform requires a global effort by governments, international organizations, academic and scientific institutions, the private sector and civil society.
- This change requires scientific and technological innovation that CGIAR's global research experience brings to the table.



# **OUR ACHIE**

#### Global achievements

About 60% of the world's agricultural land planted with **improved varieties** includes many of the approximately 7,250 varieties resulting from CGIAR research.

The CGIAR's methods for surveillance and climate modeling, developed over more than 35 years, have informed key policies on agriculture and climate adaptation around the world.

The 82 New Rice for Africa (NERICA) varieties used around the world have brought food security to 7.2 million people and lifted about 8 million people out of poverty.

The Research Program on Roots, Tubers and Bananas has enabled 12.7 million rural families in Africa and Asia to increase their food production.

Rust-resistant wheat varieties developed by CGIAR have added 6.2 million tons annually (over US\$1.0 billion per year) to world wheat harvests.

CGIAR has developed more than 200 climate-resilient maize varieties. These varieties give at least 25%-30% greater yields than conventional varieties.

> More than 50 million smallholder farmers in 41 countries benefit from biofortified crops





Access CGIAR Research Initiatives

#OurInitiatives



## **VEMENTS**



investments extend way beyond any monetary calculations.

#### CGIAR'S VALUE PREPOSITION FOR

#### A key partner for the region



The **Regional Directorship for Latin America and the Caribbean**, established during the CGIAR reform process, was created to provide a **clear entry point to the CGIAR** for the different stakeholders in the region (governments, businesses, farmer organizations, international organizations and others), to channel their agricultural research and innovation needs and activate the entire CGIAR network.

Due to our capacity and experience, we can be a key partner for Latin America and the Caribbean to:

- Optimize its **biodiversity** to improve its **food security** and nutrition.
- Consolidate its position as the main **food exporting** region.
- Mitigate the deterioration of its natural heritage.
- Ensure the optimal use of its arable land.
- Decrease the productivity gap between agribusiness and family farming.

#### Our resources in Latin America and The Caribbean



In 2022, CGIAR invested **US\$30 million** in Latin America and the Caribbean through its global and regional initiatives. Additionally, the total value of the portfolio of ongoing bilateral initiatives with at least partial implementation in Latin America and the Caribbean is **US\$200 million.** CGIAR's contribution to the region goes beyond these financial resources and includes:

- Our **research centers** based in the region:
- Alliance of Bioversity International and the International Center for Tropical Agriculture (**Alliance Bioversity-CIAT**), in Colombia.
- International Maize and Wheat Improvement Center (CIMMYT), in Mexico.
- International Potato Center (CIP), in Peru.
- Latin America and the Caribbean regional office of the International Food Policy Research Institute (IFPRI).
- 16 global research initiatives benefiting countries in the region.
- A regional research initiative, AgriLAC Resiliente.

#### **AgriLAC Resiliente**



AgriLAC Resiliente is a CGIAR initiative designed from a **completely Latin American perspective**. With an initial annual budget of **US\$4 million**, it aims -with the support of governments, private sector, civil society and regional and global donors- to improve the livelihoods of **rural producers** in the region, building their capacities to:

- Solve urgent food security needs.
- Mitigate climate risks.
- Stabilize communities that are vulnerable to conflict.
- Reduce forced migration.

#### LATIN AMERICA AND THE CARIBBEAN

#### A regional approach to reforming food systems

To guarantee the success of the food system reform in Latin America and the Caribbean, the region must establish clear priorities and a **common research agenda** that is carefully planned and includes collaboration with a broad range of public- and private-sector partners.

With adequate financing, CGIAR can make decisive contributions to:

- Strengthening regional and global food security.
- Building sustainable **food systems** in the region.
- Invigorating dialogue on the **regional agrifood research and innovation agenda**.
- Supporting and strengthening national agricultural extension and research systems.



#### Financing for research and innovation

The funds contributed by our funders (governments, bilateral and multilateral cooperation and financial institutions, philanthropic foundations) are key to maintaining CGIAR's research activities. **Three financing channels** support the network's endeavours:

- CGIAR Trust Fund Window 1 (housed at the World Bank) to support the entire portfolio of initiatives, concrete initiatives or the CGIAR's global system.
- CGIAR Trust Fund Window 3 (housed at the World Bank) to support specific projects designed in collaboration with CGIAR.
- Bilateral investments in CGIAR centers for specific activities.



### A greater presence of Latin America and the Caribbean

Contributing to CGIAR's funding implies a **more significant role in defining its vision** and in its decision-making processes. Funders represent the most important part of the **System Council**, and the System Council and System Board are the network's main governing bodies.

A greater financial contribution from partners in Latin America and the Caribbean would **increase the visibility of the region's needs, challenges and** 

**capacities** within CGIAR's strategic dialogues, as is already the case of international financial institutions from other regions (i.e., African Development Bank or Asian Development Bank).



## **CGIAR CENTERS**



























Learn more about CGIAR's work in Latin America and the Caribbean

www.cgiar.org



CIP thanks all donors and organizations that globally support its work through their contributions to the CGIAR Trust Fund. www.cqiar.org/funders



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